FCC TEST REPORT

Client Name	:	JEICO
Address	:	94-1, Choryang-ro, Dong-gu, Busan 48805, South Korea
Product Name	:	Industrial wireless remote controller
Date	:	Jul. 26, 2021

Shenzhen Anbotek Compliance Laboratory Limited

Contents

TEST REPORT

Applicant	:	JEICO
Manufacturer	:	JEICO
Product Name	:	Industrial wireless remote controller
Model No.	:	JREMO 10K, JREMO 10KA, JREMO 10KB, JREMO 10KC, JREMO 10KD, JREMO 10L, JREMO 10KM, JREMO 810
Trade Mark	:	JEICO, JREMO
Rating(s)	:	Input: DC 6V

Test Standard(s)	**:**	**FCC Part15 Subpart C, Section 15.231**
Test Method(s)	**:**	**ANSI C63.10: 2013**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt Jun. 15, 2021

Date of Test Jun. 15~Jul. 07, 2021

Prepared by

(Ella Liang)

Approved & Authorized Signer

(Tom Chen)

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1. General Information

1.1. Client Information

Applicant	:	JEICO
Address	:	94-1, Choryang-ro, Dong-gu, Busan 48805, South Korea
Manufacturer	:	JEICO
Address	:	94-1, Choryang-ro, Dong-gu, Busan 48805, South Korea
Factory	:	JEICO
Address	:	94-1, Choryang-ro, Dong-gu, Busan 48805, South Korea

1.2. Description of Device (EUT)

Product Name	:	Industrial wireless remote controller	
Model No.	:	JREMO 10K, JREMO 10KA, JREMO 10KB, JREMO 10KC, JREMO 10KD, JREMO 10L, JREMO 10KM, JREMO 810 (Note: All samples are the same except the the model number, buttons type and appearance color, so we prepare "JREMO 10K" for test only.)	
Trade Mark	:	JEICO, JREMO	
Test Power Supply	:	DC 6V Battery inside	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	433.05-434.775MHz
		Number of Channel:	70 Channels
		Modulation Type:	GFSK
		Antenna Type:	FPC Antenna(Monopole type)
		Antenna Gain(Peak):	1.5 dBi
Remark: 1)For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			

1.3. Auxiliary Equipment Used During Test

N/A	:	

1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH01
Mode 2	CH35
Mode 3	CH70

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH01
Mode 2	CH35
Mode 3	CH70

Note:

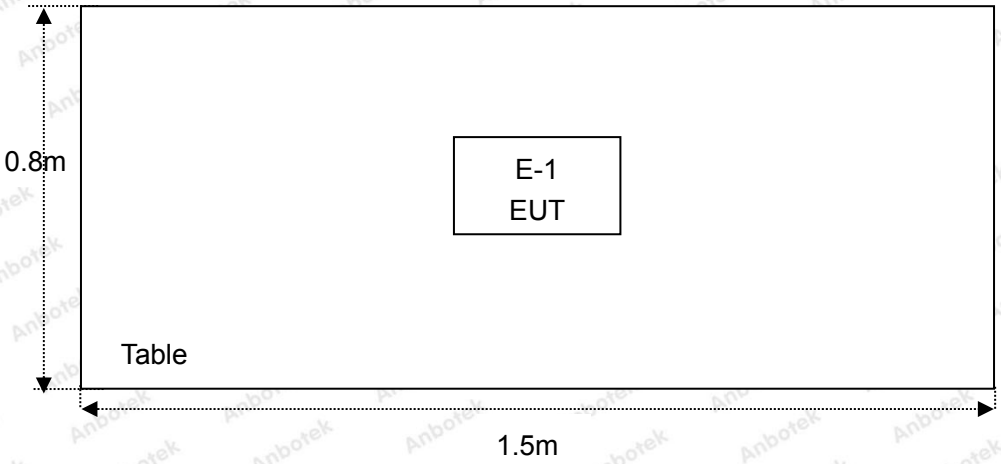
1. During the test, the EUT was keeping continuous transmission.

1.5. List of Channels

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	433.050	19	433.500	37	433.950	55	434.400
2	433.075	20	433.525	38	433.975	56	434.425
3	433.100	21	433.550	39	434.000	57	434.450
4	433.125	22	433.575	40	434.025	58	434.475
5	433.150	23	433.600	41	434.050	59	434.500
6	433.175	24	433.625	42	434.075	60	434.525
7	433.200	25	433.650	43	434.100	61	434.550
8	433.225	26	433.675	44	434.125	62	434.575
9	433.250	27	433.700	45	434.150	63	434.600
10	433.275	28	433.725	46	434.175	64	434.625
11	433.300	29	433.750	47	434.200	65	434.650
12	433.325	30	433.775	48	434.225	66	434.675
13	433.350	31	433.800	49	434.250	67	434.700
14	433.375	32	433.825	50	434.275	68	434.725
15	433.400	33	433.850	51	434.300	69	434.750
16	433.425	34	433.875	52	434.325	70	434.775
17	433.450	35	433.900	53	434.350	/	/
18	433.475	36	433.925	54	434.375	/	/

1.6. Description of Test Setup

RE



1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 26, 2020	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 26, 2020	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 26, 2020	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 26, 2020	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26, 2020	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Oct. 26, 2020	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 02, 2020	2 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 02, 2020	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 02, 2020	2 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Nov. 02, 2020	2 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 26, 2020	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Oct. 26, 2020	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Oct. 26, 2020	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Oct. 26, 2020	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26, 2020	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 26, 2020	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 26, 2020	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 26, 2020	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 26, 2020	1 Year

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Hotline 400-003-0500 www.anbotek.com

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 30, 2020.

ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, September 30, 2020.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.
1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

2. Summary of Test Results

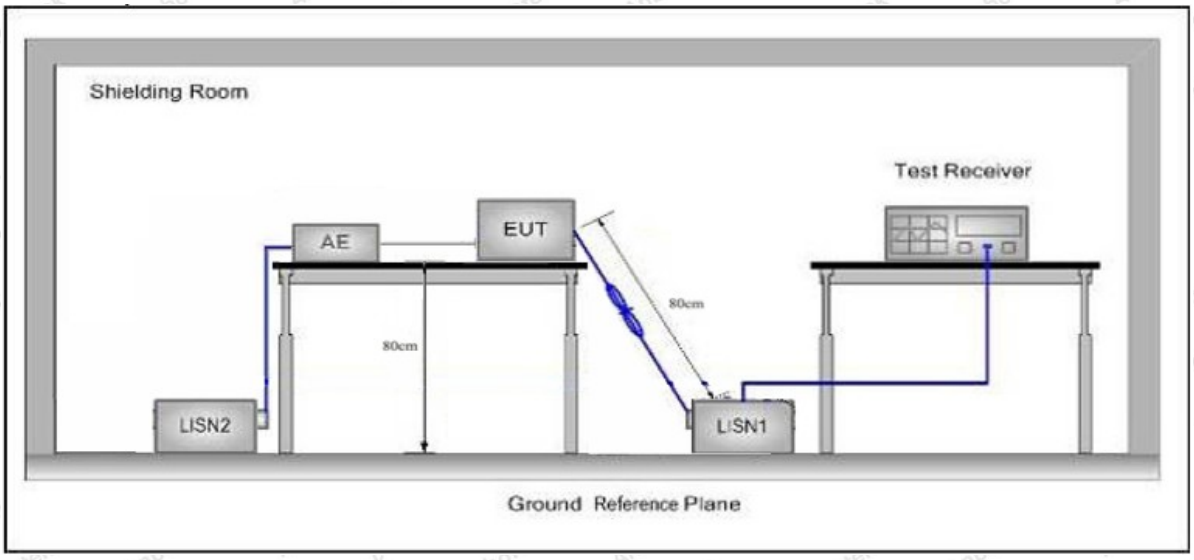
Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission	N/A
15.205/15.209/15.231(b)	Spurious Emission	PASS
15.231(c)	20dB Occupied Bandwidth	PASS
15.231(a)	Dwell time	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		

3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50
Remark: (1) *Decreasing linearly with logarithm of the frequency. (2) The lower limit shall apply at the transition frequency.			

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test CAR REMOTE (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Not Applicable.

The EUT is powered by battery, so there is no need for conducted emission test.

4. Radiated Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209, 15.205 and 15.231(b)				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3
Remark: (1)The lower limit shall apply at the transition frequency. (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

the formulas for calculating the maximum permitted fundamental field strengths are as follows:
for the band 260-470 MHz, μV/m at 3 meters = 41.6667(F) - 7083.3333.
The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level

Emission Level (dBuV/m)=20log Emission Level(uV/m)

The field strength of emission limits have been calculated in below table:

Fundamental Frequency (MHz)	Field Strength of Fundamental (dBuV/m)@3m
433.05	80.80 (AVG)
433.05	100.80 (Peak)
433.90	80.82 (AVG)
433.90	100.82 (Peak)
434.775	80.85 (AVG)
434.775	100.85 (Peak)

4.2. Test Setup

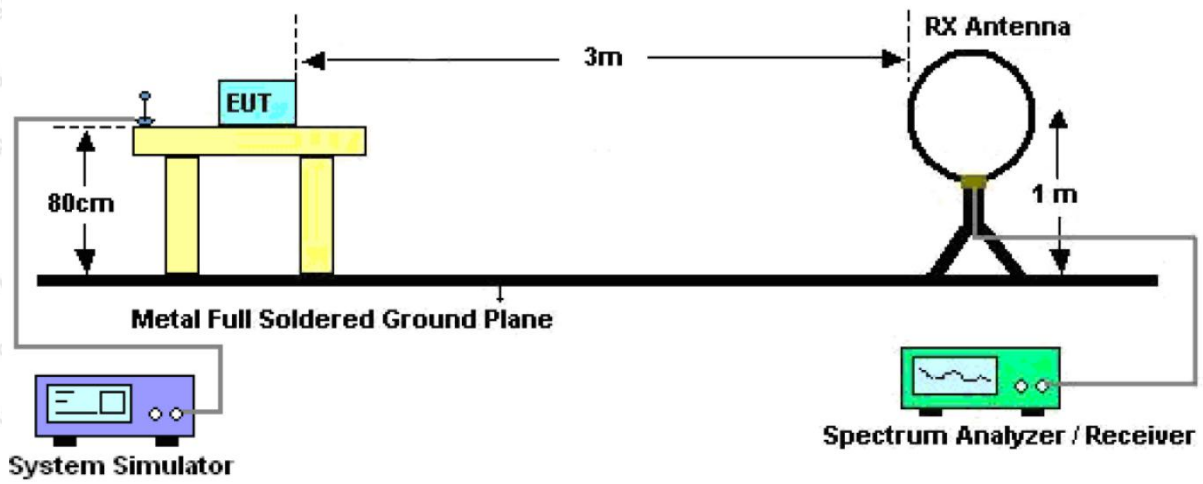


Figure 1. Below 30MHz

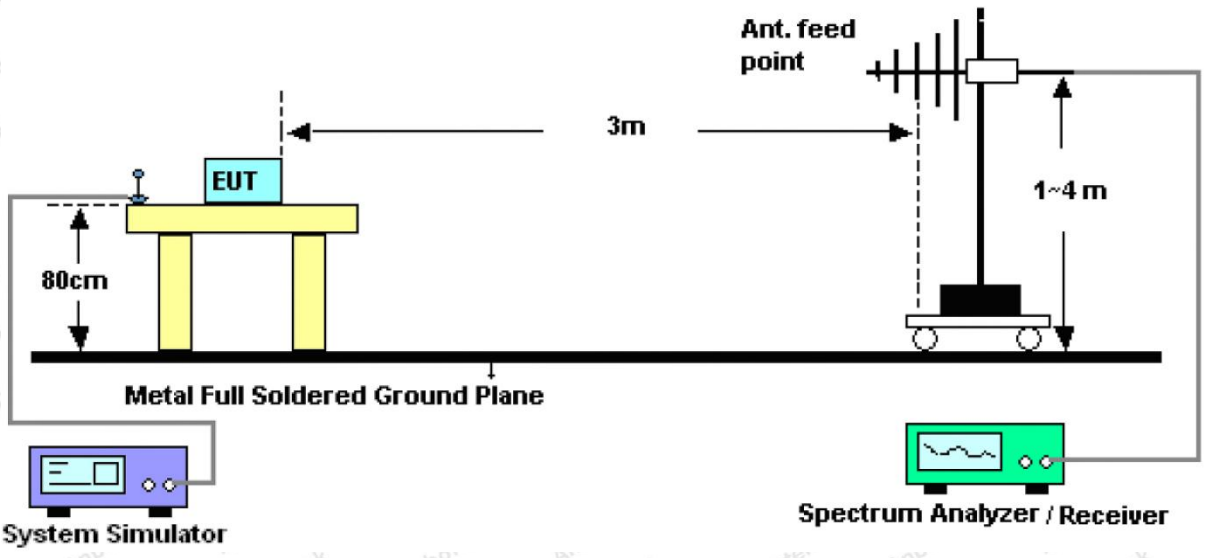


Figure 2. 30MHz to 1GHz

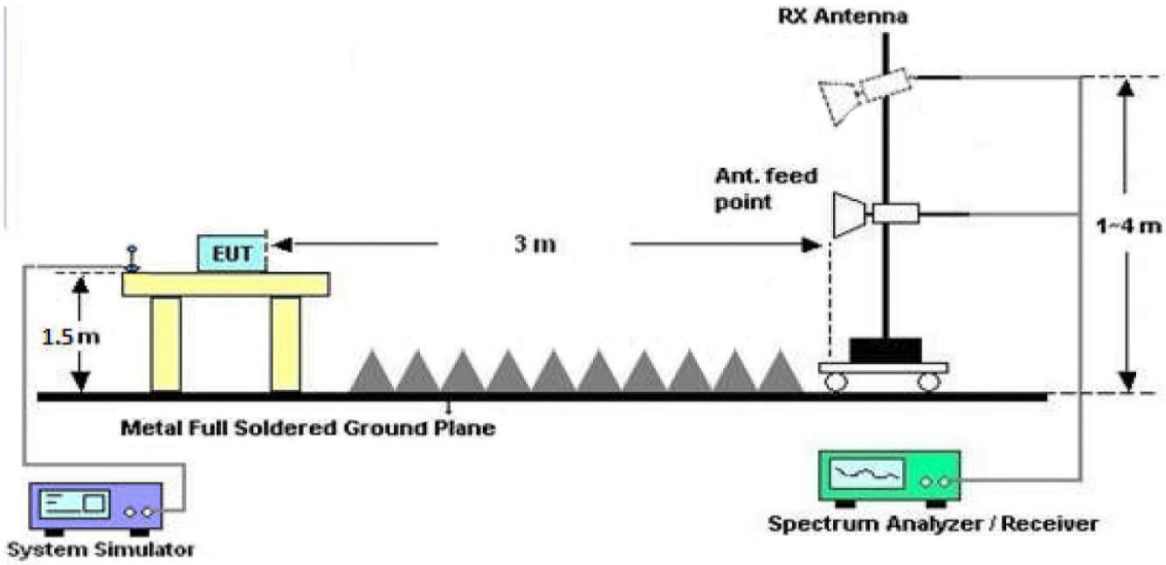


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.
For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.
The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:
RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:
RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:
RBW = 100kHz, VBW =300kHz,Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz,Set the spectrum analyzer as:
RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.
RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz are attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all modes, only the worst case is recorded in the report.

Test Results (30~1000MHz)

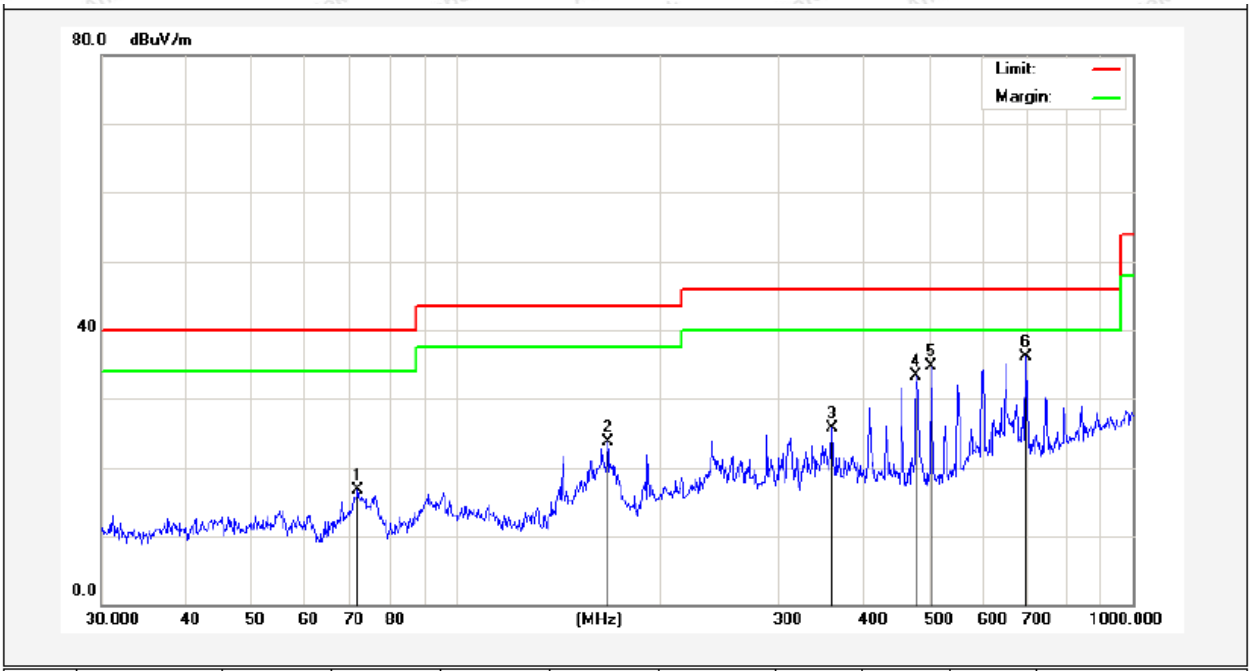
Test Mode: 434.775MHz

Power Source: DC 6V battery inside

Polarization: Horizontal

Temp.(℃)/Hum.(%RH): 22.5℃/50%RH

Note:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	71.8320	39.52	-22.78	16.74	40.00	-23.26	QP	300	360	
2	167.8243	45.49	-21.79	23.70	43.50	-19.80	QP	300	321	
3	359.1860	40.45	-14.80	25.65	46.00	-20.35	QP	300	212	
4	478.8456	46.29	-12.96	33.33	46.00	-12.67	QP	300	330	
5	504.7062	47.00	-12.36	34.64	46.00	-11.36	QP	300	99	
6	694.4174	45.46	-9.45	36.01	46.00	-9.99	QP	300	77	

Test Results (30~1000MHz)

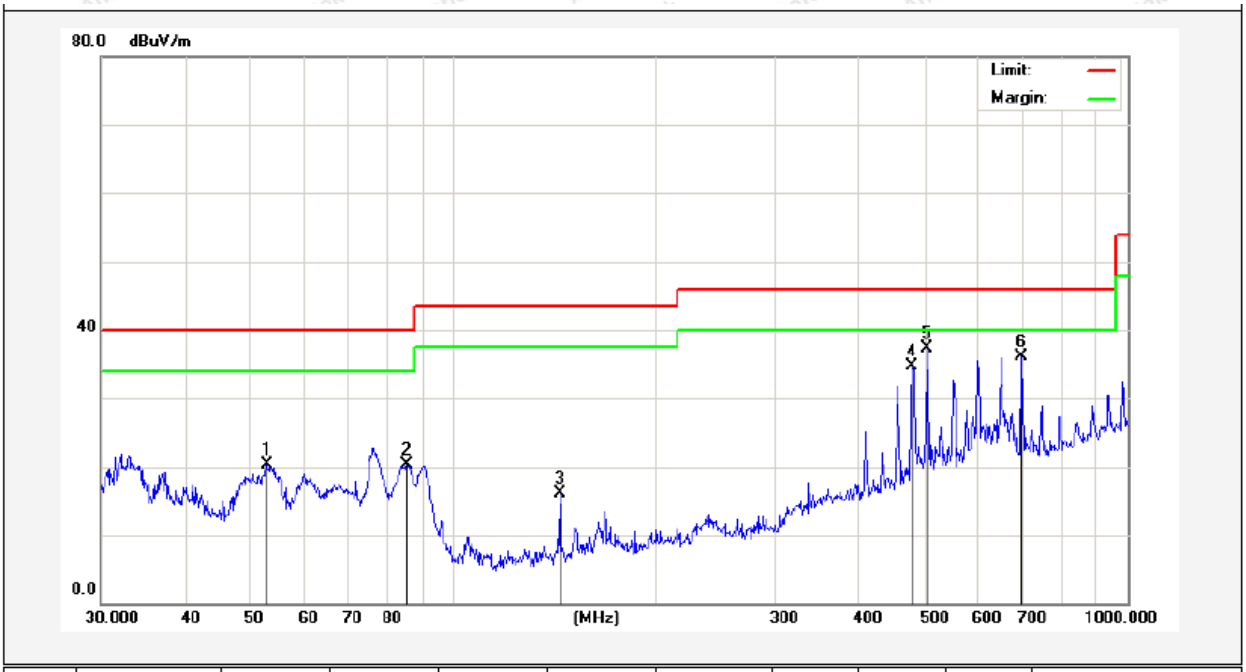
Test Mode: 434.775MHz

Power Source: DC 6V battery inside

Polarization: Vertical

Temp.(℃)/Hum.(%RH): 22.5℃/50%RH

Note:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	52.9453	37.28	-16.93	20.35	40.00	-19.65	QP	300	360	
2	85.2980	40.05	-19.82	20.23	40.00	-19.77	QP	300	321	
3	143.8295	35.55	-19.43	16.12	43.50	-27.38	QP	300	177	
4	478.8456	47.60	-12.96	34.64	46.00	-11.36	QP	300	193	
5	504.7062	49.49	-12.26	37.23	46.00	-8.77	QP	300	259	
6	696.8567	45.35	-9.31	36.04	46.00	-9.96	QP	300	233	

Remark:

1. Results = Reading + Cable Loss +Ant Factor –Amplifier

Test Results (Fundamental)

Freq.	Antenna	Reading	Cable Loss	Ant Factor	Amplifier	Duty cycle Factor	Results	Limits	Det.
(MHz)	Pol.	(dBuV/m)	(dB)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	Mode
433.05	H	99.74	1.52	12.64	31.45	-	82.45	100.80	PK
433.05	H	99.74	1.52	12.64	31.45	-7.27	75.18	80.80	AV
433.05	V	95.84	1.52	12.64	31.45	-	78.55	100.80	PK
433.05	V	95.84	1.52	12.64	31.45	-7.27	71.28	80.80	AV
433.90	H	97.48	1.52	12.64	31.45	-	80.19	100.82	PK
433.90	H	97.48	1.52	12.64	31.45	-7.27	72.92	80.82	AV
433.90	V	94.67	1.52	12.64	31.45	-	77.38	100.82	PK
433.90	V	94.67	1.52	12.64	31.45	-7.27	70.11	80.82	AV
434.775	H	100.27	1.52	12.64	31.45	-	82.98	100.85	PK
434.775	H	100.27	1.52	12.64	31.45	-7.43	75.55	80.85	AV
434.775	V	96.48	1.52	12.64	31.45	-	79.19	100.85	PK
434.775	V	96.48	1.52	12.64	31.45	-7.43	71.76	80.85	AV

Remark:

1. Result = Reading + Cable Loss +Ant Factor –Amplifier + Duty cycle Factor
2. Pulse Desensitization Correction Factor

Freq. (MHz)	Pulse Width (ms)	2/Pulse Width（kHz）
433.05	0.400	5.00
433.9	0.400	5.00
434.775	0.390	5.13

RBW(1000kHz)＞ 2/Pulse Width

Therefore PDCF is not needed.

3. AV=PEAK +Duty Cycle Factor

4. Duty Cycle Factor

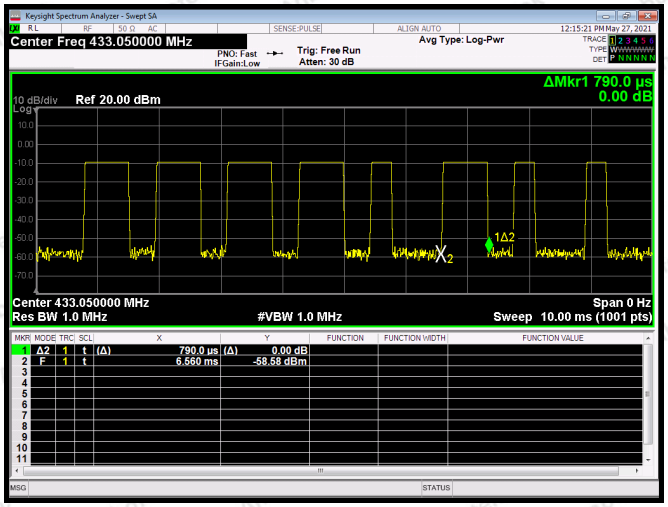
Freq. (MHz)	T on1（ms）	N1	T on2（ms）	N2	T on(ms)	T period(ms)	Duty Cycle	Duty Cycle Factor
433.05	0.790	31	0.400	47	43.29	100.00	43.29%	-7.27
433.9	0.790	31	0.400	47	43.29	100.00	43.29%	-7.27
434.775	0.780	31	0.390	47	42.51	100.00	42.51%	-7.43

T on=T on1*N1+T on2*N2

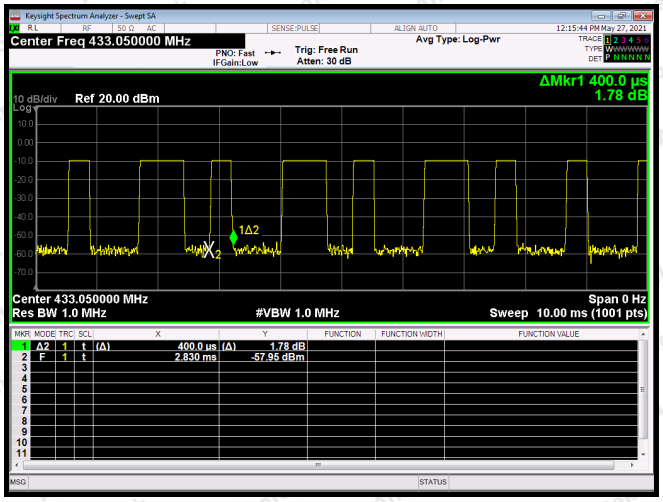
Duty Cycle=T on/T period

Duty Cycle Factor =20*lg(Duty Cycle)

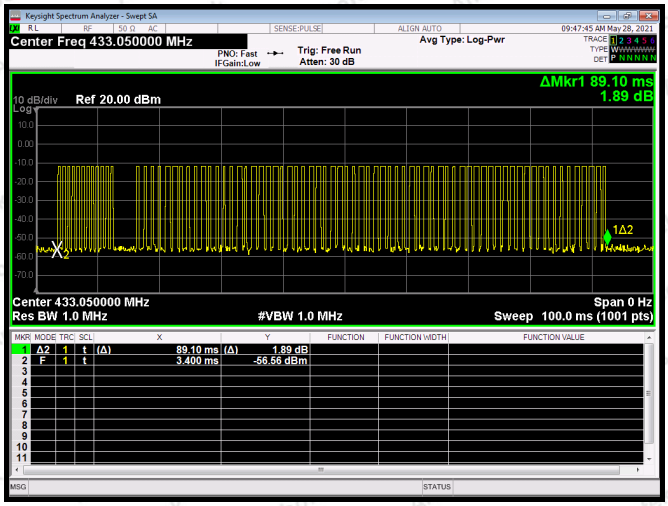
433.05MHz-T on1



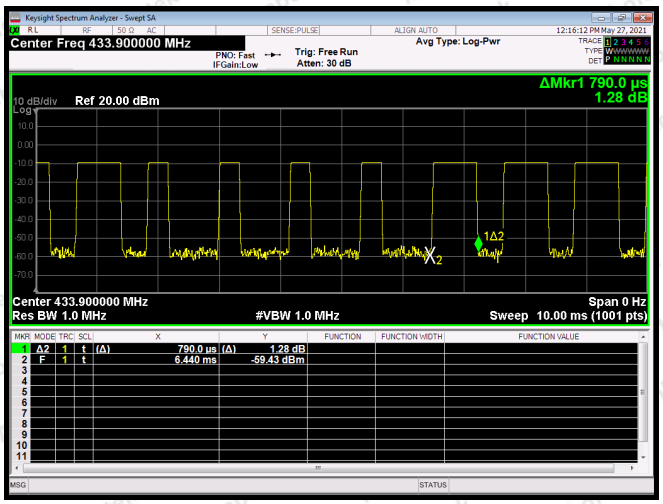
433.05MHz-T on2



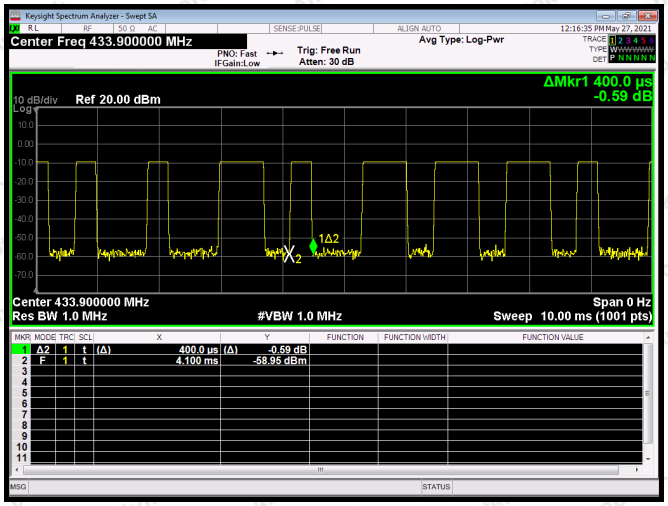
433.05MHz-T period



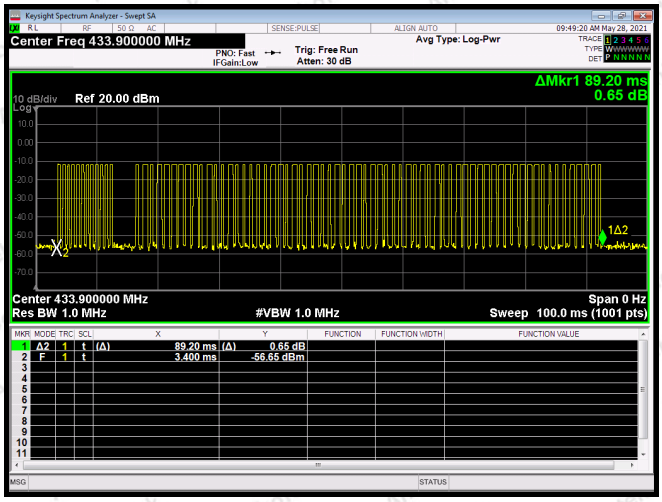
433.9MHz-T on1



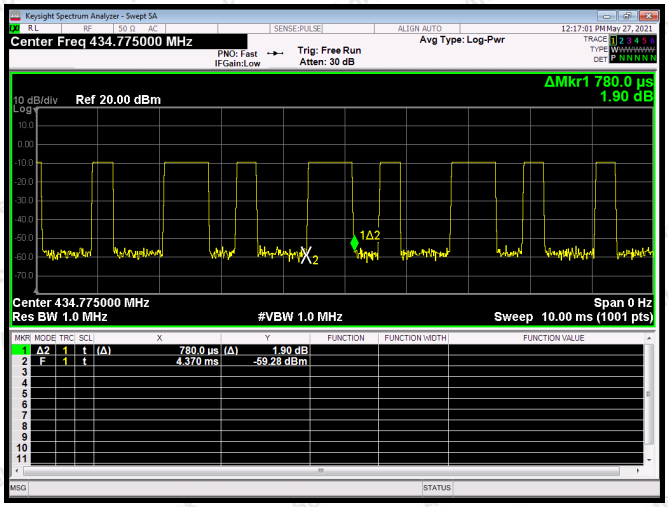
433.9MHz-T on2



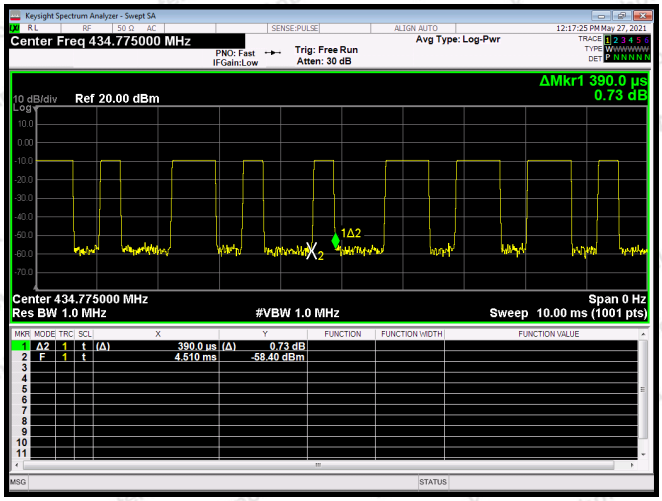
433.9MHz-T period



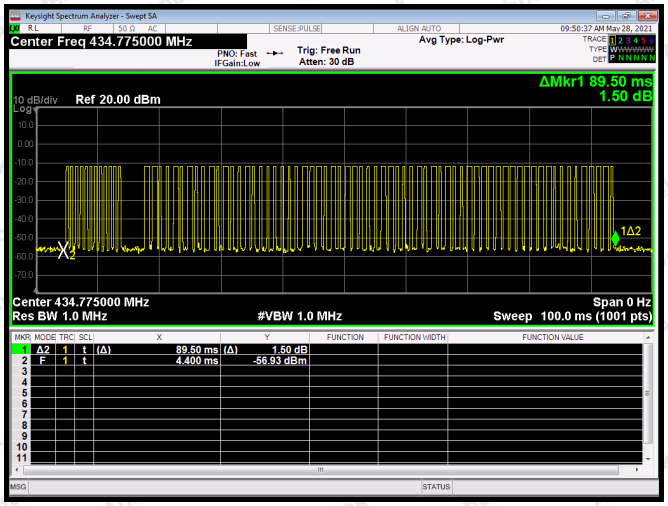
434.775MHz-T on1



434.775MHz-T on2



434.775MHz-T period



Test Results (Harmonics Emissions+Radiated Emissions from 1G-5G)

433.05MHz

Frequency	Antenna	Reading	Cable Loss	Ant Factor	Amplifier	Duty cycle Factor	Results	Limits	Det
(MHz)	Pol.	(dBuV/m)	(dB)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	Mode
866.10	H	74.45	1.92	12.71	31.72	-	57.36	80.80	PK
866.10	H	74.45	1.92	12.71	31.72	-7.27	50.09	60.80	AV
866.10	V	76.37	1.92	12.71	31.72	-	59.28	80.80	PK
866.10	V	76.37	1.92	12.71	31.72	-7.27	52.01	60.80	AV
1299.15	H	63.69	2.38	21.43	32.45	-	55.05	74.00	PK
1299.15	H	63.69	2.38	21.43	32.45	-7.27	47.78	54.00	AV
1299.15	V	65.31	2.38	18.56	32.45	-	53.80	74.00	PK
1299.15	V	65.31	2.38	18.56	32.45	-7.27	46.53	54.00	AV

433.9MHz

Frequency	Antenna	Reading	Cable Loss	Ant Factor	Amplifier	Duty cycle Factor	Results	Limits	Det
(MHz)	Pol.	(dBuV/m)	(dB)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	Mode
867.80	H	74.20	1.92	12.71	31.72	-	57.11	80.82	PK
867.80	H	74.20	1.92	12.71	31.72	-7.27	49.84	60.82	AV
867.80	V	76.25	1.92	12.71	31.72	-	59.16	80.82	PK
867.80	V	76.25	1.92	12.71	31.72	-7.27	51.89	60.82	AV
1301.70	H	63.76	2.38	21.43	32.45	-	55.12	74.00	PK
1301.70	H	63.76	2.38	21.43	32.45	-7.27	47.85	54.00	AV
1301.70	V	65.18	2.38	18.56	32.45	-	53.67	74.00	PK
1301.70	V	65.18	2.38	18.56	32.45	-7.27	46.40	54.00	AV

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Hotline 400-003-0500 www.anbotek.com

434.775MHz

Frequency	Antenna	Reading	Cable Loss	Ant Factor	Amplifier	Duty cycle Factor	Results	Limits	Det
(MHz)	Pol.	(dBuV/m)	(dB)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	Mode
869.55	H	74.57	1.92	12.71	31.72	-	57.48	80.85	PK
869.55	H	74.57	1.92	12.71	31.72	-7.43	50.05	60.85	AV
869.55	V	76.54	1.92	12.71	31.72	-	59.45	80.85	PK
869.55	V	76.54	1.92	12.71	31.72	-7.43	52.02	60.85	AV
1304.325	H	63.26	2.38	21.43	32.45	-	54.62	74.00	PK
1304.325	H	63.26	2.38	21.43	32.45	-7.43	47.19	54.00	AV
1304.325	V	65.72	2.38	18.56	32.45	-	54.21	74.00	PK
1304.325	V	65.72	2.38	18.56	32.45	-7.43	46.78	54.00	AV

Remark:

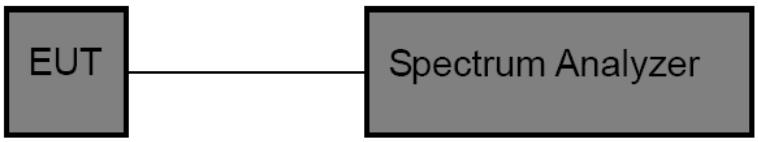
1. Result = Reading + Cable Loss +Ant Factor –Amplifier + Duty cycle Factor

5. 20DB Occupy Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.231 (c)
Test 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. For devices operating above 900MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20dB down from the modulated carrier.

5.2. Test Setup



5.3. Test Procedure

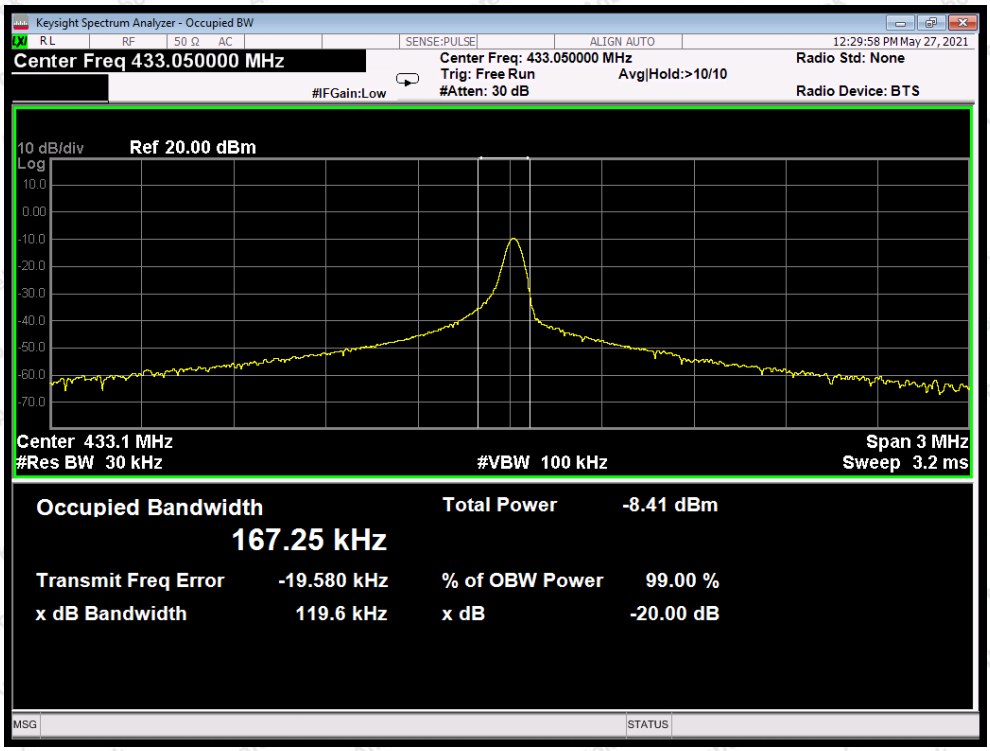
1. Place the EUT on the table and set it in the continuously transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
   RBW = 30kHz, VBW≥3*RBW =100kHz,
   Span= 1MHz
   Detector= Peak
   Trace mode= Max hold.
   Sweep- auto couple.
4. Mark the peak frequency and –20dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

5.4. Test Data

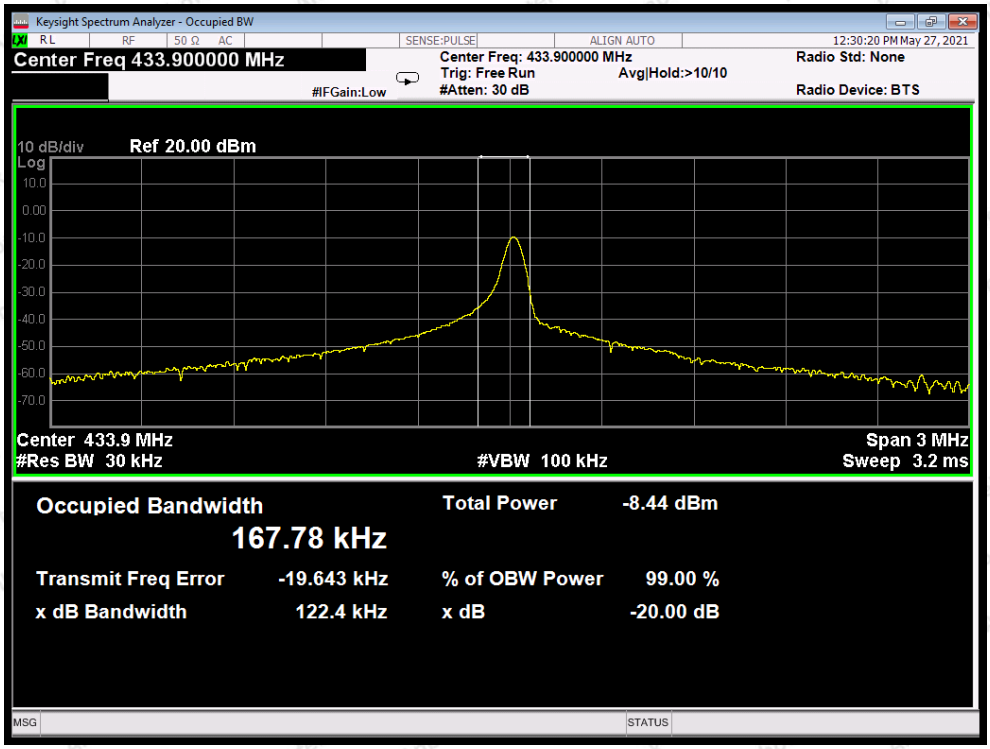
Test Item	:	20dB Bandwidth	Test Mode	:	Continuously transmitting
Test Voltage	:	DC 6V Battery inside	Temperature	:	22.7℃
Test Result	:	PASS	Humidity	:	55%RH

Freq. (MHz)	Modulation Type	Bandwidth (kHz)	Limit (kHz)	Results
433.050	GFSK	119.6	<1082.625	PASS
433.900	GFSK	122.4	<1084.750	PASS
434.775	GFSK	119.8	<1086.938	PASS

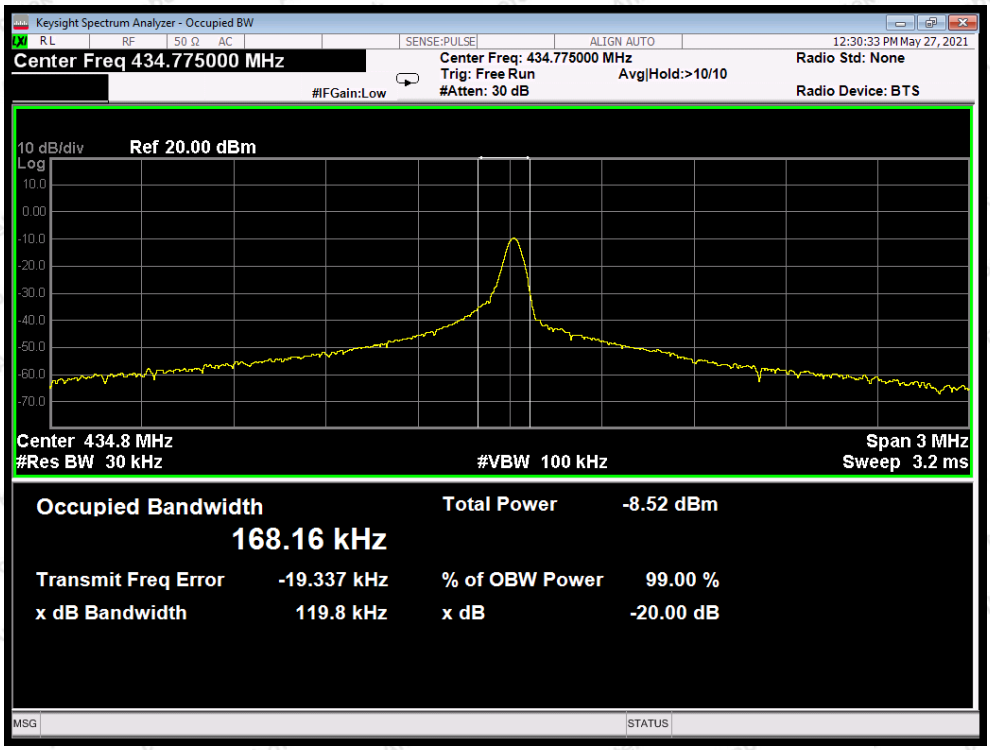
Note: Limit=0.0025*Freq.



433.050MHz



433.90MHz



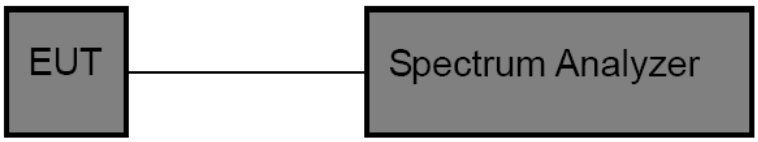
434.775MHz

6. Dwell Time Test

6.1. Test Standard and Limit

Test Standard	FCC Part 15.231(a)(1)
Test Limit	According to FCC Part 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

6.2. Test Setup



6.3. Test Procedure

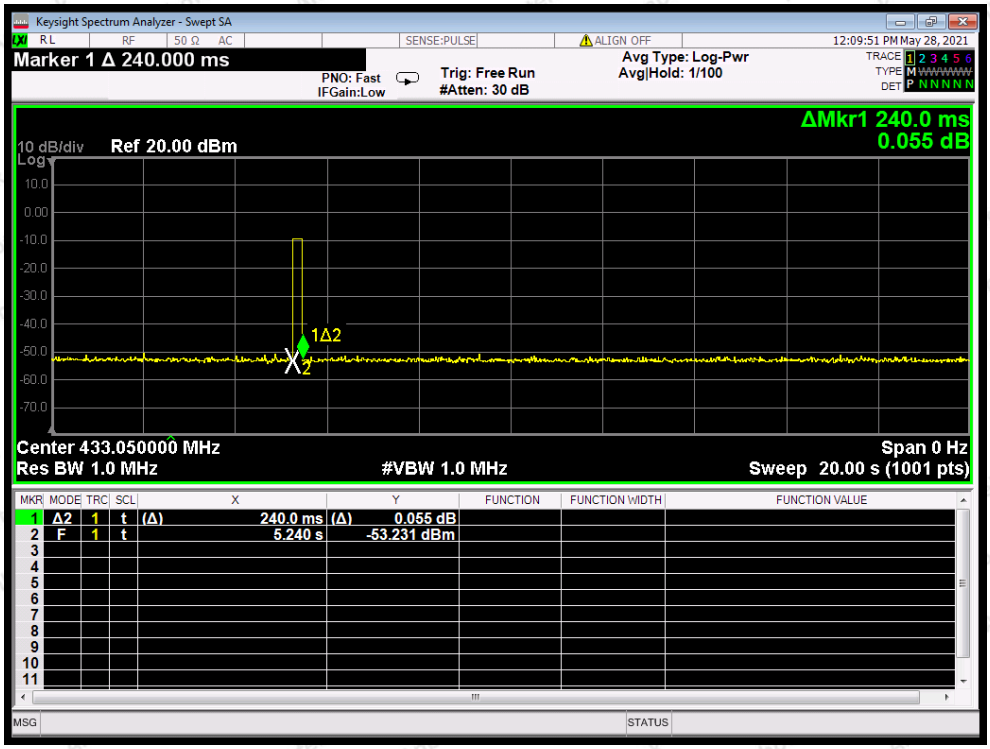
1. Place the EUT on the table and set it in continuously transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as
   RBW=1000kHz, VBW= 1000 kHz, Span= 0Hz, Sweep Time= 20 Seconds.
3. Record the Delta mark time.

6.4. Test Data

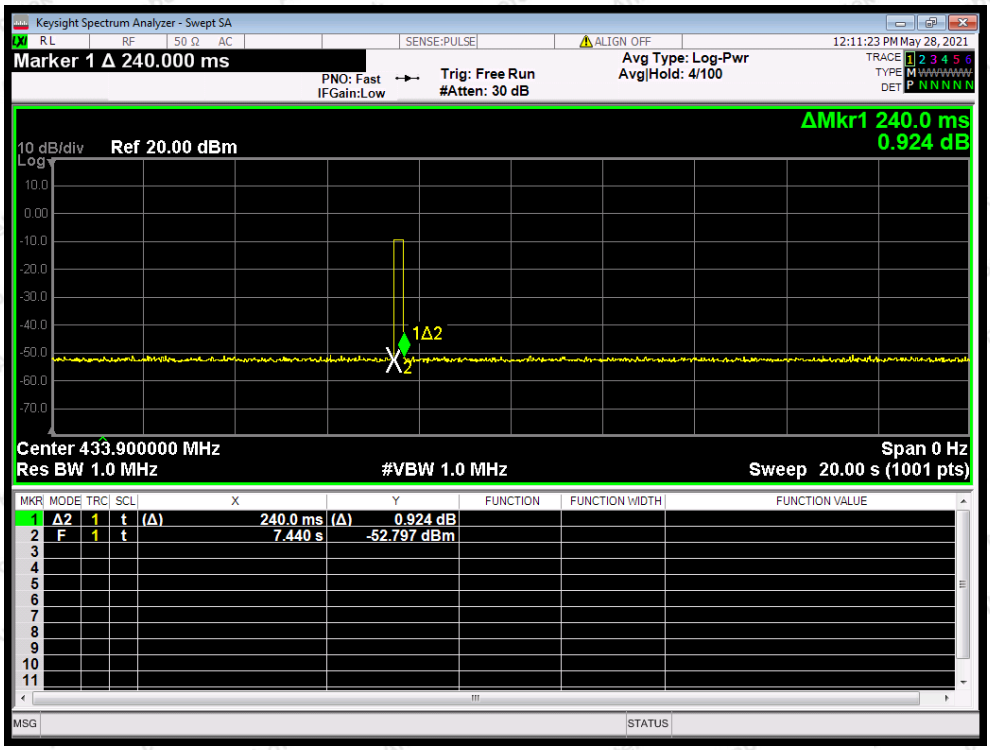
Test Item	:	Dwell Time	Test Mode	:	Continuously transmitting
Test Voltage	:	DC 6V Battery inside	Temperature	:	22.7℃
Test Result	:	PASS	Humidity	:	55%RH

Freq. (MHz)	Test Mode	Transmitting time(s)	Limit(s)	Result
433.050	GFSK mode	0.24	≤5	PASS
433.900	GFSK mode	0.24	≤5	PASS
434.775	GFSK mode	0.28	≤5	PASS

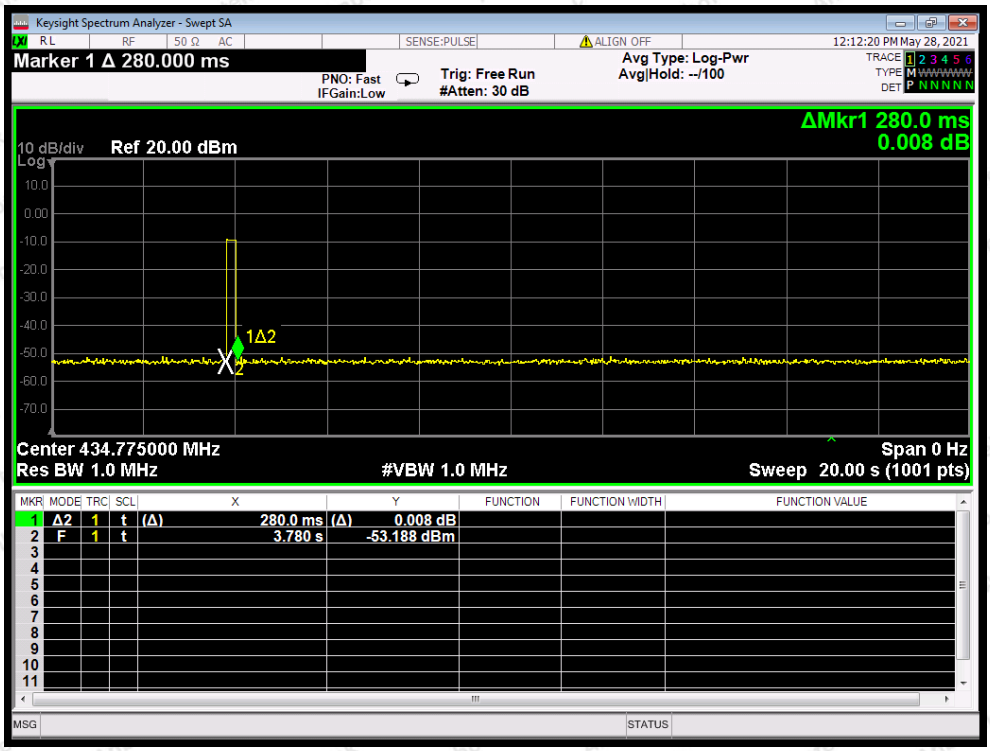
Please refer the following plot.



433.05MHz



433.90MHz


Keysight Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN OFF
12:12:20 PM May 28, 2021
Marker 1 Δ 280.000 ms
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: --/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
ΔMkr1 280.0 ms
0.008 dB
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1Δ2
Center 434.775000 MHz
Res BW 1.0 MHz
#VBW 1.0 MHz
Span 0 Hz
Sweep 20.00 s (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 Δ2 1 t (Δ) 280.0 ms (Δ) 0.008 dB
2 F 1 t 3.780 s -53.188 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS

434.775MHz

7. Antenna Requirement

7.1. Test Standard and Requirement

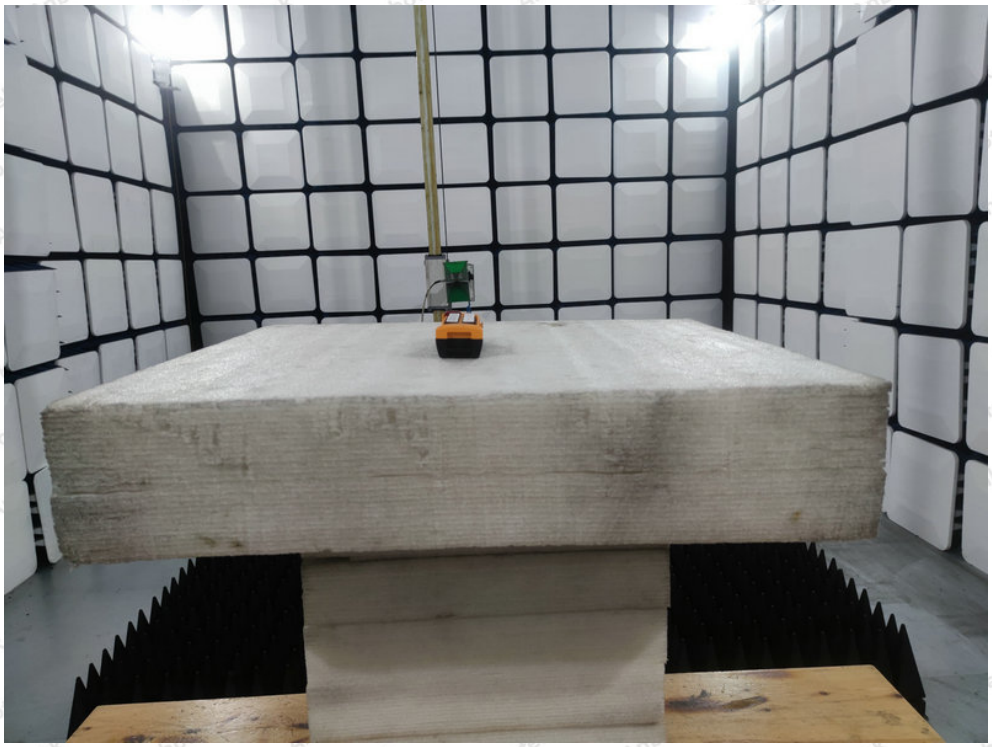
Test Standard	FCC Part15 Section 15.203
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. Antenna requirement must meet at least one of the following: 1) Antenna must be permanently attached to device. 2) The antenna must use a unique type of connector to attach to the device. 3) Device must be professionally installed. The installer shall be responsible for ensuring that the correct antenna is employed by the device.

7.2. Antenna Connected Construction

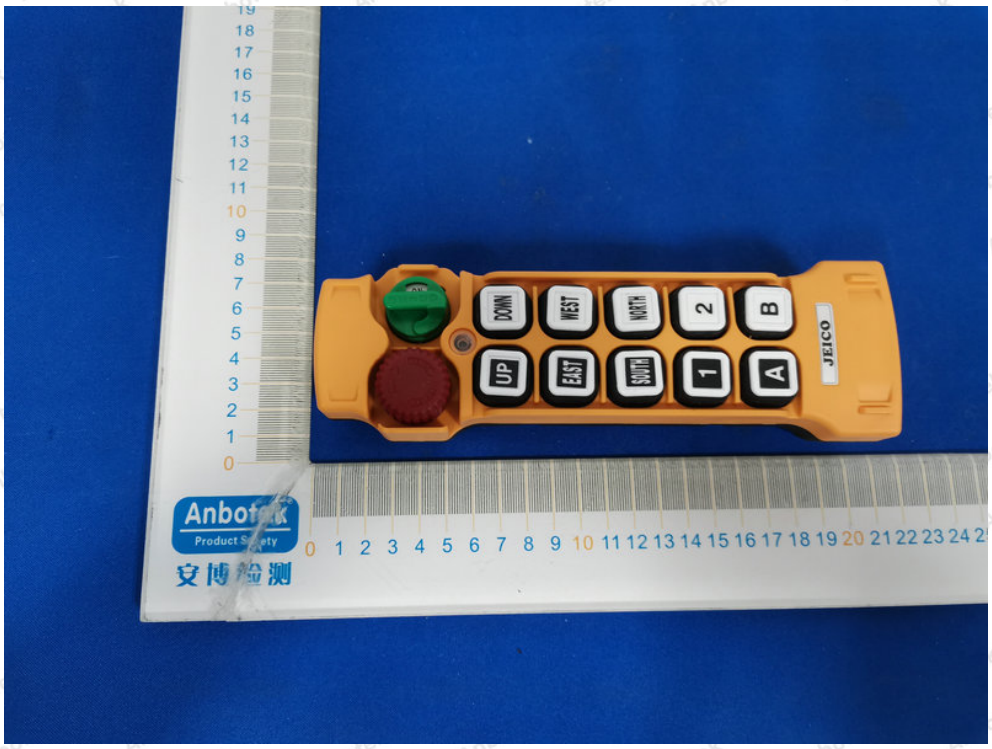
The antenna is a FPC Antenna which permanently attached, and the best case gain of the antenna is 1.5 dBi. It complies with the standard requirement.

APPENDIX I -- TEST SETUP PHOTOGRAPH

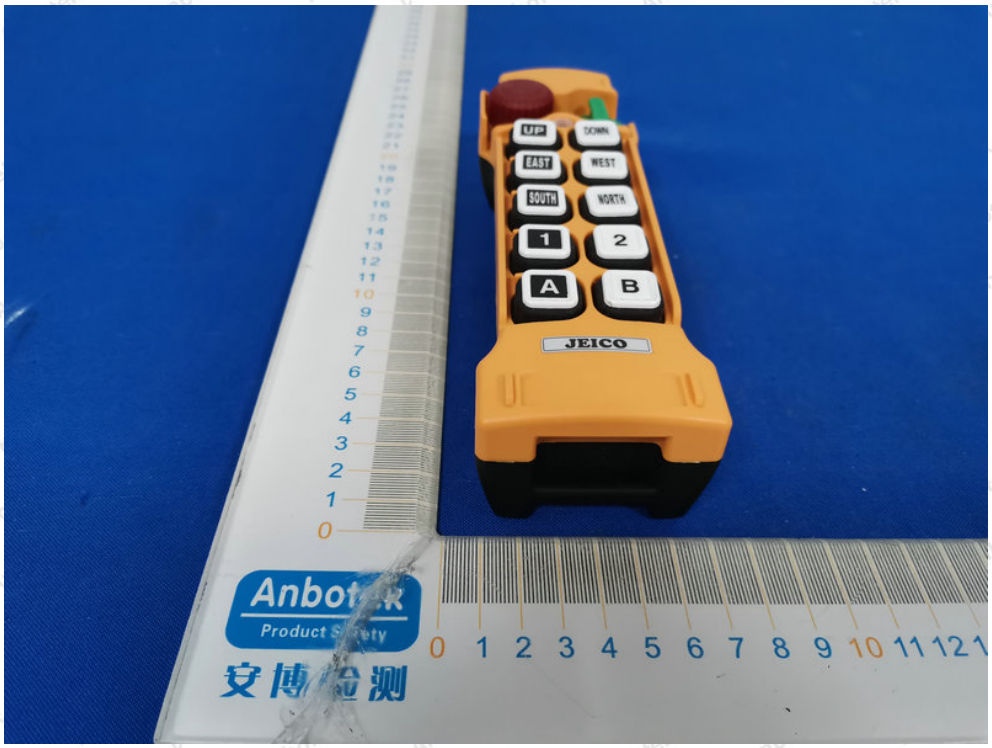
Photo of Radiation Emission Test



APPENDIX II -- EXTERNAL PHOTOGRAPH



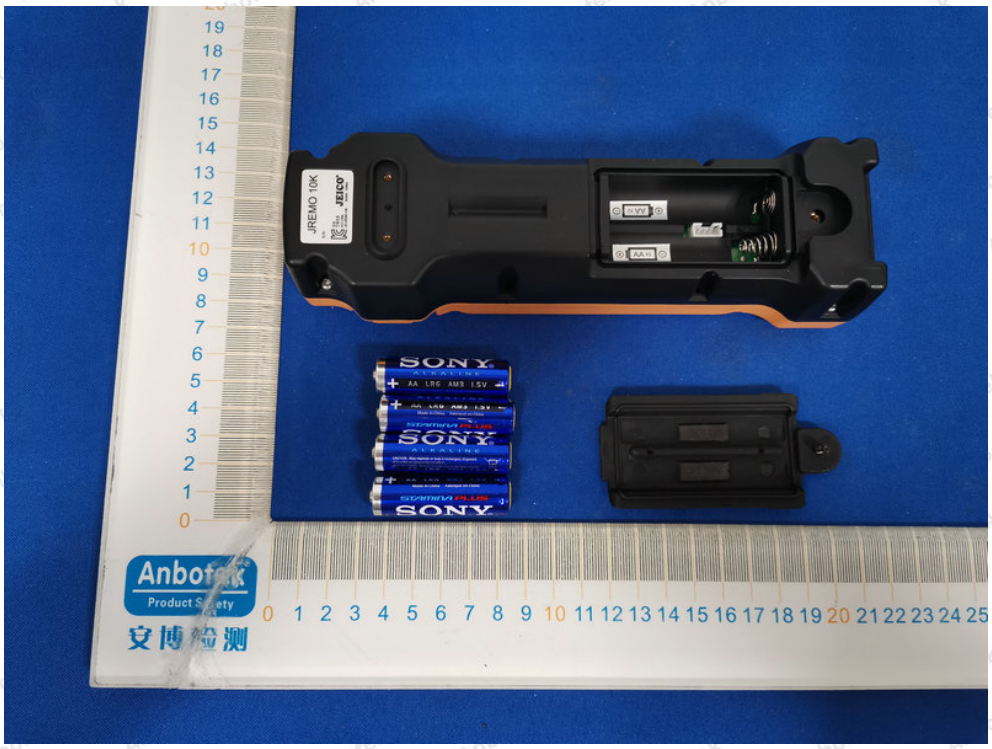

A
1
SOUTH
EAST
UP
B
2
NORTH
WEST
DOWN
JEICO


UP
DOWN
EAST
WEST
SOUTH
NORTH
1
2
A
B
JEICO

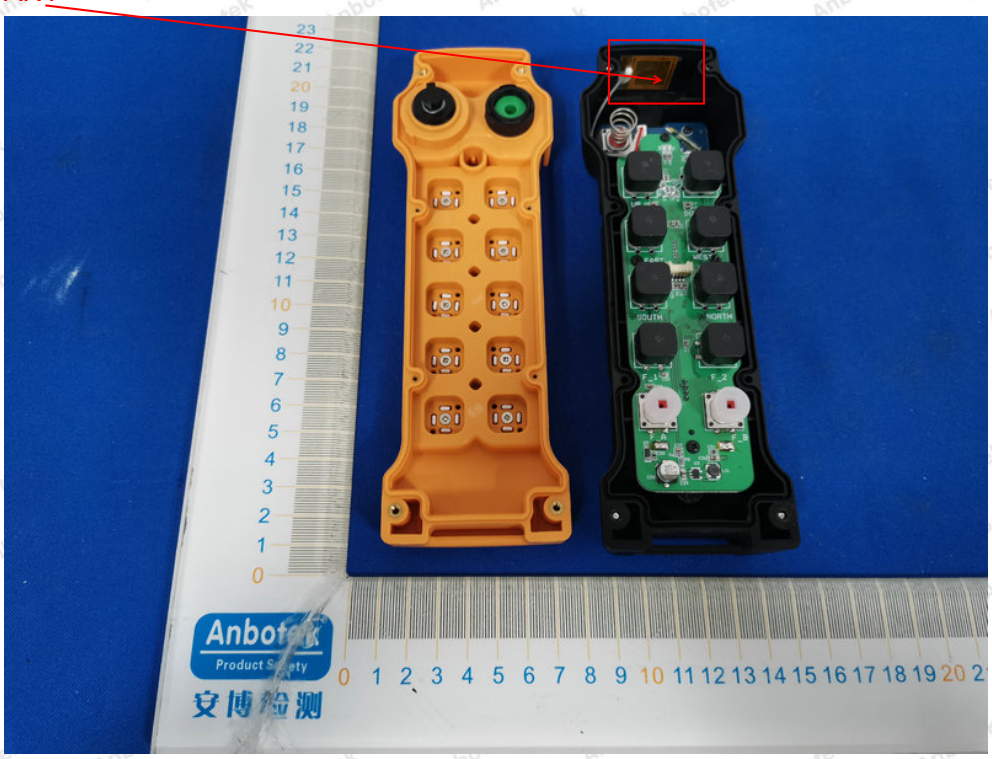

A
B
1
2
NORTH
SOUTH
WEST
EAST
DOWN
UP

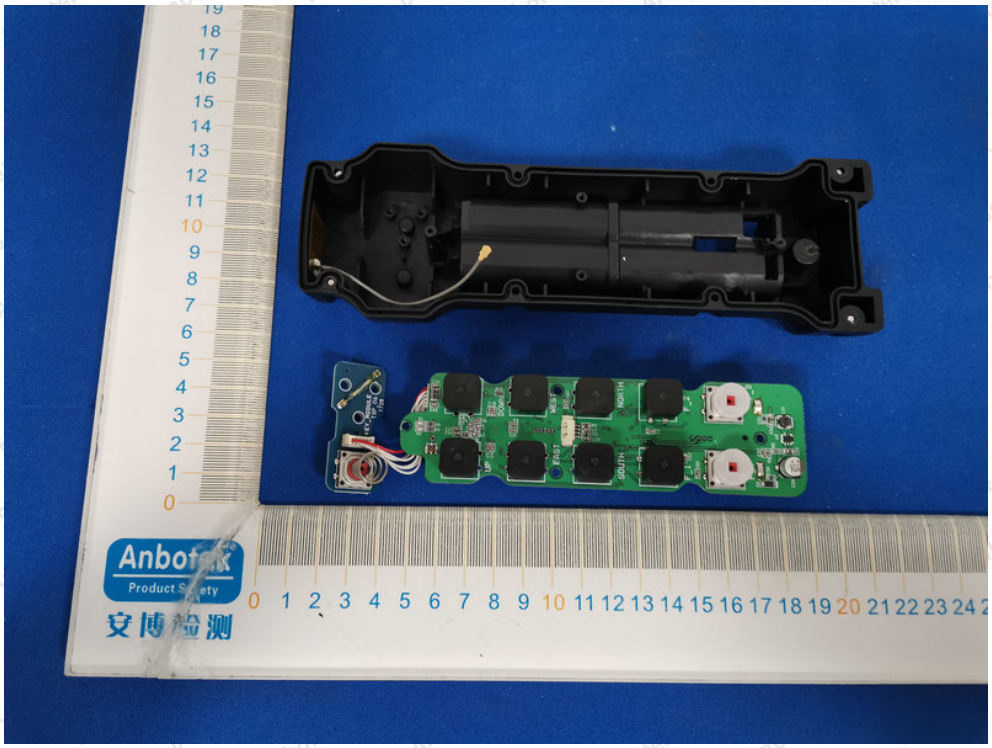

JREMO 10K
JESCO

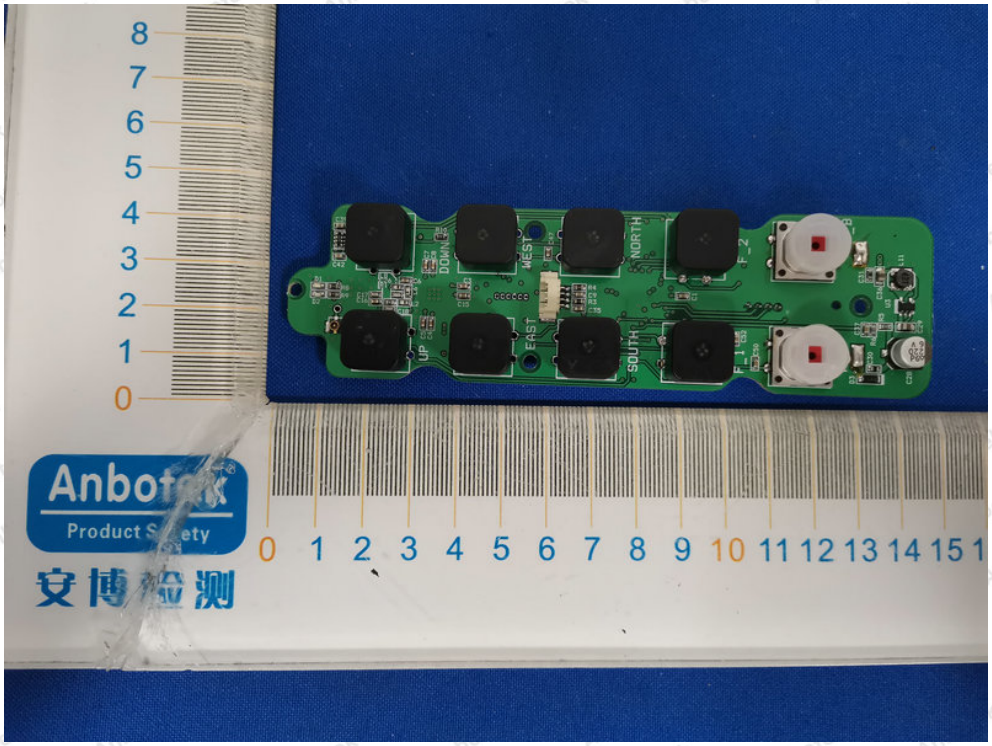
APPENDIX III -- INTERNAL PHOTOGRAPH

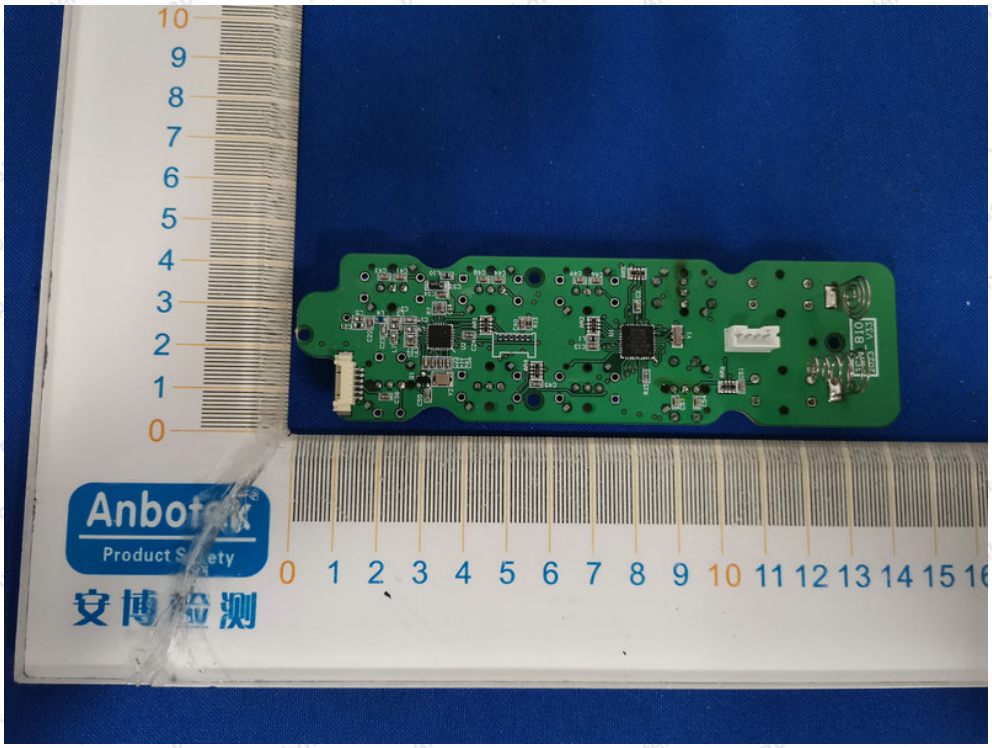


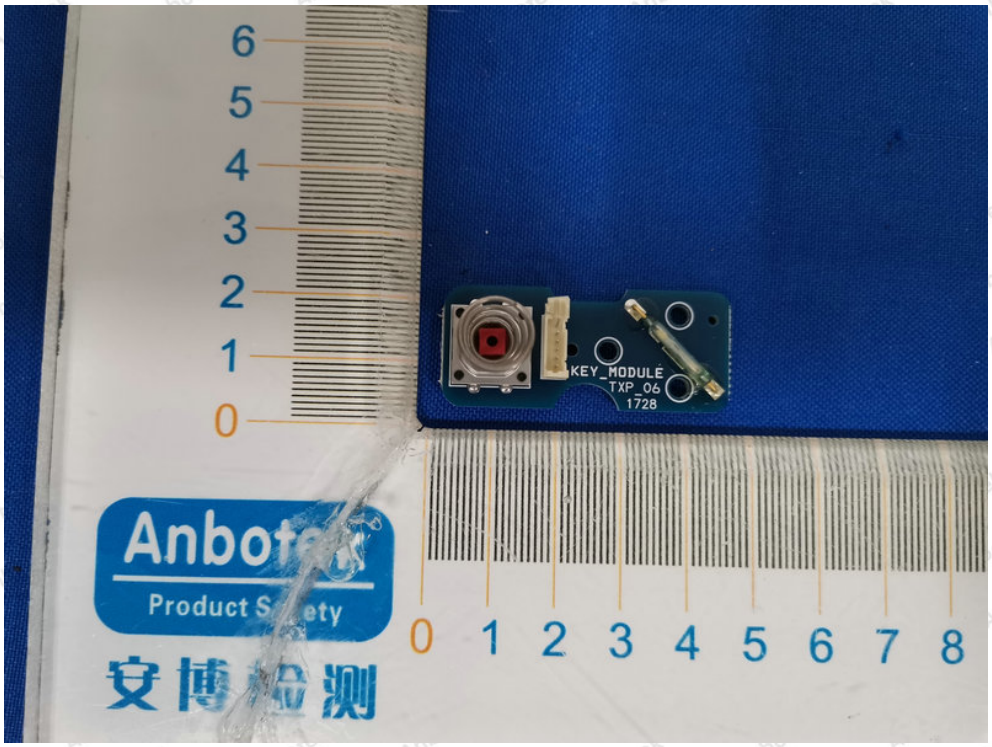
ANT

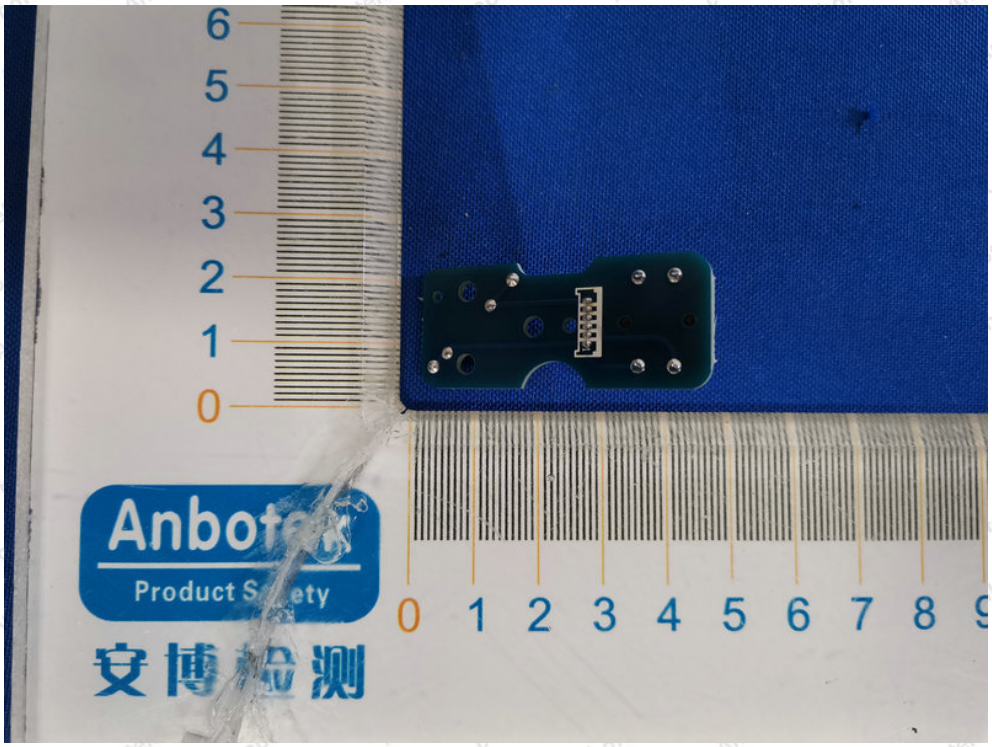





NORTH
WEST
EAST
SOUTH
UP
DOWN
安博检测


安博检测





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