

TEST REPORT

| Report No.: | BCTC2303832373-2E | | | | | | |
|--------------------------|--|--|--|--|--|--|--|
| Applicant: | SHENZHEN NST INDUSTRY AND TRADE CO., LTD | | | | | | |
| Product Name: | 15.6 Digital photo Frame | | | | | | |
| Model/Type reference: | F015 | | | | | | |
| Tested Date: | 2023-03-20 to 2023-04-04 | | | | | | |
| Issued Date: | 2023-04-04 | | | | | | |
| | | | | | | | |
| She | enzhen BCTC Testing Co., Ltd. | | | | | | |
| | | | | | | | |
| No.: BCTC/RF-EMC-005 | Page: 1 of 83 Edition: A.5 | | | | | | |



FCC ID: 2AAMS-F015

| Product Name: | 15.6 Digital photo Frame |
|-----------------------|---|
| Trademark: | SGIN |
| Model/Type reference: | F015 D156CA |
| Prepared For: | SHENZHEN NST INDUSTRY AND TRADE CO., LTD |
| Address: | 3-4/F, Bldg 1, Hongbang Intelligent Technology Park, No.30 Cuibao Road, Baolong Street, Longgang District, Shenzhen, China |
| Manufacturer: | SHENZHEN NST INDUSTRY AND TRADE CO., LTD |
| Address: | 3-4/F, Bldg 1, Hongbang Intelligent Technology Park, No.30 Cuibao Road, Baolong Street, Longgang District, Shenzhen, China |
| Prepared By: | Shenzhen BCTC Testing Co., Ltd. |
| Address: | 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China |
| Sample Received Date: | 2023-03-20 |
| Sample tested Date: | 2023-03-20 to 2023-04-04 |
| Issue Date: | 2023-04-04 |
| Report No.: | BCTC2303832373-2E |
| Test Standards: | FCC Part15.247 ANSI C63.10-2013 |
| Test Results: | PASS |
| Remark: | This is WIFI-2.4GHz band radio test report. |

Tested by:

Brave Lew

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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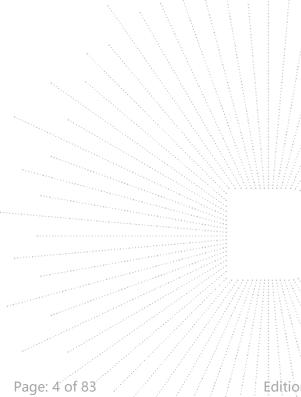
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(Note: N/A Means Not Applicable)

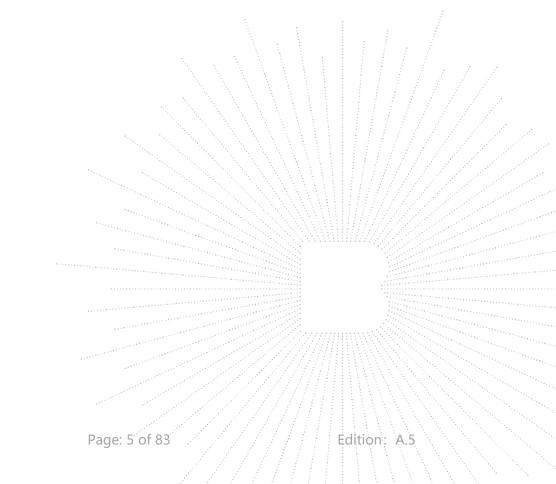


No.: BCTC/RF-EMC-005



1. Version

| Report No. | Issue Date | Description | Approved | |
|-------------------|------------|-------------|----------|--|
| BCTC2303832373-2E | 2023-04-04 | Original | Valid | |
| | | | | |



No.: BCTC/RF-EMC-005





2. Test Summary

The Product has been tested according to the following specifications:

| No. | Test Parameter | Clause No. | Results |
|-----|-----------------------------------|---------------|---------|
| 1 | Conducted Emission | 15.207 | PASS |
| 2 | 6dB Bandwidth | 15.247 (a)(2) | PASS |
| 3 | Peak Output Power | 15.247 (b) | PASS |
| 4 | Radiated Spurious Emission | 15.247 (d) | PASS |
| 5 | Power Spectral Density | 15.247 (e) | PASS |
| 6 | Restricted Band of Operation | 15.205 | PASS |
| 7 | Band Edge (Out of Band Emissions) | 15.247 (d) | PASS |
| 8 | Antenna Requirement | 15.203 | PASS |

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3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| No. | Item | Uncertainty |
|-----|--|-------------|
| 1 | 3m chamber Radiated spurious emission(30MHz-1GHz) | U=4.3dB |
| 2 | 3m chamber Radiated spurious emission(9KHz-30MHz) | U=3.7dB |
| 3 | 3m chamber Radiated spurious emission(1GHz-18GHz) | U=4.5dB |
| 4 | 3m chamber Radiated spurious emission(18GHz-40GHz) | U=3.34dB |
| 5 | Conducted Emission (150kHz-30MHz) | U=3.20dB |
| 6 | Conducted Adjacent channel power | U=1.38dB |
| 7 | Conducted output power uncertainty Above 1G | U=1.576dB |
| 8 | Conducted output power uncertainty below 1G | U=1.28dB |
| 9 | humidity uncertainty | U=5.3% |
| 10 | Temperature uncertainty | U=0.59°C |



4. Product Information And Test Setup

4.1 Product Information

| F015 D156CA |
|---|
| All the model are the same circuit and RF module, except model names. |
| N/A |
| N/A |
| 802.11b/g/n20MHz:2412~2462 MHz 802.11n40MHz:2422~2452 MHz 802.11b:11/5.5/2/1 Mbps |
| 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n Up to 150Mbps WIFI: OFDM/DSSS |
| |
| 802.11b/g/n20MHz:11 CH 802.11n40MHz: 7 CH |
| Internal antenna |
| 2.31 dBi |
| DC 5V from adapter |
| MODEL: J012-0502500UX INPUT: 100-240V~50/60Hz 0.6A OUTPUT: DC 5V 2.5A 12.5W |
| MODEL: JZB024-050300UX INPUT: 100-240V~50/60Hz 0.7A OUTPUT: DC 5V 3A |
| |

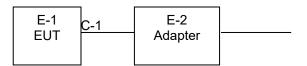
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4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

| No. | Device Type | Brand | Model | Series No. | Note |
|-----|-----------------------------|-------|-----------------|---|-----------|
| E-1 | 15.6 Digital photo Frame | SGIN | F015 | D156CA | EUT |
| E-2 | ADAPTER | N/A | J012-0502500UX | N/A | Auxiliary |
| E-3 | ADAPTER | N/A | JZB024-050300UX | N/A | Auxiliary |
| E-4 | earphone | N/A | N/A | N/A | Auxiliary |
| | | | | $\sim \sim $ | |

| ltem | Shielded Type | Ferrite Core | Length | | | Note | | | |
|------|---------------|--------------|--------|--|----|------------|--------|------|--|
| C-1 | N/A | N/A | 0.3M | | DC | cable unsh | ieldec | ۱/ , | |

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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4.4 Channel List

| Channel List for 802.11b/g/n(20) | | | | | | | | |
|----------------------------------|--------------------|---------|--------------------|---------|--------------------|--|--|--|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | | | |
| 01 | 2412 | 02 | 2417 | 03 | 2422 | | | |
| 04 | 2427 | 05 | 2432 | 06 | 2437 | | | |
| 07 | 2442 | 08 | 2447 | 09 | 2452 | | | |
| 10 | 2457 | 11 | 2462 | | | | | |

| Channel List for 802.11n(40) | | | | | | | |
|------------------------------|--------------------|---------|--------------------|---------|--------------------|--|--|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | | |
| 03 | 2422 | 04 | 2427 | 05 | 2432 | | |
| 06 | 2437 | 07 | 2442 | 08 | 2447 | | |
| 09 | 2452 | | | | | | |

4.5 Test Mode

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.

| For All Mode | Description | Modulation Type |
|--------------|---------------------------|--|
| Mode 1 | CH 01 | |
| Mode 2 | CH 06 | 802.11b |
| Mode 3 | CH 11 | |
| Mode 4 | CH 01 | |
| Mode 5 | CH 06 | 802.11g |
| Mode 6 | CH 11 | |
| Mode 7 | CH 01 | $\wedge \wedge \wedge \wedge \wedge = = = = = = = = = = = = = = =$ |
| Mode 8 | CH 06 | 802.11n20 |
| Mode 9 | CH 11 | N N N N N N N N N N |
| Mode 10 | CH 03 | \mathbb{E} N N N N N H H H H / / / / / |
| Mode 11 | CH 06 | 802.11n40 |
| Mode 12 | CH 09 | NNNNN H <i>H (7777</i> 77 |
| Mode 13 | Link mode (Conducted emis | sion and Radiated emission) |

Notes:

1. The measurements are performed at the highest, middle, lowest available channels.

2. The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

3. According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 11Mbps for 802.11b,6Mbps for 802.11g,13Mbps for 802.11n(H20), 54Mbps for 802.11n(H40)



4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

| Test software Version | SecureCRT | | | |
|-----------------------|-----------|----------|----------|--|
| Frequency | 2412 MHz | 2437 MHz | 2462 MHz | |
| Parameters | DEF | DEF | DEF | |
| Frequency | 2422MHz | 2437MHz | 2452MHz | |
| Parameters | DEF | DEF | DEF | |



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5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards. FCC Test Firm Registration Number: 712850

FCC Designation Number: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

| Conducted Emissions Test | | | | | | | | |
|--------------------------|---|----------------|----------------|--------------|--------------|--|--|--|
| Equipment | Equipment Manufacturer Model# Serial# Last Cal. Next Cal. | | | | | | | |
| Receiver | R&S | ESR3 | 102075 | May 24, 2022 | May 23, 2023 | | | |
| LISN | R&S | ENV216 | 101375 | May 24, 2022 | May 23, 2023 | | | |
| Software | Frad | EZ-EMC | EMC-CON 3A1 | / | / | | | |
| Attenuator | / | 10dB C-6GHz | 1650 | May 24, 2022 | May 23, 2023 | | | |

| RF Conducted Test | | | | | | |
|-------------------------------------|--------------|----------------|------------|--------------|--------------|--|
| Equipment | Manufacturer | Model# | Serial# | Last Cal. | Next Cal. | |
| Power Metter | Keysight | E4419 | I I | May 24, 2022 | May 23, 2023 | |
| Power Sensor (AV) | Keysight | E9300A | | May 24, 2022 | May 23, 2023 | |
| Signal Analyzer20kH z-26.5GHz | Keysight | N9020A | MY49100060 | May 24, 2022 | May 23, 2023 | |
| Spectrum Analyzer9kHz- 40GHz | R&S | FSP40 | 100363 | May 24, 2022 | May 23, 2023 | |
| Radio frequency control box | MAIWEI | MW100-RFC B | | | | |
| Software | MAIWEI | MTS 8310 | ····· | | | |

No.: BCTC/RF-EMC-005



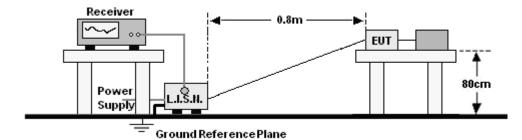
| Radiated Emissions Test (966 Chamber01) | | | | | | | |
|---|--------------|----------------------|------------|---------------|---------------|--|--|
| Equipment | Manufacturer | Model# | Serial# | Last Cal. | Next Cal. | | |
| 966 chamber | ChengYu | 966 Room | 966 | Jun. 06. 2020 | Jun. 05, 2023 | | |
| Receiver | R&S | ESR3 | 102075 | May 24, 2022 | May 23, 2023 | | |
| Receiver | R&S | ESRP | 101154 | May 24, 2022 | May 23, 2023 | | |
| Amplifier | Schwarzbeck | BBV9744 | 9744-0037 | May 24, 2022 | May 23, 2023 | | |
| TRILOG Broadband Antenna | Schwarzbeck | VULB9163 | 942 | May 26, 2022 | May 25, 2023 | | |
| Loop Antenna(9KHz -30MHz) | Schwarzbeck | FMZB1519B | 00014 | May 26, 2022 | May 25, 2023 | | |
| Amplifier | SKET | LAPA_01G18 G-45dB | 1 | May 24, 2022 | May 23, 2023 | | |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1541 | Jun. 06, 2022 | Jun. 05, 2023 | | |
| Amplifier(18G Hz-40GHz) | MITEQ | TTA1840-35- HG | 2034381 | May 26, 2022 | May 25, 2023 | | |
| Horn Antenn(18GH z-40GHz) | Schwarzbeck | BBHA9170 | 00822 | Jun. 06, 2022 | Jun. 05, 2023 | | |
| Spectrum Analyzer9kHz- 40GHz | R&S | FSP40 | 100363 | May 24, 2022 | May 23, 2023 | | |
| Software | Frad | EZ-EMC | FA-03A2 RE | 1 | Λ / | | |

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6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

| | Limit (| dBuV) | | | |
|--|-----------|-----------|--|--|--|
| Frequency (MHz) | Quas-peak | Average | | | |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * | | | |
| 0.50 -5.0 | 56.00 | 46.00 | | | |
| 5.0 -30.0 | 60.00 | 50.00 | | | |
| Notes: 1. *Decreasing linearly with logarithm of frequency. | | | | | |

2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

| Setting |
|----------|
| 10 dB |
| 0.15 MHz |
| 30 MHz |
| 9 kHz |
| |

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

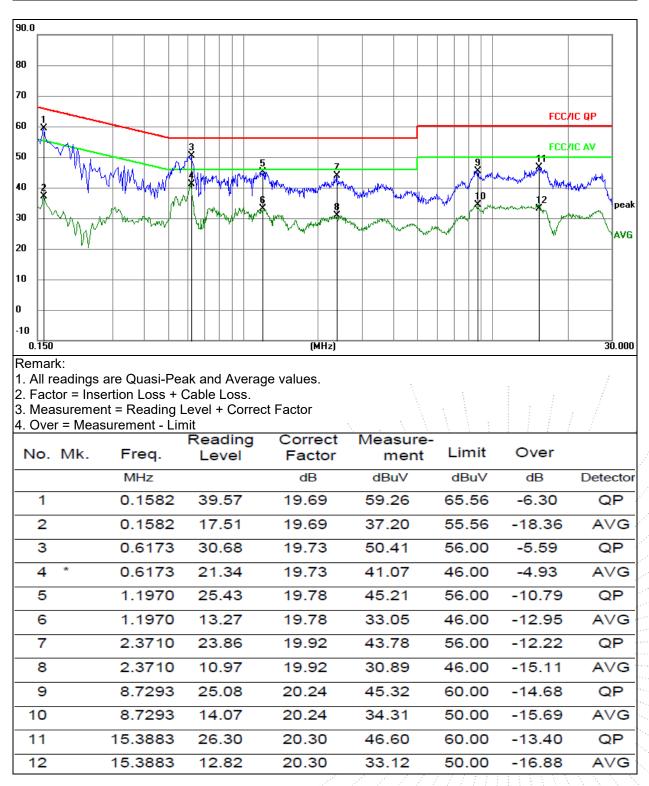
6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



6.5 Test Result

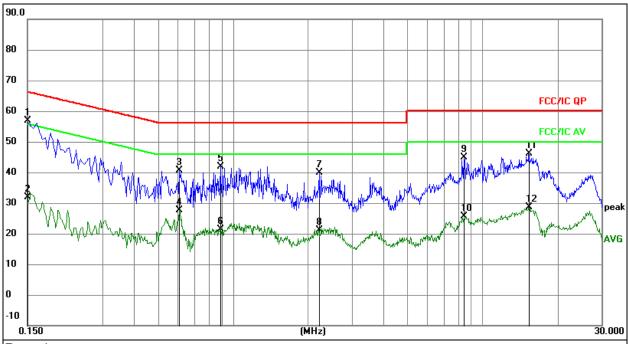
| Adapter 1 | | | | | |
|--------------|-------------|--------------------|--------------|--|--|
| Temperature: | 26 ℃ | Relative Humidity: | 54% | | |
| Pressure: | 101KPa | Phase : | L | | |
| Test Mode: | Mode 13 | Test Voltage : | AC 120V/60Hz | | |



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| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|--------------|
| Pressure: | 101KPa | Phase : | Ν |
| Test Mode: | Mode 13 | Test Voltage : | AC 120V/60Hz |



Remark:

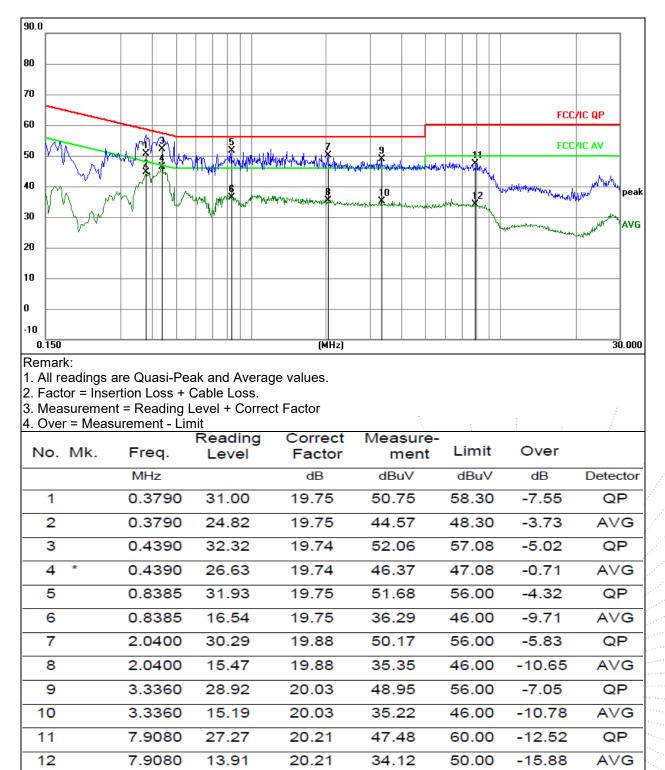
- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.
 Measurement = Reading Level + Correct Factor
 Over = Measurement Limit

| 4. Over | – measu | irement - Lir | THE | | | | | 1 |
|---------|---------|---------------|------------------|-------------------|------------------|-------|--------|----------|
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
| | | MHz | | dB | dBuV | dBuV | dB | Detector |
| 1 | * | 0.1500 | 37.26 | 19.67 | 56.93 | 66.00 | -9.07 | QP |
| 2 | | 0.1500 | 12.24 | 19.67 | 31.91 | 56.00 | -24.09 | AVG |
| 3 | | 0.6089 | 20.89 | 19.73 | 40.62 | 56.00 | -15.38 | QP |
| 4 | | 0.6089 | 7.99 | 19.73 | 27.72 | 46.00 | -18.28 | AVG |
| 5 | | 0.8924 | 22.22 | 19.75 | 41.97 | 56.00 | -14.03 | QP |
| 6 | | 0.8924 | 1.62 | 19.75 | 21.37 | 46.00 | -24.63 | AVG |
| 7 | | 2.2064 | 20.04 | 19.90 | 39.94 | 56.00 | -16.06 | QP |
| 8 | | 2.2064 | 1.26 | 19.90 | 21.16 | 46.00 | -24.84 | AVG |
| 9 | | 8.4435 | 24.73 | 20.23 | 44.96 | 60.00 | -15.04 | QP |
| 10 | | 8.4435 | 5.35 | 20.23 | 25.58 | 50.00 | -24.42 | AVG |
| 11 | | 15.3150 | 25.74 | 20.29 | 46.03 | 60.00 | -13.97 | QP |
| 12 | | 15.3150 | 8.31 | 20.29 | 28.60 | 50.00 | -21.40 | AVG |
| | | | | | | | | |



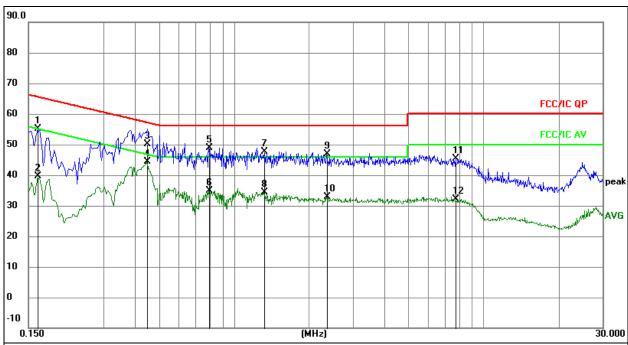
Adapter 2

| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|--------------|
| Pressure: | 101KPa | Phase : | L |
| Test Mode: | Mode 13 | Test Voltage : | AC 120V/60Hz |





| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|--------------|
| Pressure: | 101KPa | Phase : | N |
| Test Mode: | Mode 13 | Test Voltage : | AC 120V/60Hz |



Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.
- 3. Measurement = Reading Level + Correct Factor
- 4. Over = Measurement Limit

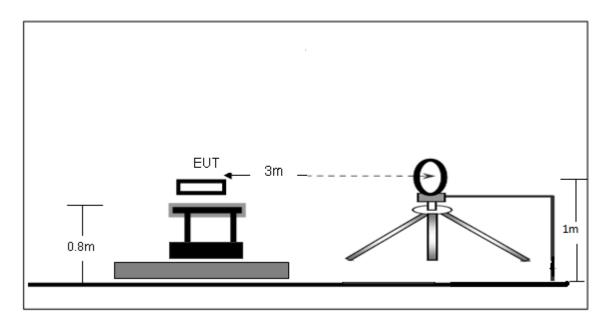
| | urement - Li | | | | | | 1 |
|---------|--------------|------------------|---|------------------|-------|--------------------|----------|
| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
| | MHz | | dB | dBuV | dBuV | dB | Detector |
| 1 | 0.1633 | 35.47 | 19.70 | 55.17 | 65.29 | -10.12 | QP |
| 2 | 0.1633 | 19.87 | 19.70 | 39.57 | 55.29 | -15.72 | AVG |
| 3 | 0.4468 | 30.47 | 19.73 | 50.20 | 56.93 | -6.73 | QP |
| 4 * | 0.4468 | 24.59 | 19.73 | 44.32 | 46.93 | -2.61 | AVG |
| 5 | 0.7918 | 29.15 | 19.75 | 48.90 | 56.00 | -7.10 | QP |
| 6 | 0.7918 | 15.16 | 19.75 | 34.91 | 46.00 | -11.09 | AVG |
| 7 | 1.3168 | 27.78 | 19.80 | 47.58 | 56.00 | -8.42 | QP |
| 8 | 1.3168 | 14.61 | 19.80 | 34.41 | 46.00 | -11.59 | AVG |
| 9 | 2.3460 | 26.84 | 19.92 | 46.76 | 56.00 | -9.24 | QP |
| 10 | 2.3460 | 12.88 | 19.92 | 32.80 | 46.00 | -13.20 | AVG |
| 11 | 7.7278 | 25.30 | 20.20 | 45.50 | 60.00 | -14.50 | QP |
| 12 | 7.7278 | 11.85 | 20.20 | 32.05 | 50.00 | -17.95 | AVG |
| | | | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | | | いち ちちち ないようち ふくちょう | |



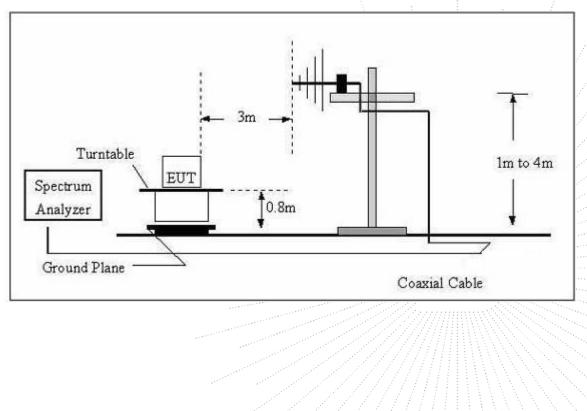
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

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

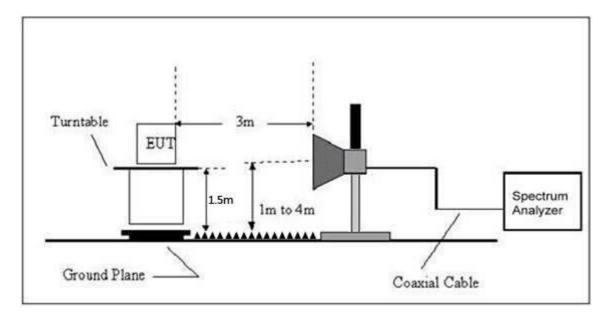


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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



7.2 Limit

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.

| Frequency | Field Strength | Distance | Field Strength Limit at 3m Distance | | | |
|---------------|----------------|----------|-------------------------------------|--------------------------------------|--|--|
| (MHz) | uV/m | (m) | uV/m | dBuV/m | | |
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 | 10000 * 2400/F(kHz) | 20log ^{(2400/F(kHz))} + 80 | | |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 | 100 * 24000/F(kHz) | 20log ^{(24000/F(kHz))} + 40 | | |
| 1.705 ~ 30 | 30 | 30 | 100 * 30 | 20log ⁽³⁰⁾ + 40 | | |
| 30 ~ 88 | 100 | 3 | 100 | 20log ⁽¹⁰⁰⁾ | | |
| 88 ~ 216 | 150 | 3. | 150 | 20log ⁽¹⁵⁰⁾ | | |
| 216 ~ 960 | 200 | 3 | 200 | 20log ⁽²⁰⁰⁾ | | |
| Above 960 | 500 | 3 | 500 | 20log ⁽⁵⁰⁰⁾ | | |

Limits Of Radiated Emission Measurement (Above 1000MHz)

| Frequency (MHz) | Lin | nit (dBuV/m) (at 3M) |
|-----------------|------|----------------------|
| | Peak | Average |
| Above 1000 | 74 | 54 |

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).



Frequency Range Of Radiated Measurement

(a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

7.3 Test procedure

| Receiver Parameter | Setting |
|--------------------|-------------------|
| Attenuation | Auto |
| 9kHz~150kHz | RBW 200Hz for QP |
| 150kHz~30MHz | RBW 9kHz for QP |
| 30MHz~1000MHz | RBW 120kHz for QP |

| Spectrum Parameter | Setting |
|--------------------|----------------------------------|
| 1-25GHz | RBW 1 MHz /VBW 1 MHz for Peak, |
| 1 200112 | RBW 1 MHz / VBW 10Hz for Average |

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middlest channel, the Highest channel. Note:

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

7.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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7.5 Test Result

Below 30MHz

| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|-------------|
| Pressure: | 101KPa | Test Voltage : | AC120V/60Hz |
| Test Mode: | Mode 13 | Polarization : | |

| Freq. | Reading | Limit | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) | P/F |
| | | | | PASS |
| | | | | PASS |

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the

permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

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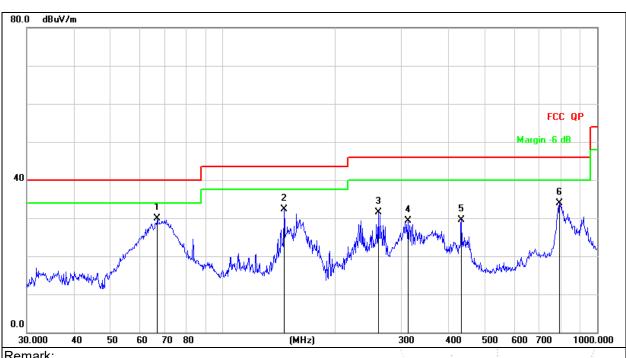
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Between 30MHz – 1GHz

Adapter 1

| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|--------------|
| Pressure: | 101KPa | Phase : | Horizontal |
| Test Mode: | Mode 13 | Test Voltage: | AC 120V/60Hz |



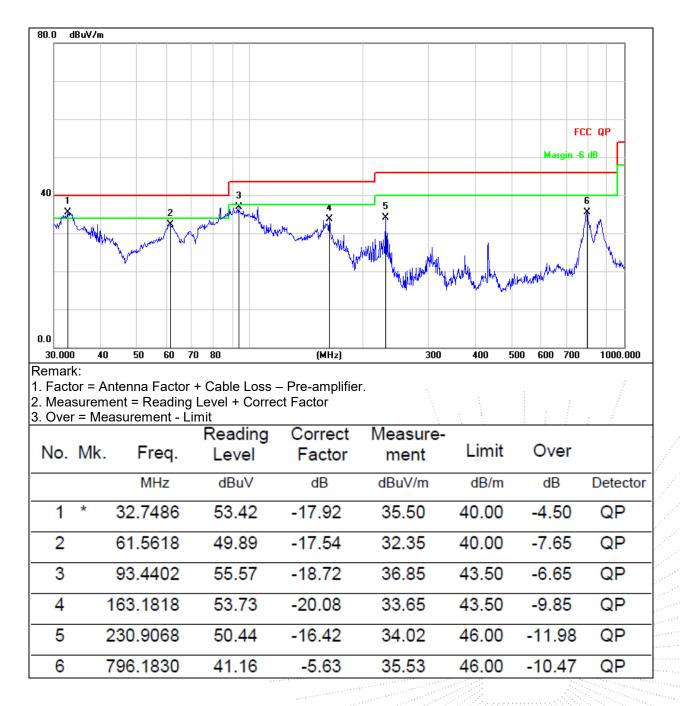
Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.
 Measurement = Reading Level + Correct Factor
 Over = Measurement - Limit

| J. 0ve | | asulement - L | | | | | | |
|--------|-----|---------------|------------------|-------------------|------------------|-------|--------|----------|
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector |
| 1 | * | 66.9669 | 48.90 | -19.08 | 29.82 | 40.00 | -10.18 | QP |
| 2 | | 145.8611 | 53.17 | -20.78 | 32.39 | 43.50 | -11.11 | QP |
| 3 | : | 260.1444 | 47.00 | -15.58 | 31.42 | 46.00 | -14.58 | QP |
| 4 | | 312.1794 | 43.42 | -14.14 | 29.28 | 46.00 | -16.72 | QP |
| 5 | 4 | 434.0651 | 41.23 | -11.72 | 29.51 | 46.00 | -16.49 | QP |
| 6 | | 793.3960 | 39.64 | -5.68 | 33.96 | 46.00 | -12.04 | QP |
| | | | | | | | | |



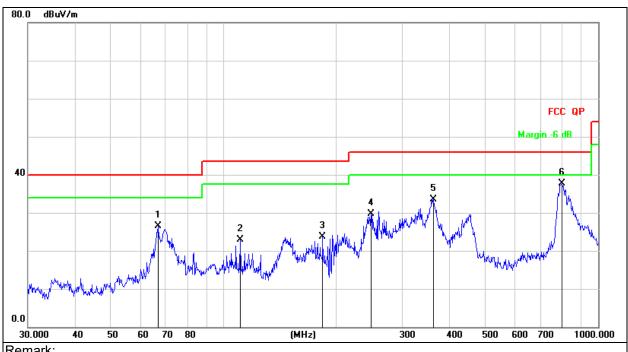
| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|--------------|
| Pressure: | 101KPa | Phase : | Vertical |
| Test Mode: | Mode 13 | Test Voltage: | AC 120V/60Hz |





Adapter 2

| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|--------------|
| Pressure: | 101KPa | Phase : | Horizontal |
| Test Mode: | Mode 13 | Test Voltage: | AC 120V/60Hz |



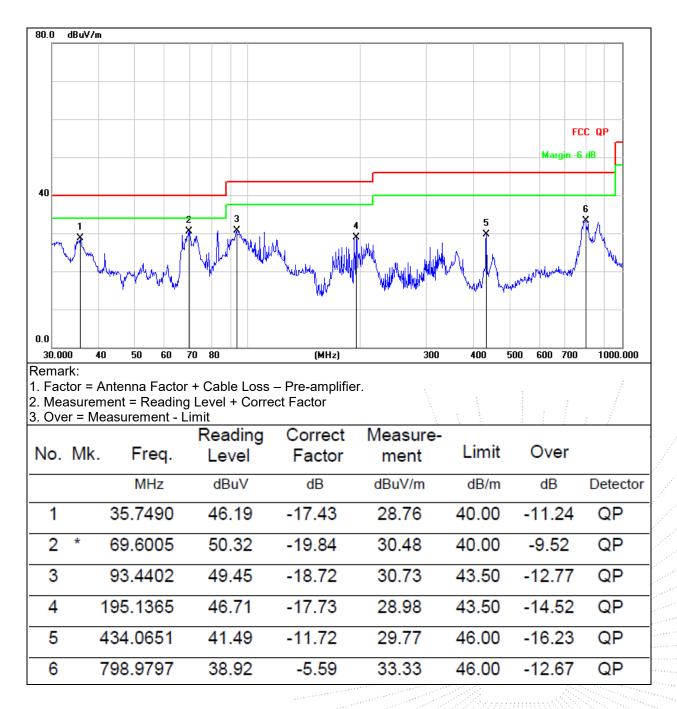
Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.
 Measurement = Reading Level + Correct Factor
 Over = Measurement - Limit

| J. UVC | | easurement - L | | | | | | |
|--------|----|----------------|------------------|-------------------|------------------|-------|--------|----------|
| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector |
| 1 | | 66.9669 | 45.62 | -19.08 | 26.54 | 40.00 | -13.46 | QP |
| 2 | | 110.9571 | 41.31 | -18.48 | 22.83 | 43.50 | -20.67 | QP |
| 3 | | 183.8440 | 42.21 | -18.56 | 23.65 | 43.50 | -19.85 | QP |
| 4 | | 247.6819 | 45.61 | -15.90 | 29.71 | 46.00 | -16.29 | QP |
| 5 | | 362.9844 | 46.18 | -12.64 | 33.54 | 46.00 | -12.46 | QP |
| 6 | * | 801.7863 | 43.23 | -5.55 | 37.68 | 46.00 | -8.32 | QP |



| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|--------------|
| Pressure: | 101KPa | Phase : | Vertical |
| Test Mode: | Mode 13 | Test Voltage: | AC 120V/60Hz |





Between 1GHz – 25GHz

802.11b

| Polar | Frequency | equency Reading Level | Correct Factor | Measure- ment | Limits | Over | Detector |
|-------|-----------|--------------------------|-------------------|------------------|--------------|--------|----------|
| (H/V) | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/ m) | (dB) | Туре |
| | | Lo | ow channel:24 | 412MHz | | | |
| V | 4824.00 | 52.53 | -0.43 | 52.10 | 74.00 | -21.90 | PK |
| V | 4824.00 | 43.86 | -0.43 | 43.43 | 54.00 | -10.57 | AV |
| V | 7236.00 | 42.09 | 8.31 | 50.40 | 74.00 | -23.60 | PK |
| V | 7236.00 | 32.22 | 8.31 | 40.53 | 54.00 | -13.47 | AV |
| Н | 4824.00 | 50.31 | -0.43 | 49.88 | 74.00 | -24.12 | PK |
| Н | 4824.00 | 40.33 | -0.43 | 39.90 | 54.00 | -14.10 | AV |
| Н | 7236.00 | 40.67 | 8.31 | 48.98 | 74.00 | -25.02 | PK |
| Н | 7236.00 | 31.94 | 8.31 | 40.25 | 54.00 | -13.75 | AV |
| | | Mic | dle channel: | 2437MHz | | | |
| V | 4874.00 | 51.08 | -0.38 | 50.70 | 74.00 | -23.30 | PK |
| V | 4874.00 | 44.66 | -0.38 | 44.28 | 54.00 | -9.72 | AV |
| V | 7311.00 | 43.14 | 8.83 | 51.97 | 74.00 | -22.03 | PK |
| V | 7311.00 | 33.42 | 8.83 | 42.25 | 54.00 | -11.75 | AV |
| Н | 4874.00 | 48.59 | -0.38 | 48.21 | 74.00 | -25.79 | PK |
| Н | 4874.00 | 39.07 | -0.38 | 38.69 | 54.00 | -15.31 | AV |
| Н | 7311.00 | 40.43 | 8.83 | 49.26 | 74.00 | -24.74 | PK |
| Н | 7311.00 | 32.71 | 8.83 | 41.54 | 54.00 | -12.46 | AV |
| | | Hi | gh channel:2 | 462MHz | | | |
| V | 4924.00 | 53.45 | -0.32 | 53.13 | 74.00 | -20.87 | PK |
| V | 4924.00 | 43.23 | -0.32 | 42.91 | 54.00 | -11.09 | AV |
| V | 7386.00 | 46.44 | 9.35 | 55.79 | 74.00 | -18.21 | PK |
| V | 7386.00 | 37.05 | 9.35 | 46.40 | 54.00 | -7.60 | AV |
| Н | 4924.00 | 51.81 | -0.32 | 51.49 | 74.00 | -22.51 | PK |
| Н | 4924.00 | 41.90 | -0.32 | 41.58 | 54.00 | -12.42 | AV |
| Н | 7386.00 | 44.53 | 9.35 | 53.88 | 74.00 | -20.12 | PK |
| Н | 7386.00 | 36.39 | 9.35 | 45.74 | 54.00 | -8.26 | AV |

Remark:

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

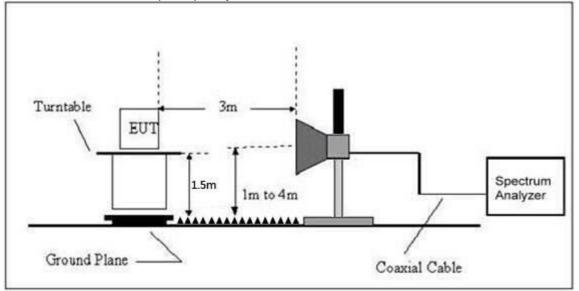
5.All the Modulation are test, the worst mode is 802.11b, the data recording in the report.



8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| ¹ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (²) |
| 13.36-13.41 | | | |

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Limits Of Radiated Emission Measurement (Above 1000MHz)

| Frequency (MHz) | Limit (dBuV/m) (at 3M) | | | |
|-----------------|------------------------|---------|--|--|
| Frequency (MHZ) | Peak | Average | | |
| Above 1000 | 74 | 54 | | |

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.

(3)Emission level (dBuV/m)=20log Emission level (uV/m).

8.3 Test procedure

| Receiver Parameter | Setting |
|---------------------------------------|--|
| Attenuation | Auto |
| Start Frequency | 2300MHz |
| Stop Frequency | 2520 |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the Highest channel. Note:

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

8.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



8.5 Test Result

| Test mode | Polar (H/V) | Frequency (MHz) | Reading Level | Correct Factor | Measure- ment (dBuV/m) | Limits (dBuV/m) | | Result | | |
|--------------|----------------|----------------------|------------------|-------------------|------------------------------|--------------------|-------|--------|--|--|
| | (| (| (dBuV/m) | (dB) | РК | РК | AV | 7 | | |
| | | | Lo | w Channel 2 | 412MHz | | | | | |
| | Н | 2390.00 | 52.70 | -6.70 | 46.00 | 74.00 | 54.00 | PASS | | |
| | Н | 2400.00 | 56.81 | -6.71 | 50.10 | 74.00 | 54.00 | PASS | | |
| | V | 2390.00 | 52.06 | -6.70 | 45.36 | 74.00 | 54.00 | PASS | | |
| 000 445 | V | 2400.00 | 52.22 | -6.71 | 45.51 | 74.00 | 54.00 | PASS | | |
| 802.11b | | High Channel 2462MHz | | | | | | | | |
| | Н | 2483.50 | 51.11 | -6.79 | 44.32 | 74.00 | 54.00 | PASS | | |
| | Н | 2485.00 | 48.23 | -6.81 | 41.42 | 74.00 | 54.00 | PASS | | |
| | V | 2483.50 | 51.84 | -6.79 | 45.05 | 74.00 | 54.00 | PASS | | |
| | V | 2485.00 | 48.16 | -6.81 | 41.35 | 74.00 | 54.00 | PASS | | |
| | | | Lo | w Channel 2 | 412MHz | | | | | |
| | Н | 2390.00 | 53.36 | -6.70 | 46.66 | 74.00 | 54.00 | PASS | | |
| | Н | 2400.00 | 57.04 | -6.71 | 50.33 | 74.00 | 54.00 | PASS | | |
| | V | 2390.00 | 53.00 | -6.70 | 46.30 | 74.00 | 54.00 | PASS | | |
| 802.11g | V | 2400.00 | 53.39 | -6.71 | 46.68 | 74.00 | 54.00 | PASS | | |
| 602.11g | | High Channel 2462MHz | | | | | | | | |
| | Н | 2483.50 | 53.17 | -6.79 | 46.38 | 74.00 | 54.00 | PASS | | |
| | Н | 2485.00 | 48.41 | -6.81 | 41.60 | 74.00 | 54.00 | PASS | | |
| | V | 2483.50 | 52.15 | -6.79 | 45.36 | 74.00 | 54.00 | PASS | | |
| | V | 2485.00 | 47.38 | -6.81 | 40.57 | 74.00 | 54.00 | PASS | | |

Remark:

1. Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level – Limit

2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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| Test mode | Polar (H/V) | Frequency (MHz) | Reading Level (dBuV/m) | Correct Factor | Measure- ment (dBuV/m) | Limits (dBuV/m) | | Result | | |
|------------|----------------------|----------------------|------------------------------|--------------------------|------------------------------|--------------------|-------|--------|--|--|
| | (17.0) | | | (dB) | РК | РК | AV | | | |
| | | I | Lov | w Channel 2 | 412MHz | | | | | |
| | Н | 2390.00 | 52.75 | -6.70 | 46.05 | 74.00 | 54.00 | PASS | | |
| | Н | 2400.00 | 57.42 | -6.71 | 50.71 | 74.00 | 54.00 | PASS | | |
| | V | 2390.00 | 53.30 | -6.70 | 46.60 | 74.00 | 54.00 | PASS | | |
| | V | 2400.00 | 53.30 | -6.71 | 46.59 | 74.00 | 54.00 | PASS | | |
| 802.11n20 | High Channel 2462MHz | | | | | | | | | |
| | Н | 2483.50 | 50.81 | -6.79 | 44.02 | 74.00 | 54.00 | PASS | | |
| | Н | 2500.00 | 48.32 | -6.81 | 41.51 | 74.00 | 54.00 | PASS | | |
| | V | 2483.50 | 52.86 | -6.79 | 46.07 | 74.00 | 54.00 | PASS | | |
| | V | 2500.00 | 49.02 | -6.81 | 42.21 | 74.00 | 54.00 | PASS | | |
| | | | Lov | w Channel 2 [,] | 422MHz | | | | | |
| | Н | 2390.00 | 53.84 | -6.70 | 47.14 | 74.00 | 54.00 | PASS | | |
| | Н | 2400.00 | 57.21 | -6.71 | 50.50 | 74.00 | 54.00 | PASS | | |
| | V | 2390.00 | 53.89 | -6.70 | 47.19 | 74.00 | 54.00 | PASS | | |
| 802.11n40 | V | 2400.00 | 53.67 | -6.71 | 46.96 | 74.00 | 54.00 | PASS | | |
| 002.111140 | | High Channel 2452MHz | | | | | | | | |
| | Н | 2483.50 | 52.19 | -6.79 | 45.40 | 74.00 | 54.00 | PASS | | |
| | Н | 2500.00 | 48.84 | -6.81 | 42.03 | 74.00 | 54.00 | PASS | | |
| | V | 2483.50 | 52.98 | -6.79 | 46.19 | 74.00 | 54.00 | PASS | | |
| | V | 2500.00 | 49.75 | -6.81 | 42.94 | 74.00 | 54.00 | PASS | | |

Remark:

1. Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level – Limit

2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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9. Power Spectral Density Test

9.1 Block Diagram Of Test Setup



9.2 Limit

| FCC Part15 (15.247) , Subpart C | | | | | | | |
|---------------------------------|------------------------|------------------------|--------------------------|--------|--|--|--|
| Section | Test Item | Limit | Frequency Range (MHz) | Result | | | |
| 15.247 | Power Spectral Density | 8 dBm (in any 3KHz) | 2400-2483.5 | PASS | | | |

Limits Of Radiated Emission Measurement (Above 1000MHz)

9.3 Test procedure

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to: 3 kHz
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.

10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

9.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing. Note: Power Spectral Density(dBm)=Reading+Cable Loss

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9.5 Test Result

| Temperature: | 2 | 26 ° ℃ | 1 | Relative Humidity: | 54% | |
|--|----------|---------------|---------------------------------------|--------------------------------------|------------------|--------|
| Pressure: 101KPa Test Voltage: AC120V/ | | AC120V/60Hz | | | | |
| Test Mode | Frequer | псу | Power Spectral Density (dBm/10kHz) | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| | 2412 M | Hz | -3.88 | -9.11 | 8 | PASS |
| TX b Mode | 2437 M | Hz | -3.52 | -8.75 | 8 | PASS |
| | 2462 M | Hz | -3.28 | -8.51 | 8 | PASS |
| | 2412 M | Hz | -7.12 | -12.35 | 8 | PASS |
| TX g Mode | 2437 MHz | | -6.96 | -12.19 | 8 | PASS |
| | 2462 M | Hz | -6.66 | -11.89 | 8 | PASS |
| | 2412 M | Hz | -8.38 | -13.61 | 8 | PASS |
| TX n Mode(20M) | 2437 M | Hz | -8.04 | -13.27 | 8 | PASS |
| | 2462 M | Hz | -7.51 | -12.74 | 8 | PASS |
| | 2422 M | Hz | -12.73 | -17.96 | 8 | PASS |
| TX n Mode(40M) | 2437 M | Hz | -12.14 | -17.37 | 8 | PASS |
| | 2452 M | Hz | -12.75 | -17.98 | 8 | PASS |

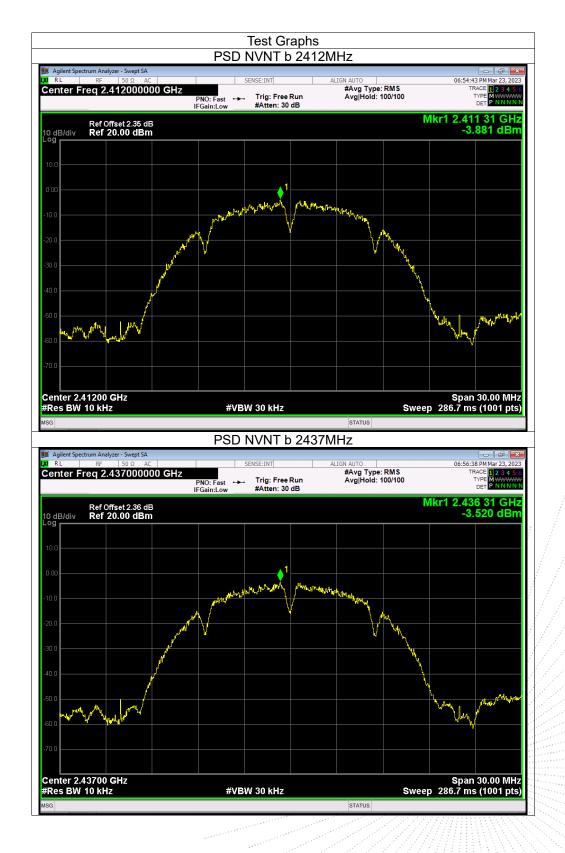
Note: Correction Factor = 10log(3KHz/RBW in measurement)

No.: BCTC/RF-EMC-005

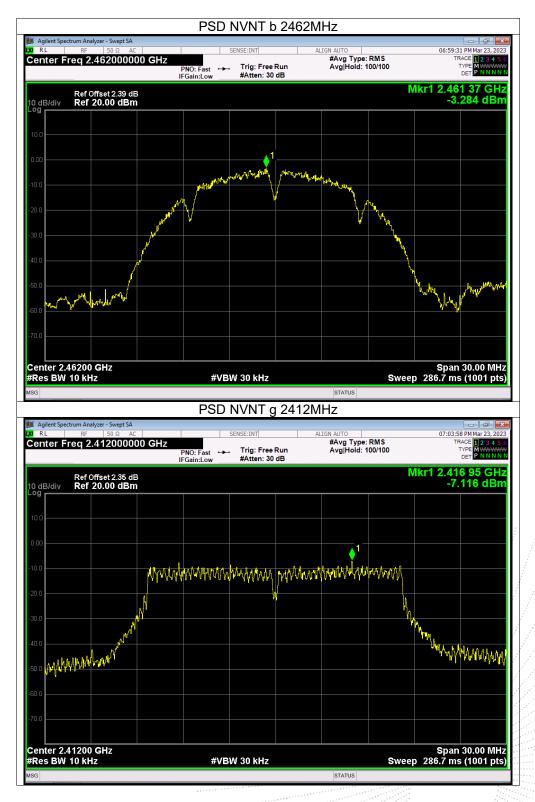
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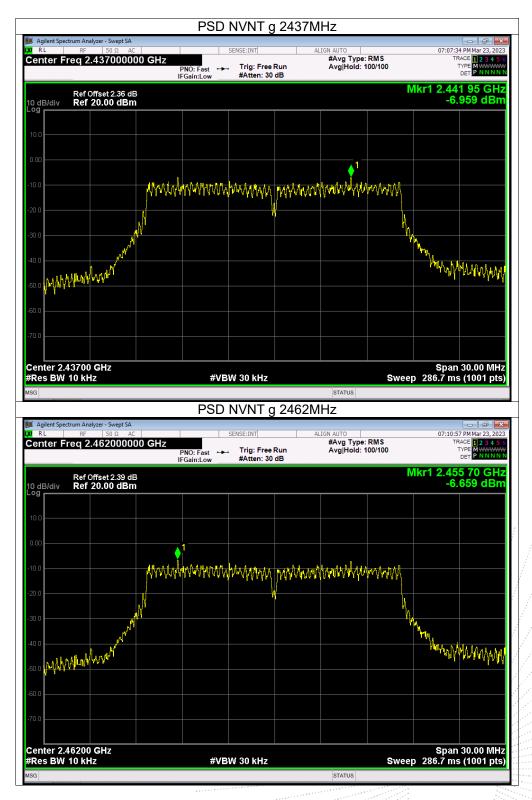




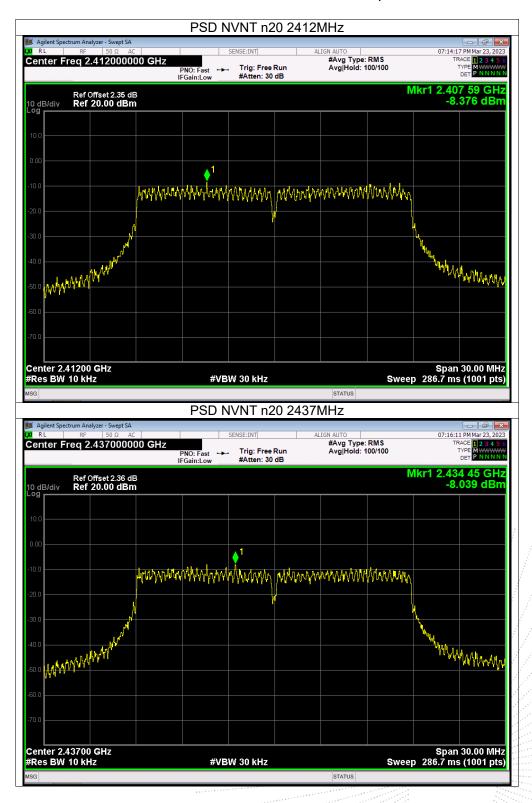




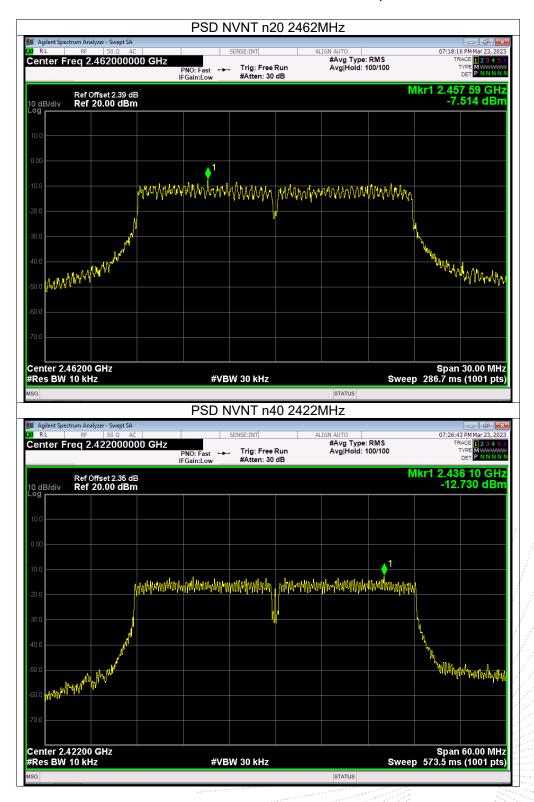




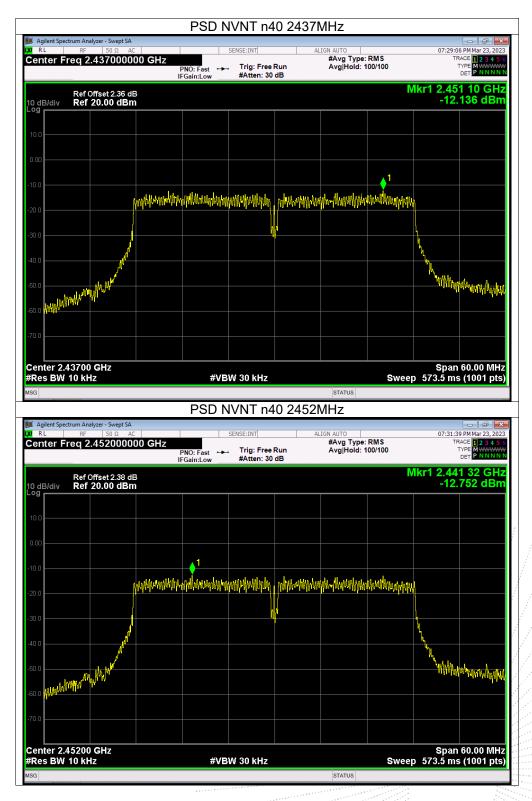














10. Bandwidth Test

10.1 Block Diagram Of Test Setup



10.2 Limit

| | | FCC Part15 (15.247 |) , Subpart C | |
|--------------|-----------|-------------------------------|--------------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(a)(2) | Bandwidth | >= 500KHz (-6dB bandwidth) | 2400-2483.5 | PASS |

10.3 Test procedure

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. 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.

10.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

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10.5 Test Result

| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|-------------|
| Pressure: | 101KPa | Test Voltage: | AC120V/60Hz |

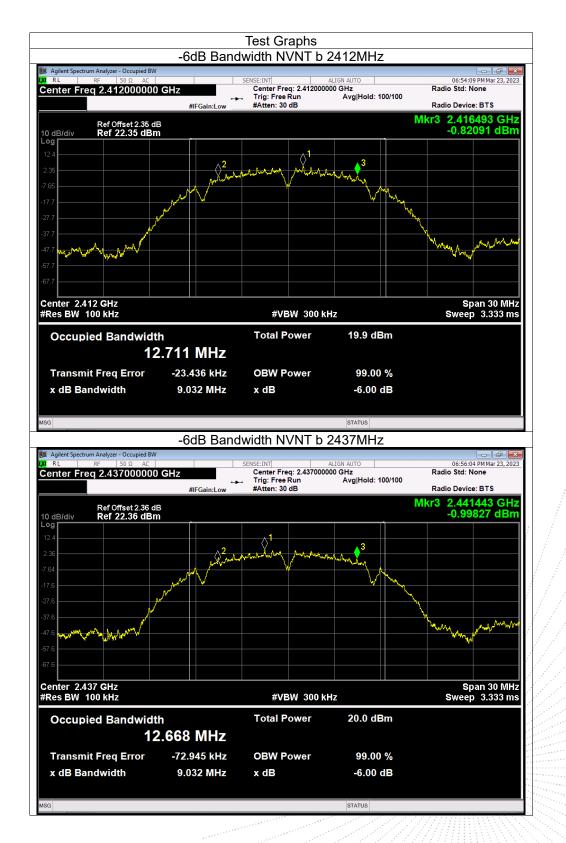
| Test Mode | Frequency (MHz) | -6dB bandwidth (MHz) | Limit (kHz) | Result |
|----------------|-----------------|-------------------------|-------------|--------|
| | 2412 | 9.032 | 500 | Pass |
| TX b Mode | 2437 | 9.032 | 500 | Pass |
| | 2462 | 8.576 | 500 | Pass |
| | 2412 | 16.371 | 500 | Pass |
| TX g Mode | 2437 | 16.353 | 500 | Pass |
| | 2462 | 16.368 | 500 | Pass |
| | 2412 | 17.621 | 500 | Pass |
| TX n Mode(20M) | 2437 | 17.600 | 500 | Pass |
| | 2462 | 17.556 | 500 | Pass |
| | 2422 | 36.329 | 500 | Pass |
| TX n Mode(40M) | 2437 | 36.300 | 500 | Pass |
| | 2452 | 36.348 | 500 | Pass |

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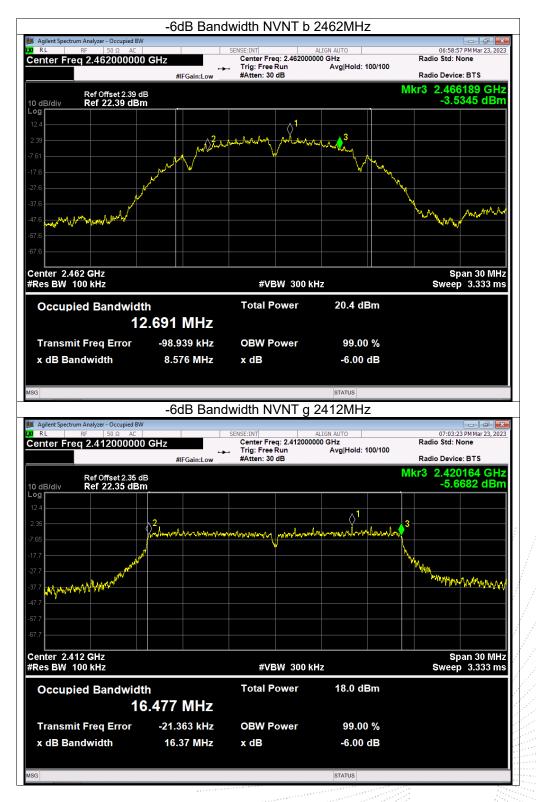
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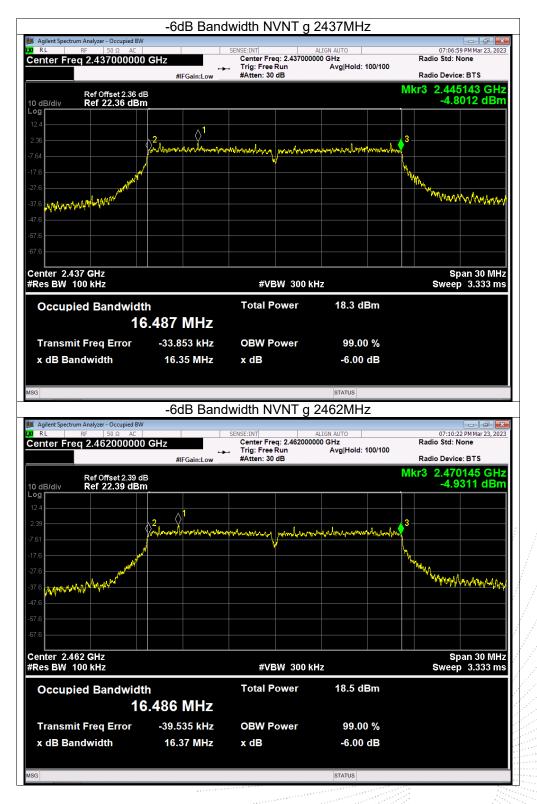




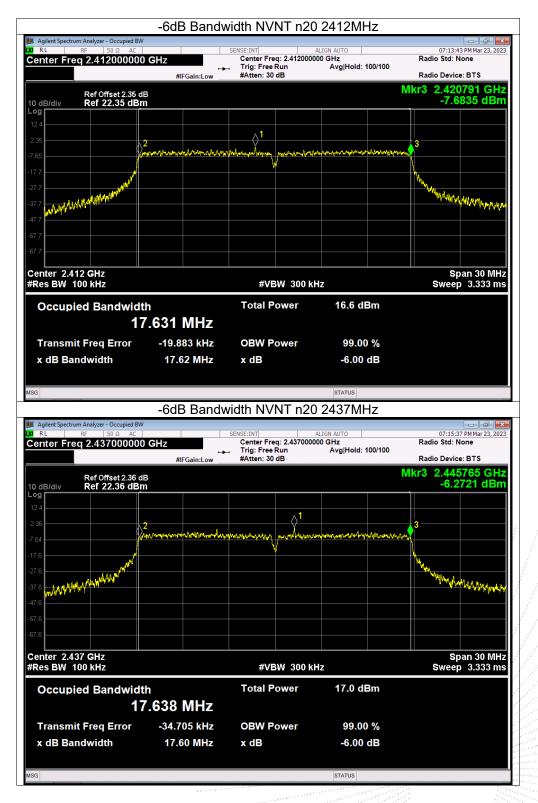




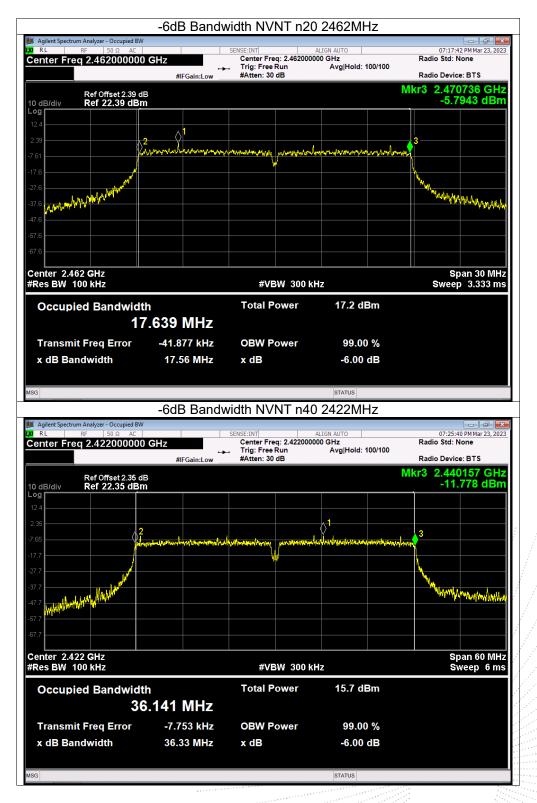




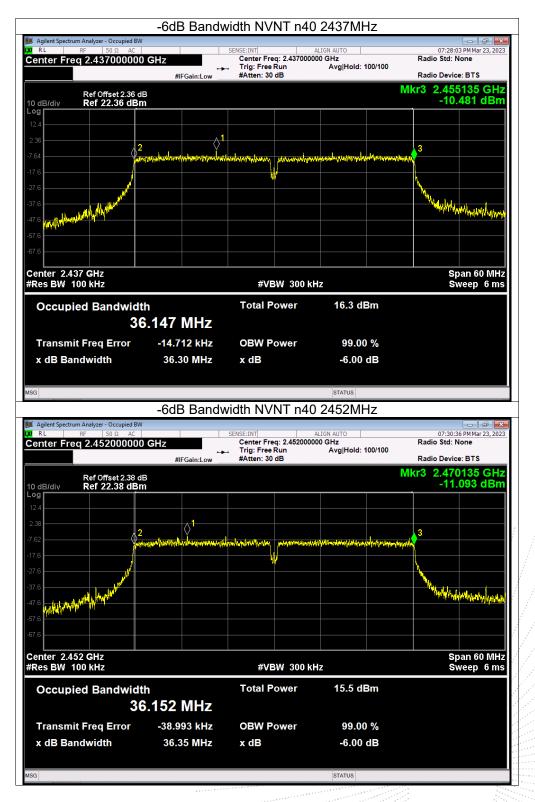














11. Peak Output Power Test

11.1 Block Diagram Of Test Setup



11.2 Limit

| | | FCC Part15 (15.247) , | Subpart C | |
|--------------|----------------------|-----------------------|--------------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(b)(3) | Peak Output Power | 1 watt or 30dBm | 2400-2483.5 | PASS |

11.3 Test Procedure

a. The EUT was directly connected to the Power meter

11.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing. Note: Power Spectral Density(dBm)=Reading+Cable Loss

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11.5 Test Result

| Temperature | : | 26 ℃ | Relative Humidity: | 54% |
|-------------|----------|-------------|---|-------------|
| Pressure: | | 101KPa | Test Voltage: | AC120V/60Hz |
| Test Mode | Frequenc | y(MHz) | Maximum Conducted Output Power(PK) (dBm) | Limit (dBm) |
| | 2412 | 2 | 13.24 | 30 |
| 802.11b | 243 | 7 | 13.66 | 30 |
| | 2462 | 2 | 13.90 | 30 |
| | 2412 | 2 | 11.21 | 30 |
| 802.11g | 243 | 7 | 11.97 | 30 |
| | 2462 | 2 | 12.12 | 30 |
| | 2412 | 2 | 10.98 | 30 |
| 802.11n20 | 243 | 7 | 10.88 | 30 |
| | 2462 | 2 | 11.32 | 30 |
| | 2422 | 2 | 9.63 | 30 |
| 802.11n40 | 243 | 7 | 9.99 | 30 |
| | 2452 | 2 | 9.61 | 30 |

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12. 100 kHz Bandwidth Of Frequency Band Edge

12.1 Block Diagram Of Test Setup



12.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

12.3 Test Procedure

Using the following spectrum analyzer setting:

- a) Set the RBW = 100KHz.
- b) Set the VBW = 300KHz.
- c) Sweep time = auto couple.
- d) Detector function = peak.
- e) Trace mode = max hold.
- f) Allow trace to fully stabilize..

12.4 EUT Operating Conditions

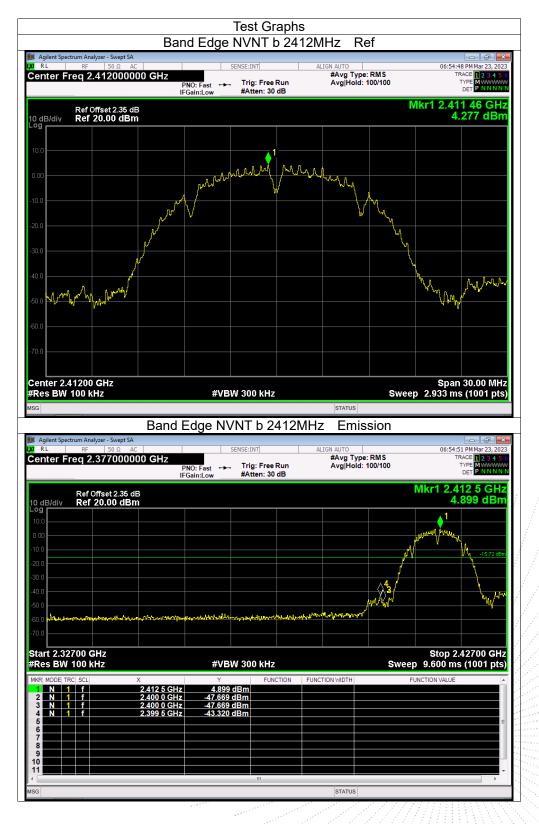
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing. Note: Power Spectral Density(dBm)=Reading+Cable Loss

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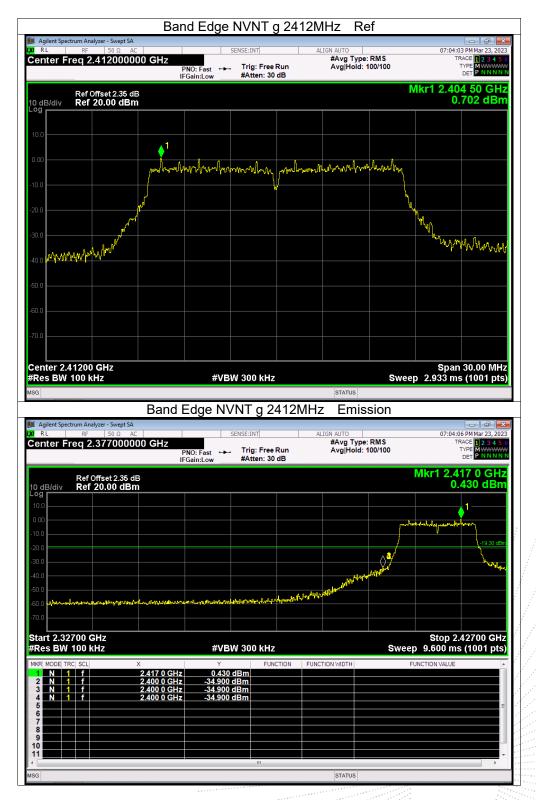
12.5 Test Result



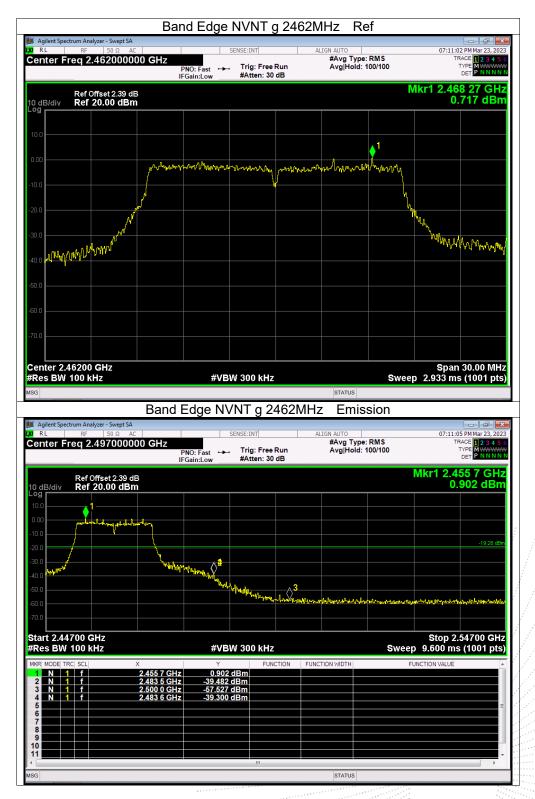












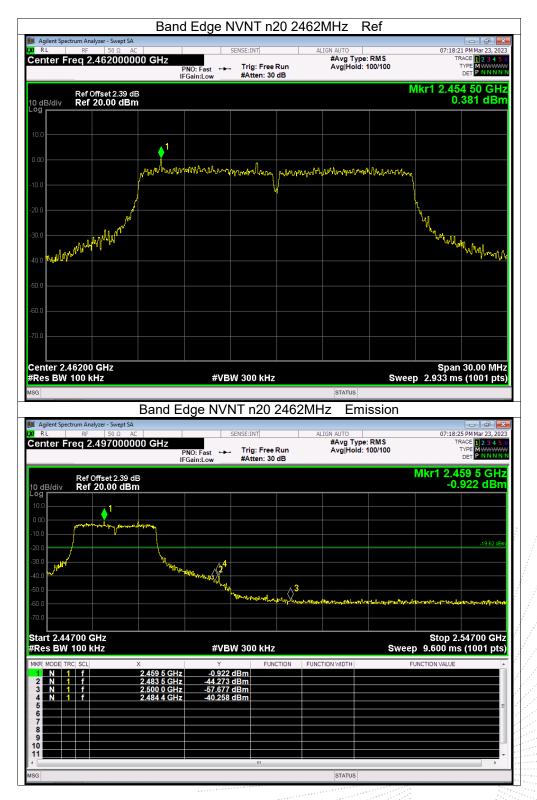




Edition: A.5

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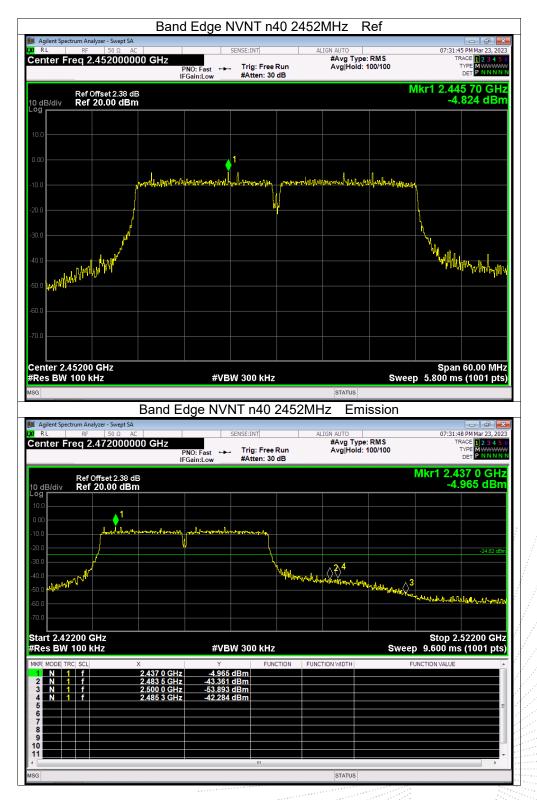
Edition: A.5

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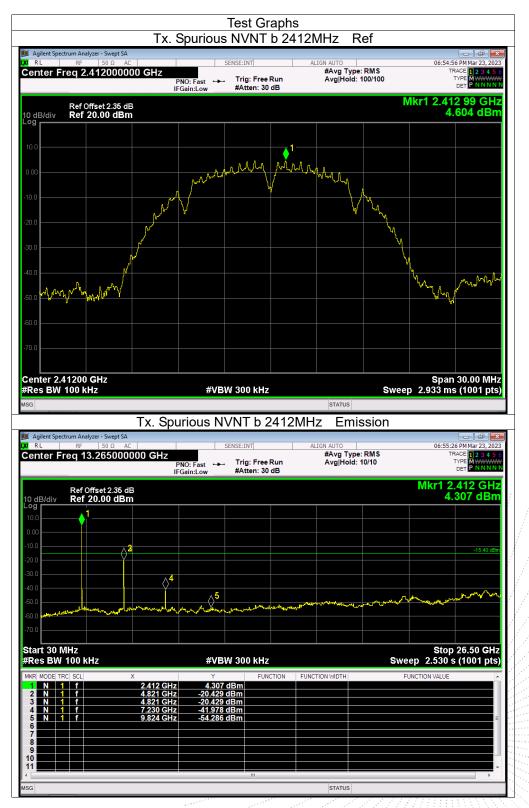




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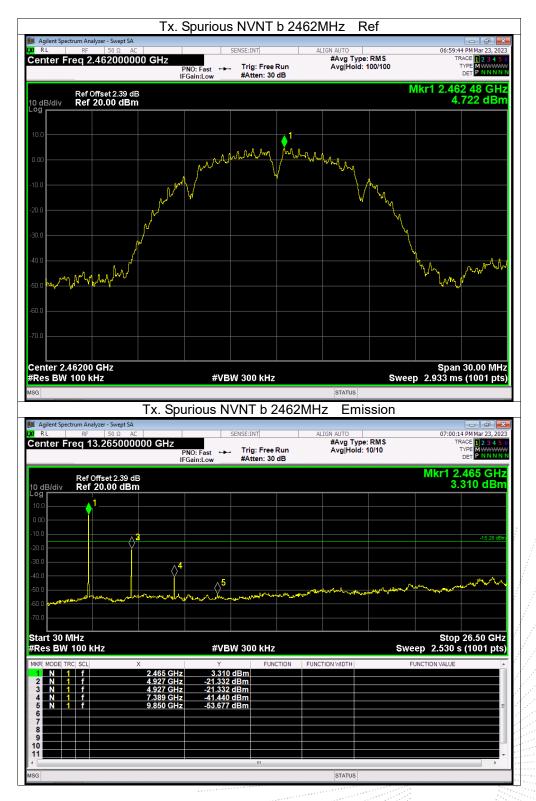
Conducted Emission Measurement



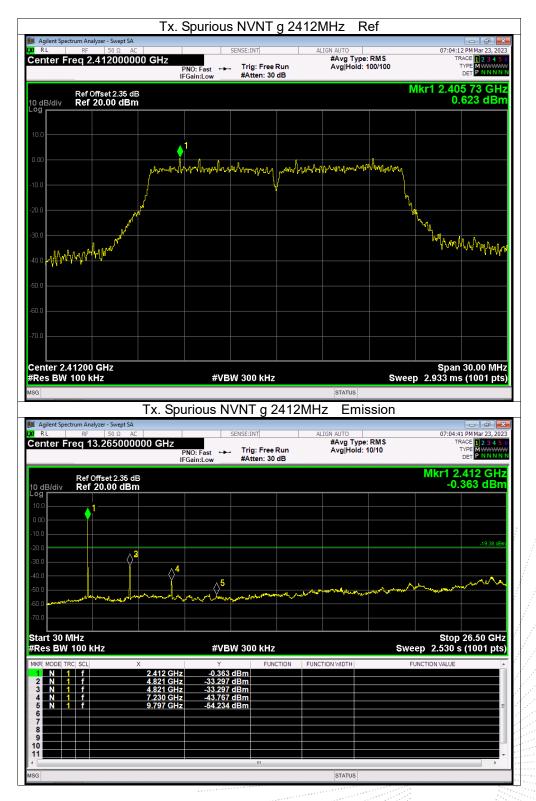




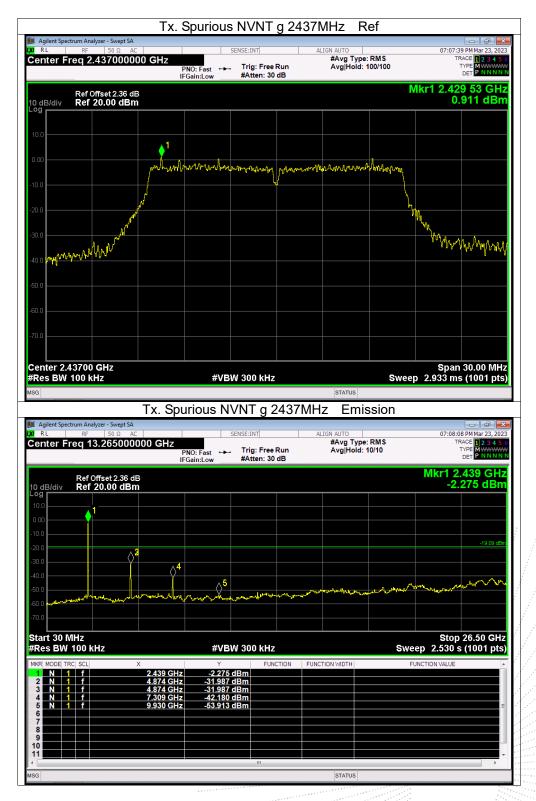




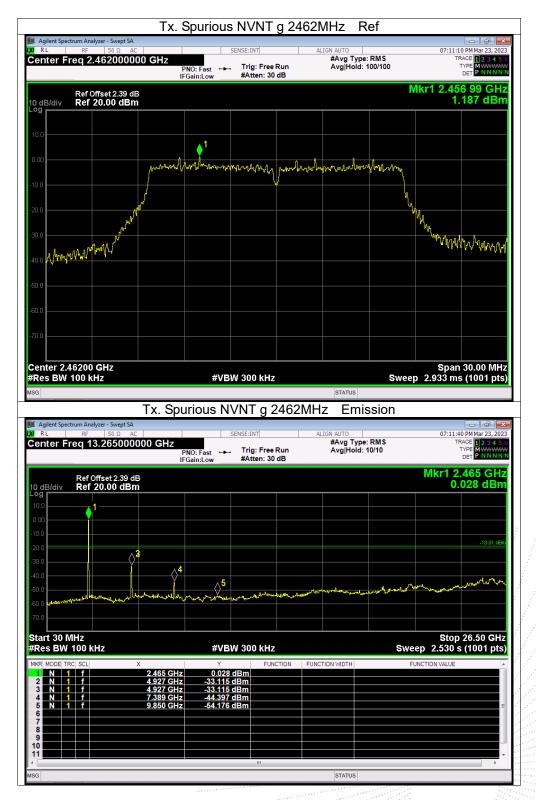




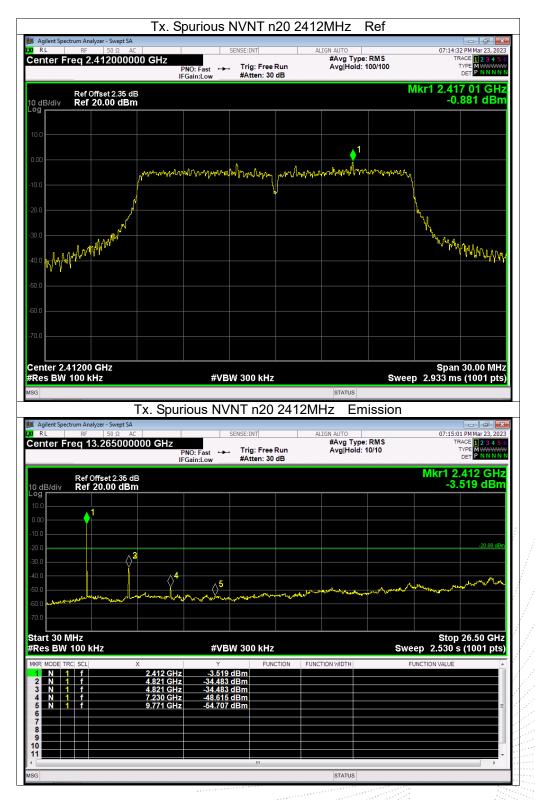




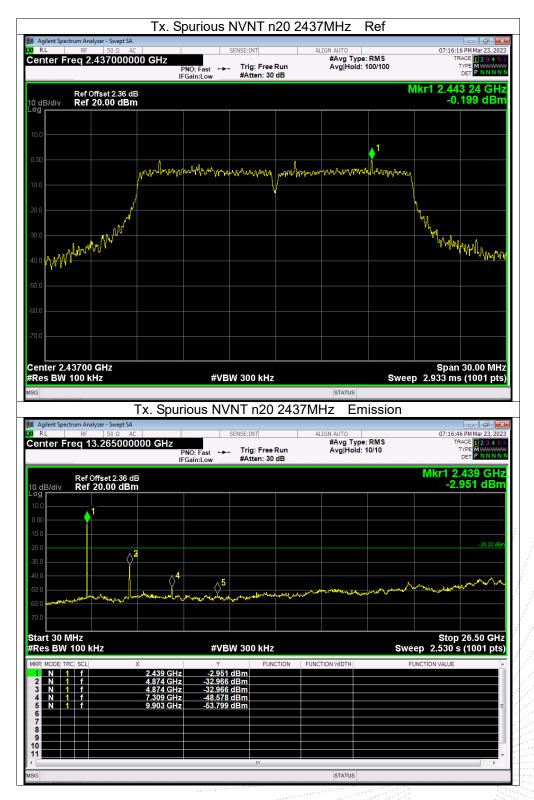




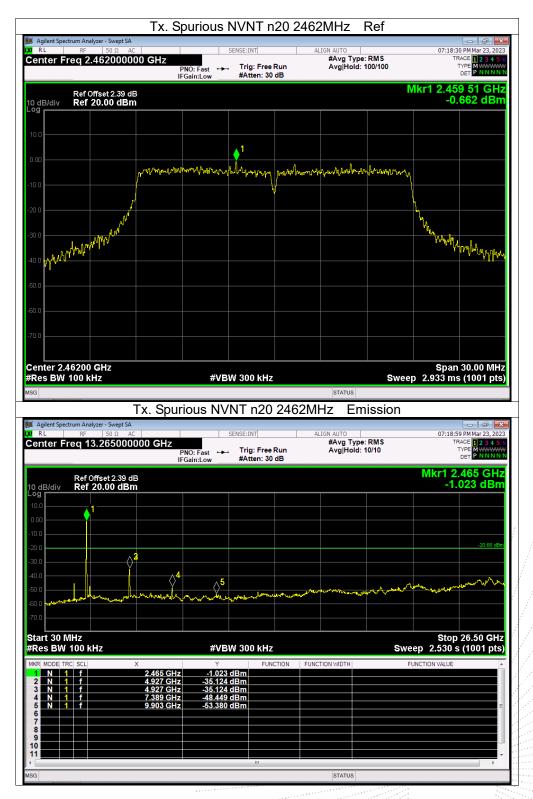




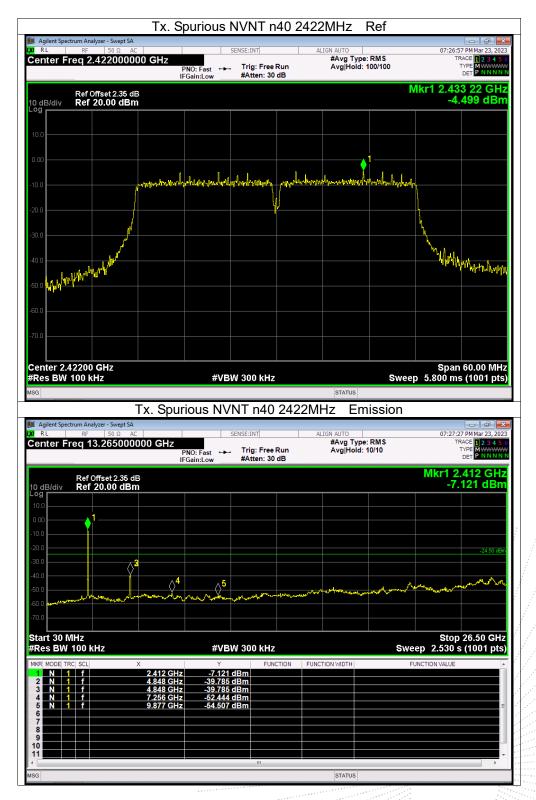




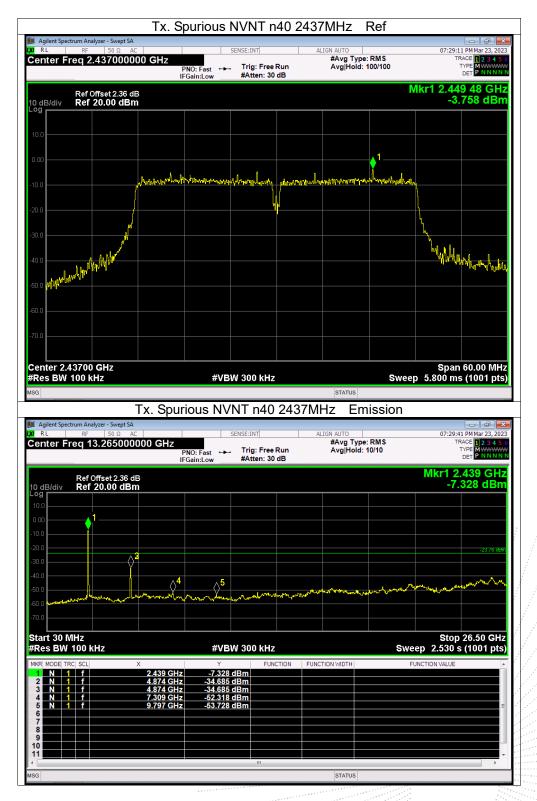




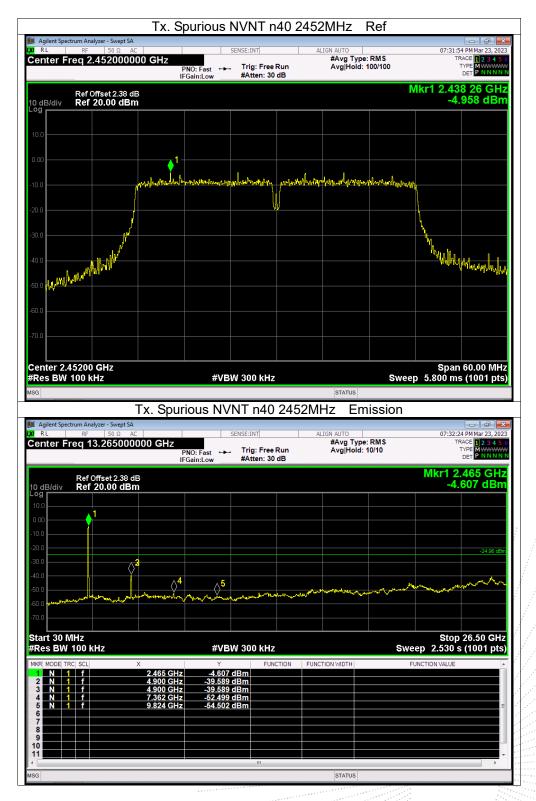














13. Duty Cycle Of Test Signal

13.1 Standard Requirement

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

13.2 Formula

Duty Cycle = Ton / (Ton+Toff)

13.3 Test Procedure

- 1.Set span = Zero
- 2. RBW = 10MHz
- 3. VBW = 10MHz,
- 4. Detector = Peak

13.4 Test Result

| Duty Cycle | Duty Fator (dB) |
|------------|--|
| 100 | 0 |
| 100 | 0 |
| 100 | 0 |
| 100 | 0 |
| 100 | 0 |
| 100 | 0 |
| 100 | 0 |
| 100 | 0 |
| 100 | 0 |
| 100 | 0 |
| 100 | 0 |
| 100 | 0 |
| | 100 100 100 100 100 100 100 100 100 100 |



| Agilent Spectrum Analyzer - Swep | ot SA | uty Cycle I | | | | | - ¢ |
|---|--|-------------------------------|---|-----------------------------------|--------------|----------------|--|
| RL RF 50 Ω enter Freq 2.41200 | | SENSE: | | ALIGN AUTO #Avg Typ | e: RMS | т | 24 PM Mar 23, 20 RACE 1 2 3 4 5 |
| | PN | | g: Free Run tten: 30 dB | | | | |
| Ref Offset 2.3 | 35 dB | | | | | Mkr1 | 50.00 m 1.70 dBn |
| dB/div Ref 20.00 c | IBM | | • <u>•</u> 1 | | | | |
| | | <u> </u> | | | | | |
| .0 | | | | | | | |
| .0 | | | | | | | |
| .0 | | | | | | | |
| .0 | | | | | | | |
| .0 | | | | | | | |
| .0 | | | | | | | |
| enter 2.412000000 G | H7 | | | | | | Span 0 H |
| s BW 8 MHz | | #VBW 8.0 |) MHz | | Sweep |) 100.0 ms | (10001 pt |
| N MODE TRC SCL | × 50.00 ms | ۲ 11.70 dBm | FUNCTION | FUNCTION WIDTH | | FUNCTION VALUE | |
| | 00.00 mb | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | STATUS | | | • |
| | | utv Cycle I | | STATUS | | | |
| | | uty Cycle I | | | | | |
| Agilent Spectrum Analyzer - Swep RL RF 50 Ω | AC AC | SENSE:1 | | | De: RMS | Т | 43 PM Mar 23, 20 RACE 1 2 3 4 5 |
| RL RF 50 Ω | AC A | SENSE:] O:East →→ Tri | NVNT b 2 | 2437MHz Align Auto | e: RMS | Т | 43 PM Mar 23, 20 RACE 1 2 3 4 5 |
| RL | AC PN AC PN 100000 GHz PN IFG 36 dB | SENSE:] O: Fast → Tri | NVNT b 2 | 2437MHz Align Auto |) be: RMS | T Mkr1 | 43 PM Mar 23, 20 RACE 1 2 3 4 5 TYPE PNNNN DET PNNNN |
| RL RF 50 Ω nter Freq 2.43700 Ref Offset 2.3 dB/div Ref 20.00 c | AC PN AC PN 100000 GHz PN IFG 36 dB | SENSE:] O: Fast → Tri | NVNT b 2 | 2437MHz Align Auto | De: RMS | T Mkr1 | 43 PM Mar 23, 20 RACE 1 2 3 4 5 TYPE PNNNN DET PNNNN |
| RL RF 50 Ω nter Freq 2.43700 Ref Offset 2.3 dB/div Ref 20.00 c | AC PN AC PN 100000 GHz PN IFG 36 dB | SENSE:] O: Fast → Tri | NVNT b 2 | 2437MHz Align Auto | e: RMS | T Mkr1 | 43 PM Mar 23, 20 RACE 1 2 3 4 5 TYPE PNNNN DET PNNNN |
| RL RF 50 Ω nter Freq 2.43700 Ref Offset 2.3 dB/div Ref 20.00 c | AC PN AC PN 100000 GHz PN IFG 36 dB | SENSE:] O: Fast → Tri | NVNT b 2 | 2437MHz Align Auto | Þ: RMS | T Mkr1 | 43 PM Mar 23, 20 RACE 1 2 3 4 5 TYPE PNNNN DET PNNNN |
| Agilent Spectrum Analyzer - Swep RL RE 50 Ω nter Freq 2.43700 Ref Offset 2.3 dB/div Ref 20.00 c 0 0 | AC PN AC PN 100000 GHz PN IFG 36 dB | SENSE:] O: Fast → Tri | NVNT b 2 | 2437MHz Align Auto | De: RMS | T Mkr1 | 43 PM Mar 23, 20 RACE 1 2 3 4 5 TYPE PNNNN DET PNNNN |
| Agilent Spectrum Analyzer - Swep RL RE 50 Ω nter Freq 2.43700 Ref Offset 2.3 dB/div Ref 20.00 c 0 0 0 0 0 0 | AC PN AC PN 100000 GHz PN IFG 36 dB | SENSE:] O: Fast → Tri | NVNT b 2 | 2437MHz Align Auto | De: RMS | T Mkr1 | 43 PM Mar 23, 20 RACE 1 2 3 4 5 TYPE PNNNN DET PNNNN |
| RL RF 50 Ω nter Freq 2.43700 Ref Offset 2.3 dB/div Ref 20.00 c | AC PN AC PN 100000 GHz PN IFG 36 dB | SENSE:] O: Fast → Tri | NVNT b 2 | 2437MHz Align Auto | e: RMS | T Mkr1 | 43 PM Mar 23, 20 RACE 1 2 3 4 5 TYPE PNNNN DET PNNNN |
| RL RF 50 Ω nter Freq 2.43700 Ref Offset 2.3 dB/div Ref 20.00 c | AC PN AC PN 100000 GHz PN IFG 36 dB | SENSE:] O: Fast → Tri | NVNT b 2 | 2437MHz Align Auto | Pe: RMS | T Mkr1 | 43 PM Mar 23, 203 RACE 1 2 3 4 5 TYPE PNNNN DET PNNNN |
| Agilent Spectrum Analyzer - Swep RL RE 50 Ω Inter Freq 2.43700 Ref 0ffset 2.3 αB/div Ref 20.00 c 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | AC PN AC PN 100000 GHz PN IFG 36 dB | SENSE:] O: Fast → Tri | NVNT b 2 | 2437MHz Align Auto | De: RMS | T Mkr1 | 43 PM Mar 23, 203 RACE 1 2 3 4 5 TYPE PNNNN DET PNNNN |
| RL RF S0 2. nter Freq 2.43700 Ref Offset 2.3 dB/div Ref 20.00 c 0 | AC PN IFG | SENSE:] O: Fast → Tri | NVNT b 2 | 2437MHz Align Auto | De: RMS | T Mkr1 | 43 PM Mar 23, 20 RACE 1, 2, 3, 4 TYPE WINN DET P. NNNN 50.00 m 2.85 dBr |
| RL PF 50 2 nter Freq 2.43700 Ref Offset 2.3 dB/div Ref 20.00 c 0 0 0 0 0 0 0 0 0 0 0 0 0 | AC PN IFG | SENSE:] O: Fast → Tri | NVNT b 2 INT g: Free Run tten: 30 dB | 2437MHz Align Auto | | T Mkr1 | 32 PM Mar 23, 20, 20, 34 RACE 1, 2, 3, 4, 5 TYPE U 2, 3, 4, 5 DET P, NNNN 50,00 m 2,85 dBn 2,85 dBn |
| RL PF S0 0. nter Freq 2.43700 Ref Offset2.3 dB/div Ref 20.00 c 0 | AC PN IFG | C: Fast →→ Tri ain:Low #A: | NVNT b 2 INT | 2437MHz Align Auto | Sweep | Mkr1 1: | 32 PM Mar 23, 20, 20, 34 RACE 1, 2, 3, 4, 5 TYPE U 2, 3, 4, 5 DET P, NNNN 50,00 m 2,85 dBn 2,85 dBn |
| Agilent Spectrum Analyzer - Swep RL RF 50 Ω nter Freq 2.43700 Below Ref 20.00 c Ref Offset 2.3 dB/div Ref 20.00 c 9 9 9 9 9 9 9 9 9 9 9 9 9 | AC PN IFG | O; Fast → Tri ain:Low #A | NVNT b 2 INT | 2437MHz Align Auto #Avg Typ | Sweep | Mkr1 1: | 43 PM Mar 23, 20 43 PM Mar 23, 20 TYPE V 50.00 m 2.85 dBn 50.00 m 2.85 dBn 50.00 m 1.000 m 1.0000 m 1.00000 m 1.0000 m 1.0000 m 1.0000 m 1.0000 m 1.0000 m 1.00000 m 1.00000 m 1.00000 m 1.00000 m 1.0000000 m 1.00000 m 1.000000000000000000000000000000000000 |
| Ref Offset 2.3 Bidiv Ref 20.00 c Bididididididididididididididididididi | AC PN IFG | C: Fast →→ Tri ain:Low #A: | NVNT b 2 INT | 2437MHz Align Auto #Avg Typ | Sweep | Mkr1 1: | 32PM Mar 23, 20, RACE 2, 3, 4 3 TYPE WARNA DET P N N N N 50,00 m 2,85 dBn |
| Agilent Spectrum Analyzer - Swep RL RF 50 Ω nter Freq 2.43700 Ref Offset 2.3 dB/div Ref 20.00 c 0 0 0 0 0 0 0 0 0 0 0 0 0 | AC PN IFG | C: Fast →→ Tri ain:Low #A: | NVNT b 2 INT | 2437MHz Align Auto #Avg Typ | Sweep | Mkr1 1: | 32 PM Mar 23, 20, 20, 34 RACE 1, 2, 3, 4, 5 TYPE U 2, 3, 4, 5 DET P, NNNN 50,00 m 2,85 dBn 2,85 dBn |
| Agilent Spectrum Analyzer - Swep RL RE 50 Ω nter Freq 2.43700 Ref Offset 2.3 dB/div Ref 20.00 c 0 0 0 0 0 0 0 0 0 0 0 0 0 | AC PN IFG | C: Fast →→ Tri ain:Low #A: | NVNT b 2 INT | 2437MHz Align Auto #Avg Typ | Sweep | Mkr1 1: | 32PM Mar 23, 20, RACE 2, 3, 4 3 TYPE WARNA DET P N N N N 50,00 m 2,85 dBn |

No.: BCTC/RF-EMC-005



| Agilent Spectrum Analyzer - Swe RL RF 50 G | | SENSE:II | T | ALIGN AUTO | | 07:45:0 | 04 PM Mar 23, 20 |
|--|--|---|---------------------------|--|---------|---------------|--|
| enter Freq 2.4620 | 00000 GHz | | : Free Run | #Avg Type | RMS | TF | RACE 1 2 3 4 5 |
| | | | ten: 30 dB | | | | |
| Ref Offset 2 | .39 dB | | | | | | 50.00 m 2.42 dBn |
| dB/div Ref 20.00 | aBm | | •1 | | | 14 | 2.42 UDI |
| 0.0 | | | | | | | |
| 0.0 | | | | | | | |
| 0.0 | | | | | | | |
| 0.0 | | | | | | | |
| 0.0 | | | | | | | |
| 0.0 | | | | | | | |
| 0.0 | | | | | | | |
| | <u></u> | | | | | | 0 |
| enter 2.462000000 es BW 8 MHz | GHZ | #VBW 8.0 | MHz | | Sweep | 100.0 ms | Span 0 H (10001 pts |
| KR MODE TRC SCL | X | Y | FUNCTION | FUNCTION WIDTH | Fl | JNCTION VALUE | |
| 1 N 1 t | 50.00 ms | 12.42 dBm | | | | | |
| 3 4 5 | | | | | | | |
| 6 | | | | | | | |
| 7 8 9 | | | | | | | |
| 0 | | | | | | | |
| | | | | | | | |
| G | | | | STATUS | | | |
| A will not for the state | | uty Cycle I | NVNIg | 2412MHz | | | |
| | Ω AC | SENSE:II | T | ALIGN AUTO | DMC | | 2 PM Mar 23, 202 |
| enter Freq 2.4120 | PNC | | j: Free Run ten: 30 dB | #Avg Type | - RIVIS | | RACE 1 2 3 4 5 TYPE WWWWW DET P NNNN |
| | IFGa | in:Low #At | | | | | DET P NNNN |
| | | | | | | | |
| Ref Offset 2 dB/div Ref 20.00 | .35 dB | | | | | Mkr1 | 50.00 m |
| odB/div Ref 20.00 | .35 dB | anendelselentet († 1944) en mediar | | | | Mkr1 | 50.00 m |
| 0 dB/div Ref 20.00 | .35 dB | en van Astan Astan († 1914). Nederlander († 1914) | | | | Mkr1 | 50.00 ms 5.57 dBn |
| 0 dB/div Ref 20.00 | .35 dB | en estel status († 1935) Angel angel ang | | | | Mkr1 | 50.00 m |
| 0 dB/div Ref 20.00 99 40000000000000000000000000000000 | .35 dB | | | | | Mkr1 | 50.00 m |
| dB/div Ref 20.00 9 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 | .35 dB | | | | | Mkr1 | 50.00 m |
| dB/div Ref 20.00 9 | .35 dB | | | | | Mkr1 | 50.00 m |
| dB/div Ref 20.00 9 | .35 dB | | | | | Mkr1 | 50.00 m |
| dB/div Ref 20.00 09 | .35 dB | | | | | Mkr1 | 50.00 m |
| Herein Ref 20.00 9 | .35 dB dBm | | | | | | 50.00 m 8.57 dBn |
| enter 2.412000000 es BW 8 MHz | .35 dB dBm | #VBW 8.0 | MHz | | | Mkr1 { | 50.00 m 8.57 dBn |
| dB:/div Ref 20.00 09 00 00 <td>35 dB dBm intervention interven</td> <td>Y</td> <td>MHz</td> <td></td> <td></td> <td></td> <td>50.00 m 8.57 dBn</td> | 35 dB dBm intervention interven | Y | MHz | | | | 50.00 m 8.57 dBn |
| dB/div Ref 20.00 00 1000 00 1000 00 1000 00 1000 | .35 dB dBm ///////////////////////////////// | | | FUNCTION WIDTH | | Mkr1 { | 50.00 m 8.57 dBn |
| o dB/div Ref 20.00 og Horsey 000 Horsey | 35 dB dBm intervention interven | Y | | FUNCTION WIDTH | | Mkr1 { | 50.00 m 8.57 dBn |
| etc. Ref 20.00 00 1 00 1 00 1 00 1 00 1 | 35 dB dBm intervention interven | Y | | FUNCTION WIDTH | | Mkr1 { | 50.00 m B.57 dBn |
| els/div Ref 20.00 ogg max | 35 dB dBm intervention interven | Y | | FUNCTION WIDTH 1 I I I | | Mkr1 { | 50.00 m B.57 dBn |
| dB/div Ref 20.00 09 | 35 dB dBm intervention interven | Y | | FUNCTION WIDTH | | Mkr1 { | 50.00 m B.57 dBn |



| Agilent Spectrum Analyzer - Sv R L RF 50 | vept SA Ω AC | SENSE:I | NT | ALIGN AUTO | 07.4 | 7:07 PM Mar 23, 202 |
|--|--|---------------------------|---------------------------|----------------|---------------------------------|---------------------------|
| enter Freq 2.4370 | | | | #Avg Type | | TRACE 1 2 3 4 5 |
| | PNO: | | g: Free Run ten: 30 dB | | | |
| Ref Offset 2 | 2.36 dB | | | | Mkr | 50.00 m |
| 0 dB/div Ref 20.00 | | | | | | 9.59 dBn |
| 0.0 abbergrunnan askederen har | | | | | | |
|).00 | | | | | | |
| 0.0 | | | | | | |
| 80.0 | | | | | | |
| 0.0 | | | | | | |
| 0.0 | | | | | | |
| 0.0 | | | | | | |
| 0.0 | | | | | | |
| enter 2.437000000 es BW 8 MHz | GHz | #VBW 8.0 | MHz | | Sweep 100.0 m | Span 0 H: s (10001 pts |
| KR MODE TRC SCL | Х | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE | |
| 1 N 1 t 2 | 50.00 ms | 9.59 dBm | | | | |
| 3 | | | | | | |
| 5 | | | | | | |
| 7 8 9 | | | | | | |
| 0 | | | | | | |
| | | | ш | | | • |
| G | | | D () = | STATUS | | |
| Agilent Spectrum Analyzer - Sv | | ity Cycle I | NVNIg | 2462MHz | | |
| RL RF 50 | Ω AC | SENSE:I | NT | ALIGN AUTO | | 3:05 PM Mar 23, 202 |
| enter Freq 2.4620 | PNO: | | g: Free Run ten: 30 dB | #Avg Type | . NH3 | TRACE 12345 TYPE W |
| | | n:Low #At | ten. oo ub | | Mkr | 1 50.00 ms |
| Ref Offset 2 dB/div Ref 20.00 | | | | | | 6.46 dBn |
| •g 0.0 <mark>statisticationalizat</mark> | er ser sime Arizensia en barrier des des | - | | | | en hendertid verdangda |
| | | | | | | |
| 0.0 | | | | | | |
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| RL RF 50 enter Freg 2.4370 | Ω AC | SENSE:I | NT | ALIGN AUTO #Avg Typ | e: RMS | TF | 3 PM Mar 23, 20 |
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| Def Offered | | in:Low #At | ten: 30 dB | | | | |
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| Agilent Spectrum Analyzer - Sw | | | ward | | | | |
|--|---|--|--------------------------------------|------------------------|--|--|--|
| RL RF 50 enter Freq 2.4620 | Ω AC | SENSE | | ALIGN AUTO #Avg Typ | e: RMS | TF | 9 PM Mar 23, 20 RACE 1 2 3 4 5 |
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| es BW 8 MHz | | #VBW 8 | | | | 100.0 ms | (10001 pts |
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| G | | | | STATUS | | | |
| | Du | uty Cycle N | VNT n4 | 0 2422MHz | 7 | | |
| Agilent Spectrum Analyzer - Sw | vept SA | | | | | | |
| RL RF 50 | | | | | | | |
| | Ω AC 000000 GHz | SENSE | | ALIGN AUTO #Avg Typ | e: RMS | TF | 3 PM Mar 23, 20 |
| | 000000 GHz | NO: Fast ↔ Ti | int rig: Free Run Atten: 30 dB | | e: RMS | TF | 3 PM Mar 23, 20 |
| enter Freq 2.4220 | DOOOOO GHz PI IFC | NO: Fast Ti | rig: Free Run | | e: RMS | TF | 3 PM Mar 23, 20 RACE 1 2 3 4 5 TYPE WWWWW DET P N N N |
| Ref Offset 2 0 dB/div Ref 20.00 | 000000 GHz PI IFC 2.35 dB | NO: Fast ↔ Ti | rig: Free Run | | e: RMS | TF Mkr1 | 3 PM Mar 23, 20 RACE 1 2 3 4 5 TYPE WWWW DET P NNNN |
| Ref Offset 2 GB/div Ref 20.00 | 2.35 dB I dBm | NO: Fast ↔ Ti Gain:Low #/ | rig: Free Run | | e: RMS | TF Mkr1 | 3 PM Mar 23, 20 RACE 1 2 3 4 5 TYPE WWWW DET P NNNN |
| Ref Offset 2 dB/div Ref 20.00 | 2.35 dB I dBm | NO: Fast ↔ Ti | rig: Free Run | | e: RMS | TF Mkr1 | 3 PM Mar 23, 20 RACE 1 2 3 4 5 TYPE WWWW DET P NNNN |
| Ref Offset 2 dB/div Ref 20.00 | 2.35 dB I dBm | NO: Fast ↔ Ti Gain:Low #/ | rig: Free Run | | e: RMS | TF Mkr1 | 3 PM Mar 23, 20 RACE 1 2 3 4 5 TYPE WWWW DET P NNNN |
| Ref Offset 2 GB/div Ref 20.00 | 2.35 dB I dBm | NO: Fast ↔ Ti Gain:Low #/ | rig: Free Run | | e: RMS | TF Mkr1 | 3 PM Mar 23, 201 ACCE 1 2 3 4 5 TYPE WWWW 50.00 mt 555 dBm |
| Ref Offset 2 dB/div Ref 20.00 | 2.35 dB I dBm | NO: Fast ↔ Ti Gain:Low #/ | rig: Free Run | | e: RMS | TF Mkr1 | 3 PM Mar 23, 20 RACE 1 2 3 4 5 TYPE WWWW DET P NNNN |
| Ref Offset 2 d B/div Ref 20.00 d b/div Ref 20.00 | 2.35 dB I dBm | NO: Fast ↔ Ti Gain:Low #/ | rig: Free Run | | e: RMS | TF Mkr1 | 3 PM Mar 23, 203 RACE 1 2 3 4 5 TYPE WWWW DET P NNNN |
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| Ref Offset 2 dB/div Ref 20.00 dB/div Ref 20.00 db/di db/di db/div Ref 20.00 db/div Ref 20.00 db/div Ref 20.00 db | 2.35 dB I dBm | NO: Fast ↔ Ti Gain:Low #/ | rig: Free Run | | | TF Mkr1 | 3 PM Mar 23, 203 RACE 1 2 3 4 5 TYPE WWWW DET P NNNN |
| Ref Offset 2 0 dB/div Ref Offset 2 0 dB/div Ref 20.00 | 2000000 GHz PI IFC 2.35 dB 0 dBm | NO: Fast \rightarrow The Sain: Low #4 | rig: Free Run Atten: 30 dB | | | | 3 PM Mar 23, 2020 ACE 12 2 3 5 PTPEE WHINN 50,00 m 5,55 dBr 1000 1 |
| enter Freq 2.4220 | 000000 GHz Pile 2.35 dB 0 dBm 44444 and 1444 and | NO: Fast ↔ Ti Gain:Low #/ | rig: Free Run Atten: 30 dB | #Avg Typ | Sweep | 100.0 ms | 3 PM Mar 23, 2020 ACE 12 2 3 5 PTPEE WHINN 50,00 m 5,55 dBr 1000 1 |
| Ref Offset 2 dB/div Ref 20.00 29 Ref 20.00 29 Ref 20.00 29 Ref 20.00 20 Ref 20.00 | 2000000 GHz PI IFC 2.35 dB 0 dBm | NO: Fast \rightarrow The Sain: Low #4 | rig: Free Run Atten: 30 dB | | Sweep | | 3 PM Mar 23, 2020 ACE 12 2 3 5 PTPEE WHINN 50,00 m 5,55 dBr 1000 1 |
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| Agilent Spectrum Analyzer - Sw RL RF 50 | vept SA Ω AC | SENSE:I | NT | ALIGN AUTO | | 07:50:5 | 51 PM Mar 23, 202 |
|---|---|--|--|---|--|---|--|
| enter Freq 2.4370 | 000000 GHz | | | #Avg Typ | e: RMS | TI | RACE 1 2 3 4 5 |
| | | | g: Free Run tten: 30 dB | | | | |
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| es BW 8 MHz | | #VBW 8.0 |) MHz | | Sweep | 100.0 ms | (10001 pts |
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| G | | | | STATUS | | | |
| | | ty Cycle N | VNI n40 |) 2452MHz | | | |
| | Ω AC | SENSE:I | NT | ALIGN AUTO | | | D7 PM Mar 23, 202 |
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| | IFG | ain:Low #At | ten: 30 dB | | | | 50.00 m |
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| Image: Second | x | Y | | FUNCTION W/DTH | | | |
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| Instant and the second of the secon | x | Y | | FUNCTION WIDTH | | | |



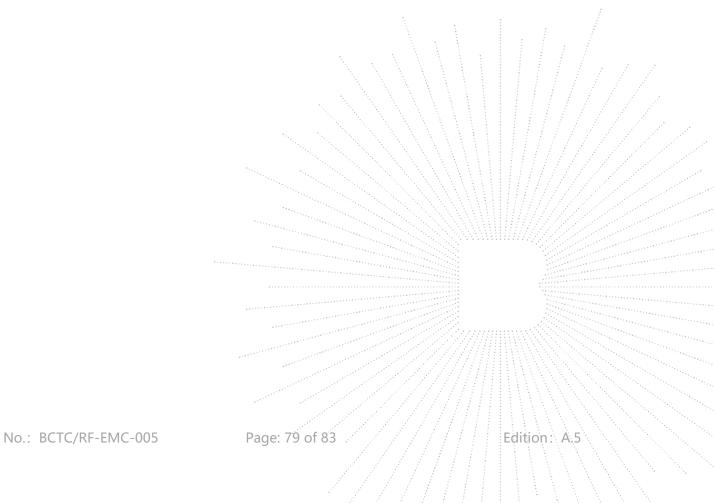
14. Antenna Requirement

14.1 Limit

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.

14.1 Test Result

The EUT antenna is Internal antenna, fulfill the requirement of this section.





15. EUT Photographs

EUT Photo



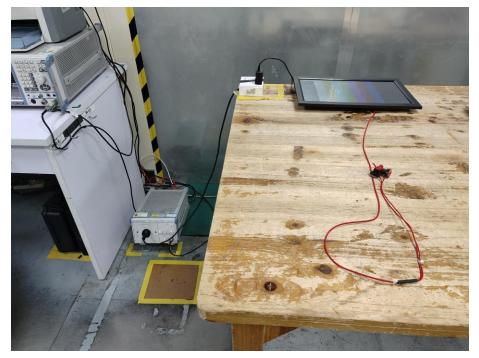
NOTE: Appendix-Photographs Of EUT Constructional Details

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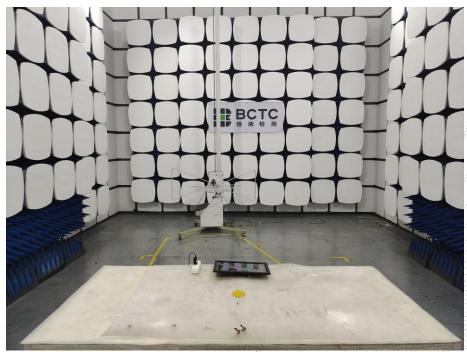


16. EUT Test Setup Photographs

Conducted emissions



Radiated Measurement Photos

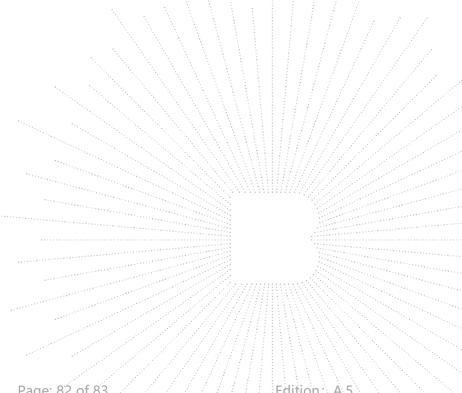


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STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.

8. The quality system of our laboratory is in accordance with ISO/IEC17025.

9. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: http://www.chnbctc.com

E-Mail: bctc@bctc-lab.com.cn

***** END *****

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