

NTEK 北测[®]

RADIO TEST REPORT FCC ID: 055240123

Product: 4G Fixed phone Trade Mark: LOGIC, ISWAG, UNONU Model No.: FIXO 240L Family Model: HEAT 240L Report No.: STR230201002002E Issue Date: Mar 01, 2023

Prepared for

SWAGTEK

10205 NW 19th Street STE101 Miami, FL 33172, United States

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090 Website: http://www.ntek.org.cn





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1 TEST RESULT CERTIFICATION

| SWAGTEK |
|--|
| 10205 NW 19th Street STE101 Miami, FL 33172, United States |
| SWAGTEK |
| 10205 NW 19th Street STE101 Miami, FL 33172, United States |
| |
| 4G Fixed phone |
| LOGIC, ISWAG, UNONU |
| FIXO 240L |
| HEAT 240L |
| T230201002R002 |
| |

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 | Complied |
| ANSI C63.10-2013 | Complied |
| 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.

| Date of Test | : | Feb 01, 2023 ~ Mar 01, 2023 |
|----------------------|---|-----------------------------|
| Testing Engineer | : | Muhri Lee |
| | | (Mukzi Lee) |
| | | Ades |
| Authorized Signatory | : | |
| | | (Alex Li) |
| | | |
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SUMMARY OF TEST RESULTS 2

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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) | Radiated Spurious Emission | PASS | | |
| 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.





3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

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.

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 recognized |
| | International Standard ISO/IEC 17025:2005 General requirements for |
| | the competence of testing and calibration laboratories. |
| | This accreditation demonstrates technical competence for a defined |
| | scope and the operation of a laboratory quality management system |
| | (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009). |
| Name of Firm | : Shenzhen NTEK Testing Technology Co., Ltd. |
| Site Location | : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang |
| | Street, Bao'an District, Shenzhen 518126 P.R. China. |

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y\pm U$, 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 |



4 GENERAL DESCRIPTION OF EUT

| Product Feature and Specification | | | | |
|-----------------------------------|--|--|--|--|
| Equipment | 4G Fixed phone | | | |
| Trade Mark | LOGIC, ISWAG, UNONU | | | |
| FCC ID | O55240123 | | | |
| Model No. | FIXO 240L | | | |
| Family Model | HEAT 240L | | | |
| Model Difference | All the model are the same circuit and RF module, except the model name. | | | |
| Operating Frequency | 2402MHz~2480MHz | | | |
| Modulation | GFSK | | | |
| Number of Channels | 40 Channels | | | |
| Antenna Type | PIFA Antenna | | | |
| Antenna Gain | 1.15 dBi | | | |
| Adapter | Model: FIXO 240L Input: AC 100-240V~50/60Hz 0.15A Output: DC 5.0V500mA | | | |
| Battery | DC 3.7V, 1400mAh, 5.18Wh | | | |
| Power supply | DC 3.7V from battery or DC 5V from adapter | | | |
| HW Version | MM6223-MB-V1.0 | | | |
| SW Version | LOGIC_FIXO_240L | | | |

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

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| Revision filstory | | | | | |
|-------------------|---------|-------------------------|--------------|--|--|
| Report No. | Version | Description | Issued Date | | |
| STR230201002002E | Rev.01 | Initial issue of report | Mar 01, 2023 | | |
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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 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+kx2MHz 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 | Mode 1: normal link mode | |
| | Mode 1: normal link mode | |
| Radiated Test | Mode 2: GFSK Tx Ch00_2402MHz_1Mbps | |
| Cases | Mode 3: GFSK Tx Ch19_2440MHz_1Mbps | |
| | Mode 4: GFSK Tx Ch39_2480MHz_1Mbps | |
| Conducted Test | Mode 2: GFSK Tx Ch00_2402MHz_1Mbps | |
| Conducted Test Cases | Mode 3: GFSK Tx Ch19_2440MHz_1Mbps | |
| Cases | Mode 4: GFSK Tx Ch39_2480MHz_1Mbps | |

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.

4. EUT built-in battery-powered, the battery is fully-charged.

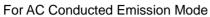


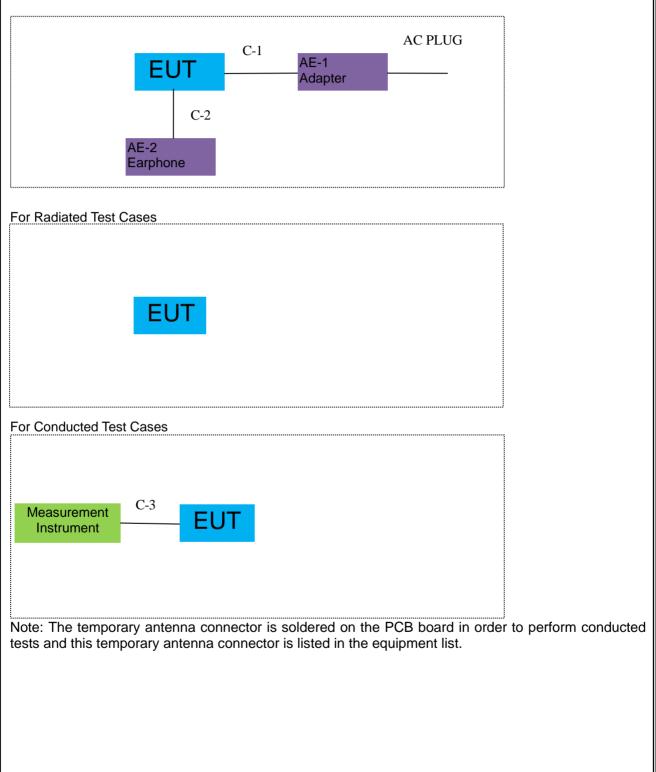
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

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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 |
|------|-----------|----------------|------------|-------------|
| AE-1 | Adapter | FIXO 240L | N/A | Peripherals |
| AE-2 | Earphone | N/A | N/A | Peripherals |
| | | | | |
| | | | | |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|------|----------------|---------------|--------------|--------|
| C-1 | USB Cable | NO | NO | 0.75m |
| 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

| | | | | | 1 | | |
|----|---|-----------------|-----------------|-------------------|------------------|---------------------|---------------------------|
| | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibrati on period |
| 1 | Spectrum Analyzer | Aglient | E4407B | MY45108040 | 2022.04.01 | 2023.03.31 | 1 year |
| 2 | Spectrum Analyzer | Agilent | N9020A | MY49100060 | 2022.04.01 | 2023.03.31 | 1 year |
| 3 | Spectrum Analyzer | R&S | FSV40 | 101417 | 2022.06.16 | 2023.06.15 | 1 year |
| 4 | Test Receiver | R&S | ESPI7 | 101318 | 2022.04.06 | 2023.04.05 | 1 year |
| 5 | Bilog Antenna | TESEQ | CBL6111D | 31216 | 2022.03.30 | 2023.03.29 | 1 year |
| 6 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200983705 | 2020.05.11 | 2023.05.10 | 3 year |
| 7 | Horn Antenna | EM | EM-AH-1018 0 | 2011071402 | 2022.03.31 | 2023.03.30 | 1 year |
| 8 | Broadband Horn Antenna | SCHWARZBE CK | BBHA 9170 | 803 | 2022.11.07 | 2023.11.06 | 1 year |
| 9 | Amplifier | EMC | EMC051835 SE | 980246 | 2022.06.17 | 2023.06.16 | 1 year |
| 10 | Active Loop Antenna | SCHWARZBE CK | FMZB 1519 B | 055 | 2022.11.04 | 2023.11.03 | 1 year |
| 11 | Power Meter | DARE | RPR3006W | 15I00041SN 084 | 2022.06.16 | 2023.06.15 | 1 year |
| 12 | Test Cable (9KHz-30MHz) | N/A | R-01 | N/A | 2022.06.17 | 2025.06.16 | 3 year |
| 13 | Test Cable (30MHz-1GHz) | N/A | R-02 | N/A | 2022.06.17 | 2025.06.16 | 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 | 2020.04.07 | 2023.04.06 | 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



Report No.: STR230201002002E

| 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 | 2022.04.06 | 2023.04.05 | 1 year |
| 2 | LISN | R&S | ENV216 | 101313 | 2022.04.06 | 2023.04.05 | 1 year |
| 3 | LISN | SCHWARZBE CK | NNLK 8129 | 8129245 | 2022.04.06 | 2023.04.05 | 1 year |
| 4 | 50Ω Coaxial Switch | ANRITSU CORP | MP59B | 6200983704 | 2020.05.11 | 2023.05.10 | 3 year |
| 5 | Test Cable (9KHz-30MH z) | N/A | C01 | N/A | 2020.05.11 | 2023.05.10 | 3 year |
| 6 | Test Cable (9KHz-30MH z) | N/A | C02 | N/A | 2020.05.11 | 2023.05.10 | 3 year |
| 7 | Test Cable (9KHz-30MH z) | N/A | C03 | N/A | 2020.05.11 | 2023.05.10 | 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.

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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 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

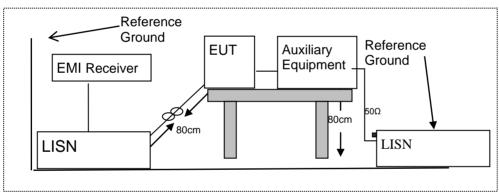
2. The lower limit shall apply at the transition frequencies

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.
- 3. 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

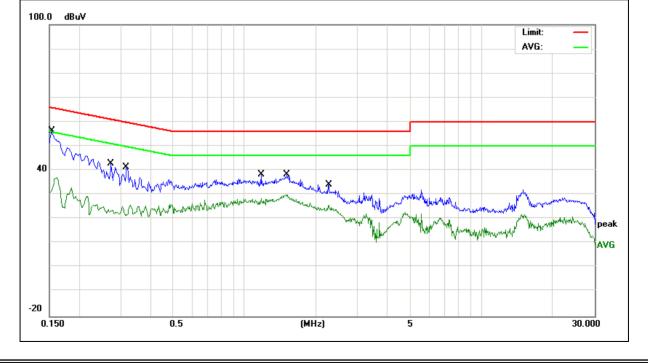
| EUT: | 4G Fixed phone | Model Name : | FIXO 240L |
|----------------|------------------------------------|--------------------|-----------|
| Temperature: | 22 °C | Relative Humidity: | 57% |
| Pressure: | 1010hPa | Phase : | L |
| Test Voltage : | DC 5V from Adapter AC 120V/60Hz | Test Mode: | Mode 1 |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Domork |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Remark |
| 0.1539 | 46.69 | 9.60 | 56.29 | 65.78 | -9.49 | QP |
| 0.1539 | 22.23 | 9.60 | 31.83 | 55.78 | -23.95 | AVG |
| 0.2740 | 33.14 | 9.63 | 42.77 | 60.99 | -18.22 | QP |
| 0.2740 | 13.74 | 9.63 | 23.37 | 50.99 | -27.62 | AVG |
| 0.3180 | 31.65 | 9.64 | 41.29 | 59.76 | -18.47 | QP |
| 0.3180 | 12.12 | 9.64 | 21.76 | 49.76 | -28.00 | AVG |
| 1.1656 | 28.57 | 9.68 | 38.25 | 56.00 | -17.75 | QP |
| 1.1656 | 16.97 | 9.68 | 26.65 | 46.00 | -19.35 | AVG |
| 1.5060 | 28.72 | 9.67 | 38.39 | 56.00 | -17.61 | QP |
| 1.5060 | 20.36 | 9.67 | 30.03 | 46.00 | -15.97 | AVG |
| 2.2620 | 24.42 | 9.70 | 34.12 | 56.00 | -21.88 | QP |
| 2.2620 | 15.17 | 9.70 | 24.87 | 46.00 | -21.13 | AVG |

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.







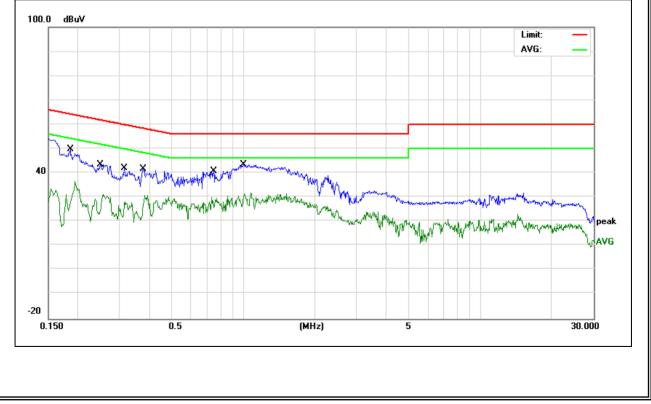
| EUT: | 4G Fixed phone | Model Name : | FIXO 240L |
|----------------|------------------------------------|--------------------|-----------|
| Temperature: | 22 ℃ | Relative Humidity: | 57% |
| Pressure: | 1010hPa | Phase : | Ν |
| Test Voltage : | DC 5V from Adapter AC 120V/60Hz | Test Mode: | Mode 1 |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Domorik |
|-----------|---------------|----------------|--------------|--------|--------|---------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Remark |
| 0.1859 | 40.26 | 9.63 | 49.89 | 64.21 | -14.32 | QP |
| 0.1859 | 17.97 | 9.63 | 27.60 | 54.21 | -26.61 | AVG |
| 0.2479 | 33.95 | 9.62 | 43.57 | 61.82 | -18.25 | QP |
| 0.2479 | 15.00 | 9.62 | 24.62 | 51.82 | -27.20 | AVG |
| 0.3140 | 32.43 | 9.65 | 42.08 | 59.86 | -17.78 | QP |
| 0.3140 | 18.16 | 9.65 | 27.81 | 49.86 | -22.05 | AVG |
| 0.3780 | 31.91 | 9.66 | 41.57 | 58.32 | -16.75 | QP |
| 0.3780 | 17.90 | 9.66 | 27.56 | 48.32 | -20.76 | AVG |
| 0.7500 | 31.20 | 9.67 | 40.87 | 56.00 | -15.13 | QP |
| 0.7500 | 16.21 | 9.67 | 25.88 | 46.00 | -20.12 | AVG |
| 1.0020 | 33.81 | 9.69 | 43.50 | 56.00 | -12.50 | QP |
| 1.0020 | 20.24 | 9.69 | 29.93 | 46.00 | -16.07 | AVG |

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.







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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| According to 1 00 1 art 19:209; restricted bands | | | | |
|--|--|--|--|--|
| 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) | | |
| | | | | |
| | MHz 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 | MHzMHz16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23332-3339240-2853345.8-3358 | | |

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.

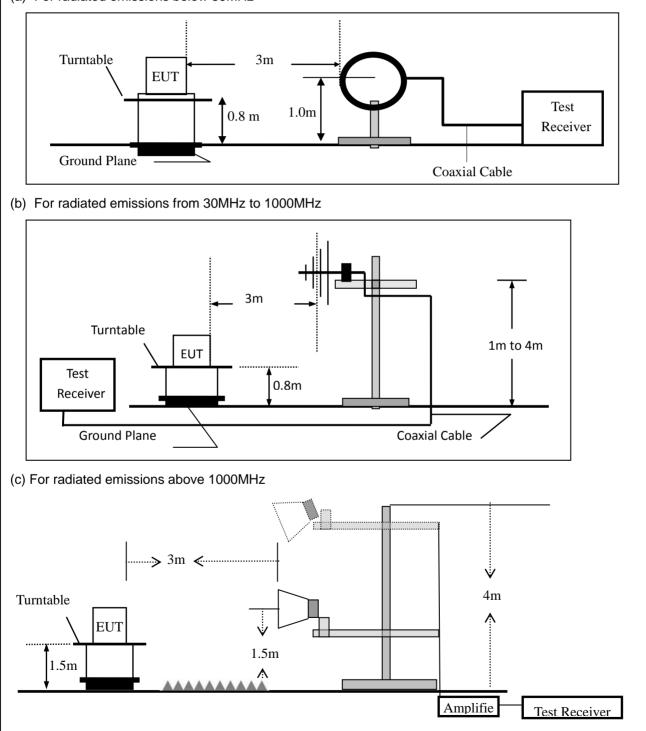


7.2.3 Measuring Instruments

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

7.2.4 Test Configuration

(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) | ency Band (MHz) Function Resolution bandwidth | | Video Bandwidth |
|----------------------|---|-------|-----------------|
| 30 to 1000 | 30 to 1000 QP | | 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: | 4G Fixed phone | Model No.: | FIXO 240L |
|--------------|-----------------------------|--------------------|-----------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Lest Mode. | Mode1/Mode2/Mode3/ Mode4 | Test By: | Mukzi Lee |

| Freq. | Ant.Pol. | Emission Level(dBuV/m) | | Limit 3m(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: | 4G Fixed phone | Model Name : | FIXO 240L |
|----------------|----------------|--------------------|-----------|
| Temperature: | 25 ℃ | Relative Humidity: | 55% |
| Pressure: | 1010hPa | Test Mode: | Mode 3 |
| Test Voltage : | DC 3.7V | | |

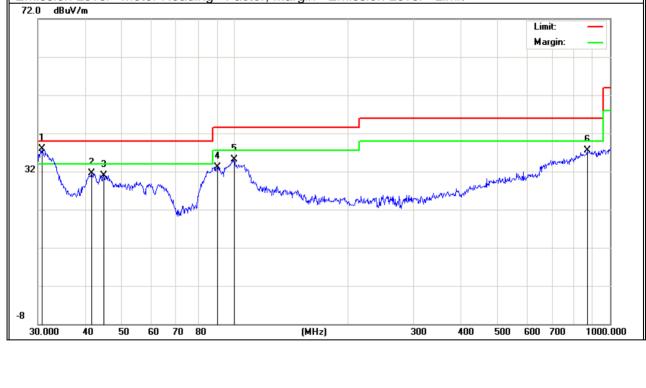
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| Polar | Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Remark | |
|-------|-----------|------------------|---------------|-------------------|---------------|--------|--------|--|
| (H/V) | (MHz) | (dBuV) | (dB) (dBuV/m) | | (dBuV/m) (dB) | | | |
| V | 30.7454 | 12.03 | 25.87 | 37.90 | 40.00 | -2.10 | QP | |
| V | 41.7129 | 12.02 | 19.46 | 31.48 | 40.00 | -8.52 | QP | |
| V | 44.9004 | 13.15 | 17.80 | 30.95 | 40.00 | -9.05 | QP | |
| V | 90.2205 | 16.26 | 16.88 | 33.14 | 43.50 | -10.36 | QP | |
| V | 99.8777 | 17.29 | 17.78 | 35.07 | 43.50 | -8.43 | QP | |
| V | 869.1299 | 7.24 | 30.27 | 37.51 | 46.00 | -8.49 | QP | |

Remark:







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| Polar | Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Remarl |
|-------------|---|------------------|-----------------|----------------------------|----------------------------|---------------------|----------|
| (H/V) | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | rtoman |
| Н | 31.8427 | 7.71 | 24.87 | 32.58 | 40.00 | -7.42 | QP |
| Н | 38.7518 | 6.03 | 21.46 | 27.49 | 40.00 | -12.51 | QP |
| Н | 100.9338 | 12.12 | 17.59 | 29.71 | 43.50 | -13.79 | QP |
| Н | 111.3468 | 9.52 | 18.48 | 28.00 | 43.50 | -15.50 | QP |
| Н | 295.1469 | 5.96 | 19.91 | 25.87 | 46.00 | -20.13 | QP |
| H Remark | 919.2866 | 5.46 | 30.63 | 36.09 | 46.00 | -9.91 | QP |
| | | | | | | Margin: | |
| | | | | | | Margin: | |
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| EUT: 4G Fixed phone | | | | | | <u>z)</u> No.: | | FIX | D 240L | | | |
|--------------------------------------|---------------|---------------|-------------------|-------------------|---------|-------------------|----------|------|--------|--------|------------|--|
| Temperature: 20 °C | | | | | Relativ | /e Humi | dity: | 48% |) | | | |
| Test Mode | e4 | Test B | y: | | Muk | zi Lee | | | | | | |
| | | | | | | | 1 | | | | | |
| Frequency | Read Level | Cable loss | Antenna Factor | Pream Facto | | mission Level | Limits | 6 | Margin | Remark | Comment | |
| (MHz) | (dBµV) | (dB) | dB/m | (dB) | (d | lBμV/m) | (dBµV/ı | m) | (dB) | | | |
| Low Channel (2402 MHz)(GFSK)Above 1G | | | | | | | | | | | | |
| 4804 | 69.55 | 5.21 | 35.59 | 44.30 | 0 | 66.05 | 74.00 |) | -7.95 | Pk | Vertical | |
| 4804 | 45 | 5.21 | 35.59 | 44.30 | 0 4 | 41.50 | 54.00 |) | -12.50 | AV | Vertical | |
| 7206 | 69.99 | 6.48 | 36.27 | 44.60 | 0 | 68.14 | 74.00 |) | -5.86 | Pk | Vertical | |
| 7206 | 45.62 | 6.48 | 36.27 | 44.60 | 0 | 43.77 | 54.00 |) | -10.23 | AV | Vertical | |
| 4804 | 70.63 | 5.21 | 35.55 | 44.30 | 0 | 67.09 | 74.00 |) | -6.91 | Pk | Horizontal | |
| 4804 | 49.87 | 5.21 | 35.55 | 44.30 | 0 | 46.33 | 54.00 |) | -7.67 | AV | Horizontal | |
| 7206 | 69.09 | 6.48 | 36.27 | 44.52 | 2 | 67.32 | 74.00 |) | -6.68 | Pk | Horizontal | |
| 7206 | 46.66 | 6.48 | 36.27 | 44.52 | 2 | 44.89 | 54.00 | | -9.11 | AV | Horizontal | |
| Mid Channel (2440 MHz)(GFSK)Above 1G | | | | | | | | | | | | |
| 4880 | 69.43 | 5.21 | 35.66 | 44.20 | 0 | 66.10 | 74.00 |) | -7.90 | Pk | Vertical | |
| 4880 | 46.99 | 5.21 | 35.66 | 44.20 | 0 4 | 43.66 | 54.00 |) | -10.34 | AV | Vertical | |
| 7320 | 70.58 | 7.10 | 36.50 | 44.43 | 3 | 69.75 | 74.00 |) | -4.25 | Pk | Vertical | |
| 7320 | 48.56 | 7.10 | 36.50 | 44.43 | 3 4 | 47.73 | 54.00 |) | -6.27 | AV | Vertical | |
| 4880 | 69.65 | 5.21 | 35.66 | 44.20 | 0 | 66.32 | 74.00 |) | -7.68 | Pk | Horizontal | |
| 4880 | 48.37 | 5.21 | 35.66 | 44.20 | 0 4 | 45.04 | 54.00 |) | -8.96 | AV | Horizontal | |
| 7320 | 68.67 | 7.10 | 36.50 | 44.43 | 3 (| 67.84 | 74.00 |) | -6.16 | Pk | Horizontal | |
| 7320 | 47.18 | 7.10 | 36.50 | 44.43 | 3 4 | 46.35 | 54.00 |) | -7.65 | AV | Horizontal | |
| | | | High | Channel | (2480 M | lHz)(GFSł | <) Above | e 1G | | | | |
| 4960 | 70.88 | 5.21 | 35.52 | 44.2 | 1 | 67.40 | 74.00 |) | -6.60 | Pk | Vertical | |
| 4960 | 47.92 | 5.21 | 35.52 | 44.2 ⁻ | 1 | 44.44 | 54.00 |) | -9.56 | AV | Vertical | |
| 7440 | 70.81 | 7.10 | 36.53 | 44.60 | 0 | 69.84 | 74.00 |) | -4.16 | Pk | Vertical | |
| 7440 | 46.65 | 7.10 | 36.53 | 44.60 | 0 4 | 45.68 | 54.00 |) | -8.32 | AV | Vertical | |
| 4960 | 69.71 | 5.21 | 35.52 | 44.2 | 1 (| 66.23 | 74.00 |) | -7.77 | Pk | Horizontal | |
| 4960 | 47.53 | 5.21 | 35.52 | 44.2 | 1 | 44.05 | 54.00 |) | -9.95 | AV | Horizontal | |
| 7440 | 68.25 | 7.10 | 36.53 | 44.60 | 0 | 67.28 | 74.00 |) | -6.72 | Pk | Horizontal | |
| 7440 | 50.25 | 7.10 | 36.53 | 44.60 | 0 4 | 49.28 | 54.00 |) | -4.72 | 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





| Spurious Er | mission in | Restricted Band 231 | 0-2390MHz and 2483. | 5-2500MHz |
|-------------|------------|---------------------|---------------------|-----------|
| | | | | |

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| EUT: | 4G Fixed phone | Model No.: | FIXO 240L |
|--------------|----------------|--------------------|-----------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/ Mode4 | Test By: | Mukzi Lee |
| | | | |

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| Frequency | Meter Reading | Cable Loss | Antenna Factor | Preamp Factor | Emission Level | Limits | Margin | Detector | Comment | | | |
|-----------|------------------|---------------|-------------------|------------------|-------------------|----------|--------|----------|------------|--|--|--|
| (MHz) | (dBµV) | (dB) | dB/m | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре | | | | |
| | 1Mbps(GFSK) | | | | | | | | | | | |
| 2310.00 | 69.13 | 2.97 | 27.80 | 43.80 | 56.10 | 74 | -17.90 | Pk | Horizontal | | | |
| 2310.00 | 50.78 | 2.97 | 27.80 | 43.80 | 37.75 | 54 | -16.25 | AV | Horizontal | | | |
| 2310.00 | 69.03 | 2.97 | 27.80 | 43.80 | 56.00 | 74 | -18.00 | Pk | Vertical | | | |
| 2310.00 | 47.41 | 2.97 | 27.80 | 43.80 | 34.38 | 54 | -19.62 | AV | Vertical | | | |
| 2390.00 | 70.38 | 3.14 | 27.21 | 43.80 | 56.93 | 74 | -17.07 | Pk | Vertical | | | |
| 2390.00 | 50.63 | 3.14 | 27.21 | 43.80 | 37.18 | 54 | -16.82 | AV | Vertical | | | |
| 2390.00 | 70.84 | 3.14 | 27.21 | 43.80 | 57.39 | 74 | -16.61 | Pk | Horizontal | | | |
| 2390.00 | 48.01 | 3.14 | 27.21 | 43.80 | 34.56 | 54 | -19.44 | AV | Horizontal | | | |
| 2483.50 | 68.54 | 3.58 | 27.70 | 44.00 | 55.82 | 74 | -18.18 | Pk | Vertical | | | |
| 2483.50 | 50.26 | 3.58 | 27.70 | 44.00 | 37.54 | 54 | -16.46 | AV | Vertical | | | |
| 2483.50 | 69.01 | 3.58 | 27.70 | 44.00 | 56.29 | 74 | -17.71 | Pk | Horizontal | | | |
| 2483.50 | 48.55 | 3.58 | 27.70 | 44.00 | 35.83 | 54 | -18.17 | AV | Horizontal | | | |

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 Emission in Restricted Band 3260MHz-18000MHz | | | | | | | | | | | |
|---|------------------|-----|----------------|--------------------|------------------|-------------------|----------|-----------|--------|----------|------------|
| EUT: 4G F | | | 4G Fixed phone | | | Model No.: F | | FIXO 240L | | | |
| Temperature: 20 °C | | | Relati | Relative Humidity: | | 48% | | | | | |
| Test Mode: Mode | | | Mode2/ Mode4 | | | Test By: Mukzi | | Lee | | | |
| | | | | | | | | | | | |
| Frequency | Reading Level | | Cable Loss | Antenna Factor | Preamp Factor | Emission Level | Li | mits | Margin | Detector | Comment |
| (MHz) | (dBµ | IV) | (dB) | dB/m | (dB) | (dBµV/m) | (dBµV/m) | | (dB) | Туре | |
| 3260 | 68.32 | | 4.04 | 29.57 | 44.70 | 57.23 | | 74 | -16.77 | Pk | Vertical |
| 3260 | 46.95 | | 4.04 | 29.57 | 44.70 | 35.86 | 4 | 54 | -18.14 | AV | Vertical |
| 3260 | 69.51 | | 4.04 | 29.57 | 44.70 | 58.42 | | 74 | -15.58 | Pk | Horizontal |
| 3260 | 46.35 | | 4.04 | 29.57 | 44.70 | 35.26 | | 54 | -18.74 | AV | Horizontal |
| 3332 | 69 | | 4.26 | 29.87 | 44.40 | 58.73 | | 74 | -15.27 | Pk | Vertical |
| 3332 | 48.43 | | 4.26 | 29.87 | 44.40 | 38.16 | 4 | 54 | -15.84 | AV | Vertical |
| 3332 | 70.7 | 71 | 4.26 | 29.87 | 44.40 | 60.44 | | 74 | -13.56 | Pk | Horizontal |
| 3332 | 46.39 | | 4.26 | 29.87 | 44.40 | 36.12 | 4 | 54 | -17.88 | AV | Horizontal |
| 17797 | 59.56 | | 10.99 | 43.95 | 43.50 | 71.00 | | 74 | -3.00 | Pk | Vertical |
| 17797 | 40.25 | | 10.99 | 43.95 | 43.50 | 51.69 | 4 | 54 | -2.31 | AV | Vertical |
| 17788 | 60.49 | | 11.81 | 43.69 | 44.60 | 71.39 | | 74 | -2.61 | Pk | Horizontal |
| 17788 | 31.58 | | 11.81 | 43.69 | 44.60 | 42.48 | 4 | 54 | -11.52 | 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: | 4G Fixed phone | Model No.: | FIXO 240L |
|--------------|-------------------|--------------------|-----------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Mukzi Lee |



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: | 4G Fixed phone | Model No.: | FIXO 240L |
|--------------|----------------|--------------------|-----------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | N/A | Test By: | N/A |

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Note: Not Applicable



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: | 4G Fixed phone | Model No.: | FIXO 240L |
|--------------|-------------------|--------------------|-----------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Mukzi Lee |



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: | 4G Fixed phone | Model No.: | FIXO 240L |
|--------------|-------------------|--------------------|-----------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Mukzi Lee |

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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: | 4G Fixed phone | Model No.: | FIXO 240L |
|--------------|----------------|--------------------|-----------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode4 | Test By: | Mukzi Lee |





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 PIFA antenna (Gain: 1.15 dBi). It comply with the standard requirement.



8 TEST RESULTS

8.1 **1M**

8.1.1 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|-----------|--------------------|---------|-----------------------------|------------------------|-------------------------|----------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -5.57 | 0 | -5.57 | 30 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | -4.21 | 0 | -4.21 | 30 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -5.93 | 0 | -5.93 | 30 | Pass |

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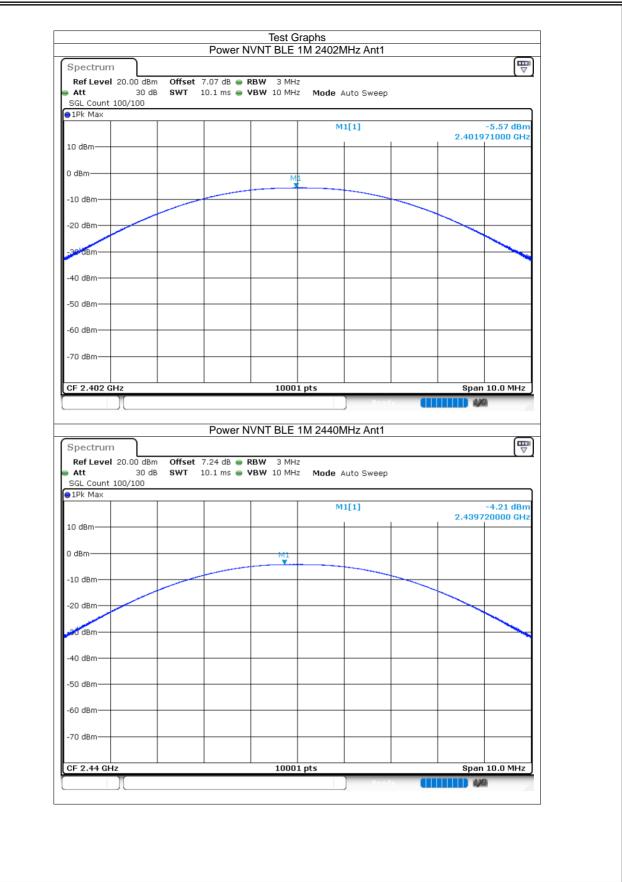


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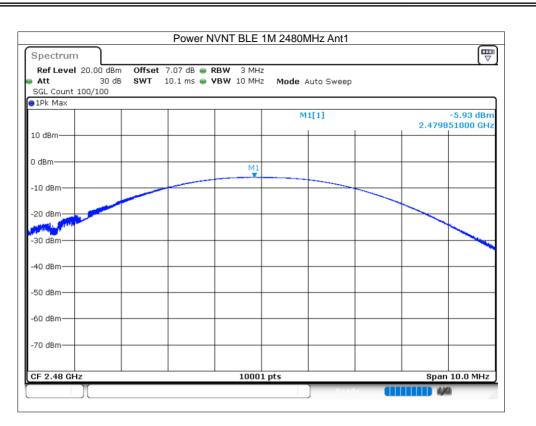
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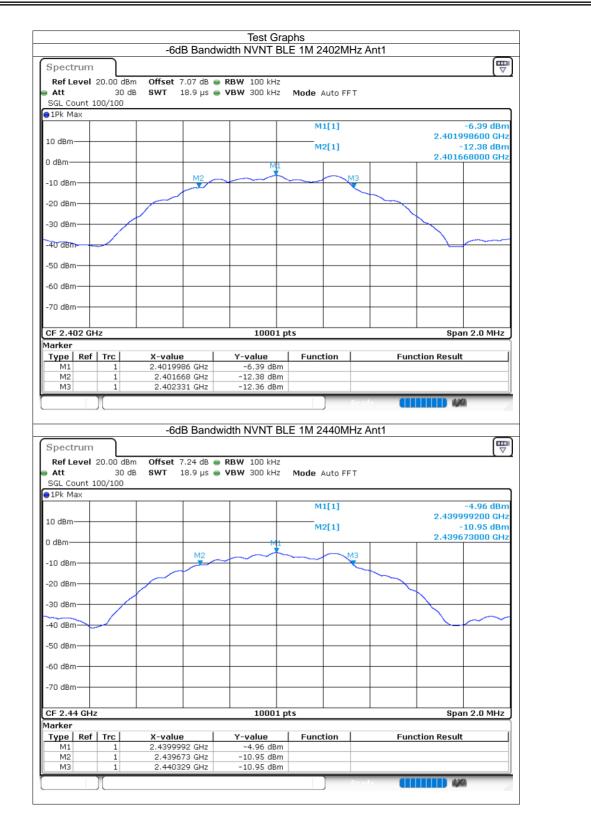




8.1.2 -6dB Bandwidth

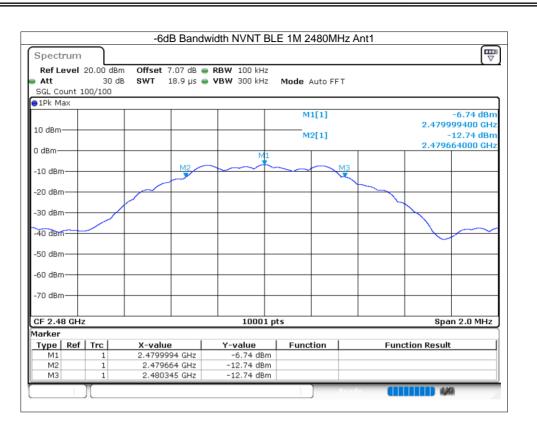
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|-----------|--------------------|---------|--------------------------|--------------------------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | 0.663 | 0.5 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | 0.656 | 0.5 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 0.681 | 0.5 | Pass |





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8.1.3 Occupied Channel Bandwidth

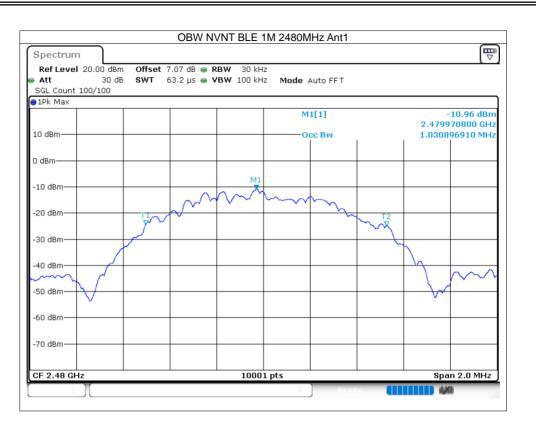
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|--------|-----------------|---------|---------------|
| NVNT | BLE 1M | 2402 | Ant1 | 1.034 |
| NVNT | BLE 1M | 2440 | Ant1 | 1.028 |
| NVNT | BLE 1M | 2480 | Ant1 | 1.031 |





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8.1.4 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|-----------|-----------|--------------------|---------|------------------------|------------------------|-----------------------|----------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -20.83 | 0 | -20.83 | 8 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | -19.45 | 0 | -19.45 | 8 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -21.23 | 0 | -21.23 | 8 | Pass |

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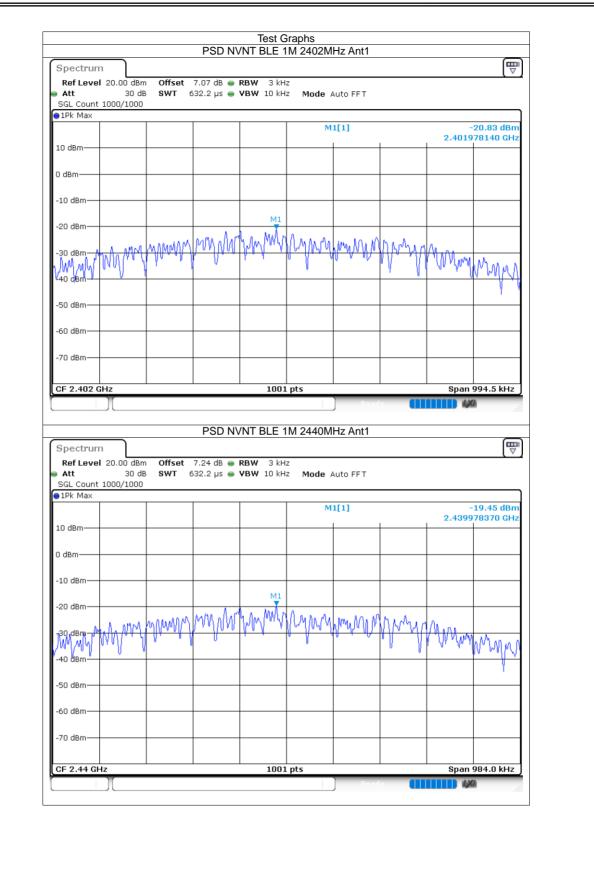


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| Spectrum | | | | | □ |
|--|--|--------|-------|------------|---------|
| Ref Level 20.00 dBm Offset Att 30 dB SWT SGL Count 1000/1000 | 7.07 dB ● RBW 3 kHz 632 µs ● VBW 10 kHz | | | | |
| 1Pk Max | | M1[1] | | -21 | .23 dBm |
| 10 dBm | | | | 2.47997 | 355 GHz |
|) dBm | | | | | |
| -10 dBm | | | | | |
| -20 dBm | M1 | | | | |
| -30 dBm . A. MPA MAMAP | maluham | MAMMAN | human | | |
| | | | 10045 | MANAN | MMAA |
| | | | | | 1.1 |
| 50 dBm | | | | | |
| -60 dBm | | | | | |
| -70 dBm | | | | | |
| CF 2.48 GHz | 100 | L pts | | Span 1.02: | L5 MHz |

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8.1.5 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -35.29 | -20 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -36 | -20 | Pass |

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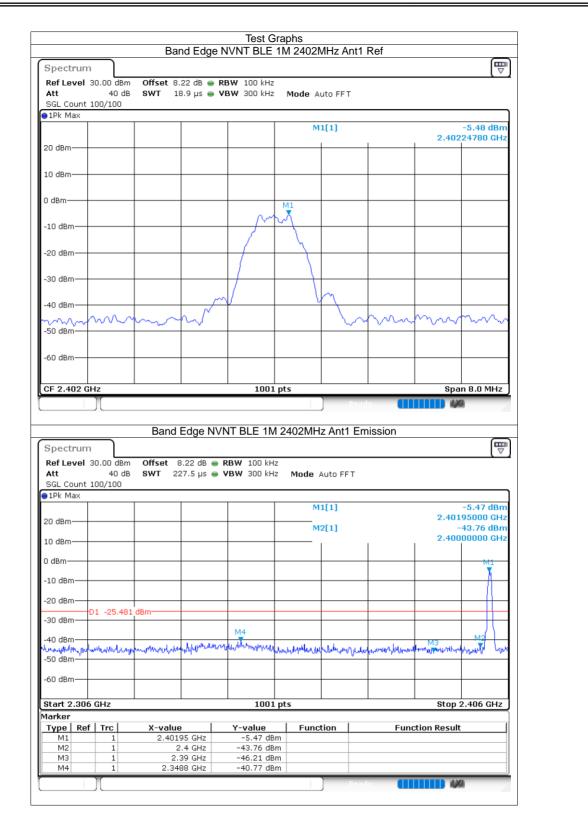


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| SGL Count 100/100 | Offset 8.2 SWT 18. | | | | uto FFT | | | |
|--|--|---|-----------|--|--|------------|--------------------|--|
| 1Pk Max | | | | | | | | |
| | | | | м | 1[1] | | 2.470 | -6.43 dBm 95200 GHz |
| 20 dBm | + + | | | | | | 2.773 | SECO GITE |
| | | | | | | | | |
| LO dBm | + + | | | | | | | |
| | | | | | | | | |
|) dBm | | | M | | | | | |
| 10 dBm | | | <u> </u> | m | | | | |
| 10 0.0 | | | | | | | | |
| -20 dBm | | | | <u> </u> | | | | |
| | | | | | | | | |
| 30 dBm | + + | | / | | | | | |
| | | ~ | V | | m | | | |
| 40,dBm | | | | | | | <u> </u> | |
| | + | \sim | | | ~~~ | \sim | m | m |
| 50 dBm | | | | | | | | |
| -60 dBm | | | | | | | | |
| | | | | | | | | |
| | | | 1001 | | | | | n 8.0 MHz |
| | | | | | | | aya | |
| CF 2.48 GHz | Band E | dge NVN | NT BLE 1M | |) Toor z Ant1 Em | nission | | |
| Spectrum Ref Level 30.00 dBm | | 22 dB 👄 F | NT BLE 1M | 2480MH | | nission | | |
| Spectrum Ref Level 30.00 dBm Att 40 dB SGL Count 100/100 | Offset 8.3 | 22 dB 👄 F | NT BLE 1M | 2480MH | | nission | | |
| Spectrum Ref Level 30.00 dBm Att 40 dB SGL Count 100/100 | Offset 8.3 | 22 dB 👄 F | NT BLE 1M | 2 2 2 2 2 3 2 3 2 3 3 3 3 3 3 3 3 3 3 3 | Auto FFT | nission | | |
| Spectrum Ref Level 30.00 dBm Att 40 dB SGL Count 100/100 p1Pk Max | Offset 8.3 | 22 dB 👄 F | NT BLE 1M | 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 | Auto FFT 1[1] | nission | 2.475 | -5.87 dBm |
| Spectrum Ref Level 30.00 dBm Att 40 dB SGL Count 100/100 1Pk Max 20 dBm | Offset 8.3 | 22 dB 👄 F | NT BLE 1M | 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 | Auto FFT | hission | 2.475 | -5.87 dBm 95000 GHz 45.13 dBm |
| Spectrum Ref Level 30.00 dBm Att 40 dB SGL Count 100/100 1Pk Max 20 dBm | Offset 8.3 | 22 dB 👄 F | NT BLE 1M | 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 | Auto FFT 1[1] | nission | 2.475 | -5.87 dBm |
| Spectrum Ref Level 30.00 dBm Att 40 dB SGL Count 100/100 p1Pk Max 20 dBm L0 dBm | Offset 8.3 | 22 dB 👄 F | NT BLE 1M | 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 | Auto FFT 1[1] | nission | 2.475 | -5.87 dBm 95000 GHz 45.13 dBm |
| Spectrum Ref Level 30.00 dBm Att 40 dB SGL Count 100/100 1Pk Max 20 dBm 10 dBm 0 dBm | Offset 8.3 | 22 dB 👄 F | NT BLE 1M | 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 | Auto FFT 1[1] | nission | 2.475 | -5.87 dBm 95000 GHz 45.13 dBm |
| Spectrum Ref Level 30.00 dBm Att 40 dB SGL Count 100/100 PIPK Max 20 dBm 10 dBm 10 dBm 10 dBm | Offset 8.3 | 22 dB 👄 F | NT BLE 1M | 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 | Auto FFT 1[1] | nission | 2.475 | -5.87 dBm 95000 GHz 45.13 dBm |
| Spectrum Ref Level 30.00 dBm Att 40 dB SGL Count 100/100 PIPK Max 20 dBm 10 dBm 10 dBm 20 dBm 20 dBm | Offset 8.3 SWT 227 | 22 dB 👄 F | NT BLE 1M | 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 | Auto FFT 1[1] | nission | 2.475 | -5.87 dBm 95000 GHz 45.13 dBm |
| CF 2.48 GHz Spectrum Ref Level 30.00 dBm Att 40 dB SGL Count 100/100 PPk Max 20 dBm 10 dBm | Offset 8.3 SWT 227 | 22 dB 👄 F | NT BLE 1M | 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 | Auto FFT 1[1] | nission | 2.475 | -5.87 dBm 95000 GHz 45.13 dBm |
| Spectrum Ref Level 30.00 dBm Att 40 dB SGL Count 100/100 1Pk Max 20 dBm 10 dBm -10 dBm -10 dBm -20 cBm -10 dBm -20 cBm -10 dBm -20 cBm -10 dBm -10 dBm | 6 dBm | 22 dB • F | | 2 2480MH | Auto FFT 1[1] 2[1] | | 2.479 | -5.87 dBm 095000 GHz 45.13 dBm 50000 GHz |
| Spectrum Ref Level 30.00 dBm SGL Count 100/100 p1Pk Max 20 dBm 10 dBm 20 dBm 10 dBm 20 dBm 10 dBm 30 dBm 40 dBm? 40 dBm? | 5 dBm | 22 dB • F | | 2 2480MH | Auto FFT 1[1] 2[1] | hission | 2.479 | -5.87 dBm 095000 GHz 45.13 dBm 50000 GHz |
| Spectrum Ref Level 30.00 dBm Att 40 dB SGL Count 100/100 1Pk Max 20 dBm 10 dBm 20 dBm 20 dBm 10 dBm 20 dBm 40 dBm 10 -26.420 M4 | 5 dBm | 22 dB • F | | 2 2480MH | Auto FFT 1[1] 2[1] | | 2.479 | -5.87 dBm 095000 GHz 45.13 dBm 50000 GHz |
| Spectrum Ref Level 30.00 dBm Att 40 dB SGL Count 100/100 11Pk Max 20 dBm 10 dBm 20 dBm 10 dBm 20 dBm | 5 dBm | 22 dB • F | | 2 2480MH | Auto FFT 1[1] 2[1] | | 2.479 | -5.87 dBm 095000 GHz 45.13 dBm 50000 GHz |
| Spectrum Ref Level 30.00 dBm SGL Count 100/100 10 dBm 10 dBm 20 dBm 10 dBm 20 dBm 20 dBm 10 dBm 20 dBm 50 dBm 50 dBm 60 dBm | 5 dBm | 22 dB • F | | 22 Mode / 2 Mode / Mode / | Auto FFT 1[1] 2[1] | | 2.475 2.483 | -5.87 dBm 995000 GHz 45.13 dBm 50000 GHz |
| Spectrum Ref Level 30.00 dBm SGL Count 100/100 D1Pk Max 20 dBm 10 dBm 20 dBm 10 dBm 20 dBm 10 dBm 20 dBm 50 dBm 10 dBm 20 dBm 50 dBm 60 dBm 60 dBm Start 2.476 GHz | 5 dBm | 22 dB • F | | 22 Mode / 2 Mode / Mode / | Auto FFT 1[1] 2[1] | | 2.475 2.483 | -5.87 dBm 095000 GHz 45.13 dBm 50000 GHz |
| Spectrum Ref Level 30.00 dBm SGL Count 100/100 101Pk Max 20 dBm 10 dBm 20 dBm 10 dBm 20 dBm 10 dBm 20 dBm 10 dBm 20 dBm 30 dBm 40 dBm? 40 dBm? 40 dBm? 40 dBm? 40 dBm? 50 dBm 60 dBm 60 dBm 31 dart 2.476 GHz | 0 Offset 8.: SWT 227 | 22 dB • F | NT BLE 1M | 2480MH 2 Mode / Mode / M | Auto FFT [1] [1] [1] [[[[[[[[[[[[| horrogetun | 2.479 2.483 | -5.87 dBm 995000 GHz 45.13 dBm 250000 GHz |
| Spectrum Ref Level 30.00 dBm SGL Count 100/100 p1Pk Max 20 dBm 10 dBm 20 dBm 10 dBm 20 dBm 10 dBm 30 dBm 40 dBm? 40 dBm? | 5 dBm | 22 dB | | 2480MH 2 Mode / Mode / M m m m | Auto FFT [1] [1] [1] [[[[[[[[[[[[| horrogetun | 2.475 2.483 | -5.87 dBm 995000 GHz 45.13 dBm 250000 GHz |
| Spectrum Ref Level 30.00 dBm Att 40 dB SGL Count 100/100 p1Pk Max 20 dBm 10 dBm 20 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm 60 dBm 60 dBm 60 dBm 61 dBm 61 dBm 61 dBm 61 dBm 61 dBm 61 dBm 62 dBm 63 dBm 64 dBm 65 dBm 66 dBm 67 dBm 60 dBm 60 dBm 61 dBm 61 dBm 61 dBm 61 dBm 61 dBm 62 dBm 63 dBm 64 dBm 65 dBm 66 dBm 67 dBm 68 dBm 69 dBm 60 dBm 60 dBm 60 dBm < | Offset 8.3 SWT 227 SWT 227 | 22 dB 7.5 µs 7.5 µs | NT BLE 1M | 22 Mode / M M m m Func m m | Auto FFT [1] [1] [1] [[[[[[[[[[[[| horrogetun | 2.479 2.483 | -5.87 dBm 995000 GHz 45.13 dBm 250000 GHz |
| Spectrum Ref Level 30.00 dBm Att 40 dB SGL Count 100/100 SIPK Max 20 dBm 10 dBm 20 dBm 20 dBm 20 dBm 30 dBm 20 dBm 30 dBm 50 dBm 60 dBm 60 dBm 60 dBm Start 2.476 GHz Iarker Type Ref Trc M1 | Offset 8.3 SWT 227 SWT 227 | 22 dB ● F | NT BLE 1M | 2480MH 2 Mode / Mode / M m m m m | Auto FFT [1] [1] [1] [[[[[[[[[[[[| horrogetun | 2.479 2.483 | -5.87 dBm 995000 GHz 45.13 dBm 250000 GHz |

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8.1.6 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -39.73 | -20 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | -41.49 | -20 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -39.23 | -20 | Pass |

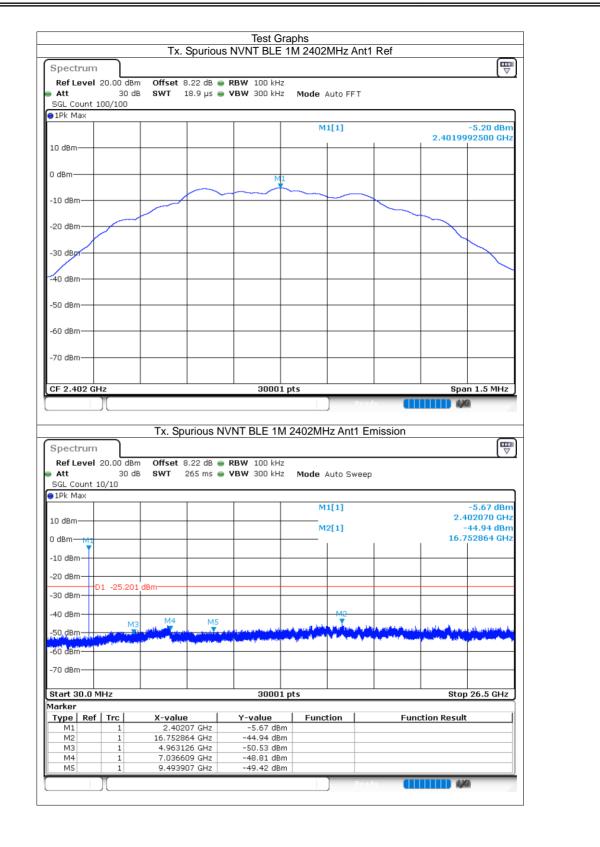


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| Spectrum Ref Level Att SGL Count 1 | 20.00 dBm 30 dB | | | W 100 kHz W 300 kHz | Mode Au | to FFT | | | |
|--|---|---|---|--|---|----------------------|---------|--------|---|
| 1Pk Max | | | | | M1[| 1] | | | -4.13 dBm |
| 10 dBm | | | | | | | | 2.4402 | 447920 GHz |
| | | | | | | | | | |
|) dBm | | | | | | MI | | | |
| -10 dBm | | | | | | | | | |
| -20 dBm | | | | | | | | | |
| | | | | | | | | | |
| -30 dBm | | | | | | | | | |
| -40 dBm | | | | | | | | | |
| -50 dBm | | | | | | | | | |
| | | | | | | | | | |
| -60 dBm | | | | | | | | | |
| -70 dBm | | | | | | | | | |
| | | | | | | | | | |
| CF 2.44 GH: | Z | | | 30001 | pts | Read | | Sp | an 1.5 MHz |
| | | Tx. Spuri | ous NVN | T BLE 1M | 2440MHz | : Ant1 Er | nission | | |
| Spectrum Ref Level | 20.00 dBm 30 dB | Offset 8.3 | ə dB 👄 RB' | | | | | | |
| Ref Level | 20.00 dBm 30 dB | Offset 8.3 | ə dB 👄 RB' | W 100 kHz | Mode Au | to Sweep | | | |
| Ref Level Att SGL Count 1 | 20.00 dBm 30 dB | Offset 8.3 | ə dB 👄 RB' | W 100 kHz | Mode Au M1[| to Sweep 1] | | | -3.80 dBm 440010 GHz |
| Ref Level Att SGL Count 1 1Pk Max | 20.00 dBm 30 dB | Offset 8.3 | ə dB 👄 RB' | W 100 kHz | Mode Au | to Sweep 1] | | | -3.80 dBm |
| Ref Level Att SGL Count 1 1Pk Max | 20.00 dBm 30 dB | Offset 8.3 | ə dB 👄 RB' | W 100 kHz | Mode Au M1[| to Sweep 1] | | | -3.80 dBm 440010 GHz -45.62 dBm |
| Ref Level Att SGL Count 1 1Pk Max 10 dBm 10 dBm 10 dBm 20 dBm | 20.00 dBm 30 dB 10/10 | Offset 8.34 SWT 265 | ə dB 👄 RB' | W 100 kHz | Mode Au M1[| to Sweep 1] | | | -3.80 dBm 440010 GHz -45.62 dBm |
| Ref Level Att SGL Count 1 1Pk Max 10 dBm 10 dBm 10 dBm 20 dBm | 20.00 dBm 30 dB | Offset 8.34 SWT 265 | ə dB 👄 RB' | W 100 kHz | Mode Au M1[| to Sweep 1] | | | -3.80 dBm 440010 GHz -45.62 dBm |
| Ref Level Att SGL Count 1 1Pk Max 10 dBm 0 dBm 10 dBm 20 dBm | 20.00 dBm 30 dB 10/10 | Offset 8.39 SWT 265 | ə dB 👄 RB' | W 100 kHz | Mode Au M2[| to Sweep 1] 1] | | | -3.80 dBm 440010 GHz -45.62 dBm |
| Ref Level Att SGL Count 1 PIPk Max 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm | 20.00 dBm 30 dB 10/10 | Offset 8.39 SWT 265 | 9 dB • RB 5 ms • VB | W 100 kHz | Mode Au M1[| to Sweep 1] 1] | | | -3.80 dBm 440010 GHz -45.62 dBm |
| Ref Level Att SGL Count 1 SGL Count 1 IPk Max 10 dBm 10 dBm -10 dBm -20 dBm -40 dBm | 20.00 dBm 30 dB 10/10 | Offset 8.39 SWT 265 | 9 dB • RB 5 ms • VB | W 100 kHz | Mode Au M2[| to Sweep 1] 1] | | | -3.80 dBm 440010 GHz -45.62 dBm |
| Ref Level Att SGL Count 1 PIPk Max 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm | 20.00 dBm 30 dB 10/10 | Offset 8.39 SWT 265 | 9 dB • RB 5 ms • VB | W 100 kHz | Mode Au M2[| to Sweep 1] 1] | | | -3.80 dBm 440010 GHz -45.62 dBm |
| Ref Level Att SGL Count 1 IPk Max IO dBm 10 dBm 20 dBm 20 dBm 30 dBm 40 dBm 50 dBm | 20.00 dBm 30 dB 10/10 | Offset 8.39 SWT 265 | 9 dB • RB 5 ms • VB | W 100 kHz | Mode Au M2[| to Sweep 1] 1] | | | -3.80 dBm 440010 GHz -45.62 dBm |
| Ref Level Att SGL Count 1 D IPk Max 10 dBm 10 dBm 10 dBm 20 dBm 20 dBm 40 dBm 50 dBm 50 dBm 50 dBm 70 dBm 70 dBm | 20.00 dBm 30 dB 10/10 01 -24.125 | Offset 8.39 SWT 265 | B dB RB S ms VB | W 100 kHz | Mode Au M2[| to Sweep | | | -3.80 dBm 440010 GHz -45.62 dBm 926117 GHz |
| Ref Level Att SGL Count 1 SGL Count 1 IPk Max ID dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm Start 30.0 N Type Ref M1 | 20.00 dBm 30 dB 10/10 | Offset 8.39 SWT 265 dBm dBm M4 X-value 2.44001 | 9 dB RB RS VB | W 100 kHz W 300 kHz 300 kHz 30001 | Mode Au M1[M2[M2[M2] M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 | to Sweep | | 15. | -3.80 dBm 440010 GHz -45.62 dBm 926117 GHz |
| Ref Level Att SGL Count 1 SGL Count 1 SGL Count 1 ID dBm ID dBm 10 dBm -10 dBm < | 20.00 dBm 30 dB 10/10 01 -24.125 M3 M4Hz MHz Trc 1 1 1 | Offset 8.34 SWT 265 dBm dBm dBm x-value 2.44001 15.926117 5.049594 | B dB RB RS F VB | W 100 kHz W 300 kHz 300 kHz 3000 l | Mode Au M1[M2[| to Sweep | | 15. | -3.80 dBm 440010 GHz -45.62 dBm 926117 GHz |
| Ref Level Att SGL Count 1 IPk Max ID dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -70 dBm Start 30.0 M Iarker Type Ref M1 M2 | 20.00 dBm 30 dB 10/10 | Offset 8.34 SWT 265 dBm dBm M4 X-value 2.44001 15.926117 | B dB RB S ms VB VB M5 M5 GHz GHz GHz GHz GHz | W 100 kHz W 300 kHz 300 kHz 3000 t -3.80 dBm -45.62 dBm | Mode Au M2[| to Sweep | | 15. | -3.80 dBm 440010 GHz -45.62 dBm 926117 GHz |
| Ref Level Att SGL Count 1 SGL Count 1 IPK Max ID dBm ID dBm < | 20.00 dBm 30 dB 10/10 01 -24.125 M3 4/Hz 4/Hz | Offset 8.39 SWT 265 dBm dBm dBm M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 S.049594 7.360425 | B dB RB S ms VB VB M5 M5 GHz GHz GHz GHz GHz | W 100 kHz W 300 kHz | Mode Au M2[| to Sweep | Fun | 15. | -3.80 dBm 440010 GHz -45.62 dBm 926117 GHz |

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| Ref Level Att SGL Count 1 | 30 dB | | | BW 100 kHz BW 300 kHz | Mode Au | ito FFT | | | |
|--|--|----------------------|---|---|--|-----------------|---------|-----------------------|---|
| 1Pk Max | | | | | M1[| 1] | | | -5.93 dBm |
| LO dBm | | | | | | | | 2.4799 | 915500 GHz |
| | | | | | | | | | |
|) dBm | | | | ML | | | | | |
| 10 dBm | | | ~~ | ~ | ~ | \sim | | | |
| 00 d0 | | | | | | | | ~ | |
| 20 dBm | | | | | | | | | |
| 30 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 50 dBm | | | | | | | | | |
| 60 dBm | | | | | | | | | ───┨│ |
| 70 40 | | | | | | | | | |
| 70 dBm | | | | | | | | | |
| CF 2.48 GH | | | | 30001 p | nts | | | Spa | an 1.5 MHz |
| | 2 | | | | | | | | |
| Spectrum Ref Level | | · | | NT BLE 1M | | Poad Ant1 En | nission | | |
| Ref Level Att SGL Count 1 | 20.00 dBm 30 dB | Offset 8.2 | 2 dB 👄 R | |) 2480MHz | | nission | | |
| Ref Level Att | 20.00 dBm 30 dB | Offset 8.2 | 2 dB 👄 R | NT BLE 1M BW 100 kHz |) 2480MHz | ito Sweep | nission | | |
| Ref Level Att SGL Count 1 | 20.00 dBm 30 dB | Offset 8.2 | 2 dB 👄 R | NT BLE 1M BW 100 kHz | 2480MHz Mode Au | ito Sweep | nission | 2.4 | -5.89 dBm 480600 GHz -45.16 dBm |
| Ref Level Att SGL Count 1 1Pk Max | 20.00 dBm 30 dB | Offset 8.2 | 2 dB 👄 R | NT BLE 1M BW 100 kHz | 2480MHz Mode Au | ito Sweep | nission | 2.4 | -5.89 dBm 480600 GHz |
| Ref Level Att SGL Count 1 1Pk Max 10 dBm 10 dBm | 20.00 dBm 30 dB | Offset 8.2 | 2 dB 👄 R | NT BLE 1M BW 100 kHz | 2480MHz Mode Au | ito Sweep | nission | 2.4 | -5.89 dBm 480600 GHz -45.16 dBm |
| Ref Level Att SGL Count 1)1Pk Max 10 dBm 10 dBm 20 dBm | 20.00 dBm 30 dB 10/10 | Offset 8.2 SWT 26 | 2 dB 👄 R | NT BLE 1M BW 100 kHz | 2480MHz Mode Au | ito Sweep | nission | 2.4 | -5.89 dBm 480600 GHz -45.16 dBm |
| Ref Level Att SGL Count 1 PIPk Max 0 dBm 10 dBm 20 dBm 30 dBm | 20.00 dBm 30 dB | Offset 8.2 SWT 26 | 2 dB 👄 R | NT BLE 1M BW 100 kHz | 2480MHz Mode Au | ito Sweep | nission | 2.4 | -5.89 dBm 480600 GHz -45.16 dBm |
| Ref Level Att SGL Count 1 11Pk Max 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm | 20.00 dBm 30 dB 10/10 | Offset 8.2 SWT 26 | 2 dB 👄 R | NT BLE 1M BW 100 kHz | 2480MHz Mode Au | 1] 1] | | 2 | -5.89 dBm 480600 GHz -45.16 dBm 719651 GHz |
| Ref Level Att SGL Count 1 11Pk Max 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm | 20.00 dBm 30 dB 10/10 | Offset 8.2 SWT 26 | 12 dB ● R 5 ms ● V | NT BLE 1M BW 100 kHz | 2480MHz Mode Au | ito Sweep | | 2.4 | -5.89 dBm 480600 GHz -45.16 dBm 719651 GHz |
| Ref Level Att SGL Count 1 PIPk Max 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm | 20.00 dBm 30 dB 10/10 | Offset 8.2 SWT 26 | 12 dB ● R 5 ms ● V | NT BLE 1M BW 100 kHz | 2480MHz Mode Au | Ito Sweep | | 2 15. ⁻ | -5.89 dBm 480600 GHz -45.16 dBm 719651 GHz |
| Ref Level Att SGL Count 1 11Pk Max 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm | 20.00 dBm 30 dB 10/10 | Offset 8.2 SWT 26 | 12 dB ● R 5 ms ● V | NT BLE 1M BW 100 kHz | 2480MHz Mode Au | Ito Sweep | | 2 15. ⁻ | -5.89 dBm 480600 GHz -45.16 dBm 719651 GHz |
| Ref Level Att SGL Count 1 SGL Count 1 IPPK Max ID dBm 0 dBm 10 dBm 20 dBm 20 dBm 40 dBm 50 dBm 70 dBm 70 dBm Start 30.0 M | 20.00 dBm 30 dB 10/10 | Offset 8.2 SWT 26 | 12 dB ● R 5 ms ● V | NT BLE 1M BW 100 kHz | 2480MHz Mode Au | Ito Sweep | | 2 15 | -5.89 dBm 480600 GHz -45.16 dBm 719651 GHz |
| Ref Level Att SGL Count 1 11Pk Max 10 dBm 10 dBm 20 dBm 40 dBm 50 dBm 70 dBm 70 dBm 70 dBm | 20.00 dBm 30 dB 10/10 | Offset 8.2 SWT 26 | 12 dB ● R 5 ms ● V | NT BLE 1M | 2480MHz Mode Au | Ito Sweep | | 2 15 | -5.89 dBm 480600 GHz -45.16 dBm 719651 GHz |
| Ref Level Att SGL Count 1 SGL C | 20.00 dBm 30 dB 10/10 | Offset 8.2 SWT 26 | C dB R S ms V V M5 M5 M5 M5 M5 M5 M5 M5 M5 M5 | NT BLE 1M BW 100 kHz BW 300 kHz | 2480MHz Mode Au M1[M2[| Ito Sweep | | 2 15 | -5.89 dBm 480600 GHz -45.16 dBm 719651 GHz |
| Ref Level Att SGL Count 1 SGL C | 20.00 dBm 30 dB 10/10 01 -25.934 M3 MHz MHz Trc 1 1 1 | Offset 8.2 SWT 26 | 12 dB R R 5 ms V S ms V GHz GHz GHz | NT BLE 1M BW 100 kHz BW 300 kHz | 2480MHz Mode Au M1[M2[| Ito Sweep | | 2 15 | -5.89 dBm 480600 GHz -45.16 dBm 719651 GHz |
| Ref Level Att SGL Count 1 SGL Count 1 IPPK Max ID dBm 0 dBm 20 dBm 20 dBm 40 dBm 50 dBm 70 dBm 70 dBm 8tart 30.0 M Iarker Type M1 | 20.00 dBm 30 dB 10/10 01 -25.934 M3 M3 M4Hz M4Hz | Offset 8.2 SWT 26 | 2 dB R 5 ms V M5 GHz GHz GHz GHz GHz | NT BLE 1M BW 100 kHz BW 300 kHz | 2480MHz Mode Au M1[M2[| Ito Sweep | | 2 15 | -5.89 dBm 480600 GHz -45.16 dBm 719651 GHz |

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8.2 **2M**

8.2.1 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|-----------|--------------------|---------|--------------------------|------------------------|-------------------------|----------------|---------|
| NVNT | BLE 2M | 2402 | Ant1 | -5.57 | 0 | -5.57 | 30 | Pass |
| NVNT | BLE 2M | 2440 | Ant1 | -4.22 | 0 | -4.22 | 30 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | -6.05 | 0 | -6.05 | 30 | Pass |

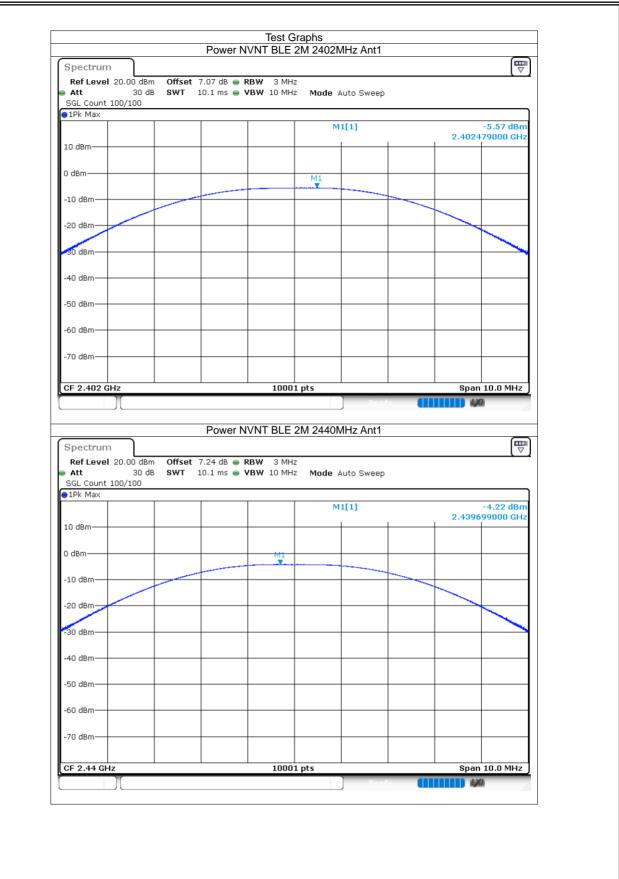


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Report No.: STR230201002002E

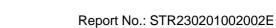




| Spectrum | · | | 2M 2480MHz Ant1 | | Ē |
|------------------|-----------------|---------------|--------------------|-----|--------------------------|
| Ref Level 20.00 | dBm Offset 7.07 | dB 😑 RBW 3 Mi | Hz | | (v |
| | | ms 👄 VBW 10 M | Hz Mode Auto Sweep | 1 | |
| SGL Count 100/10 | 0 | | | | |
| 1Pk Max | | | 1 | | |
| | | | M1[1] | 0.4 | -6.05 dBm 9383100 GHz |
| 10 dBm | | | | 2.4 | 9383100 GH2 |
| | | | | | |
| 0 dBm | | | | | |
| o ubili | | M1 | | | |
| -10 dBm | | | | | |
| 10 dbiii | | | | | |
| -20 d8-1 | | | | | |
| | | | | | |
| -30 dBm | | | | | |
| -30 ubiii | | | | | |
| -40 dBm | | | | | |
| -40 ubin | | | | | |
| -50 dBm | | | | | |
| -50 ubiii | | | | | |
| -60 dBm | | | | | |
| | | | | | |
| -70 dBm | | | | | |
| -/ 0 ubm | | | | | |
| | | | | | |
| CF 2.48 GHz | | 100 | 01 pts | Sp | an 10.0 MHz |

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8.2.2 -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|-----------|--------------------|---------|--------------------------|--------------------------------|---------|
| NVNT | BLE 2M | 2402 | Ant1 | 1.132 | 0.5 | Pass |
| NVNT | BLE 2M | 2440 | Ant1 | 1.051 | 0.5 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | 1.314 | 0.5 | Pass |

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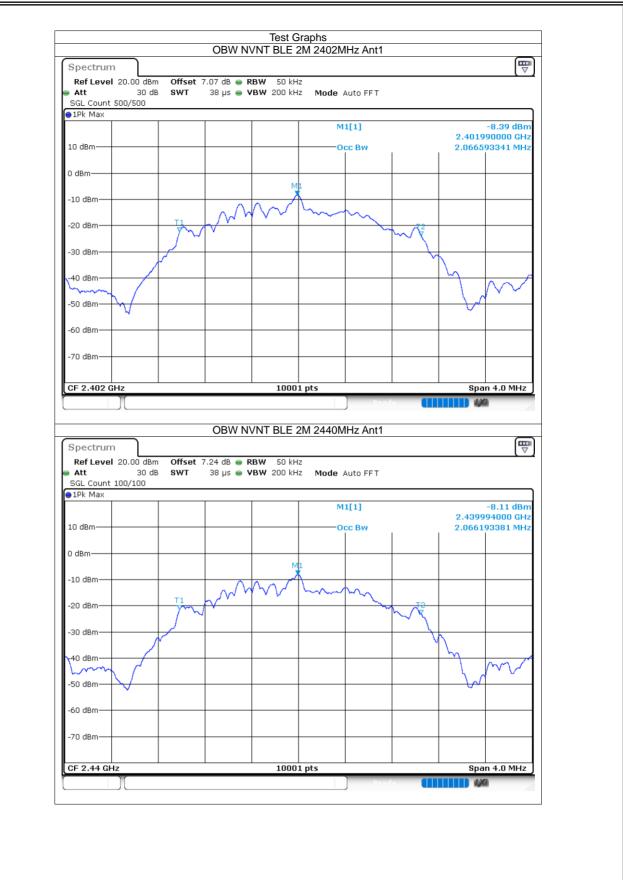




8.2.3 Occupied Channel Bandwidth

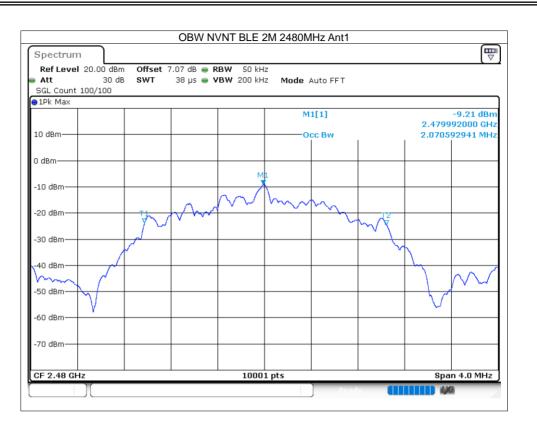
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|--------|-----------------|---------|---------------|
| NVNT | BLE 2M | 2402 | Ant1 | 2.067 |
| NVNT | BLE 2M | 2440 | Ant1 | 2.066 |
| NVNT | BLE 2M | 2480 | Ant1 | 2.071 |





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8.2.4 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|-----------|-----------|--------------------|---------|------------------------|------------------------|-----------------------|----------------|---------|
| NVNT | BLE 2M | 2402 | Ant1 | -23.52 | 0 | -23.52 | 8 | Pass |
| NVNT | BLE 2M | 2440 | Ant1 | -22.09 | 0 | -22.09 | 8 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | -24.04 | 0 | -24.04 | 8 | Pass |

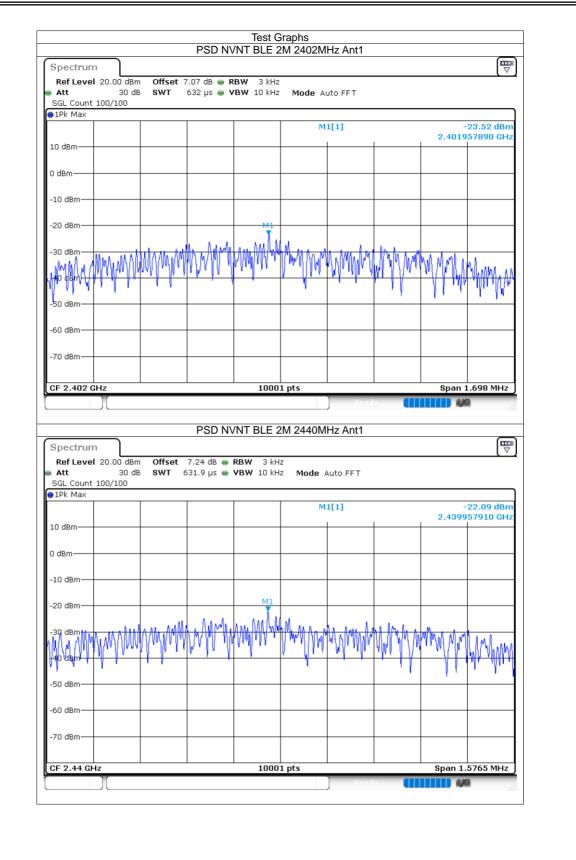


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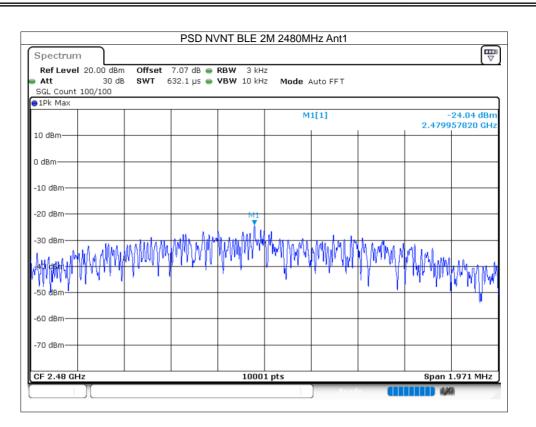
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Report No.: STR230201002002E







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8.2.5 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 2M | 2402 | Ant1 | -45.93 | -20 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | -46.56 | -20 | Pass |

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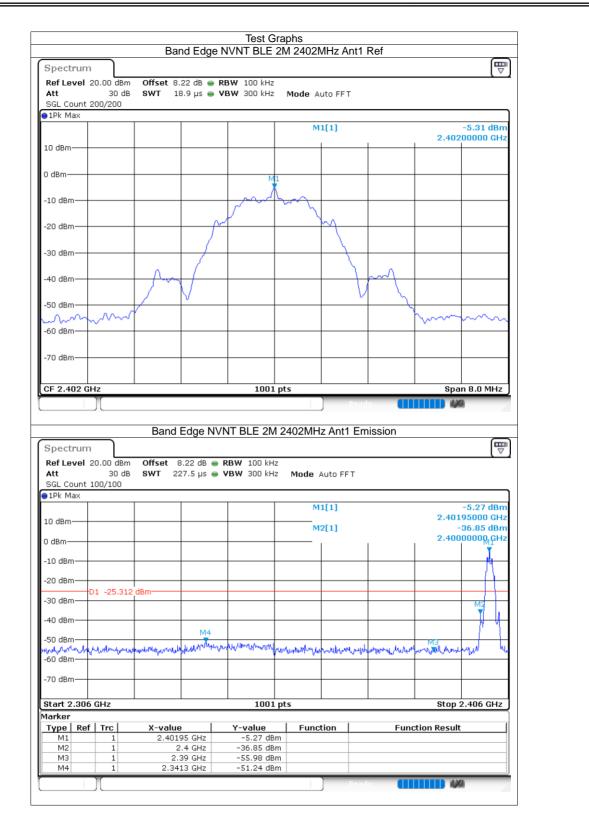


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| Ref Level 20.00 Att 30 SGL Count 200/20 | 0 dB SWT 1 | | | Mode Au | uto FFT | | | |
|---|--|--|---|---|----------------------|----------------|---|--|
| 1Pk Max | | | | | | | | |
| | | | | M | 1[1] | | 2.470 | -5.95 dBm 99200 GHz |
| 10 dBm | | | | | | | | |
| | | | | | | | | |
| D dBm | | | M1 | | | | | |
| -10 dBm | | | + - | 5-06 | | | | |
| | | ~ | | ر س | | | | |
| -20 dBm | | $\vdash \uparrow$ | | | ·~~ | | | |
| -30 dBm | | | | | <u> </u> | | | |
| | | | | | L, | | | |
| -40 dBm | | $\downarrow + -$ | ++ | | - | \mathcal{N} | | ┼───┨│ |
| -50 dBm | 2 | $^{\vee}$ | | | 0 | | | |
| | γ | | | | | ۲ | m | ~~~~ |
| -60 dBm | | | | | | | | |
| -70 dBm | | | | | | | | |
| -70 UBIII | | | | | | | | |
| CF 2.48 GHz | | | 1001 | nts | | | Sna | n 8.0 MHz |
| | | | | | | | | |
| Spectrum | | | NT BLE 2M | |) Post z Ant1 Em | nission | | |
| Spectrum Ref Level 20.00 Att 3 | dBm Offset 3 0 dB SWT 2 | 8.22 dB 👄 | NT BLE 2M | : | | nission | | E Contraction of the second se |
| Spectrum Ref Level 20.00 | dBm Offset 3 0 dB SWT 2 | 8.22 dB 👄 | NT BLE 2M | : Mode 4 | auto FFT | nission | | |
| Spectrum Ref Level 20.00 Att 3 SGL Count 100/10 1Pk Max | dBm Offset 3 0 dB SWT 2 | 8.22 dB 👄 | NT BLE 2M | : Mode 4 | | hission | | -5.90 dBm 95000 GHz |
| Spectrum Ref Level 20.00 Att 3 SGL Count 100/10 1Pk Max 10 dBm | dBm Offset 3 0 dB SWT 2 | 8.22 dB 👄 | NT BLE 2M | : Mode 4 M: | auto FFT | nission | 2.479 | -5.90 dBm 95000 GHz 53.79 dBm |
| Spectrum Ref Level 20.00 Att 3 SGL Count 100/10 1Pk Max | dBm Offset 3 0 dB SWT 2 | 8.22 dB 👄 | NT BLE 2M | : Mode 4 M: | uto FFT | nission | 2.479 | -5.90 dBm 95000 GHz |
| Spectrum Ref Level 20.00 Att 3 SGL Count 100/10 1Pk Max 10 dBm | dBm Offset 3 0 dB SWT 2 | 8.22 dB 👄 | NT BLE 2M | : Mode 4 M: | uto FFT | nission | 2.479 | -5.90 dBm 95000 GHz 53.79 dBm |
| Spectrum Ref Level 20.00 Att 31 SGL Count 100/10 1Pk Max 10 dBm -10 dBm -20 dBm | dBm Offset : 0 dB SWT 2 00 | 8.22 dB 👄 | NT BLE 2M | : Mode 4 M: | uto FFT | nission | 2.479 | -5.90 dBm 95000 GHz 53.79 dBm |
| Spectrum Ref Level 20.00 Att 31 SGL Count 100/10 1Pk Max 10 dBm -10 dBm -20 dBm | dBm Offset 3 0 dB SWT 2 | 8.22 dB 👄 | NT BLE 2M | : Mode 4 M: | uto FFT | nission | 2.479 | -5.90 dBm 95000 GHz 53.79 dBm |
| Spectrum Ref Level 20.00 Att 3 SGL Count 100/10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -10 -25 | dBm Offset : 0 dB SWT 2 00 | 8.22 dB 👄 | NT BLE 2M | : Mode 4 M: | uto FFT | nission | 2.479 | -5.90 dBm 95000 GHz 53.79 dBm |
| Spectrum Ref Level 20.00 Att 33 SGL Count 100/10 1PK Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm | dBm Offset : 0 dB SWT 2 00 | В.22 dB ● 27.5 µs ● | NT BLE 2M | : Mode 4 M: | uto FFT | | 2.479 | -5.90 dBm 95000 GHz 53.79 dBm |
| Spectrum Ref Level 20.00 Att 3 SGL Count 100/10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -20 dBm -20 dBm -20 dBm -20 dBm -20 dBm | dBm Offset 1 0 dB SWT 2 00 5.945 dBm | 8.22 dB 👄 | NT BLE 2M RBW 100 kHz YBW 300 kHz | : Mode 4 M: | uto FFT | | 2.479 | -5.90 dBm 95000 GHz 53.79 dBm |
| Spectrum Ref Level 20.00 Att 33 SGL Count 100/10 1PK Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm | dBm Offset 1 0 dB SWT 2 00 5.945 dBm | 8.22 dB 27.5 μs | NT BLE 2M RBW 100 kHz YBW 300 kHz | Mode 4 | L[1] 2[1] | nission | 2.479 | -5.90 dBm 95000 GHz 53.79 dBm 50000 GHz |
| Spectrum Ref Level 20.00 Att 3 SGL Count 100/10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -20 dBm -20 dBm -20 dBm -20 dBm -20 dBm | dBm Offset 1 0 dB SWT 2 00 5.945 dBm | 8.22 dB 27.5 μs | NT BLE 2M RBW 100 kHz YBW 300 kHz | Mode 4 | L[1] 2[1] | | 2.479 | -5.90 dBm 95000 GHz 53.79 dBm 50000 GHz |
| Spectrum Ref Level 20.00 Att 31 SGL Count 100/10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -10 dBm -20 d | dBm Offset 1 0 dB SWT 2 00 5.945 dBm | 8.22 dB 27.5 μs | NT BLE 2M | | L[1] 2[1] | | 2.479 - 2.483 | -5.90 dBm 95000 GHz 53.79 dBm 50000 GHz |
| Spectrum Ref Level 20.00 Att 3 SGL Count 100/10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -0 dBm -0 dBm -70 dBm -70 dBm -70 dBm -70 dBm | dBm Offset :: 0 dB SWT 2 00 5.945 dBm 5.945 dBm | 8.22 dB ● 27.5 µs ● | NT BLE 2M | Mode A | ۱[1] ۱[1] ۲[1] | and the former | 2.479 2.483 MyNy ^M /NwWy Stop | -5.90 dBm 95000 GHz 53.79 dBm 50000 GHz |
| Spectrum Ref Level 20.00 Att 33 SGL Count 100/IC 1Pk Max 10 dBm -0 dBm -20 dBm -20 dBm -20 dBm -0 | dBm Offset :: 0 dB SWT 2 00 5.945 dBm M4 M3 Muhau mum Ammuk | 8.22 dB ● 27.5 µs ● | NT BLE 2M | Mode A | ۱[1] ۱[1] ۲[1] | and the former | 2.479 - 2.483 | -5.90 dBm 95000 GHz 53.79 dBm 50000 GHz |
| Spectrum Ref Level 20.00 Att 3: SGL Count 100/10 1Pk Max 10 dBm -0 dBm -20 dBm -30 dBm -30 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm | dBm Offset :: 0 dB SWT 2 00 5.945 dBm 5.945 dBm М-4 М-4 М-3 М-1 М-1 М-1 М-1 М-1 М-1 М-1 М-1 М-1 М-1 | B.22 dB 27.5 μs 27.5 | NT BLE 2M RBW 100 kHz VBW 300 kHz | : Mode 4 M: M: M: M: M: M: M: M: M: M: | ۱[1] ۱[1] ۲[1] | and the former | 2.479 2.483 MyNy ^M /NwWy Stop | -5.90 dBm 95000 GHz 53.79 dBm 50000 GHz |
| Spectrum Ref Level 20.00 Att 33 SGL Count 100/10 1Pk Max 10 dBm -0 dBm -20 dBm -20 dBm -30 dBm -0 dBm -0 dBm -0 dBm -0 dBm -0 dBm -0 dBm -20 | dBm Offset :: 0 dB SWT 2 00 5.945 dBm 5.945 dBm N4 113 Autour Autour Aut | B.22 dB 27.5 μs 27.5 | NT BLE 2M | E Mode A | ۱[1] ۱[1] ۲[1] | and the former | 2.479 2.483 MyNy ^M /NwWy Stop | -5.90 dBm 95000 GHz 53.79 dBm 50000 GHz |

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8.2.6 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 2M | 2402 | Ant1 | -37.14 | -20 | Pass |
| NVNT | BLE 2M | 2440 | Ant1 | -35.77 | -20 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | -34.38 | -20 | Pass |



| | | Тх | Spurious | Test Gra NVNT BLE 2 | 2402MH | 7 Ant1 Re | f | | |
|---|---|--|---------------------------|---|---|--------------------|---------------|---------------|--|
| Spectrum | \neg | 17. | | | | | - | | |
| Ref Level 3 | | Offeet | 0 0 d 0 0 | RBW 100 kHz | | | | | [▽] |
| Att | 20.00 UBM 30 dB | | | VBW 300 kHz | Mode Auto | FFT | | | |
| GL Count 3 | | | _ | | | | | | |
| 1Pk Max | | | | | | | | | |
| | | | | | M1[1] | | | | -5.20 dBm |
| 0 dBm | | | | | | | | 2.402 | 00000 GHz |
| | | | | | | | | | |
| dBm | | | | M1 | | | | | |
| | | | | | | | | | |
| LO dBm | | | | | <u> </u> | \frown | | | |
| | | | 1 | | | \sim | \leq . | _ | |
| 20 dBm | - | ~ | | | | | $\neg \gamma$ | | |
| | | | | | | | | | |
| 30 dBm | | | | | | | | | |
| | | | | | | | | | \sim |
| 10 dBm — | | | | + + | | | | | |
| | | | | | | | | | \sim |
| 50 dBm | | | | | | | | | |
| 50 dBm | | | | | | | | | |
| | | | | | | | | | |
| 70 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| F 2.402 GH | lz | | | 1001 p | ts | | | Spar | n 3.0 MHz |
| Spectrum | л | Tx. Sp | urious N' | VNT BLE 2M | 2402MHz A | Peady nt1 Emiss | sion | 1) | (U) |
| Spectrum Ref Level 3 | 20.00 dBm | · | | VNT BLE 2M RBW 100 kHz |) 2402MHz A | Ready nt1 Emiss | sion | | |
| Ref Level 3 Att | 30 dB | Offset 8 | 3.22 dB 👄 | | | | sion |) 196 | |
| Ref Level 3 Att GGL Count 1 | 30 dB | Offset 8 | 3.22 dB 👄 | RBW 100 kHz | | | sion | | |
| Ref Level 3 Att GGL Count 1 | 30 dB | Offset 8 | 3.22 dB 👄 | RBW 100 kHz | Mode Auto | Sweep | sion | | |
| Ref Level 3 Att GGL Count 10 1Pk Max | 30 dB | Offset 8 | 3.22 dB 👄 | RBW 100 kHz | Mode Auto M1[1] | Sweep | sion | | -9.37 dBm .3970 GHz |
| Ref Level 3 Att GGL Count 11 1Pk Max 0 dBm | 30 dB | Offset 8 | 3.22 dB 👄 | RBW 100 kHz | Mode Auto | Sweep | sion | 2 | -9.37 dBm .3970 GHz 42.35 dBm |
| Att GGL Count 10 1Pk Max 0 dBm dBm M1 | 30 dB | Offset 8 | 3.22 dB 👄 | RBW 100 kHz | Mode Auto M1[1] | Sweep | sion | 2 | -9.37 dBm .3970 GHz |
| Att GGL Count 10 1Pk Max 0 dBm dBm M1 | 30 dB | Offset 8 | 3.22 dB 👄 | RBW 100 kHz | Mode Auto M1[1] | Sweep | sion | 2 | -9.37 dBm .3970 GHz 42.35 dBm |
| Ref Level 3 Att SGL Count 11 1Pk Max 0 dBm dBm M1 L0 dBm | 30 dB | Offset 8 | 3.22 dB 👄 | RBW 100 kHz | Mode Auto M1[1] | Sweep | sion | 2 | -9.37 dBm .3970 GHz 42.35 dBm |
| Ref Level 3 Att SGL Count 11 1Pk Max 0 dBm dBm L0 dBm 20 dBm D | 30 dB | Offset 8 SWT | 3.22 dB 👄 | RBW 100 kHz | Mode Auto M1[1] | Sweep | sion | 2 | -9.37 dBm .3970 GHz 42.35 dBm |
| Ref Level 3 Att SGL Count 11 IPk Max 0 dBm dBm dBm 20 dBm 20 dBm 30 dBm | 30 dB 0/10 | Offset 8 SWT | 3.22 dB 👄 | RBW 100 kHz | Mode Auto M1[1] | Sweep | | 2 | -9.37 dBm .3970 GHz 42.35 dBm |
| Ref Level 3 Att GGL Count 11 1Pk Max 0 dBm dBm dBm 20 dBm 20 dBm 30 dBm | 30 dB 0/10 | Offset 8 SWT | 3.22 dB • 265 ms • | RBW 100 kHz | Mode Auto M1[1] M2[1] | Sweep | | 2 | -9.37 dBm .3970 GHz 42.35 dBm |
| Ref Level 3 Att GGL Count 11 1Pk Max 0 dBm dBm 10 dBm 20 dBm 30 dBm D 30 dBm | 30 dB 0/10 1 -25.202 M3 | Offset 8 SWT | 3.22 dB 👄 | RBW 100 kHz VBW 300 kHz | Mode Auto M1[1] | Sweep | | 2 | -9.37 dBm .3970 GHz 42.35 dBm |
| Ref Level : Att GGL Count 1: 1Pk Max 0 dBm dBm dBm 20 dBm 20 dBm 20 dBm 40 dBm 50 dBm | 30 dB 0/10 1 -25.202 M3 | Offset 8 SWT | 3.22 dB 265 ms | RBW 100 kHz VBW 300 kHz | Mode Auto M1[1] M2[1] | Sweep | | 2 | -9.37 dBm .3970 GHz 42.35 dBm 877.0 MHz |
| Ref Level : Att GGL Count 1: 1Pk Max 0 dBm dBm dBm 20 dBm 20 dBm 20 dBm 40 dBm 50 dBm | 30 dB 0/10 1 -25.202 M3 | Offset 8 SWT | 3.22 dB 265 ms | RBW 100 kHz VBW 300 kHz | Mode Auto M1[1] M2[1] | Sweep | | 2 | -9.37 dBm .3970 GHz 42.35 dBm 877.0 MHz |
| Ref Level : Att SGL Count 11 IPK Max 0 dBm dBm dBm 10 dBm 20 dBm 10 dBm 10 dBm 50 dBm 50 dBm | 30 dB 0/10 1 -25.202 M3 | Offset 8 SWT | 3.22 dB 265 ms | RBW 100 kHz VBW 300 kHz | Mode Auto M1[1] M2[1] | Sweep | | 2 | -9.37 dBm .3970 GHz 42.35 dBm 877.0 MHz |
| Ref Level : Att GGL Count 1: 1Pk Max 0 dBm dBm dBm 20 dBm 20 dBm 20 dBm 50 dBm 50 dBm 70 dBm | 30 dB 0/10 1 -25.202 سرین | Offset 8 SWT | 3.22 dB 265 ms | RBW 100 kHz VBW 300 kHz | Mode Auto | Sweep | | 2 | -9.37 dBm .3970 GHz 42.35 dBm 877.0 MHz |
| Ref Level : Att GGL Count 1: 1Pk Max 0 dBm dBm M1 L0 dBm 20 dBm 30 dBm 30 dBm 50 dBm 50 dBm 70 dBm | 30 dB 0/10 1 -25.202 سرین | Offset 8 SWT | 3.22 dB 265 ms | RBW 100 kHz VBW 300 kHz | Mode Auto | Sweep | | 2 | -9.37 dBm .3970 GHz 42.35 dBm 877.0 MHz |
| Ref Level : Att GGL Count 11 1Pk Max 0 dBm dBm 10 dBm 20 dBm 30 dBm 50 dBm 50 dBm 70 dBm 70 dBm | 30 dB 0/10 1 -25.202 | dBm | 3.22 dB ● 265 ms ● | RBW 100 kHz VBW 300 kHz | Mode Auto M2[1] M2[1] _ | Sweep | | 2 | -9.37 dBm .3970 GHz 42.35 dBm 877.0 MHz |
| Att <u>SGL Count 11</u> <u>IPK Max</u> 0 dBm dBm 10 dBm 20 dBm 20 dBm 50 dBm 50 dBm 50 dBm 70 dBm tart 30.0 M arker Fype Ref M1 | 30 dB 0/10 1 -25.202 30 10 -25.202 10 -25.20 | dBm x-value 2.3 | 3.22 dB 265 ms | RBW 100 kHz VBW 300 kHz | Mode Auto M1[1] M2 | Sweep | | 2 | -9.37 dBm .3970 GHz 42.35 dBm 877.0 MHz |
| Ref Level : Att GGL Count 1: 1Pk Max 0 dBm dBm M1 10 dBm 20 dBm 20 dBm 30 dBm 50 dBm 50 dBm 50 dBm 70 dBm | 30 dB 0/10 1 -25.202 1 -25 | dBm dBm viewell 4 2.3 877 | 8.22 dB 265 ms 265 ms | RBW 100 kHz VBW 300 kHz | Mode Auto M1[1] M2[1] | Sweep | | 2 | -9.37 dBm .3970 GHz 42.35 dBm 877.0 MHz |
| Ref Level : Att SGL Count 11 IPK Max 0 dBm dBm 10 dBm 20 dBm 20 dBm 30 dBm 50 dBm 50 dBm 70 dBm tart 30.0 M arker Fype Ref M1 | 30 dB 0/10 1 -25.202 30 10 -25.202 10 -25.20 | Offset 8 SWT dBm- | 3.22 dB 265 ms | RBW 100 kHz VBW 300 kHz | Mode Auto M1[1] M2 | Sweep | | 2 | -9.37 dBm .3970 GHz 42.35 dBm 877.0 MHz |
| Ref Level : Att GGL Count 11 IPk Max 0 dBm dBm dBm 0 dBm 30 dBm 30 dBm 40 dBm 40 dBm 40 dBm 40 dBm 50 dBm 50 dBm 70 dBm 70 dBm tart 30.0 M arker Fype M1 M2 M3 | 30 dB 0/10 1 -25.202 M3 JuJ ²⁰⁰ may 90 IHz IHz 1 1 1 | Offset 8 SWT dBm dBm <u>M4</u> <u>www.www</u> 2.3 877 4.97 7.04 | 3.22 dB 265 ms 265 ms | RBW 100 kHz VBW 300 kHz | Mode Auto M1[1] M2 | Sweep | | 2 | -9.37 dBm .3970 GHz 42.35 dBm 877.0 MHz |
| Ref Level : Att GL Count 1: IPk Max 0 dBm | 30 dB 0/10 1 -25.202 3 3 3 4 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | Offset 8 SWT dBm | 3.22 dB ● 265 ms ● | RBW 100 kHz VBW 300 kHz Image: State St | Mode Auto M1[1] M2 | Sweep | | 2 | -9.37 dBm .3970 GHz 42.35 dBm 877.0 MHz |

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| Ref Level Att SGL Count | 30 dB | Offset 8.39 SWT 18.9 | | BW 100 kHz BW 300 kHz | Mode A | uto FFT | | | |
|---|---|-------------------------|---|---|--|---|--------------------|------------------------|---|
| 1Pk Max | | | | | | | | | |
| | | | | | M1 | [1] | | 2.440 | -3.92 dBm)00000 GHz |
| 10 dBm | | | | | | | | | |
| | | | | | | | | | |
|) dBm | | | | A CONTRACTOR | | | | | |
| -10 dBm | | | $\sim\sim$ | | <u>~_</u> + | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | |
| | \sim | | | | | | ~~ | | |
| -20 dBm | | | | | | | | \sim | |
| 20 40 - | | | | | | | | | |
| -30 dBm | | | | | | | | | |
| -40 dBm | | | | | | | | | $ \rightarrow $ |
| | | | | | | | | | Ч |
| -50 dBm | | | | | | | | | |
| -60 dBm | | | | | | | | | |
| | | | | | | | | | |
| -70 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | 0 | |
| CF 2.44 GH | Iz | | | 1001 p | ts | | | spa | in 3.0 MHz |
| CF 2.44 GH | | | | NT BLE 2M | | Read z Ant1 Er | nission | | (|
| Spectrum Ref Level Att | 20.00 dBm 30 dB | Offset 8.39 | 9 dB 👄 R | |] 2440MH: | | | | |
| Spectrum Ref Level Att SGL Count | 20.00 dBm 30 dB | Offset 8.39 | 9 dB 👄 R | NT BLE 2M BW 100 kHz | 2440MH; Mode A | uto Sweep | | | |
| Spectrum Ref Level Att SGL Count 1Pk Max | 20.00 dBm 30 dB | Offset 8.39 | 9 dB 👄 R | NT BLE 2M BW 100 kHz |] 2440MH: | uto Sweep | | | |
| Spectrum Ref Level Att SGL Count 1Pk Max | 20.00 dBm 30 dB | Offset 8.39 | 9 dB 👄 R | NT BLE 2M BW 100 kHz | 2440MH; Mode A | uto Sweep [1] | | | -6.82 dBm 2.4500 GHz 39.69 dBm |
| Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm | 20.00 dBm 30 dB | Offset 8.39 | 9 dB 👄 R | NT BLE 2M BW 100 kHz | 2440MH: Mode Ar | uto Sweep [1] | | | -6.82 dBm 2.4500 GHz |
| Spectrum Ref Level Att SGL Count PIPk Max 10 dBm M1 0 dBm M1 -10 dBm | 20.00 dBm 30 dB | Offset 8.39 | 9 dB 👄 R | NT BLE 2M BW 100 kHz | 2440MH: Mode Ar | uto Sweep [1] | | | -6.82 dBm 2.4500 GHz 39.69 dBm |
| Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 10 dBm 10 dBm 20 dBm | 20.00 dBm 30 dB 10/10 | Offset 8.39 SWT 265 | 9 dB 👄 R | NT BLE 2M BW 100 kHz | 2440MH: Mode Ar | uto Sweep [1] | | | -6.82 dBm 2.4500 GHz 39.69 dBm |
| Spectrum Ref Level Att SGL Count ID dBm 10 dBm 10 dBm 20 dBm 30 dBm | 20.00 dBm 30 dB | Offset 8.39 SWT 265 | 9 dB 👄 R | NT BLE 2M BW 100 kHz | 2440MH: Mode Ar | uto Sweep [1] | | | -6.82 dBm 2.4500 GHz 39.69 dBm |
| Spectrum Ref Level Att SGL Count ID dBm 10 dBm 10 dBm 20 dBm 30 dBm M2 | 20.00 dBm 30 dB 10/10 | Offset 8.39 SWT 265 | 9 dB 🖷 R 5 ms 🖶 V | NT BLE 2M BW 100 kHz | 2440MH: Mode Ar | uto Sweep [1] | | | -6.82 dBm 2.4500 GHz 39.69 dBm |
| Spectrum Ref Level Att SGL Count 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm | 20.00 dBm 30 dB 10/10 D1 -23.916 | Offset 8.39 SWT 265 | 9 dB 👄 R | NT BLE 2M BW 100 kHz BW 300 kHz | 2440MH: Mode Ai M1 | uto Sweep [1] [1] | | | -6.82 dBm 2.4500 GHz 39.69 dBm |
| Spectrum Ref Level Att SGL Count 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm 50 dBm | 20.00 dBm 30 dB 10/10 D1 -23.916 | Offset 8.39 SWT 265 | 9 dB 🖷 R 5 ms 🖶 V | NT BLE 2M BW 100 kHz BW 300 kHz | 2440MH: Mode Ai M1 | uto Sweep [1] [1] | | | -6.82 dBm 2.4500 GHz 39.69 dBm |
| Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 10 dBm 10 dBm 20 dBm 20 dBm 40 dBm 50 dBm 60 dBm 40 dBm 40 dBm 50 dBm 40 dBm 50 dBm 40 dBm 50 dBm | 20.00 dBm 30 dB 10/10 D1 -23.916 | Offset 8.39 SWT 265 | 9 dB 🖷 R 5 ms 🖶 V | NT BLE 2M BW 100 kHz BW 300 kHz | 2440MH: Mode Ai M1 | uto Sweep [1] [1] | | | -6.82 dBm 2.4500 GHz 39.69 dBm |
| Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 40 dBm 50 dBm 40 dBm 50 dBm 40 dBm | 20.00 dBm 30 dB 10/10 D1 -23.916 | Offset 8.39 SWT 265 | 9 dB 🖷 R 5 ms 🖶 V | NT BLE 2M BW 100 kHz BW 300 kHz | 2440MH: Mode Ai M1 | uto Sweep [1] [1] | | | -6.82 dBm 2.4500 GHz 39.69 dBm |
| Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 10 dBm 20 dBm 30 dBm 30 dBm 40 dBm 50 dBm 50 dBm 50 dBm 70 dBm | 20.00 dBm 30 dB 10/10 | Offset 8.39 SWT 265 | 9 dB 🖷 R 5 ms 🖶 V | NT BLE 2M BW 100 kHz BW 300 kHz | 2440MH: Mode Ai M1 M2 M2 M2 M2 | uto Sweep [1] [1] | | | -6.82 dBm 2.4500 GHz 39.69 dBm |
| Spectrum Ref Level Att SGL Count 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm 70 dBm 70 dBm 50 dBm 60 dBm 70 dBm | 20.00 dBm 30 dB 10/10 D1 -23.916 | Offset 8.39 SWT 265 | 9 dB 🖷 R 5 ms 🖶 V | NT BLE 2M | 2440MH: Mode An M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 | (1) [1] | rija-pakinteratura | Anorth America Stop | -6.82 dBm 2.4500 GHz 39.69 dBm 877.0 MHz |
| Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -60 dBm -70 dBm | 20.00 dBm 30 dB 10/10 D1 -23.916 M3 | Offset 8.39 SWT 265 | 9 dB R S ms V | NT BLE 2M BW 100 kHz BW 300 kHz | 2440MH: Mode Ai M1 M2 M2 M2 M2 | (1) [1] | rija-pakinteratura | | -6.82 dBm 2.4500 GHz 39.69 dBm 877.0 MHz |
| Spectrum Ref Level Att SGL Count PK Max 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm 40 dBm 50 dBm 70 dBm 7 | 20.00 dBm 30 dB 10/10 D1 -23.916 MHz MHz I Trc 1 1 | Offset 8.39 SWT 265 | 9 dB Reference | NT BLE 2M | 2440MH: Mode Ar M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M2 M1 M2 M1 M2 M2 M1 M2 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 | (1) [1] | rija-pakinteratura | Anorth America Stop | -6.82 dBm 2.4500 GHz 39.69 dBm 877.0 MHz |
| Spectrum Ref Level Att SGL Count IPk Max IO dBm 10 dBm 20 dBm 20 dBm 30 dBm 40 dBm 50 dBm 70 dBm 70 dBm 70 dBm 70 dBm 70 dBm 70 dBm 8 dBm 70 dBm 70 dBm 8 dBm 70 dBm 70 dBm 8 dBm 70 dBm 8 dBm 70 dBm 8 dBm 70 dBm 8 dBm 7 dBm | 20.00 dBm 30 dB 10/10 D1 -23.916 MHz MHz I Trc I 1 1 1 | Offset 8.39 SWT 265 | 9 dB R S ms V | NT BLE 2M BW 100 kHz BW 300 kHz | 2440MH: Mode An M1 M2 M2 M1 M2 M1 M2 M2 M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 | (1) [1] | rija-pakinteratura | Anorth America Stop | -6.82 dBm 2.4500 GHz 39.69 dBm 877.0 MHz |
| Spectrum Att SGL Count 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm Start 30.0 f Type Ref M1 M2 M3 | 20.00 dBm 30 dB 10/10 D1 -23.916 MHz MHz I Trc 1 1 | Offset 8.39 SWT 265 | 9 dB P R 5 ms V 5 ms V 4 5 ms GHz GHz GHz GHz GHz | NT BLE 2M BW 100 kHz BW 300 kHz | 2440MH: Mode Ai M1 M2 M2 M1 M2 M2 M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 | (1) [1] | rija-pakinteratura | Anorth America Stop | -6.82 dBm 2.4500 GHz 39.69 dBm 877.0 MHz |

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| |) dB SWT 18) | | BW 100 kHz BW 300 kHz | Mode Auto FF | FΤ | | |
|--|---|---|--|---|------|-------|---|
|)1Pk Max | | | | M1[1] | | | -5.75 dBm |
| 10 dBm | | | | | | 2.479 | 99700 GHz |
|) dBm | | | M1 | | | | |
| -10 dBm | | | | | _ | | |
| | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | |
| -20 dBm | | | | | | | |
| -30 dBm | | | | | | | |
| -40 dBm | | | | | | | $\overline{}$ |
| -50 dBm | _ | | | | | | |
| -60 dBm | | | | | | | |
| | | | | | | | |
| -70 dBm | | | | | | | |
| | | | | | | | |
| Spectrum Ref Level 20.00 (Att 30 SGL Count 10/10 | dBm Offset 8.2 | 22 dB 👄 R | BW 100 kHz | s 2480MHz Ant Mode Auto St | | Spa | n 3.0 MHz |
| | dBm Offset 8.2 | 22 dB 👄 R | NT BLE 2M 2 BW 100 kHz | 2480MHz Ant | | | |
| Spectrum Ref Level 20.00 (Att 30 SGL Count 10/10 | dBm Offset 8.2 | 22 dB 👄 R | NT BLE 2M 2 BW 100 kHz | 2480MHz Ant Mode Auto St | | | 10.79 dBm 2.4760 GHz 40.14 dBm |
| Spectrum Ref Level 20.00 (Att 30 SGL Count 10/10 1Pk Max 10 dBm M3 | dBm Offset 8.2 | 22 dB 👄 R | NT BLE 2M 2 BW 100 kHz | 2480MHz Ant Mode Auto St M1[1] | | | |
| Spectrum Ref Level 20.00 (Att 30 SGL Count 10/10 p1Pk Max 10 dBm -10 dBm | dBm Offset 8.2 | 22 dB 👄 R | NT BLE 2M 2 BW 100 kHz | 2480MHz Ant Mode Auto St M1[1] | | | 10.79 dBm 2.4760 GHz 40.14 dBm |
| Spectrum Ref Level 20.00 (Att 30 SGL Count 10/10 1Pk Max 10 dBm M3 | dBm Offset 8.3 o dB SWT 26 | 22 dB 👄 R | NT BLE 2M 2 BW 100 kHz | 2480MHz Ant Mode Auto St M1[1] | | | 10.79 dBm 2.4760 GHz 40.14 dBm |
| Spectrum Ref Level 20.00 (Att 30 SGL Count 10/10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -20 dBm -20 dBm -20 dBm -30 dBm | dBm Offset 8.3 0 dB SWT 26 | 22 dB • R 55 ms • V | NT BLE 2M 2 BW 100 kHz BW 300 kHz | 2480MHz Ant Mode Auto St M1[1] | weep | | 10.79 dBm 2.4760 GHz 40.14 dBm 877.0 MHz |
| Spectrum Ref Level 20.00 (Att 30 SGL Count 10/10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -20 dBm -20 dBm -20 dBm -30 dBm | dBm Offset 8.3 o dB SWT 26 | 22 dB 👄 R | NT BLE 2M 2 BW 100 kHz BW 300 kHz | 2480MHz Ant Mode Auto St M1[1] | | | 10.79 dBm 2.4760 GHz 40.14 dBm 877.0 MHz |
| Spectrum Ref Level 20.00 (Att 30 SGL Count 10/10) 1Pk Max 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 40 dBm 50 dBm 50 dBm 50 dBm 50 dBm 50 dBm | dBm Offset 8.3 0 dB SWT 26 | 22 dB • R 55 ms • V | NT BLE 2M 2 BW 100 kHz BW 300 kHz | 2480MHz Ant Mode Auto St M1[1] | weep | | 10.79 dBm 2.4760 GHz 40.14 dBm 877.0 MHz |
| Spectrum Ref Level 20.00 (Att 30 SGL Count 10/10 1Pk Max 10 dBm 10 dBm 20 dBm 10 dBm 10 dBm 20 dBm 40 dBm 50 dBm 50 dBm 70 dBm 70 dBm | dBm Offset 8.3 0 dB SWT 26 | 22 dB • R 55 ms • V | NT BLE 2M 2 BW 100 kHz BW 300 kHz | 2480MHz Ant Mode Auto St M1[1] | weep | | 10.79 dBm 2.4760 GHz 40.14 dBm 877.0 MHz |
| Spectrum Ref Level 20.00 (Att 30 SGL Count 10/10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -20 dBm -10 dBm -20 dBm -20 dBm -20 dBm -20 dBm -20 dBm -20 dBm -30 | ABm Offset 8.3 0 dB SWT 26 747 dBm M3 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 | 22 dB • R 55 ms • V | NT BLE 2M 2 BW 100 kHz BW 300 kHz | 2480MHz Ant Mode Auto St M1[1] M2[1] | weep | , | 10.79 dBm 2.4760 GHz 40.14 dBm 877.0 MHz |
| Spectrum Ref Level 20.00 (Att SGL Count 10/0 1Pk Max 10 dBm 10 10 dBm 10 20 dBm D1 -20 dBm D1 -30 dBm | dBm Offset 8.2 0 dB SWT 26 747 dBm M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 | 22 dB R | NT BLE 2M 2 BW 100 kHz BW 300 kHz | 2480MHz Ant Mode Auto St M1[1] | weep | | 10.79 dBm 2.4760 GHz 40.14 dBm 877.0 MHz |
| Spectrum Ref Level 20.00 (Att 30 SGL Count 10/10 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -20 dBm -30 dBm -30 dBm -20 dBm -30 dBm </td <td>dBm Offset 8.3 0 dB SWT 26 747 dBm M3 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4</td> <td>22 dB R R 55 ms V</td> <td>NT BLE 2M 2 BW 100 kHz BW 300 kHz W 300 kHz U U U U U U U U U U U U U U U U U U</td> <td>2480MHz Ant Mode Auto St M1[1] M2[1] </td> <td>weep</td> <td>,</td> <td>10.79 dBm 2.4760 GHz 40.14 dBm 877.0 MHz</td> | dBm Offset 8.3 0 dB SWT 26 747 dBm M3 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 | 22 dB R R 55 ms V | NT BLE 2M 2 BW 100 kHz BW 300 kHz W 300 kHz U U U U U U U U U U U U U U U U U U | 2480MHz Ant Mode Auto St M1[1] M2[1] | weep | , | 10.79 dBm 2.4760 GHz 40.14 dBm 877.0 MHz |
| Spectrum Ref Level 20.00 (Att 30 SGL Count 10/10 31Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -20 dBm -20 dBm -30 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -10 dBm -50 dBm -50 dBm -70 dBm <td>dBm Offset 8.7 0 dB SWT 26 747 dBm M3 market M4 M3 market M4 M4 market M4 M4 market M4 M3 market M4 M4 market M4 M4 market M4 M3 market M4 M3 market M4 M4 market M4 M3 market M4 M3 market M4 M4 market M4 M3 market M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M</td> <td>22 dB R 55 ms V 10 ms V 5 GHz 2 GHz 2 GHz</td> <td>NT BLE 2M 2 BW 100 kHz BW 300 kHz W 300 kHz W 40 kHz BW 300 kHz BW 300 kHz BW 300 kHz BW 300 kHz BW 300</td> <td>2480MHz Ant Mode Auto St M1[1] M2[1] </td> <td>weep</td> <td>,</td> <td>10.79 dBm 2.4760 GHz 40.14 dBm 877.0 MHz </td> | dBm Offset 8.7 0 dB SWT 26 747 dBm M3 market M4 M3 market M4 M4 market M4 M4 market M4 M3 market M4 M4 market M4 M4 market M4 M3 market M4 M3 market M4 M4 market M4 M3 market M4 M3 market M4 M4 market M4 M3 market M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M | 22 dB R 55 ms V 10 ms V 5 GHz 2 GHz 2 GHz | NT BLE 2M 2 BW 100 kHz BW 300 kHz W 300 kHz W 40 kHz BW 300 kHz BW 300 kHz BW 300 kHz BW 300 kHz BW 300 | 2480MHz Ant Mode Auto St M1[1] M2[1] | weep | , | 10.79 dBm 2.4760 GHz 40.14 dBm 877.0 MHz |

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