

FCC RADIO TEST REPORT

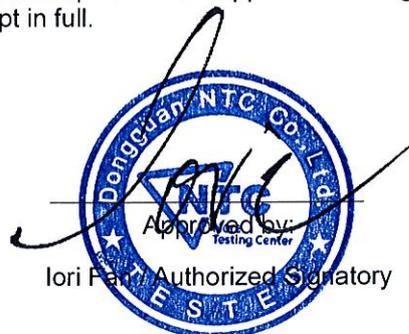
Applicant..... : Shenzhen Kentro Medical Electronics CO.,LTD
Address..... : 2nd Floor, No.11, Shanzhuang Road, Xikeng Village, Yuanshan Street,
Longgang District, Shenzhen City, Guangdong Province, China
Manufacturer..... : Shenzhen Kentro Medical Electronics CO.,LTD
Address..... : 2nd Floor, No.11, Shanzhuang Road, Xikeng Village, Yuanshan Street,
Longgang District, Shenzhen City, Guangdong Province, China
Factory..... : Shenzhen Kentro Medical Electronics CO.,LTD
Address..... : 2nd Floor, No.11, Shanzhuang Road, Xikeng Village, Yuanshan Street,
Longgang District, Shenzhen City, Guangdong Province, China
EUT : Neck Massager
Brand Name..... : KENTRO
Model No. : KTR-140, KTR-132 (For more model and model difference refer to section 2)
Measurement Standard..... : 47 CFR FCC Part 15, Subpart C (Section 15.231)
Receipt Date of Samples.... : October 28, 2020
Date of Tested..... : November 03, 2020 to November 11, 2020
Date of Report..... : November 12, 2020

This report shows that above equipment is technically compliant with the requirements of the standards above. All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore Testing Center Co., Ltd, this report shall not be reproduced except in full.



Prepared by:

Steven Wu / Project Engineer



Approved by:
Iori Pan, Authorized Signatory

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1. Summary of Test Result

FCC Rules	Description of Test	Result	Remarks
§15.207 (a)	AC Power Line Conducted Emission	N/A see note 2	---
§15.231(b) & 15.209	Radiated Spurious Emission	PASS	---
§15.231(c)	20 dB Occupied bandwidth	PASS	---
§15.231(a)	Transmission time	PASS	---
§15.203	Antenna Requirement	PASS	---
<p>Note: 1. The EUT has been tested as an independent unit. And continual transmitting in maximum power (New batteries were used during test)</p> <p>2. AC Power Conducted Emission is not applicable due to the EUT only can be powered by battery.</p>			

2. General Description of EUT

Product Information	
Product Name:	Neck Massager
Main Model Name:	KTR-140
Additional Model Name:	KTR-132
Model Difference:	Both of models have the same circuitry, electrical mechanical, PCB Layout and physical construction. The difference are model number and color due to marketing purpose.
S/N:	KTR1400506
Brand Name:	KENTRO
Hardware Version:	V1.0
Software Version:	V1.0
Rating:	DC 3V(Button battery CR2032)
Classification:	Class B
Typical arrangement:	Table-top
I/O Port:	USB port, Output port
Accessories Information	
Adapter:	N/A
Cable:	USB Line: 1m unshielded Electrode Line: 1.19m unshielded
Other:	N/A
Additional Information	
Note:	According to the model difference, all tests were performed on model KTR-140.
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.

Technical Specification (433MHz Transmitter)	
Declaring the Frequency:	433.92MHz
Modulation Type:	ASK
Antenna Type:	Integral antenna
Antenna Gain:	0 dBi (Declared by manufacturer)
Number of Channels:	1

3. Test Channels and Modes Detail

Mode		Test Frequency (MHz)	Modulation	Data Rate (Mbps)
1	TX	433.92MHz	ASK	----

Note: TX mode means that the EUT was programmed to be in continuously transmitting mode.

4. Configuration of EUT

TX Mode

EUT

5. Modification of EUT

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

6. Description of Support Device

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Brand	M/N	S/N	Cable Specification	Remarks
1.	---	---	---	---	---	---

7. Test Facility and Location

Test Site	: Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)
Accreditations and Authorizations	<p>The Laboratory has been assessed and proved to be in compliance with CNAS/CL01 Listed by CNAS, August 13, 2018 The Certificate Registration Number is L5795. The Certificate is valid until August 13, 2024</p> <p>The Laboratory has been assessed and proved to be in compliance with ISO17025 Listed by A2LA, November 01, 2017 The Certificate Registration Number is 4429.01 The Certificate is valid until December 31, 2021</p> <p>Listed by FCC, November 06, 2017 Test Firm Registration Number: 907417</p> <p>Listed by Industry Canada, June 08, 2017 The Certificate Registration Number. Is 46405-9743A</p>
Test Site Location	: Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng District, Dongguan City, Guangdong Province, China

8. Applicable Standards and References

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

Test Standards:

47 CFR Part 15, Subpart C, 15.231

ANSI C63.10-2013

References Test Guidance:

N/A

9. Deviations and Abnormalities from Standard Conditions

No additions, deviations and exclusions from the standard.

10. Test Conditions

No.	Test Item	Test Mode	Test Voltage	Tested by	Remarks
1.	AC Power Conducted Emission	---	---	---	---
2.	Radiated Emission	1	DC 3V	Ray Ding	See note 1
3.	Max. Conducted Output Power	1	DC 3V	Ray Ding	See note 1
4.	20 dB Occupied bandwidth	1	DC 3V	Ray Ding	See note 1
5.	Transmission time	1	DC 3V	Ray Ding	See note 1
6.	Antenna Requirement	---	---	---	See note 1

Note:

- The testing climatic conditions for temperature, humidity, and atmospheric pressure are within: 15~35°C, 30~70%, 86~106kPa
- As the EUT can be operated multiple positions, all X,Y,Z axis were considered during the test and only the worst case X was recorded.

11. Measurement Uncertainty

No.	Test Item	Frequency	Uncertainty	Remarks
1.	Conducted Emission	150KHz ~ 30MHz	±2.52 dB	---
2.	Radiated Emission Test	9kHz ~ 30MHz	±2.60 dB	---
		30MHz ~ 1GHz	±4.68 dB	---
		1GHz ~ 18GHz	±5.14 dB	---
		18GHz ~ 40GHz	±5.14 dB	---

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The measurement uncertainty levels above are estimated and calculated according to CISPR 16-4-2.
3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

12. Sample Calculations

Conducted Emission						
Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector
0.1900	30.10	10.60	40.70	79.00	-38.30	QP
Where, Freq. = Emission frequency in MHz Reading Level = Uncorrected Analyzer/Receiver reading Corrector Factor = Insertion loss of LISN + Cable Loss + RF Switching Unit attenuation Measurement = Reading + Corrector Factor Limit = Limit stated in standard Margin = Measurement - Limit Detector = Reading for Quasi-Peak / Average / Peak						

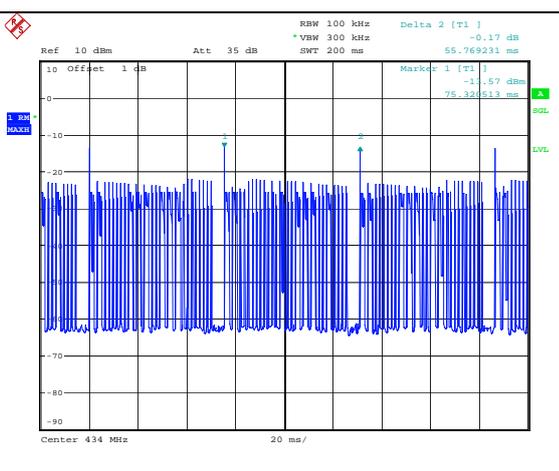
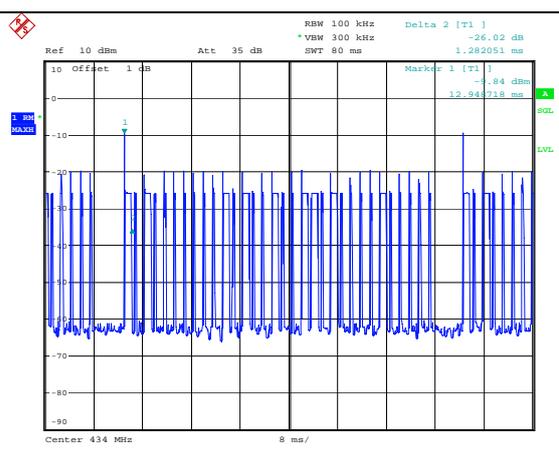
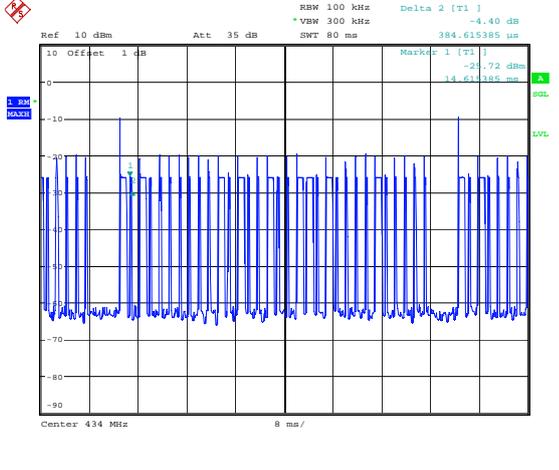
Radiated Spurious Emissions						
Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
60.0700	45.88	-18.38	27.50	49.00	-21.50	QP
Where, Freq. = Emission frequency in MHz Reading Level = Uncorrected Analyzer/Receiver reading Corrector Factor = Antenna Factor + Cable Loss - Pre-amplifier Measurement = Reading + Corrector Factor Limit = Limit stated in standard Over = Margin, which calculated by Measurement - Limit Detector = Reading for Quasi-Peak / Average / Peak						

Note: For all conducted test items, the spectrum analyzer offset or transducer is derived from RF cable loss and attenuator factor. The offset or transducer is equal to the RF cable loss plus attenuator factor.

13. Duty Cycle

Frequency MHz	TP time (ms)	Ton time (Total) (ms)	Duty cycle	AV Factor
433.92	55.77	26.24	47.05%	-6.55

Test Photo

TP time	Ton 1 time
 <p>Date: 4.NOV.2020 17:17:11</p>	 <p>Date: 4.NOV.2020 17:18:58</p>
Ton 2 time	---
 <p>Date: 4.NOV.2020 17:19:31</p>	---

Note: Duty Cycle = (Total Ton time / TP time) x 100%

$$\text{Total Ton time} = \text{Ton 1} \times n_1 + \text{Ton 2} \times n_2 + \dots + \text{Ton n} \times n_n = 1.28 \times 11 + 0.38 \times 32 = 26.24$$

AV Factor = The value of Peak+ AV Factor.

14. Test Items and Results

14.1 Conducted Emissions Measurement

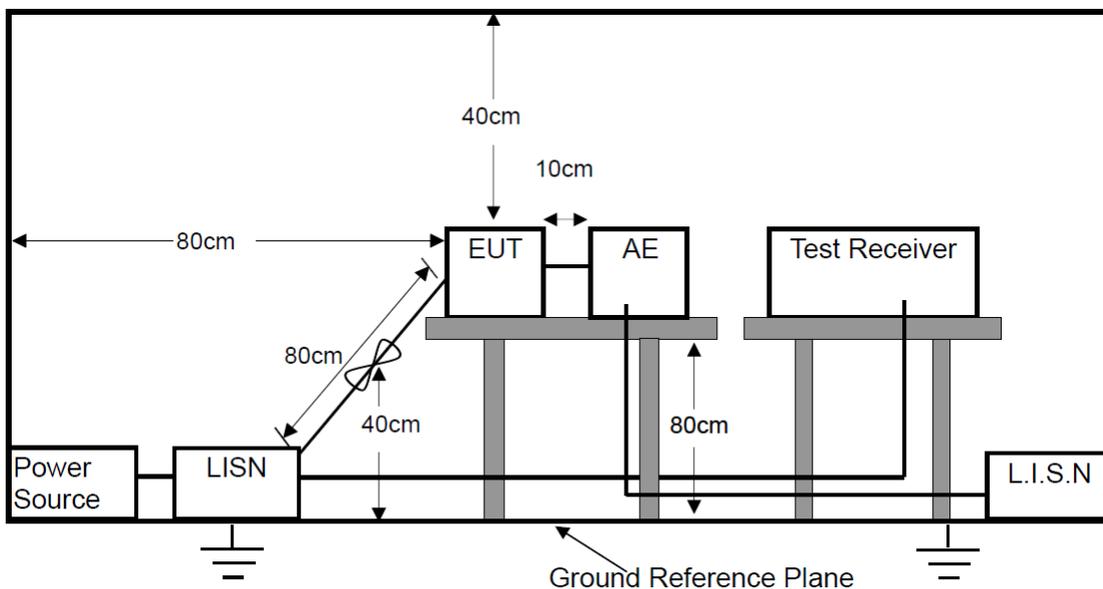
LIMIT

According to the requirements of FCC PART 15.207, the limits are as follows:

Frequency (MHz)	Quasi-peak	Average
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

- Note:
1. If the limits for the average detector are met when using the quasi-peak detector, then the limits for the measurements with the average detector are considered to be met.
 2. The lower limit shall apply at the transition frequencies.
 3. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5MHz.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- a. The EUT was placed on a wooden table 0.8m height from the metal ground plan and 0.4m from the conducting wall of the shielding room and it was kept at 0.8m from any other grounded conducting surface.
- b. All I/O cables and support devices were positioned as per ANSI C63.10.
- c. Connect mains power port of the EUT to a line impedance stabilization network (LISN).
- d. Connect all support devices to the other LISN and AAN, if needed.
- e. Scan the frequency range from 150KHz to 30MHz at both sides of AC line for maximum conducted interference checking and record the test data.

TEST RESULTS

Not applicable.

14.2 Radiated Spurious Emissions Measurement

LIMIT

Frequency range MHz	Distance Meters	Field Strengths Limit (15.209)
		$\mu\text{V/m}$
0.009 ~ 0.490	300	2400/F(kHz)
0.490 ~ 1.705	30	24000/F(kHz)
1.705 ~ 30	30	30
30 ~ 88	3	100
88 ~ 216	3	150
216 ~ 960	3	200
Above 960	3	500

- Remark:
- (1) Emission level $(\text{dB})_{\mu\text{V}} = 20 \log \text{Emission level } \mu\text{V/m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
 - (4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.
 - (5) §15.247(d) specifies that emissions which fall in the restricted bands, as defined in §15.205 comply with radiated emission limits specified in §15.209.

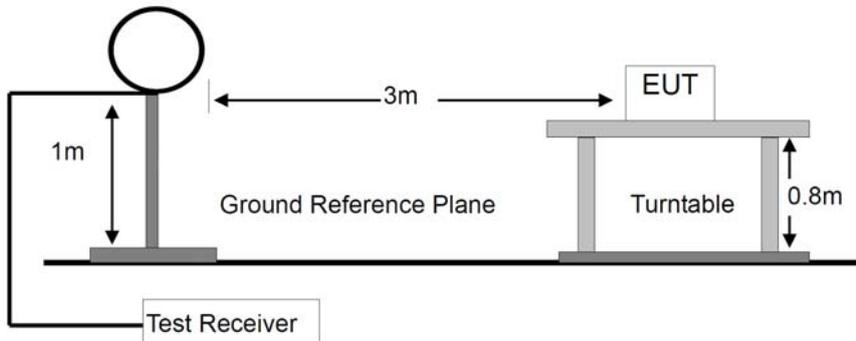
According to 15.231(b), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/ meter)	spurious emissions (microvolts/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

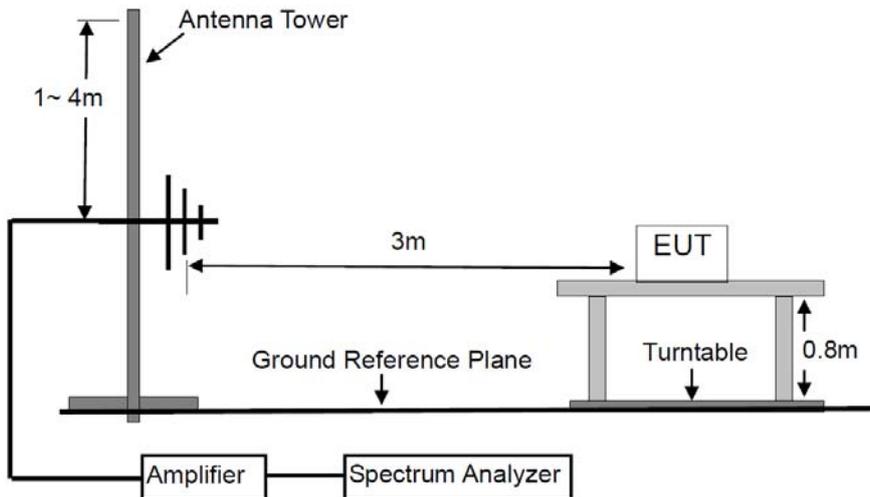
Remark: (1) * Linear interpolations
(2) Emission level (dB) μ V = 20 log Emission level μ V/m
(3) The smaller limit shall apply at the cross point between two frequency bands.

BLOCK DIAGRAM OF TEST SETUP

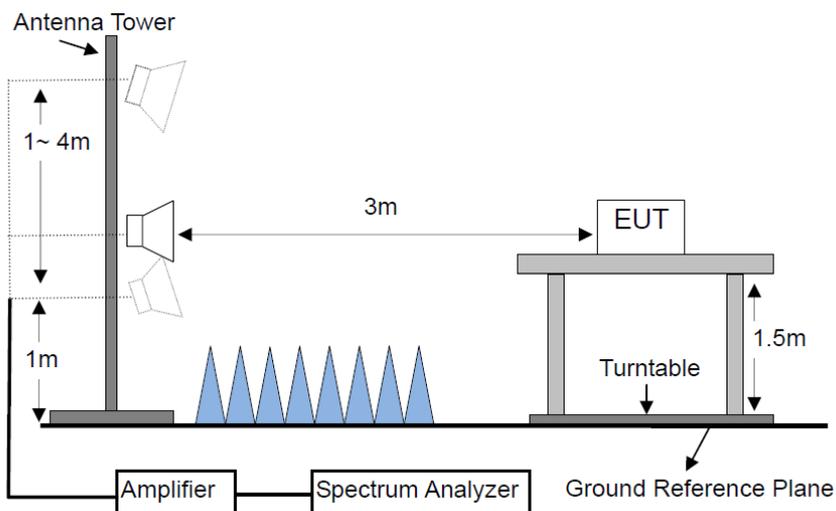
For Radiated Emission below 30MHz



For Radiated Emission 30-1000MHz



For Radiated Emission Above 1000MHz.



TEST PROCEDURES

- a. Below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- b. For the radiated emission test above 1GHz:

The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The height of antenna 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.
- e. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Detector	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Average	1 MHz	10 Hz

TEST RESULTS

PASS

Please refer to the following pages.

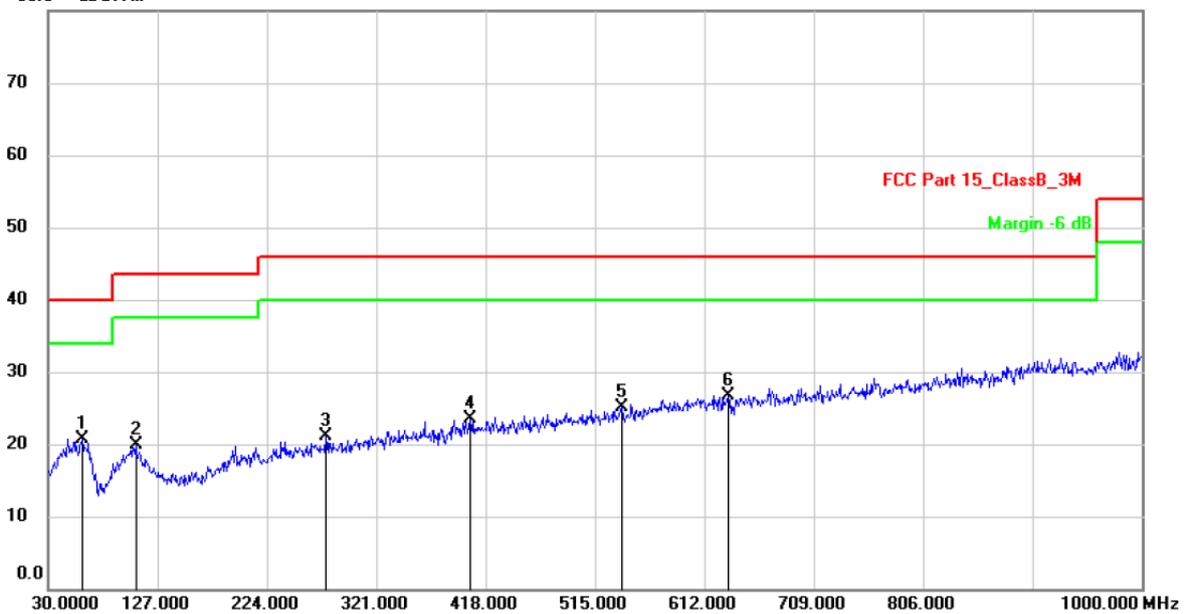
M/N: KTR-140	Testing Voltage: DC 3V
Polarization: Horizontal	Detector: QP
Test Mode: TX	Distance: 3m

Radiated Emission Measurement

Date: 2020/11/11

Time: 8:30:33

80.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		60.0700	27.93	-7.26	20.67	40.00	-19.33	QP	
2		107.6000	27.37	-7.54	19.83	43.50	-23.67	QP	
3		276.3800	26.96	-5.92	21.04	46.00	-24.96	QP	
4		404.4200	26.74	-3.26	23.48	46.00	-22.52	QP	
5		539.2500	26.24	-1.08	25.16	46.00	-20.84	QP	
6	*	633.3400	25.64	1.06	26.70	46.00	-19.30	QP	

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

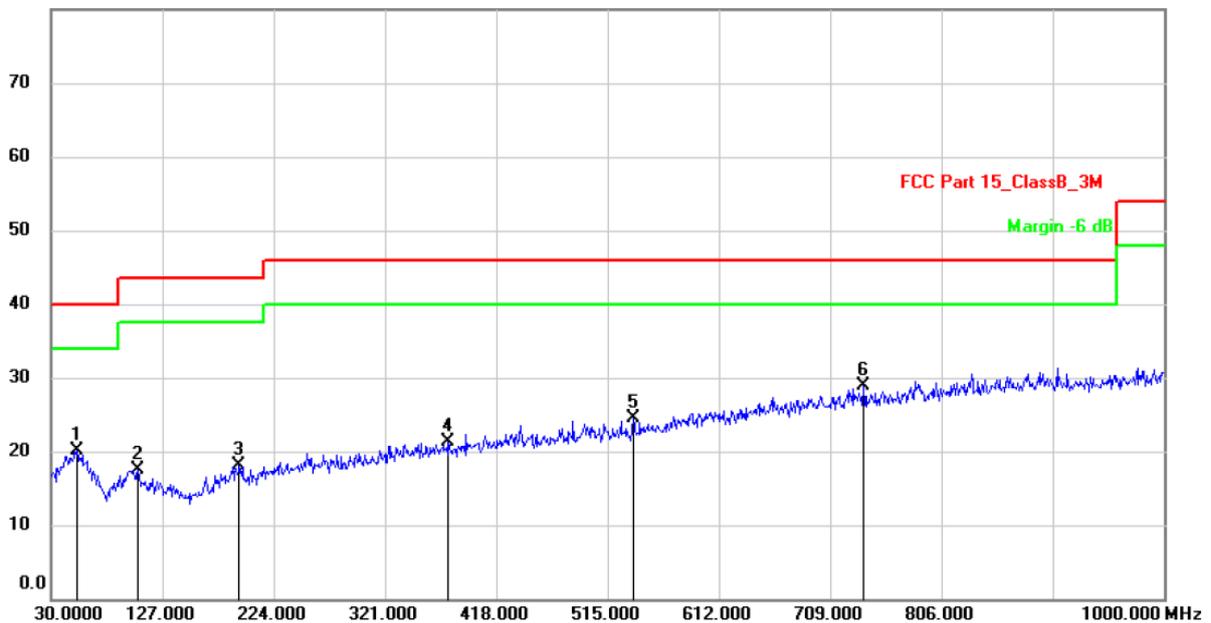
M/N: KTR-140	Testing Voltage: DC 3V
Polarization: Vertical	Detector: QP
Test Mode: TX	Distance: 3m

Radiated Emission Measurement

Date: 2020/11/11

Time: 8:42:38

80.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		52.3100	27.40	-7.30	20.10	40.00	-19.90	QP	
2		105.6600	26.94	-9.50	17.44	43.50	-26.06	QP	
3		193.9299	27.07	-8.98	18.09	43.50	-25.41	QP	
4		376.2900	26.04	-4.79	21.25	46.00	-24.75	QP	
5		537.3100	26.66	-2.12	24.54	46.00	-21.46	QP	
6	*	738.1000	26.06	2.83	28.89	46.00	-17.11	QP	

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

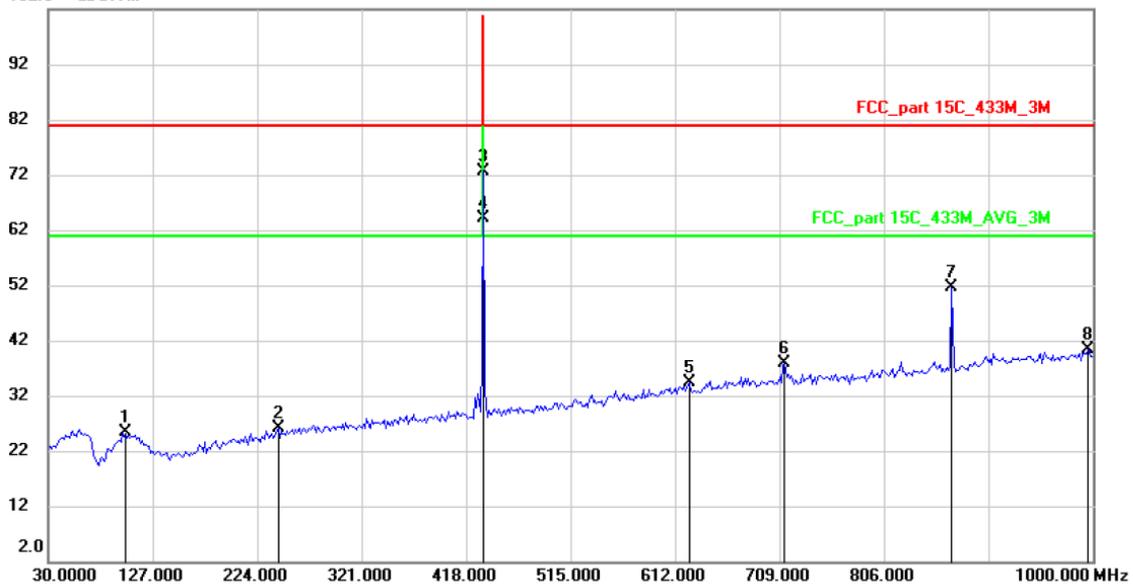
M/N: KTR-140	Testing Voltage: DC 3V
Polarization: Horizontal	Detector: Peak & AVG
Test Mode: TX	Distance: 3m

Radiated Emission Measurement

Date: 2020/11/5

Time: 18:55:50

102.0 dBuV/m



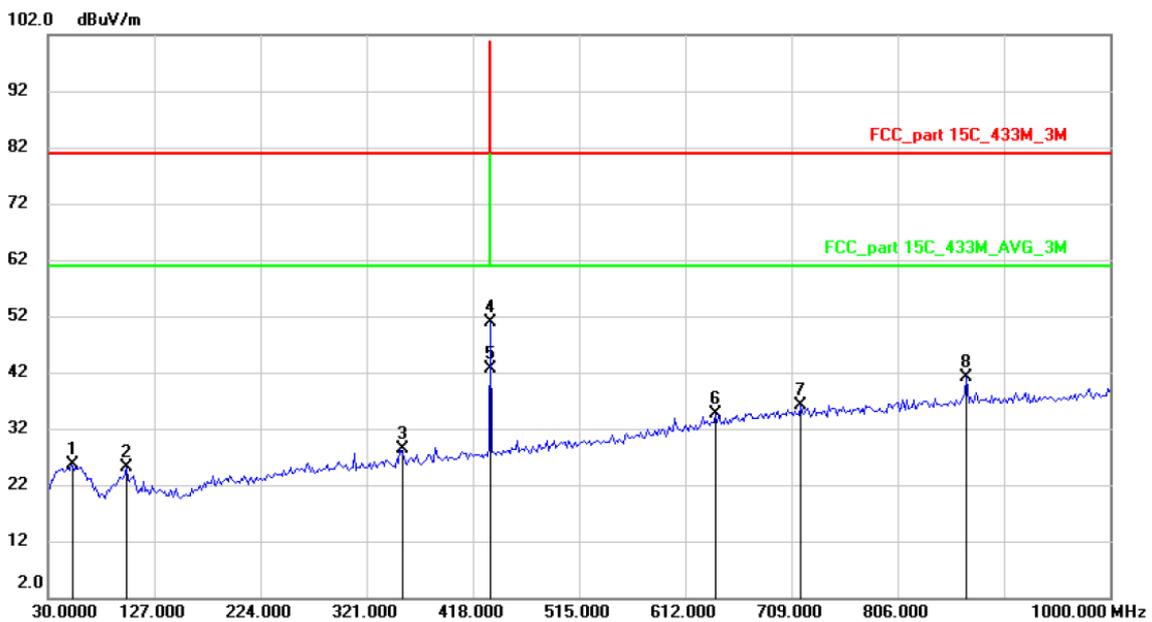
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		99.5167	5.65	19.83	25.48	80.80	-55.32	peak	
2		243.4000	5.80	20.36	26.16	80.80	-54.64	peak	
3		433.9890	48.53	24.22	72.75	100.80	-28.05	peak	
4	*	433.9890	39.79	24.22	64.01	80.80	-16.79	AVG	
5		624.9333	6.76	27.63	34.39	80.80	-46.41	peak	
6		713.8500	8.71	29.14	37.85	80.80	-42.95	peak	
7		869.0500	20.20	31.51	51.71	80.80	-29.09	peak	
8		995.1500	6.69	33.68	40.37	80.80	-40.43	peak	

M/N: KTR-140	Testing Voltage: DC 3V
Polarization: Vertical	Detector: Peak & AVG
Test Mode: TX	Distance: 3m

Radiated Emission Measurement

Date: 2020/11/5

Time: 19:02:01



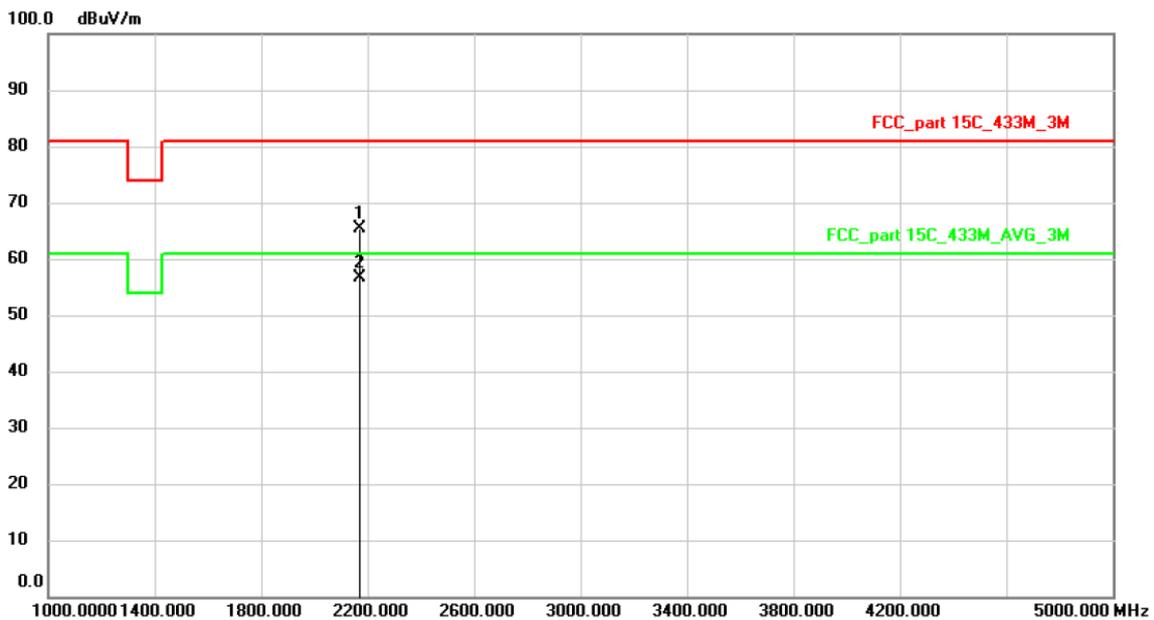
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		51.0167	5.26	20.30	25.56	80.80	-55.24	peak	
2		101.1333	6.36	18.79	25.15	80.80	-55.65	peak	
3		351.7167	6.67	21.79	28.46	80.80	-52.34	peak	
4		433.9890	27.70	23.22	50.92	100.80	-49.88	peak	
5	*	433.9890	19.50	23.22	42.72	80.80	-38.08	AVG	
6		639.4833	7.37	27.28	34.65	80.80	-46.15	peak	
7		717.0833	7.02	29.19	36.21	80.80	-44.59	peak	
8		869.0500	9.55	31.51	41.06	80.80	-39.74	peak	

M/N: KTR-140	Testing Voltage: DC 3V
Polarization: Horizontal	Detector: Peak & AVG
Test Mode: TX	Distance: 3m

Radiated Emission Measurement

Date: 2020/11/5

Time: 18:27:46



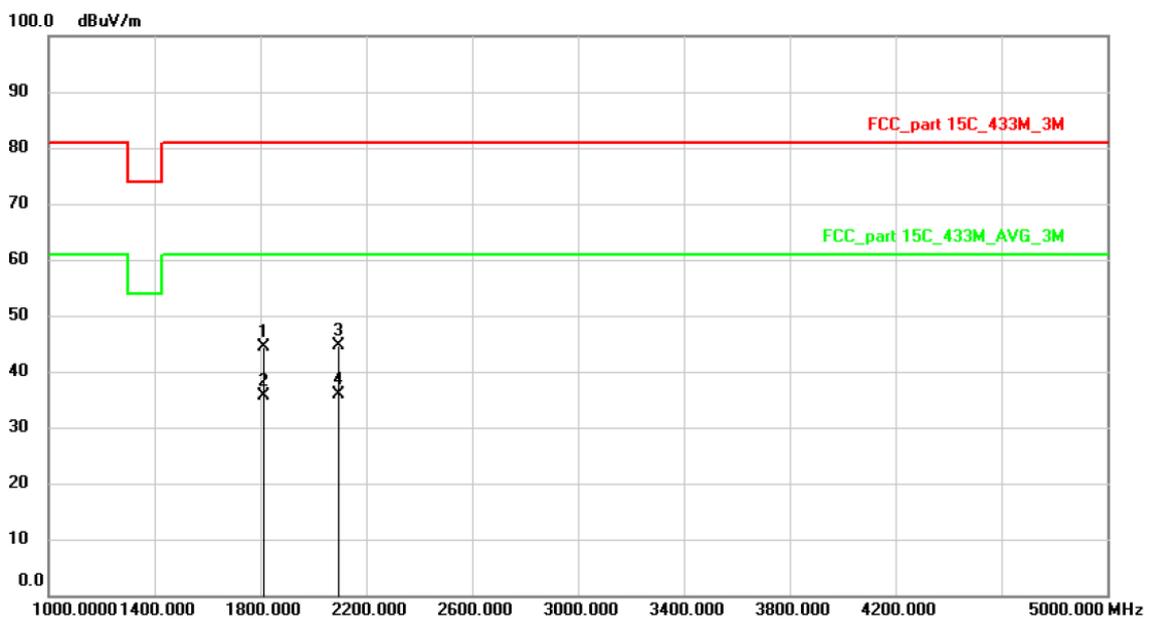
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2166.667	65.90	-0.48	65.42	80.80	-15.38	peak	
2	*	2166.667	57.16	-0.48	56.68	60.80	-4.12	AVG	

M/N: KTR-140	Testing Voltage: DC 3V
Polarization: Vertical	Detector: Peak & AVG
Test Mode: TX	Distance: 3m

Radiated Emission Measurement

Date: 2020/11/5

Time: 18:34:49



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		1814.102	47.66	-3.31	44.35	80.80	-36.45	peak	
2		1814.102	38.92	-3.31	35.61	60.80	-25.19	AVG	
3		2089.744	45.31	-0.65	44.66	80.80	-36.14	peak	
4	*	2089.744	36.57	-0.65	35.92	60.80	-24.88	AVG	

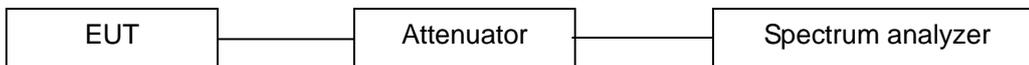
14.3 20dB Occupied Bandwidth

LIMIT

According to 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.

$$\text{Limit} = 433.92\text{MHz} \times 0.25\% = 1084.8 \text{ KHz}$$

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

1. The output port (antenna) from the transmitter was connected to an attenuator and then to the input of the RF Spectrum analyzer.
2. Spectrum analyzer set the corresponding parameters for measurement and record the tested data

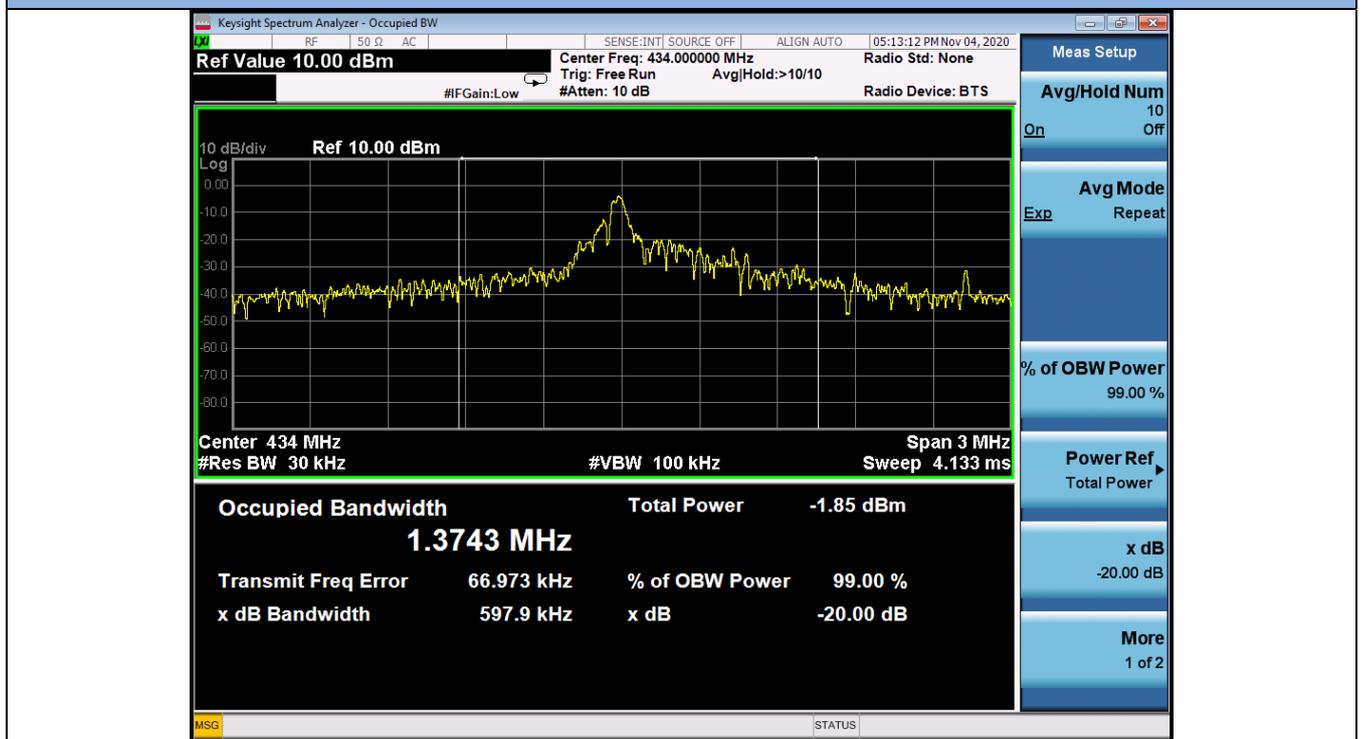
TEST RESULTS

PASS

Please refer to the following table.

Frequency (MHz)	20 dB Bandwidth (KHz)	Limit (KHz)	Result
433.92	597.9	1084.8	PASS

Test Photo



14.4 Transmission time

LIMIT

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.

15.231(a) (2) A transmitter activated automatically shall cease transmission within 5seconds after activation.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

1. The output port (antenna) from the transmitter was connected to an attenuator and then to the input of the RF Spectrum analyzer.
2. Spectrum analyzer set the corresponding parameters for measurement and record the tested data.

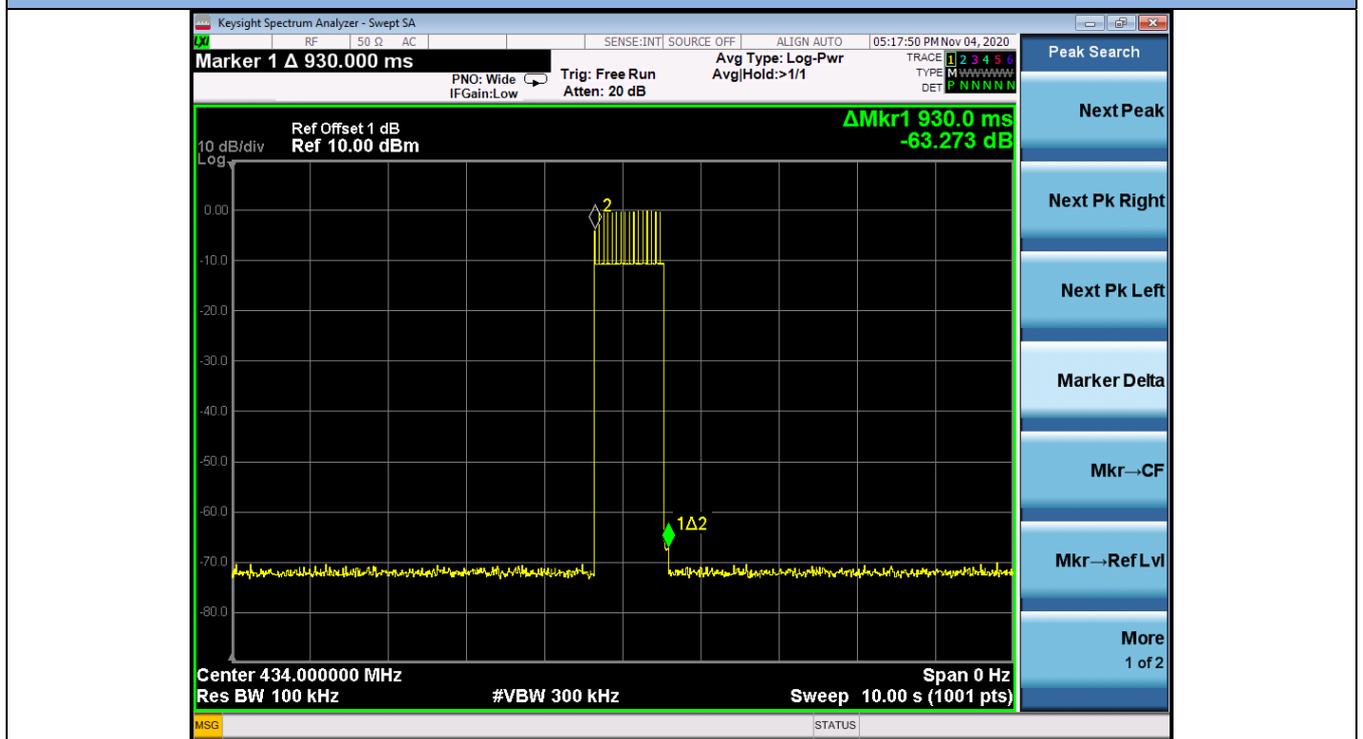
TEST RESULTS

PASS

Please refer to the following table.

Frequency (MHz)	Transmission time (sec)	Limit (sec)	Result
433.92	0.93	5	PASS

Test Photo



14.5 Antenna Requirement

STANDARD APPLICABLE

According to of FCC part 15C section 15.203 and 15.240:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

ANTENNA CONNECTED CONSTRUCTION

The antenna is FPC antenna that no antenna other than furnished by the responsible party shall be used with the device, and the best case gain of the antenna is 0.0 dBi, Therefore, the antenna is consider meet the requirement.

15. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI7	100837	Mar. 13, 2020	1 Year
2.	Antenna	Schwarzbeck	VULB9162	9162-010	Mar. 23, 2020	1 Year
3.	Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	Mar. 13, 2020	1 Year
4.	Spectrum Analyzer	Keysight	N9020A	MY54200831	Mar. 13, 2020	1 Year
5.	Spectrum Analyzer	Rohde & Schwarz	FSV40	101094	Mar. 13, 2020	1 Year
6.	Horn Antenna	Schwarzbeck	BBHA9170	9170-172	Mar. 22, 2019	2 Year
7.	Power Sensor	DARE	RPR3006W	15I00041SNO 64	Mar. 13, 2020	1 Year
8.	Communication Tester	Rohde & Schwarz	CMW500	149004	Mar. 13, 2020	1 Year
9.	Horn Antenna	COM-Power	AH-118	071078	Mar. 23, 2020	1 Year
10.	Pre-Amplifier	HP	HP 8449B	3008A00964	Mar. 13, 2020	1 Year
11.	Pre-Amplifier	HP	HP 8447D	1145A00203	Mar. 13, 2020	1 Year
12.	Loop Antenna	Schwarzbeck	FMZB 1513	1513-272	Mar. 23, 2020	1 Year
13.	Test Receiver	Rohde & Schwarz	ESCI	101152	Mar. 14, 2020	1 Year
14.	L.I.S.N	Rohde & Schwarz	ENV 216	101317	Mar. 13, 2020	1 Year
15.	L.I.S.N	Rohde & Schwarz	ESH2-Z5	893606/014	Mar. 13, 2020	1 Year
16.	RF Switching Unit	Compliance Direction Systems Inc.	RSU-M2	38311	Mar.13, 2020	1 Year
17.	Temperature & Humidity Chamber	REMAFEE	SYHR225L	N/A	Mar. 13, 2020	1 Year
18.	DC Source	Maynuo	MY8811	N/A	Mar. 13, 2020	1 Year
19.	Temporary antenna connector	TESCOM	SS402	N/A	N/A	N/A
20.	Chamber	SAEMC	9*7*7m	N/A	Jun. 20, 2019	2 Year
21.	Test Software	EZ	EZ_EMCC	N/A	N/A	N/A

Note: For photographs of EUT and measurement, please refer to appendix in separate documents.

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