Shenzhen Kentro Medical Electronics Co., Ltd

TEST REPORT

SCOPE OF WORK
EMC TESTING–KTR-2491A, KTR-2491B

REPORT NUMBER
190808051GZU-002

ISSUE DATE **[REVISED DATE]**

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DOCUMENT CONTROL NUMBER
FCC part 15.231-d

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TEST REPORT

Applicant Name & Address	:	Shenzhen Kentro Medical Electronics Co., Ltd 2nd Floor, No. 11, Shanzhuang Road, Xikeng Village, Yuanshan Street, Longgang District, Shenzhen City, Guangdon Province, China
Manufacturing Site	:	Same as applicant
Intertek Report No:		190808051GZU-002
FCC ID:		2AX4D-KTR2491

Test standards

CFR 47, FCC PART 15 Subpart C: 2018 section 15.231

Sample Description

Product	:	Remote controller
Models No.	:	KTR-2491A, KTR-2491B
Electrical Rating	:	3.7V, 100mAh
Serial No.		Not Labeled
Date Received	:	06 January 2020
Date Test Conducted	:	06 January 2020-16 January 2020

Prepared and Checked By

Jed Guo

Engineer

Approved By:

Dean Liu

Project Engineer

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1.0 TEST RESULT SUMMARY

Test Item	Test Requirement	Test Method	Result
Radiated Emission	**FCC PART 15 section 15.231(b)**	**ANSI C 63.10: Clause 6.4, 6.5 and 6.6**	**PASS**
Occupied Bandwidth	**FCC PART 15 section 15.231(c)**	**ANSI C 63.10: Clause 6.9**	**PASS**
Dwell Time	**FCC PART 15 section 15.231(a)**	**FCC PART 15: Section 15.231(a)**	**PASS**

Remark:
N/A: not applicable. Refer to the relative section for the details.
EUT: In this whole report EUT means Equipment Under Test.
Tx: In this whole report Tx (or tx) means Transmitter.
Rx: In this whole report Rx (or rx) means Receiver.
RF: In this whole report RF means Radio Frequency.
ANSI C63.10: the detail version is ANSI C63.10:2013 in the whole report

*Model No.: KTR-2491A, KTR-2491B
According to the confirmation from the applicant, since the electrical circuit design, layout, components used and internal wiring were identical for the above items, only difference are the appearance and model name. When unit was in charging, it cannot work normally.
Therefore, only one model KTR-2491A was tested in this report.

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2.0 General Description

2.1 Product Description

Operating Frequency	433.92 MHz
Type of Modulation:	ASK
Number of Channels	1 Channel
Channel Separation:	N/A
Antenna Type	Internal
Antenna gain:	0 dBi
Power Supply:	DC 3.7V
Power cord:	N/A

2.2 Related Submittal(s) Grants

This is an application for certification of:
DSC (Part 15 Security/Remote Control Transmitter)

2.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.10. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans and final tests were performed in the semi-anechoic chamber to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise.

2.4 Test Facility

All tests were performed at:
Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China
Except Radiated Disturbance and Radiated Susceptibility were performed at:
Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

A2LA Certificate Number 0078.10
Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

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3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, AC power line was manipulated to produce worst case emissions. It was powered by 3Vdc supply.

When below 30MHz, the measurement antenna was positioned with its plane perpendicular to the ground at the specified distance. When perpendicular to the ground plane, the lowest height of the magnetic antenna was 1 m above the ground and was positioned at 3m distance from the EUT. During testing the loop antenna was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable.
When above 30MHz, the antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. The spurious emissions more than 20 dB below the permissible value are not reported.

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 the following table:

Frequency range of radiated emission measurements

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

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3.2 EUT Exercising Software

N/A

3.3 Special Accessories

No special accessories used.

3.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	20 dB Bandwidth	2.3%
	6dB Bandwidth	
	99% Bandwidth	
2	Carrier Frequencies Separated	2.3%
3	Dwell Time	1.2%
4	Maximum Peak Conducted Output Power	1.5dB
5	Peak Power Spectral Density	1.5dB
6	Out of Band Conducted Emissions	1.5dB
7	Band edges measurement	1.5dB
8	Radiated Emissions	4.7 dB (25 MHz-1 GHz)
		4.8 dB (1 GHz-18 GHz)
		5.21dB (18GZH-26GHz)
9	Conducted Emissions at Mains Terminals	2.58dB
10	Temperature	0.5 °C
11	Humidity	0.4 %
12	Time	1.2%

The measurement uncertainty describes the overall uncertainty of the given measured value during the operation of the EUT.
Measurement uncertainty is calculated in accordance with ETSI TR 100 028-2001.
The measurement uncertainty is given with a confidence of 95%, k=2.

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value

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3.5 Equipment Modification

Any modifications installed previous to testing by Shenzhen Kentro Medical Electronics Co., Ltd will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

3.6 Support Equipment List and Description

The client made a continuous transmit sample for test, in actual use the product has duty cycle.

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4.0 Measurement Results

4.1 Antenna Requirement

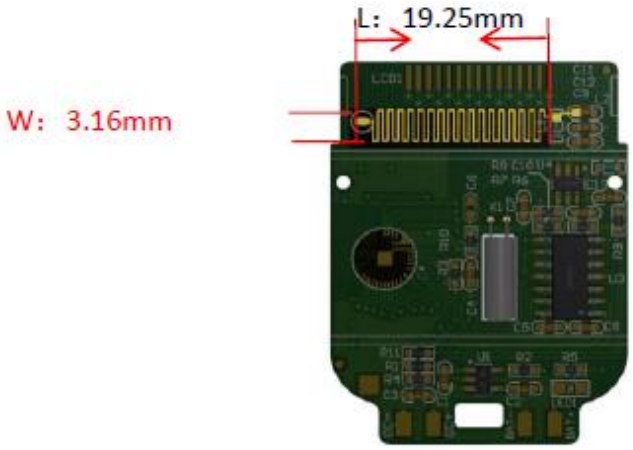
Standard requirement:

15.203 requirement:

For intentional device. According to 15.203. an intentional radiator shall be designed to Ensure that no antenna other than that furnished by the responsible party shall be used with the device.

EUT Antenna

The antenna is an integral antenna and no consideration of replacement. The best case gain of the antenna is 0dBi.



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4.2 Radiated Emissions

Test Requirement:	FCC Part 15 C section 15.231(b)
Test Method:	ANSI C63.10: Clause 6.4, 6.5 and 6.6
Measurement Distance:	3 m (Semi-Anechoic Chamber)
Test Status:	Test the transmitter in continuous transmitting mode.
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Limit:	The field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

Fundamental Frequency MHz	Field Strength of Fundamental (dBµV/m @ 3 m)	Field Strength of Harmonics and Spurious Emissions (dBµV/m @ 3 m)
40.66 to 40.70	67.04	47.04
70 to 130	61.94	41.94
130 to 174	61.94 to 71.48**	41.94 to 51.48**
174 to 260	71.48	51.48
260 to 470	71.48 to 81.94**	51.48 to 61.94**
Above 470	81.94	61.94

** linear interpolations

[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, uV/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, uV/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

The fundamental frequency of the EUT is 433.92 MHz

The limit for average or QP field strength dBuv/m for the fundamental emission= 80.8 dBµV/m

No fundamental is allowed in the restricted bands.

The limit for average field strength dBuv/m for the spurious emission=60.8 dBuV/m. Spurious Emissions do not fall in the restricted bands must be less than 60.8 dBuV/m or limits shown in Section 15.209, whichever limit permits a higher field strength.

Spurious Emissions appear within the restricted bands shall not exceed the limits shown in Section 15.209.

Field Strength Calculation:	The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below: FS = RA + AF + CF - AG + PD + AV FS = RA + Correct Factor + AV

FS = Field Strength in dBµV/m
RA = Receiver Amplitude (including preamplifier) in dBµV
AF = Antenna Factor in dB
CF = Cable Attenuation Factor in dB
AG = Amplifier Gain in dB
PD = Pulse Desensitization in dB
AV = Average Factor in –dB
Correct Factor = AF + CF – AG + PD

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:
FS = RA + AF + CF - AG + PD + AV
Assume a receiver reading of 62.0 dBµV is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dBµV/m.
RA = 62.0 dBµV
AF = 7.4 dB
CF = 1.6 dB
AG = 29.0 dB
PD = 0 dB
AV = -10 dB
Correct Factor = 7.4 + 1.6 – 29.0 + 0 = -20 dB
FS = 62 + (-20) + (-10) = 32 dBµV/m

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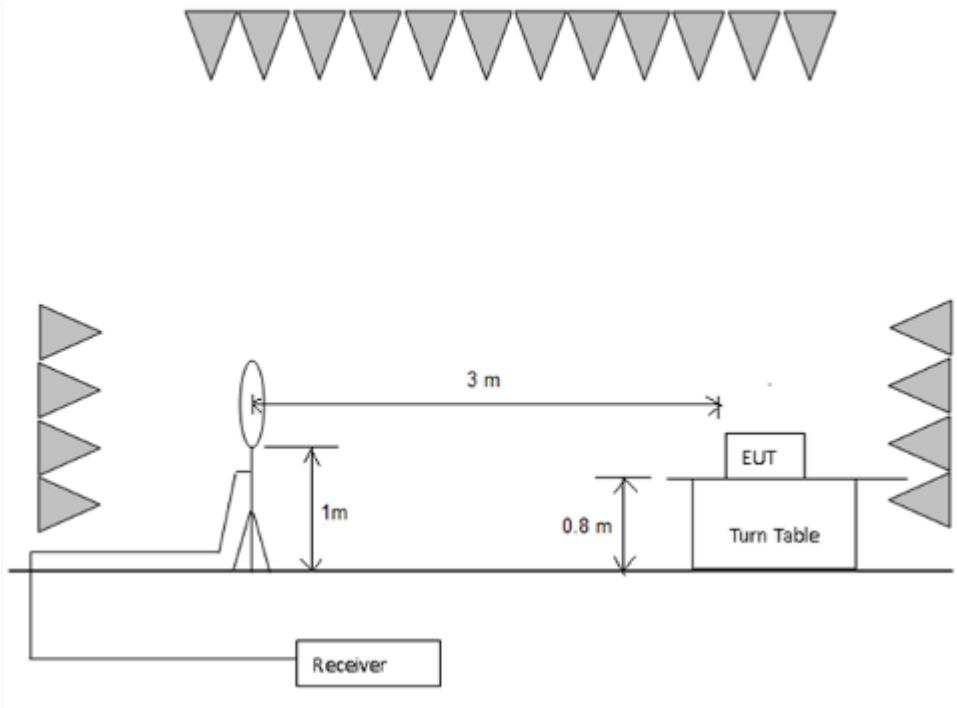
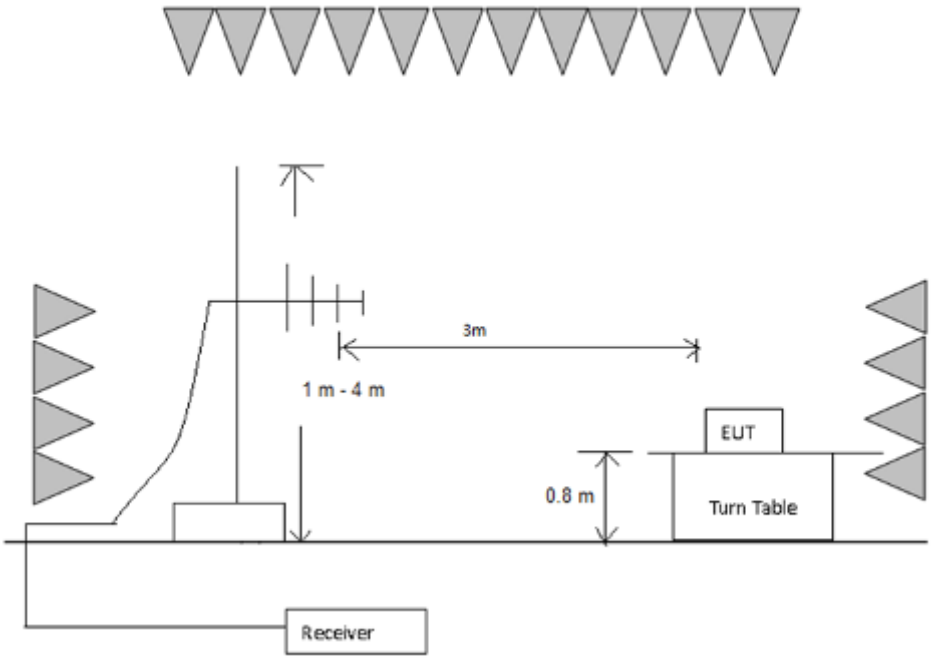
Test Configuration:

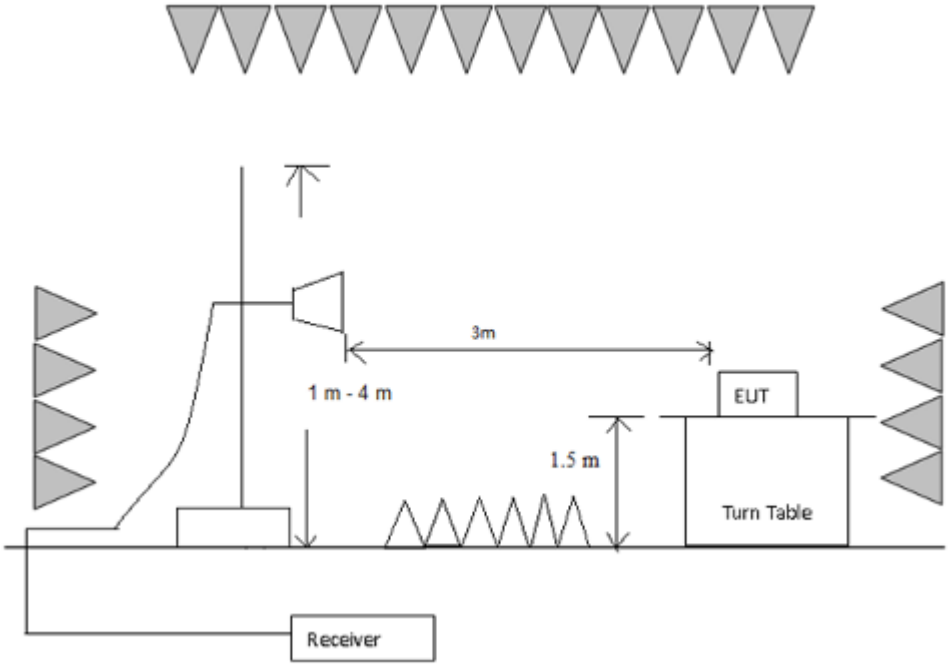
1) 9 kHz to 30 MHz emissions:



2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 40 GHz emissions:



Test Procedure:

1) 9 kHz to 30 MHz emissions:

For testing performed with the loop antenna. The lowest of the loop was positioned 1 m above the ground and positioned with its plane vertical at the special distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

2) 30 MHz to 1 GHz emissions:

For testing performed with the bi-log type antenna. The measurement is performed with the EUT rotated 360º, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

3) 1 GHz to 40 GHz emissions:

Test site with RF absorbing material covering the ground plane that met the site validation criterion called out in CISPR 16-1-4:2010 was used to perform radiated emission test above 1 GHz.

For testing performed with the horn antenna. The measurement is performed with the EUT rotated 360º, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

Detector:

For Peak and Quasi-Peak value:

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RBW = 1 MHz for f ≥ 1 GHz,
200 Hz for 9 kHz to 150 kHz
9 kHz for 150 kHz to 30 MHz
120 kHz for 30 MHz to 1GHz
VBW ≥ RBW
Sweep = auto
Detector function = peak for f ≥ 1 GHz, QP for f < 1 GHz
Trace = max hold
For AV value:
Average = Peak value + 20log (Duty cycle)

The average correction factor is computed by analyzing the on time in 100ms over one complete pulse train. Analysis of the remote transmitter on time in one complete pulse train, therefore the average value of fundamental frequency is: Average = Peak value + 20log (Duty cycle), where the duty factor is calculated from following formula:

The duration of one cycle =56.087ms

Effective period of the cycle =(1.159x10 +0.4348x22) ms=21.1556 ms

DC =21.1556/56.087=0.37719 or 37.719%

Therefore, the averaging factor is found by 20lg0.37719=-8.5

The duty cycle was calculated at “F” button, it’s the worst case found.

Please refer to below plots for more details.

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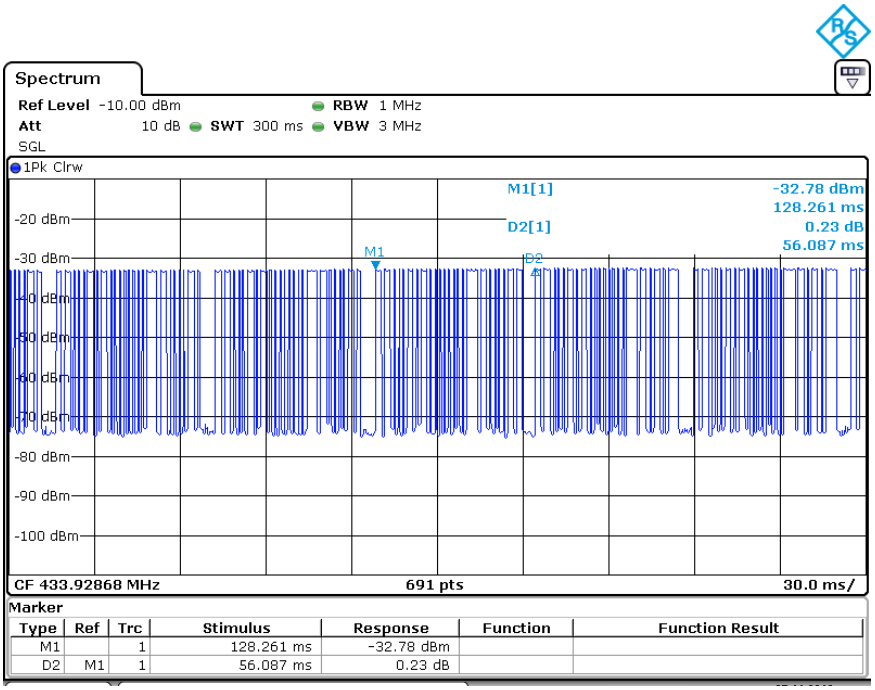
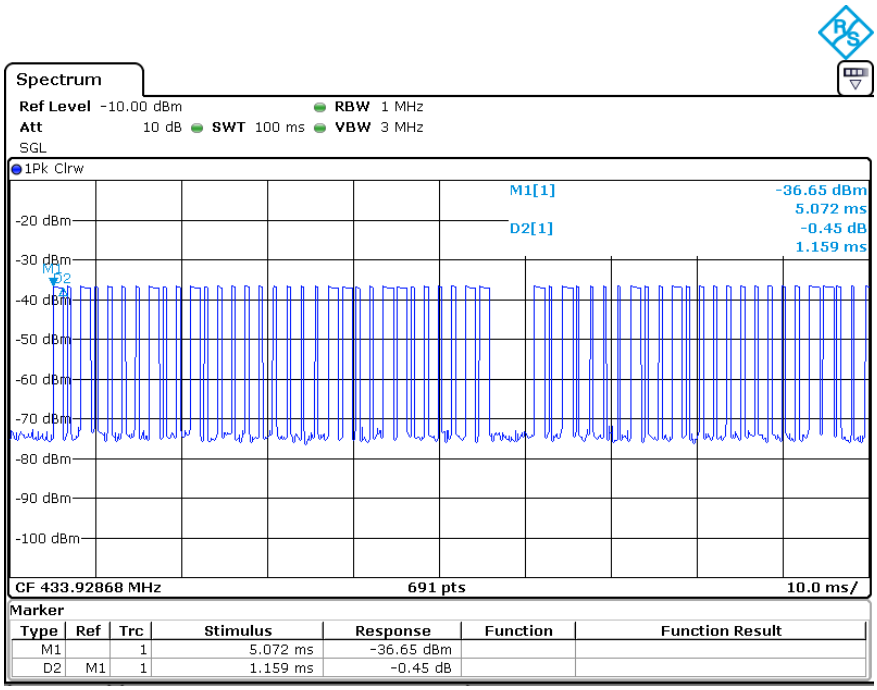
The duration of one cycle:



Period of the one cycle:



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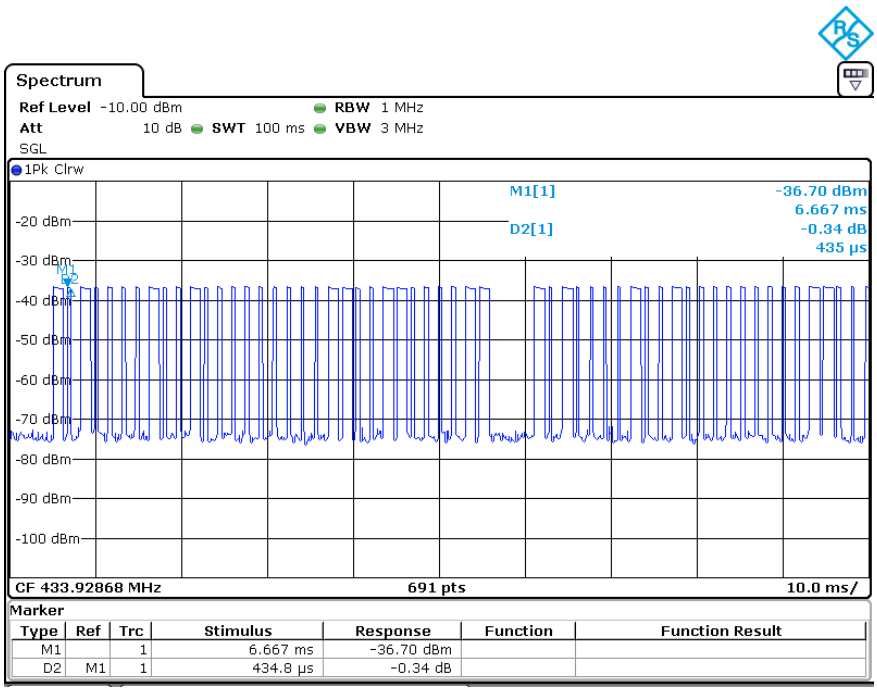
Spectrum
Ref Level -10.00 dBm
RBW 1 MHz
Att 10 dB SWT 100 ms VBW 3 MHz
SGL
1Pk Clrw
M1[1]
-36.70 dBm
6.667 ms
D2[1]
-0.34 dB
435 µs
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
-90 dBm
-100 dBm
CF 433.92868 MHz
691 pts
10.0 ms/
Marker
Type Ref Trc Stimulus Response Function Function Result
M1 1 6.667 ms -36.70 dBm
D2 M1 1 434.8 µs -0.34 dB

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Used Test Equipment List:
3m Semi-Anechoic Chamber, EMI Test Receiver (9 kHz~7 GHz), Signal and Spectrum Analyzer (10 Hz~40 GHz), Loop antenna (9 kHz-30 MHz). TRILOG Super Broadband test Antenna(30 MHz-3 GHz） (RX), Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX) and High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX). Refer to Clause 5 Test Equipment List for details.

1) Fundamental emission

Polarization	Frequency (MHz)	Reading (dBμV)	Correction Factor (dB)	PK Level at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	433.920	51.9	18.3	70.2	108.8	-38.6
Vertical	433.920	41.2	18.3	59.5	108.8	-49.3

Polarization	Frequency (MHz)	Peak Value (dBμV)	Average Factor (dB)	AV Level at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	433.920	70.2	-8.5	61.7	80.8	-19.1
Vertical	433.920	59.5	-8.5	51.0	80.8	-29.8

Y: rotate EUT by 90° vertically.
X: rotate EUT by 90° clockwise.
Z: EUT as Radiated Emission test setup photograph.

1. Corr. (dB) = Antenna Factor (dB) + Cable Loss (dB)
2. Level (dBμV/m) = Corr. (dB) + Read Level (dBμV)
3. Margin (dB) = Limit (dBμV/m) –Level (dBμV/m)
4. Average = Peak value + 20log (Duty cycle)

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other emissions:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Peramplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Peramplifier Factor.

The following test results were performed on the EUT.
Since the peak emission level is lower than the average limit, the average emission level does not need to show.

Test the EUT in transmitting mode

9 kHz~30 MHz Field Strength of Unwanted Emissions. Peak or Quasi-Peak measurement.

The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

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30 MHz~5 GHz Field Strength of Unwanted Emissions. Peak measurement:

Polarization	Frequency (MHz)	PK Reading (dBμV)	Correction Factor (dB)	PK Level (dBμV/m)	Peak Limit (dBμV/m)	Margin (dB)
Horizontal	867.85	36.3	25.4	61.7	80.8	19.1
Horizontal	1302.12	71.2	-12.9	58.3	74.0	15.7
Horizontal	1735.25	61.0	-11.3	49.7	80.8	31.1
Horizontal	2169.28	63.5	-8.3	55.2	80.8	25.6
Vertical	867.85	19.9	25.4	45.3	80.8	35.5
Vertical	1302.00	71.0	-12.9	58.1	74.0	15.9
Vertical	1736.00	57.7	-11.3	46.4	80.8	34.4
Vertical	2604.00	55.7	-8.3	47.4	80.8	33.4

Polarization	Frequency (MHz)	PK Value (dBμV)	Average Factor (dB)	AV Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)
Horizontal	867.85	61.7	-8.5	53.2	60.8	7.6
Horizontal	1302.12	58.3	-8.5	49.8	54.0	4.2
Horizontal	1735.25	49.7	-8.5	41.2	60.8	19.6
Horizontal	2169.28	55.2	-8.5	46.7	60.8	14.1
Vertical	867.85	45.3	-8.5	36.8	60.8	24.0
Vertical	1302.00	58.1	-8.5	49.6	54.0	4.4
Vertical	1736.00	46.4	-8.5	37.9	60.8	22.9
Vertical	2604.00	47.4	-8.5	38.9	60.8	21.9

Remark:
According to 15.35 (b) When average radiated emission measurements are specified in the regulations, including emission measurements below 1000 MHz, there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules, e.g., see Section 15.255.

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4.3 Occupied Bandwidth

Test Requirement:	FCC Part 15 C section 15.231 (c)
Test Method:	ANSI C63.10: Clause 6.9
Test Status:	Test in transmitting mode at lowest and highest channel.
Requirements:	15.231 (c) 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.
Method of measurement:	The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector. Record the 20 dB bandwidth of the carrier.

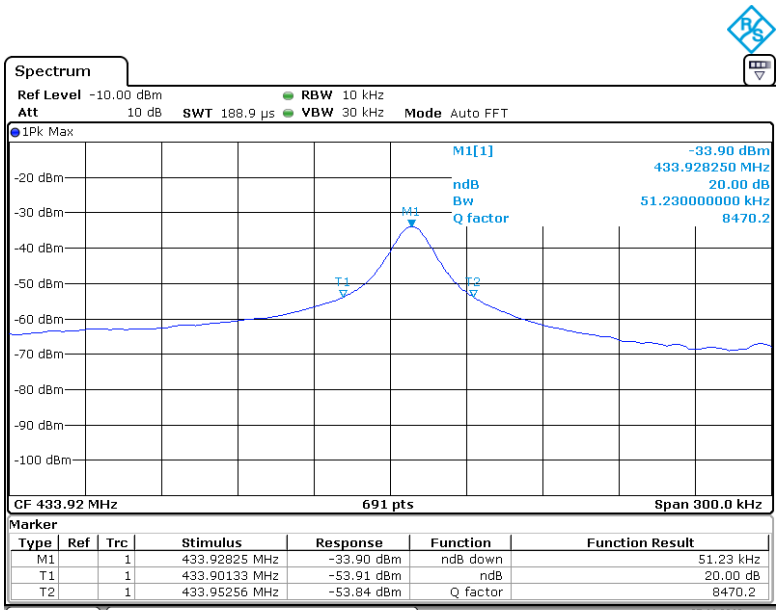
Used Test Equipment List:
Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Test result:

Test Channel	bandwidth	Limit
433.92 MHz	51.23kHz	1.08 MHz

Remark:
The bandwidth limit is 433.84 x 0.0025 = 1.08 MHz

Test plot:



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4.4 Dwell Time

Test Requirement: FCC Part 15 C section 15.231(a)

Test Method: FCC Part 15 C section 15.231(a)

Test Status: Test in transmitting mode.

Requirements:

1. Regulation 15.231 (a) The provisions of this Section are restricted to periodic operation within the band 40.66 40.70 MHz and above 70 MHz. Except as shown in paragraph (e) of this Section, the intentional radiator is restricted to the transmission of a control signal such as those used with alarm systems, door openers, remote switches, etc. Radio control of toys is not permitted. Continuous transmissions, such as voice or video, and data transmissions are not permitted. The prohibition against data transmissions does not preclude the use of recognition codes. Those codes are used to identify the sensor that is activated or to identify the particular component as being part of the system.

Result:

The EUT is a remote switch without audio or video transmitted.

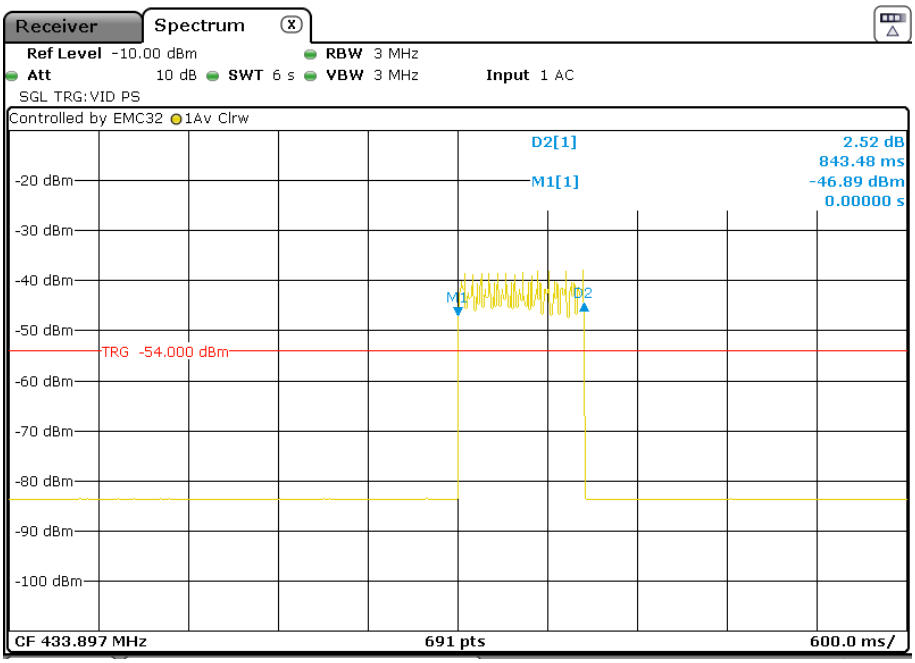
The EUT meets the requirements of this section.

2. Regulation 15.231 (a1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

Result:

Carrier Frequency	Shutdown Time	Limit
433.92MHz	843.48ms	≤5s

Result plot as follows:



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3. Regulation 15.231 (a2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.

Result:

The EUT does not have automatic transmission.

4. Regulation15.231 (a3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions to determine system integrity of transmitters used in security or safety applications are allowed if the periodic rate of transmission does not exceed one transmission of not more than one second duration per hour for each transmitter.

Result:

The EUT does not employ periodic transmission.

5. Regulation 15.231 (a4) 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.

Result:

This section is not applicable to the EUT.

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5.0 Test Equipment List

Radiated Emission/Radio					
Equipment No.	Equipment	Model	Manufacturer	Cal. Due date (YYYY-MM-DD)	Calibration Interval
EM030-04	3m Semi-Anechoic Chamber	9×6×6 m^3	ETS‧LINDGREN	2020/4/9	1Y
EM031-02	EMI Test Receiver (9 kHz~7 GHz)	R&S ESR7	R&S	2020/10/22	1Y
EM031-03	Signal and Spectrum Analyzer (10 Hz~40 GHz)	R&S FSV40	R&S	2020/9/8	1Y
EM011-04	Loop antenna (9 kHz-30 MHz)	HFH2-Z2	R&S	2020/6/24	1Y
EM061-03	TRILOG Super Broadband test Antenna (30 MHz-1.5 GHz）(TX)	VULB 9161	SCHWARZBECK	2020/6/22	1Y
EM033-01	TRILOG Super Broadband test Antenna(30 MHz-3 GHz）(RX)	VULB 9163	SCHWARZBECK	2020/9/19	1Y
EM033-02	Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX)	R&S HF907	R&S	2020/6/22	1Y
EM033-03	High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX)	R&S SCU-26	R&S	2020/4/26	1Y
EM033-04	High Frequency Antenna & preamplifier (26 GHz-40 GHz)	R&S SCU-40	R&S	2020/4/26	1Y
EM031-02-01	Coaxial cable(9 kHz-1 GHz)	N/A	R&S	2020/4/9	1Y
EM033-02-02	Coaxial cable(1 GHz-18 GHz)	N/A	R&S	2020/4/9	1Y
EM033-04-02	Coaxial cable(18 GHz~40 GHz)	N/A	R&S	2020/4/18	1Y
EM031-01	Signal Generator (9 kHz~6 GHz)	SMB100A	R&S	2020/7/18	1Y
EM040-01	Band Reject/Notch Filter	WRHFV	Wainwright	N/A	1Y
EM040-02	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM040-03	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM022-03	2.45 GHz Filter	BRM50702	Micro-Tronics	2020/5/16	1Y
SA016-16	Programmable Temperature & Humidity Test Chamber	MHU-800LJ	TERCHY	2020/10/13	1Y
SA016-22	Climatic Test Chamber	C7-1500	Vötsch	2020/11/10	1Y
SA012-74	Digital Multimeter	FLUKE175	FLUKE	2020/10/13	1Y
EM010-01	Regulated DC Power supply	PAB-3003A	GUANHUA	N/A	1Y
SA040-22	Regulated DC Power supply	IT6721	ITECH	2020/9/8	1Y
EM084-06	Audio Analyzer	8903B	HP	2020/4/18	1Y
EM045-01-01	EMC32 software (RE/RS)	V10.01.00	R&S	N/A	N/A
EM045-01-09	EMC32 software (328/893)	V9.26.01	R&S	N/A	N/A

**********End of the test report**********