

FCC TEST REPORT

FCC ID: 2A5WY-Y1013

Report No. : SSP24040096-1E

Applicant : Dongguan Nuomi Innovation Technology Co., Ltd.

Product Name : 433Remote Control

Model Name : Y1013

Test Standard : FCC Part 15.231

Date of Issue : 2024-04-17




Shenzhen CCUT Quality Technology Co., Ltd.

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This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

Test Report Basic Information

| | | |
|--|---|---|
| Applicant: | Dongguan Nuomi Innovation Technology Co., Ltd. Room 301, Building 3, No. 8, Shajingkeng Road, Liaobu Town, Dongguan City, Address of Applicant.....: Guangdong Province, China | |
| Manufacturer: | Dongguan Nuomi Innovation Technology Co., Ltd. Room 301, Building 3, No. 8, Shajingkeng Road, Liaobu Town, Dongguan City, Address of Manufacturer.....: Guangdong Province, China | |
| Product Name: | 433Remote Control | |
| Brand Name: | LYRIDZ | |
| Main Model: | Y1013 | |
| Series Models: | - | |
| Test Standard: | FCC Part 15 Subpart C ANSI C63.4-2014 ANSI C63.10-2013 | |
| Date of Test | 2024-04-11 to 2024-04-16 | |
| Test Result: | PASS | |
| Tested By | <u>Walker Wu</u> (Walker Wu) |  |
| Reviewed By: | <u>Lieber Ouyang</u> (Lieber Ouyang) | |
| Authorized Signatory: | <u>Lahm Peng</u> (Lahm Peng) | |
| <p>Note : This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample.</p> | | |

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Revision History

| Revision | Issue Date | Description | Revised By |
|----------|------------|-----------------|------------|
| V1.0 | 2024-04-17 | Initial Release | Lahm Peng |
| | | | |
| | | | |
| | | | |
| | | | |

1. General Information

1.1 Product Information

| | |
|---|-------------------------|
| Product Name: | 433Remote Control |
| Trade Name: | LYRIDZ |
| Main Model: | Y1013 |
| Series Models: | - |
| Rated Voltage: | DC 3V by CR2032 battery |
| Hardware Version: | V1.0 |
| Software Version: | V1.0 |
| Note 1: The test data is gathered from a production sample, provided by the manufacturer. | |

| Wireless Specification | |
|------------------------|--|
| Operating Frequency: | 433.92MHz |
| Max. Field Strength: | 81.22dBuV/m |
| Modulation: | ASK |
| Antenna Gain: | -0.58dBi |
| Type of Antenna: | PCB Antenna |
| Type of Device: | <input checked="" type="checkbox"/> Portable Device <input type="checkbox"/> Mobile Device <input type="checkbox"/> Modular Device |

1.2 Test Setup Information

| List of Test Modes | | | |
|---|--------------|---------------------|----------------------|
| Test Mode | Description | Remark | |
| TM1 | Transmitting | 433.92MHz | |
| TM2 | -- | -- | |
| List and Details of Auxiliary Cable | | | |
| Description | Length (cm) | Shielded/Unshielded | With/Without Ferrite |
| - | - | - | - |
| List and Details of Auxiliary Equipment | | | |
| Description | Manufacturer | Model | Serial Number |
| - | - | - | - |

1.3 Compliance Standards

| | |
|---|--|
| Compliance Standards | |
| FCC Part 15 Subpart C | FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators |
| All measurements contained in this report were conducted with all above standards | |
| According to standards for test methodology | |
| FCC Part 15 Subpart C | FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators |
| ANSI C63.4-2014 | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. |
| ANSI C63.10-2013 | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices |
| Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which result is lowering the emission, should be checked to ensure compliance has been maintained. | |

1.4 Test Facilities

| | |
|--|---|
| Laboratory Name: | Shenzhen CCUT Quality Technology Co., Ltd. 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China |
| CNAS Laboratory No.: | L18863 |
| A2LA Certificate No.: | 6893.01 |
| FCC Registration No: | 583813 |
| ISED Registration No.: | CN0164 |
| All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China. | |

1.5 List of Measurement Instruments

| Description | Manufacturer | Model | Serial Number | Cal. Date | Due. Date |
|-----------------------------|---------------|----------------|---------------|------------|------------|
| Conducted Emissions | | | | | |
| AMN | ROHDE&SCHWARZ | ENV216 | 101097 | 2023-10-21 | 2024-10-20 |
| EMI Test Receiver | ROHDE&SCHWARZ | ESPI | 100242 | 2023-07-31 | 2024-07-30 |
| Radiated Emissions | | | | | |
| EMI Test Receiver | ROHDE&SCHWARZ | ESPI | 100154 | 2023-07-31 | 2024-07-30 |
| Spectrum Analyzer | KEYSIGHT | N9020A | MY48030972 | 2023-07-31 | 2024-07-30 |
| Spectrum Analyzer | ROHDE&SCHWARZ | FSV40-N | 101692 | 2023-07-31 | 2024-07-30 |
| Amplifier | SCHWARZBECK | BBV 9743B | 00251 | 2023-07-31 | 2024-07-30 |
| Amplifier | HUABO | YXL0518-2.5-45 | -- | 2023-07-31 | 2024-07-30 |
| Loop Antenna | DAZE | ZN30900C | 21104 | 2023-08-07 | 2024-08-06 |
| Broadband Antenna | SCHWARZBECK | VULB 9168 | 01320 | 2023-08-07 | 2024-08-06 |
| Horn Antenna | SCHWARZBECK | BBHA 9120D | 02553 | 2023-08-07 | 2024-08-06 |
| Conducted RF Testing | | | | | |
| RF Test System | MWRFTest | MW100-RFCB | 220418SQS-37 | 2023-07-31 | 2024-07-30 |
| Spectrum Analyzer | KEYSIGHT | N9020A | ATO-90521 | 2023-07-31 | 2024-07-30 |

1.6 Measurement Uncertainty

| Test Item | Conditions | Uncertainty |
|---------------------|--------------|-------------|
| Conducted Emissions | 9kHz ~ 30MHz | ±1.64 dB |
| Radiated Emissions | 9kHz ~ 30MHz | ±2.88 dB |
| | 30MHz ~ 1GHz | ±3.32 dB |
| | 1GHz ~ 18GHz | ±3.50 dB |
| Transmission Time | 9kHz ~ 26GHz | ±1.0 % |
| Occupied Bandwidth | 9kHz ~ 26GHz | ±4.0 % |

2. Summary of Test Results

| FCC Rule | Description of Test Item | Result |
|---------------------------------|--------------------------|--------|
| FCC Part 15.203 | Antenna Requirement | Passed |
| FCC Part 15.207 | Conducted Emissions | N/A |
| FCC Part 15.209, 15.231(b) | Radiated Emissions | Passed |
| FCC Part 15.231(c) | Occupied Bandwidth | Passed |
| FCC Part 15.231(a) | Transmission Time | Passed |
| FCC Part 15.231(b)(2), 15.35(c) | Duty Cycle | Passed |

Passed: The EUT complies with the essential requirements in the standard
Failed: The EUT does not comply with the essential requirements in the standard
N/A: Not applicable

3. Antenna Requirement

3.1 Standard and Limit

According to FCC Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Test Result

This product has an PCB antenna, fulfill the requirement of this section.

4. Conducted Emissions

4.1 Standard and Limit

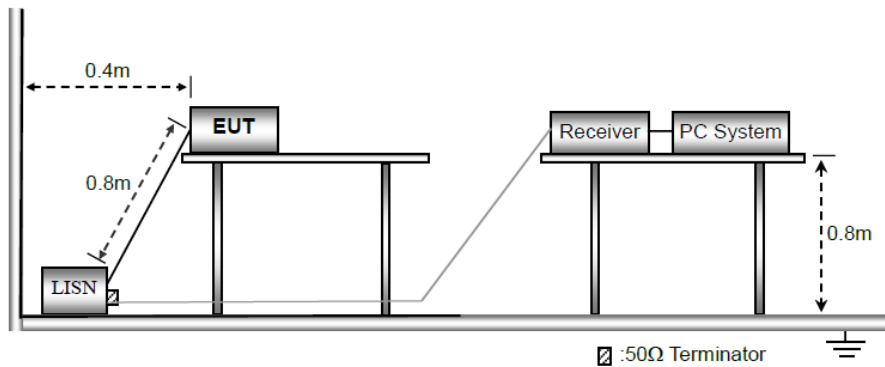
According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

| Frequency of Emission (MHz) | Conducted emissions (dBuV) | |
|-----------------------------|----------------------------|----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56 | 56 to 46 |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz
 Note 2: The lower limit applies at the band edges

4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.2.



Test Setup Block Diagram

a) 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.

b) The following is the setting of the receiver

Attenuation: 10dB

Start Frequency: 0.15MHz

Stop Frequency: 30MHz

IF Bandwidth: 9kHz

c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

d) 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 40 cm long.

e) 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.

f) LISN is at least 80 cm from nearest part of EUT chassis.

g) For the actual test configuration, please refer to the related Item - photographs of the test setup.

4.3 Test Data and Results

Because the product power is supply through DC 3V by CR2032 battery, so not applicable.

5. Radiated Emissions

5.1 Standard and Limit

According to §15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following.

| Fundamental Frequency (MHz) | Field Strength of Fundamental (micorvolts/meter) | Field Strength of Spurious Emissions (micorvolts/meter) |
|-----------------------------|--|---|
| 40.66 - 40.70 | 2250 | 225 |
| 70 - 130 | 1250 | 125 |
| 130 - 174 | 1250 to 3750 | 125 to 375 |
| 174 - 260 | 3750 | 375 |
| 260 - 470 | 3750 to 12500 | 375 to 1250 |
| Above 470 | 12500 | 1250 |

Note: Linear interpolations

According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

| Frequency of Emission (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|-----------------------------|-----------------------------------|-------------------------------|
| 0.009~0.490 | 2400/F(kHz) | 300 |
| 0.490~1.705 | 24000/F(kHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note: The more stringent limit applies at transition frequencies.

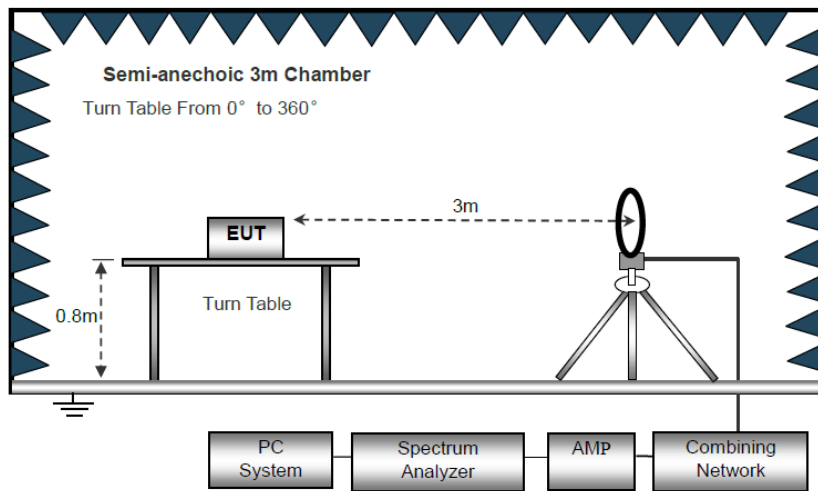
The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in §15.209, whichever limit permits a higher field strength.

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

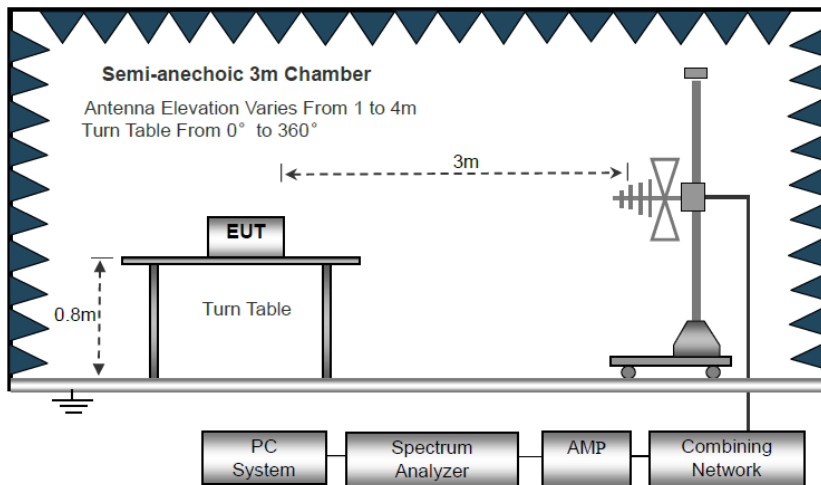
Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

5.2 Test Procedure

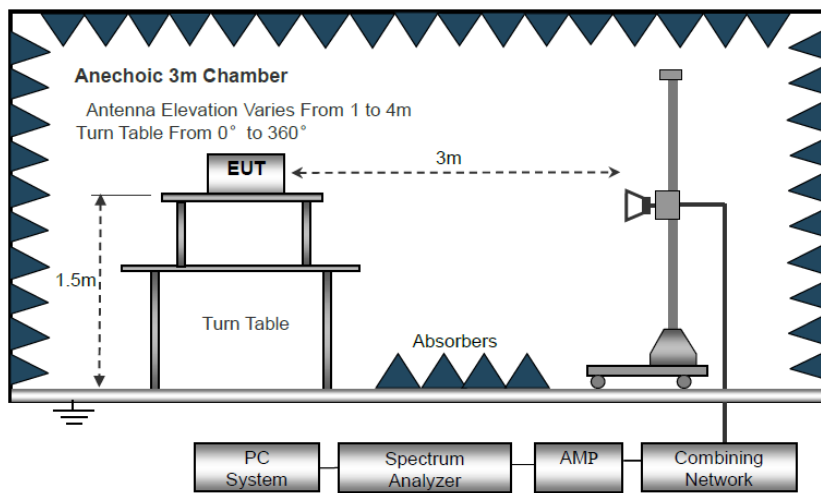
Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.



Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

- a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range below 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.
- b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- c) Use the following spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured
RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 kHz for $f < 1\text{GHz}$, 10kHz for $f < 30\text{MHz}$
VBW \geq RBW, Sweep = auto
Detector function = peak
Trace = max hold
- d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.
- f) For the actual test configuration, please refer to the related item - EUT test photos.

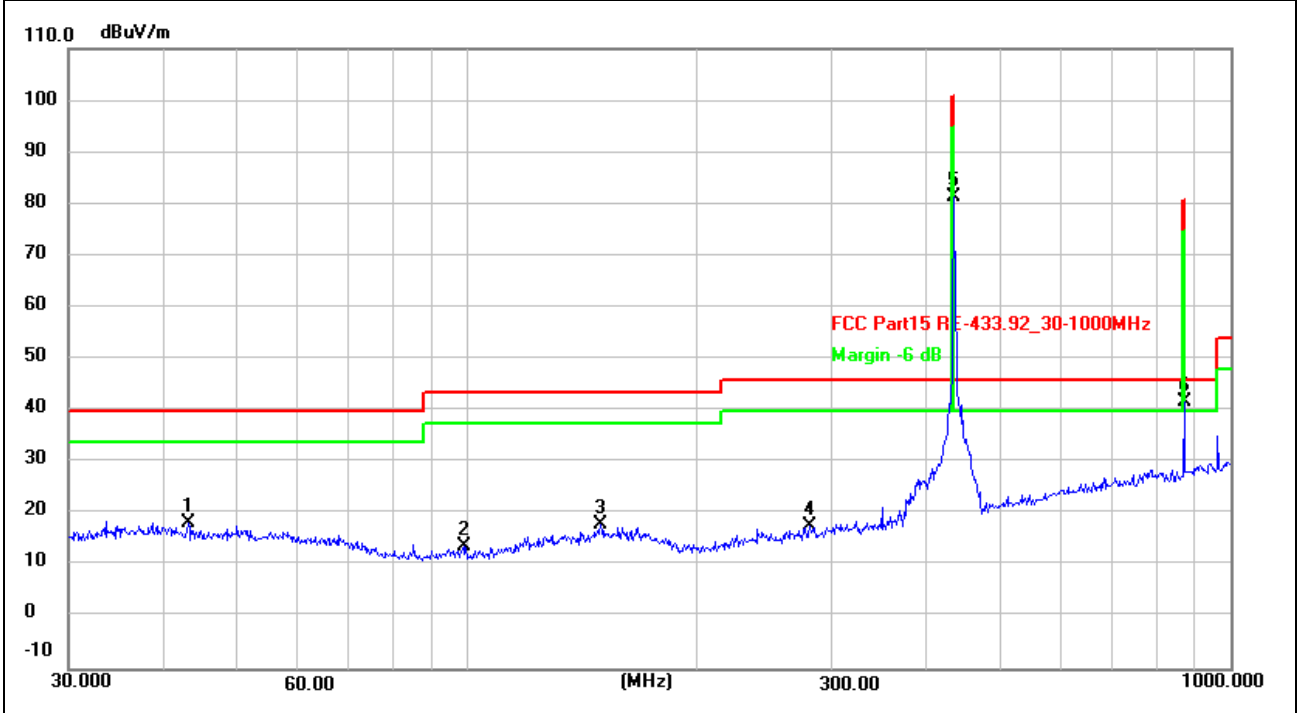
5.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.231 and 15.209 standard limit for a wireless device, and with the worst case as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

Radiated Emission Test Data (30MHz to 1GHz)

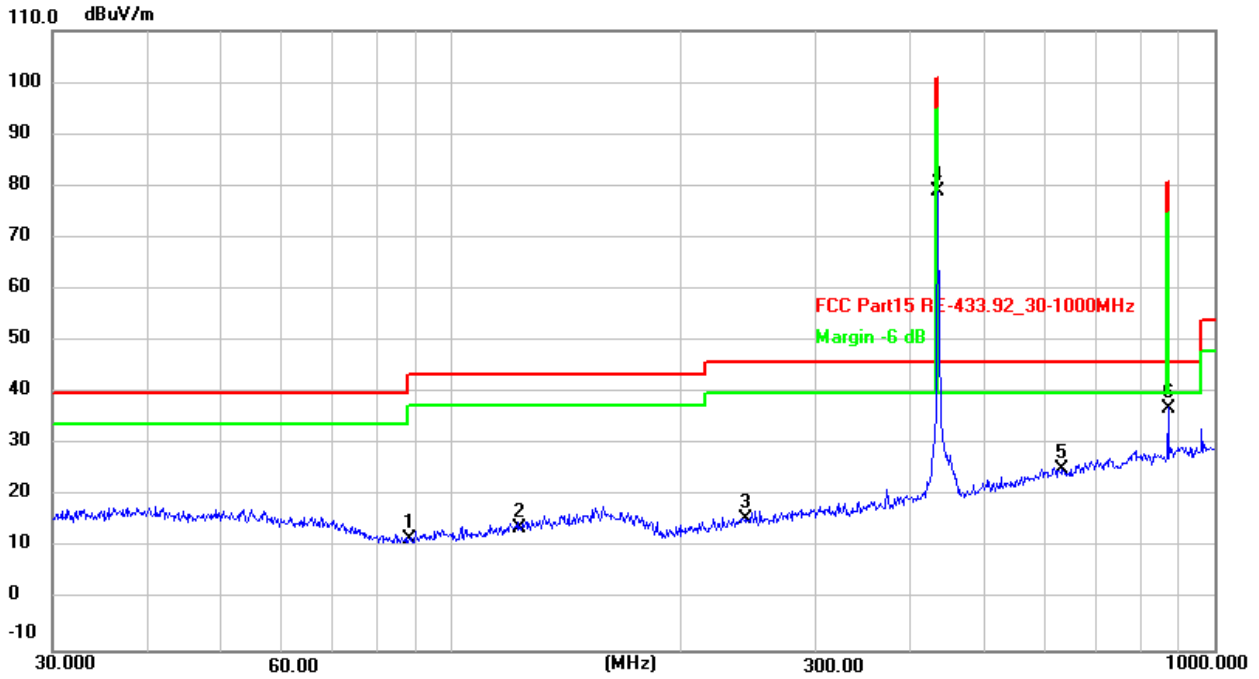
| | |
|----------------------------|------------|
| Tested Mode: | TM1 |
| Test Antenna Polarization: | Horizontal |
| Remark: | |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 | 43.0504 | 27.00 | -8.79 | 18.21 | 40.00 | -21.79 | QP | 100 | 95 | P | |
| 2 | 98.8324 | 26.59 | -12.73 | 13.86 | 43.50 | -29.64 | QP | 100 | 197 | P | |
| 3 | 149.4857 | 26.80 | -8.68 | 18.12 | 43.50 | -25.38 | QP | 100 | 32 | P | |
| 4 | 281.0074 | 26.67 | -8.78 | 17.89 | 46.00 | -28.11 | QP | 100 | 11 | P | |
| 5 * | 433.9200 | 86.58 | -5.36 | 81.22 | 100.80 | -19.58 | peak | 100 | 117 | P | |
| 6 | 867.8400 | 39.15 | 2.55 | 41.70 | 80.80 | -39.10 | peak | 100 | 360 | P | |

Radiated Emission Test Data (30MHz to 1GHz)

| | |
|----------------------------|----------|
| Tested Mode: | TM1 |
| Test Antenna Polarization: | Vertical |
| Remark: | |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 | 88.0330 | 25.25 | -13.39 | 11.86 | 43.50 | -31.64 | QP | 100 | 134 | P | |
| 2 | 122.8340 | 24.19 | -10.41 | 13.78 | 43.50 | -29.72 | QP | 100 | 175 | P | |
| 3 | 242.5252 | 25.45 | -9.88 | 15.57 | 46.00 | -30.43 | QP | 100 | 338 | P | |
| 4 | 433.9200 | 84.40 | -5.36 | 79.04 | 100.80 | -21.76 | peak | 100 | 318 | P | |
| 5 * | 631.6883 | 26.01 | -0.71 | 25.30 | 46.00 | -20.70 | QP | 100 | 7 | P | |
| 6 | 867.8400 | 34.55 | 2.55 | 37.10 | 80.80 | -43.70 | peak | 100 | 267 | P | |

| Radiated Emission Test Data (Below 1GHz) | | | | | | | |
|--|---------|---------|--------|--------|--------|-------|----------|
| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
| MHz | dBuV/m | dB/m | dBuV/m | dBuV/m | dB | H/V | PK/AV |
| 433.92 | 81.22 | -5.86 | 75.36 | 80.8 | -5.44 | H | AV |
| 867.84 | 41.70 | -5.86 | 35.84 | 60.8 | -24.69 | H | AV |
| 433.92 | 79.04 | -5.86 | 73.18 | 80.8 | -7.62 | V | AV |
| 867.84 | 37.10 | -5.86 | 31.24 | 60.8 | -29.56 | V | AV |

| Radiated Emission Test Data (Above 1GHz) | | | | | | | |
|--|---------|---------|--------|--------|--------|-------|----------|
| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
| MHz | dBuV/m | dB/m | dBuV/m | dBuV/m | dB | H/V | PK/AV |
| 1301.76 | 77.28 | -24.55 | 52.73 | 74 | -21.27 | H | PK |
| 1301.76 | 52.73 | -5.86 | 46.87 | 54 | -7.13 | H | AV |
| 1735.68 | 75.08 | -23.71 | 51.37 | 80.8 | -29.43 | H | PK |
| 1735.68 | 51.37 | -5.86 | 45.51 | 60.8 | -15.29 | H | AV |
| 1301.76 | 76.02 | -24.55 | 51.47 | 74 | -22.53 | V | PK |
| 1301.76 | 51.47 | -5.86 | 45.61 | 54 | -8.39 | V | AV |
| 1735.68 | 76.73 | -23.71 | 53.02 | 80.8 | -27.78 | V | PK |
| 1735.68 | 53.02 | -5.86 | 47.16 | 60.8 | -13.64 | V | AV |

Note 1: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Note 2: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

Note 3: Other emissions are attenuated 20dB below the limits from 9kHz to 30MHz, so it does not recorded report, above 1GHz not recorded for no spurious point have a margin of less than 6 dB with respect to the limits.

Note 4: Avg Emission Level=Peak Emission Level + Duty Cycle Factor, Duty Cycle Factor =-5.86.(refer to section 8 of this report)

6. Occupied Bandwidth

6.1 Standard and Limit

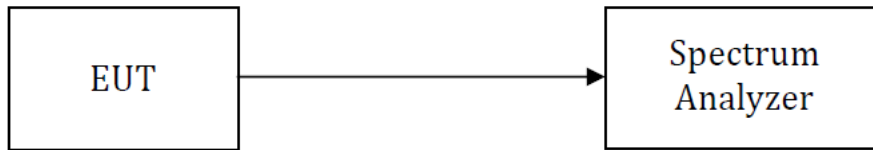
According to FCC Part 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

6.2 Test Procedure

According to the ANSI 63.10-2013, section 6.9, the emission bandwidth test method as follows.

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
 - 2) Set the spectrum analyzer to any one measured frequency within its operating range.
 - 3) Set RBW to 1%~5% of bandwidth, VBW = 3RBW, Sweep = Auto.
 - 4) Set a reference level on the measuring instrument equal to the highest peak value.
 - 5) Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level.
- Record the frequency difference as the emission bandwidth.

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.

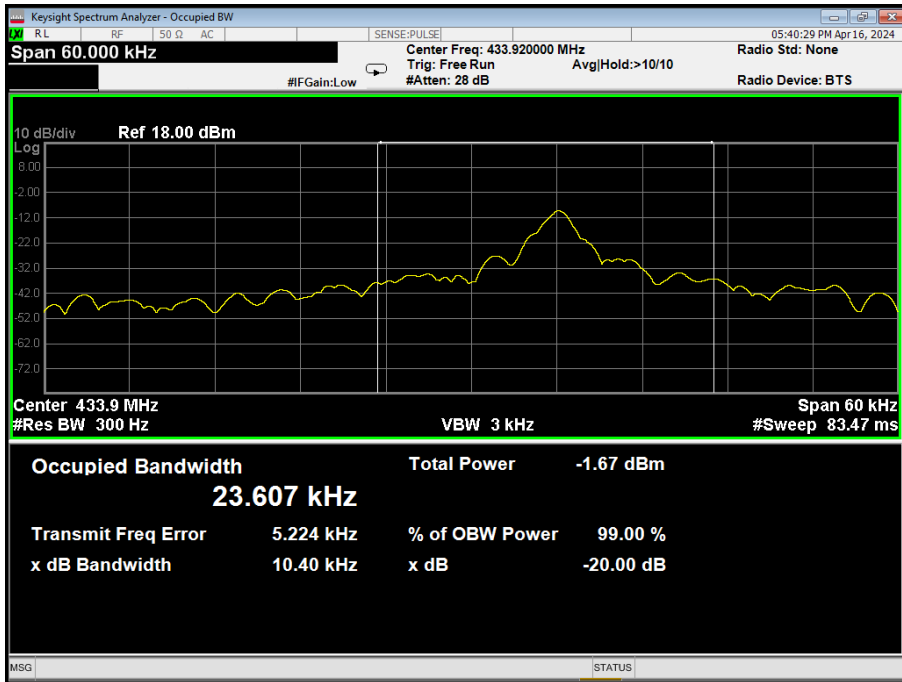


Test Setup Block Diagram

6.3 Test Data and Results

| Test Channel (MHz) | 20dB Bandwidth (kHz) | 99% Bandwidth (kHz) | Limit (kHz) | Test Result |
|--------------------|----------------------|---------------------|-------------|-------------|
| 433.92MHz | 10.40 | 23.607 | 1084.8 | Pass |

Test Plots of 20dB Bandwidth



7. Transmission Time

7.1 Standard and Limit

According to FCC Part 15.231 (a), the transmitter shall be complied the following requirements:

- 1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- 2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.
- 3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.

7.2 Test Procedure

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the center frequency of the spectrum analyzer to the transmitter’s operating frequency.
- 3) Set RBW = 100Hz, VBW = 300KHz, Detector = RMS.
- 4) Set the spectrum analyzer to Zero Span and adjust sweep time for the release time reading.
- 5) During the testing, the switch was released then the EUT automatically deactivated.

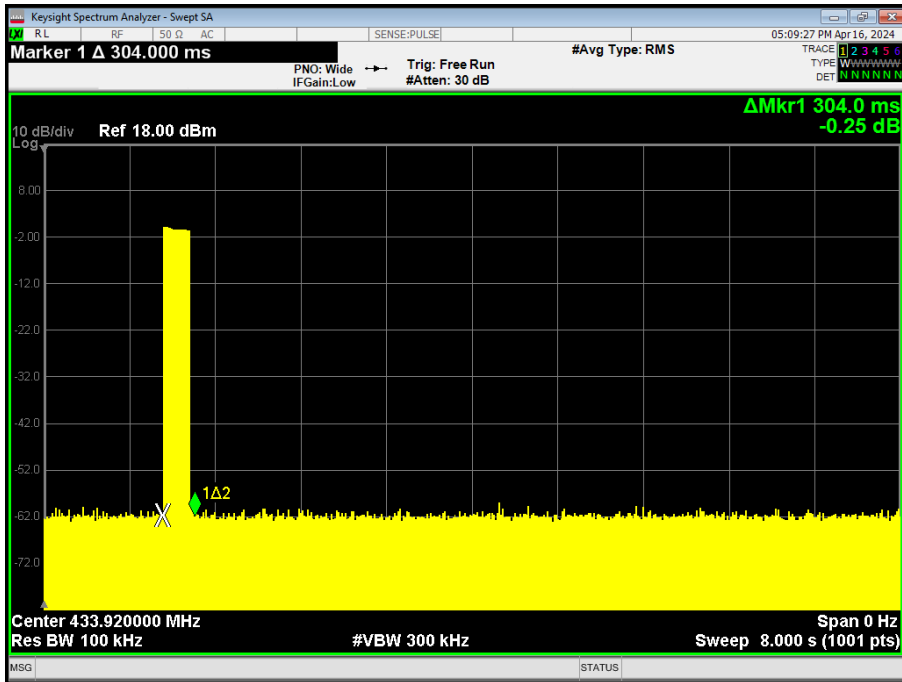


Test Setup Block Diagram

7.3 Test Data and Results

| Transmission Type | Test Frequency (MHz) | Transmission Time (s) | Limit (s) | Result |
|-------------------|----------------------|-----------------------|-----------|--------|
| Manually | 433.92 | 0.304 | 5 | Pass |

Test Plots of Transmission Time



8. Duty Cycle

8.1 Standard and Limit

According to FCC Part 15.231 (b)(2) and 15.35 (c), For pulse operation transmitter, the averaging pulsed emissions are calculated by peak value of measured emission plus duty cycle factor.

8.2 Test Procedure

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the center frequency of the spectrum analyzer to the transmitter’s operating frequency.
- 3) Set RBW = 100KHz, VBW = 300KHz, Detector = RMS.
- 4) Set the spectrum analyzer to Zero Span and adjust sweep time for the release time reading.
- 5) During the testing, the switch was released then the EUT automatically deactivated.



Test Setup Block Diagram

8.3 Test Data and Results

| Type of Pulse | Width of Pulse ms | Quantity of Pulse | Transmission Time ms | Total Time(T _{on}) ms |
|---------------|----------------------|-------------------|-------------------------|------------------------------------|
| Pulse 1 | 0.45 | 13 | 5.85 | 14.76 |
| Pulse 2 | 0.81 | 11 | 8.91 | |

| Test Period (T _p) ms | Total Time (T _{on}) ms | Duty Cycle % | Duty Cycle Factor dB |
|-------------------------------------|-------------------------------------|-----------------|-------------------------|
| 29 | 14.76 | 50.9 | -5.86 |

Note:

1. T_{on} = Pulse 1* Quantity of Pulse + Pulse 2* Quantity of Pulse+...Pulse N* Quantity of Pulse
2. Duty Cycle = (T_{on}/ T_p)*100%
3. Duty Cycle Factor = 20log(Duty Cycle)

Test Plots of Duty Cycle



***** END OF REPORT *****