



FCC RF Test Report

APPLICANT : Ningbo Fu Jin Garden Irrigation Equipment Co., Ltd.
EQUIPMENT : RF water timer
MODEL NAME : FJRF012C
FCC ID : 2BHDG-FJRF012C
STANDARD : 47 CRF Part 15 Subpart C §15.231
CLASSIFICATION : (DSC) Security/Remote Control Transmitter
TEST DATE(S) : Jun. 22, 2025 ~ Jul. 22, 2025

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

Sportun International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China



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A1. Test Result of 20dB Bandwidth

APPENDIX B. TEST RESULTS OF RADIATED TEST ITEMS

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REVISION HISTORY



SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart C				
Report Section	FCC Rule	Description of Test	Result	Remark
-	15.207	AC Power Line Conducted Emissions	Not Applicable	Not connect to AC mains
3.1	15.231(a)	Types of Momentary Signals	Pass	-
3.2	15.231(c)	20dB Bandwidth	Pass	-
3.3	15.231(b) 15.205 15.209	Field Strength of Fundamental and Spurious Emissions	Pass	Under limit 1.14 dB at 433.85 MHz
3.4	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1. General Information

1.1 Applicant

Ningbo Fu Jin Garden Irrigation Equipment Co., Ltd.

No. 3 Hengyi Road, Yangming Street, Yuyao City, Ningbo City, Zhejiang Province, China

1.2 Manufacturer

Ningbo Fu Jin Garden Irrigation Equipment Co., Ltd.

No. 3 Hengyi Road, Yangming Street, Yuyao City, Ningbo City, Zhejiang Province, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	RF water timer
Model Name	FJRF012C
FCC ID	2BHDG-FJRF012C
HW Version	1.0.0
SW Version	1.1.9
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	433.92MHz
Channel Number	1
20dB Bandwidth	53.84 kHz
Antenna Type	Spring Antenna
Antenna Gain	-3.0 dBi
Modulation	FSK

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Testing Location

Sportun International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sportun International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sportun Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-KS 03CH06-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	FCC 15C-15E Test Tools Ver10.0_210607	10.0
2.	03CH06-KS	AUDIX	E3	210616

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C §15.231
- ANSI C63.10-2013

2. Test Configuration of Equipment Under Test

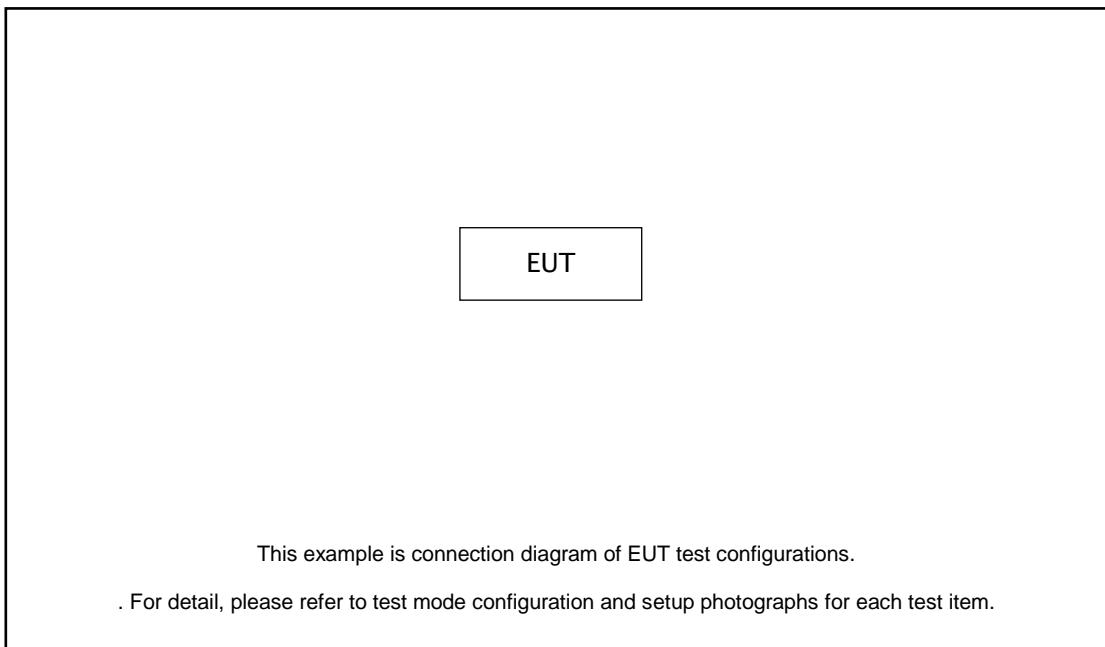
2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations for searching the worst cases.

The following table is a list of the test modes shown in this test report.

Summary table of Test Cases	
Test Item	Modulation
	FSK
Conducted TCs	Mode 1: 433.92 MHz Tx
Radiated TCs	Mode 1: 433.92 MHz Tx

2.2 Connection Diagram of Test System



2.3 EUT Operation Test Setup

The EUT was programmed to be in transmitting mode.



3. Test Results

3.1 Types of Momentarily Operated Devices

3.1.1 Limit

<input type="checkbox"/>	§15.231 (a)(1); A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
<input checked="" type="checkbox"/>	§15.231 (a)(2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.
<input type="checkbox"/>	§15.231 (a)(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.
<input type="checkbox"/>	§15.231 (a)(4) Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.
<input type="checkbox"/>	§15.231 (a)(5) Transmission of set-up information for security systems may exceed the transmission duration limits in paragraphs (a)(1) and (a)(2) of this section, provided such transmissions are under the control of a professional installer and do not exceed ten seconds after a manually operated switch is released or a transmitter is activated automatically. Such set-up information may include data.

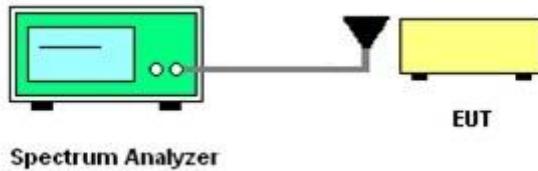
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

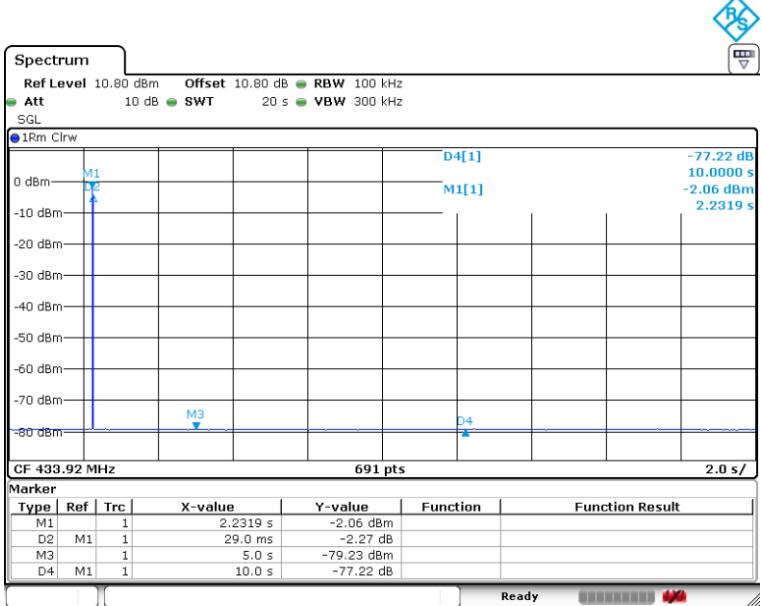
3.1.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT.
2. After turning on the EUT, the device enters the automatic activation transmission state.
3. The spectrum is set to a measurement frequency within the EUT's operating range
4. The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were used.
5. Marking the highest point and edge transmission time on the spectrum.
6. Measured the transmission period of EUT under specified condition.

3.1.4 Test Setup



3.1.5 Test Result of transmission time

<input checked="" type="checkbox"/>	<p>§15.231 (a)(2)</p> <p>A transmitter activated automatically shall cease transmission within 5 seconds after activation.</p>																																				
	 <p>Spectrum</p> <p>Ref Level 10.80 dBm Offset 10.80 dB RBW 100 kHz</p> <p>Att 10 dB SWT 20 s VBW 300 kHz</p> <p>SGL</p> <p>18m Clrw</p> <p>M1</p> <p>M2</p> <p>M3</p> <p>M4</p> <p>D4[1]</p> <p>M1[1]</p> <p>-77.22 dB 10.0000 s -2.06 dBm 2.2319 s</p> <p>CF 433.92 MHz 691 pts 2.0 s/</p> <p>Marker</p> <table border="1"><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td></td><td>1</td><td>2.2319 s</td><td>-2.06 dBm</td><td></td><td></td></tr><tr><td>D2</td><td>M1</td><td>1</td><td>29.0 ms</td><td>-2.27 dB</td><td></td><td></td></tr><tr><td>M3</td><td></td><td>1</td><td>5.0 s</td><td>-79.23 dBm</td><td></td><td></td></tr><tr><td>D4</td><td>M1</td><td>1</td><td>10.0 s</td><td>-77.22 dB</td><td></td><td></td></tr></tbody></table> <p>Date: 22 JUL 2025 14:13:01</p>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.2319 s	-2.06 dBm			D2	M1	1	29.0 ms	-2.27 dB			M3		1	5.0 s	-79.23 dBm			D4	M1	1	10.0 s	-77.22 dB		
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D4	M1	1	10.0 s	-77.22 dB																																	

3.2 20dB Bandwidth Measurement

3.2.1 Limit

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

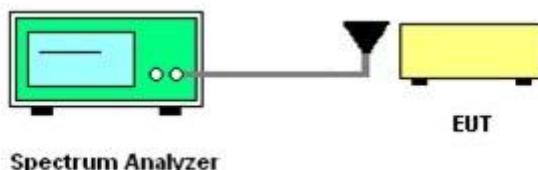
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.

3.2.4 Test Setup



3.2.5 Test Result of Conducted Test Items

Please refer to Appendix A.



3.3 Field Strength of Fundamental and Spurious Emissions

3.3.1 Limit

<input checked="" type="checkbox"/>	15.231(b) In addition to the provisions of §15.205, the field strength of emissions from intentional radiators operated under this section shall not exceed the following																								
	<table border="1"><thead><tr><th>Rules and specifications</th><th colspan="2">FCC CFR 47 Part 15 section 15.231</th></tr></thead><tbody><tr><td>Fundamental frequency (MHz)</td><td>Field strength of fundamental (μV/m) at 3m</td><td>Field strength of spurious emissions (μV/m) at 3m</td></tr><tr><td>40.66-40.70</td><td>2250</td><td>225</td></tr><tr><td>70-130</td><td>1250</td><td>125</td></tr><tr><td>130-174</td><td>1250 to 3750*</td><td>125 to 375*</td></tr><tr><td>174-260</td><td>3750</td><td>375</td></tr><tr><td>260-470</td><td>3750 to 12500*</td><td>375 to 1250*</td></tr><tr><td>Above 470</td><td>12500</td><td>1250</td></tr></tbody></table>	Rules and specifications	FCC CFR 47 Part 15 section 15.231		Fundamental frequency (MHz)	Field strength of fundamental (μ V/m) at 3m	Field strength of spurious emissions (μ V/m) at 3m	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
Rules and specifications	FCC CFR 47 Part 15 section 15.231																								
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Above 470	12500	1250																							
	* Linear interpolation with frequency, f, in MHz. [Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, μ V/m at 3 meters = $56.81818(F) - 6136.3636$; for the band 260-470 MHz, μ V/m at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]																								
<input checked="" type="checkbox"/>	15.209 For intentional device, according to 15.209(a) the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table:																								
	<table border="1"><thead><tr><th>Frequency (MHz)</th><th>Field Strength (microvolts/meter)</th><th>Measurement Distance (meters)</th></tr></thead><tbody><tr><td>0.009 – 0.490</td><td>$2400/F(\text{kHz})$</td><td>300</td></tr><tr><td>0.490 – 1.705</td><td>$24000/F(\text{kHz})$</td><td>30</td></tr><tr><td>1.705 – 30.0</td><td>30</td><td>30</td></tr><tr><td>30 – 88</td><td>100</td><td>3</td></tr><tr><td>88 – 216</td><td>150</td><td>3</td></tr><tr><td>216 - 960</td><td>200</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></tbody></table>	Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)	0.009 – 0.490	$2400/F(\text{kHz})$	300	0.490 – 1.705	$24000/F(\text{kHz})$	30	1.705 – 30.0	30	30	30 – 88	100	3	88 – 216	150	3	216 - 960	200	3	Above 960	500	3
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)																							
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1.705 – 30.0	30	30																							
30 – 88	100	3																							
88 – 216	150	3																							
216 - 960	200	3																							
Above 960	500	3																							



<input type="checkbox"/>	15.231(e) Intentional radiators may operate at a periodic rate exceeding that specified in paragraph (a) of this section and may be employed for any type of operation, including operation prohibited in paragraph (a) of this section, provided the intentional radiator complies with the provisions of paragraphs (b) through (d) of this section, except the field strength table in paragraph (b) of this section is replaced by the following:																								
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Rules and specifications	FCC CFR 47 Part 15 section 15.231																								
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174-260	1500	150																							
260-470	1500 to 5000	150 to 500																							
Above 470	5000	500																							

* Linear interpolation with frequency, f, in MHz.

3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
4. For Fundamental emissions, use the receiver to measure Average reading.
5. For average measurement: use duty cycle correction factor method per 15.35(c).

Adjust the center frequency of the spectrum analyzer to the center of the RF signal.

Set the spectrum analyzer for ZERO SPAN

Adjust the SWEEP TIME to obtain at least a 100 ms period of time on the horizontal display axis of the spectrum analyzer.

Duty cycle = On time/100 milliseconds

On time = $N_1 \cdot L_1 + N_2 \cdot L_2 + \dots + N_{n-1} \cdot L_{n-1} + N_n \cdot L_n$

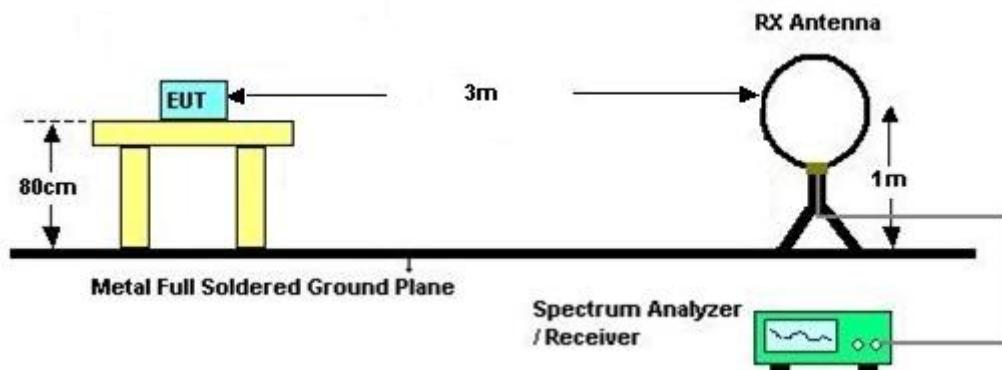
Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.

Average Emission Level = Peak Emission Level + $20 \cdot \log(\text{Duty cycle})$

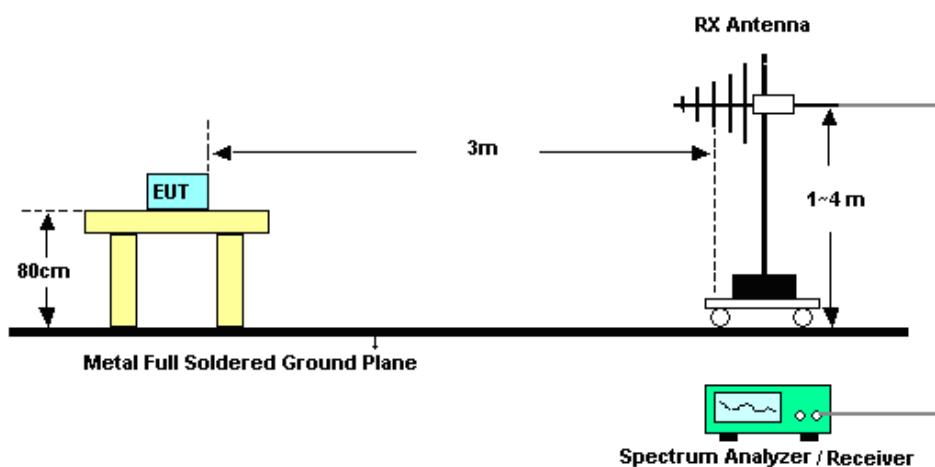
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

3.3.4 Test Setup

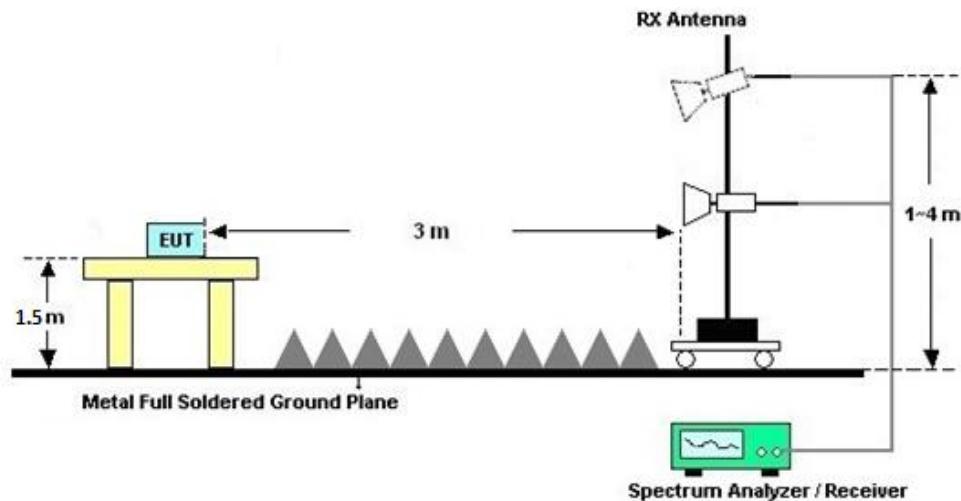
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.3.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

3.3.6 Test Result of Fundamental and Spurious Emissions

Please refer to Appendix B.

3.3.7 Duty cycle correction factor for average measurement

Test Plot of Duty cycle



Note:

1. Worst case Duty cycle = on time/100 milliseconds = 35.4/100ms = 35.40 %
2. Worst case Duty cycle correction factor = $20 \times \log(\text{Duty cycle}) = -9.02 \text{ dB}$



3.4 Antenna Requirements

3.4.1 Standard Applicable

§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.

3.4.2 Antenna Anti-Replacement Construction

This EUT uses an integral antenna which is permanently attached.



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Jun. 26, 2025~ Jul. 22, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2025	Jun. 26, 2025~ Jul. 22, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2025	Jun. 26, 2025~ Jul. 22, 2025	Jan. 01, 2026	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY5729015 7	3Hz~8.5GHz;Ma x 30dBm	Feb. 22, 2025	Jun. 22, 2025	Feb. 21, 2026	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY5747108 4	10Hz-44GHz	Jul. 04, 2024	Jun. 22, 2025	Jul. 03, 2025	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Jun. 22, 2025	Sep. 07, 2025	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz-1GHz	Sep. 03, 2024	Jun. 22, 2025	Sep. 02, 2025	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00251694	1GHz~18GHz	Jul. 06, 2024	Jun. 22, 2025	Jul. 05, 2025	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Jun. 22, 2025	Oct. 21, 2025	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz ~1GHz	Jul. 04, 2024	Jun. 22, 2025	Jul. 03, 2025	Radiation (03CH06-KS)
Amplifier	EM	EM18G40G A	060728	18~40GHz	Jan. 03, 2025	Jun. 22, 2025	Jan. 02, 2026	Radiation (03CH06-KS)
high gain Amplifier	EM	EM01G18G A	060845	1Ghz-18Ghz	Jan. 03, 2025	Jun. 22, 2025	Jan. 02, 2026	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY5728011 9	500MHz~26.5G Hz	Oct. 09, 2024	Jun. 22, 2025	Oct. 08, 2025	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 22, 2025	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 22, 2025	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 22, 2025	NCR	Radiation (03CH06-KS)



5. Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Occupied Channel Bandwidth	±0.1 %

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	6.06 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.18 dB
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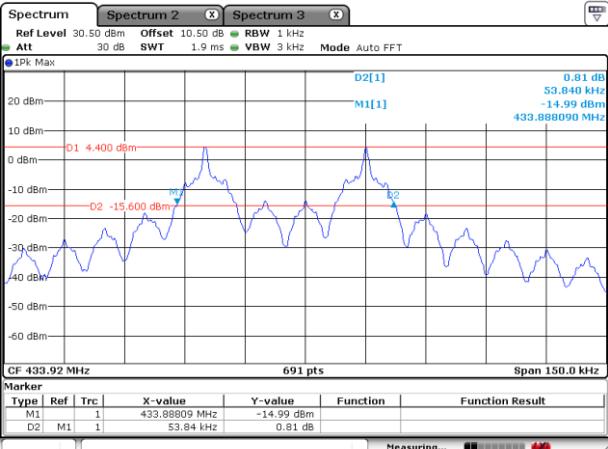
Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.38 dB
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----- THE END -----

Appendix A. Test Results of Conducted Test Items

A1. Test Result of 20dB Bandwidth

Test mode	433.92MHz Tx
	
20dB Bandwidth (kHz)	53.840
20dB Bandwidth Limit	Shall be less than 0.25% of 433.92MHz < 1084.8kHz



Appendix B. Test Results of Radiated Test Items

Test Engineer :	Jerry Xu	Relative Humidity :	41 ~ 42 %
		Temperature :	22 ~ 23 °C

Radiated Spurious Emission Test Modes

Mode	Antenna	Modulation	Frequency	Data Rate	Remark
Mode 1	SISO	FSK	433.92	-	

Summary of each worse mode

Mode	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	433.85	79.68	80.82	-1.14	H	QP	Pass	Band Edge
	890.38	36.75	46.00	-9.25	V	Peak	Pass	Harmonic



Mode	1																																																																																																																																																																																						
	30-500																																																																																																																																																																																						
	433.92MHz																																																																																																																																																																																						
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