FCC REPORT

Applicant:	Remote Tech LLC
Address of Applicant:	310 ALDER RD, DOVER DE 19904 USA
Equipment Under Test (EUT)	
Product Name:	Smart key
Model No.:	RT-HD2X5B, RT-HD2X4B, RT-HD2X7B
FCC ID:	2AOKM-HD11
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.231
Date of sample receipt:	29 Oct., 2021
Date of Test:	30 Oct., to 24 Dec., 2021
Date of report issue:	24 Dec., 2021
Test Result:	PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	*07 Dec., 2021*	*Original*
01	*24 Dec., 2021*	*1. Updated test data on page 11.* *2. Updated data on page 13/14/15.* *3. Updated test data on page 16/17/18/19.* *4. Updated test data on page 20/21.* *5. Updated test requirement on page 22.*

Prepared By: Janet Wei ***Date:*** *24 Dec., 2021*

Test Engineer

Check By: Winner Zhang ***Date:*** *24 Dec., 2021*

Project Engineer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
Field strength of the fundamental signal	15.231 (b)	Pass
Spurious emissions	15.231 (b)/15.209	Pass
20dB Bandwidth	15.231 (c)	Pass
Duration Time	15.231 (a)(1)	Pass
Conducted Emission	15.207	N/A

Remarks:

1. *Pass: The EUT complies with the essential requirements in the standard.*
2. *N/A: The EUT not applicable of the test item.*
3. *The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).*

Test Method:	*ANSI C63.4-2014* *ANSI C63.10-2013*

5 General Information

5.1 Client Information

Applicant:	Remote Tech LLC
Address:	310 ALDER RD, DOVER DE 19904 USA
Manufacturer:	Remote Tech LLC
Address:	310 ALDER RD, DOVER DE 19904 USA

5.2 General Description of E.U.T.

Product Name:	Smart key
Model No.:	RT-HD2X5B, RT-HD2X4B, RT-HD2X7B
Operation Frequency:	433.6MHz, 434.2MHz
Channel numbers:	2
Modulation type:	FSK
Antenna Type:	PCB antenna
Antenna gain:	-5.0 dBi
Power supply:	DC 3V (CR2032 battery)
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Remark:	Model No.: RT-HD2X5B, RT-HD2X4B, RT-HD2X7B All models are identical inside, including the electrical circuit design, layout, components used and internal wiring. Models RT-HD2X5B, RT-HD2X4B, RT-HD2X7B represent appearance of the key with 4, 5 and 7buttons on the shell. The PCB function is the same for all these models.

5.3 Test mode

Transmitting mode:	Keep the EUT in transmitting mode with modulation（new battery used）		
Pre-Test Mode:			
JYT has verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:			
Axis	X	Y	Z
Field Strength(dBuV/m)	83.27	83.10	83.51
Final Test Mode:			
According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”: Z axis (see the test setup photo)			

5.4 Description of Support Units

N/A

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.
Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com

5.9 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022
EMI Test Software	Tonscend	TS+	Version:3.0.0.1		

6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
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. 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.	
E.U.T Antenna:	
The EUT make use of a PCB antenna, The typical gain of the antenna is -5.0dBi.	

6.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.231(a) and 15.209
Test Frequency Range:	30MHz to 5000MHz
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)

Receiver setup:

Frequency	Detector	RBW	VBW	Remark
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
Above 1GHz	Peak	1MHz	3MHz	Peak Value

Limit:
(Field strength of the fundamental signal)

Frequency	Limit (dBuV/m @3m)	Remark
433.6MHz	80.81	Average Value
	100.81	Peak Value
434.2MHz	80.83	Average Value
	100.83	Peak Value

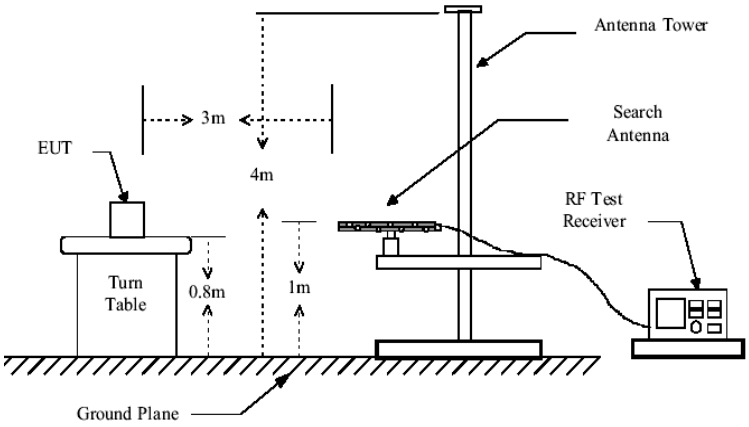
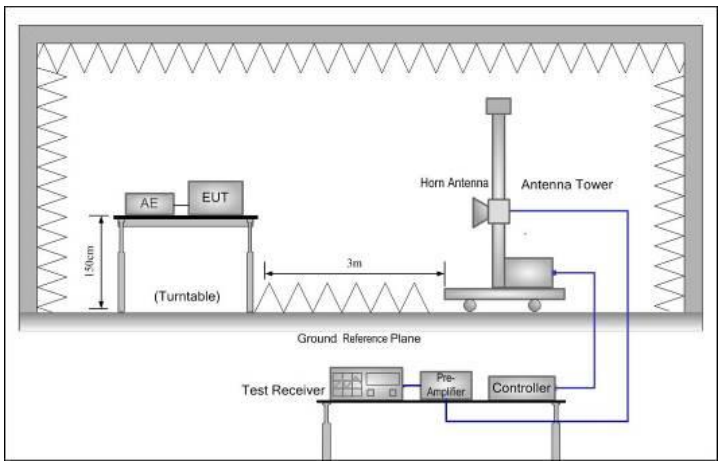
Limit:
(Spurious Emissions)

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	74.0	Peak Value

Or The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level whichever limit permits higher field strength.

Test Procedure:

a. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) /1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The antenna height 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.
d. 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.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test setup:	Below 1GHz  Above 1GHz 
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

6.2.1 Field Strength Of The Fundamental Signal

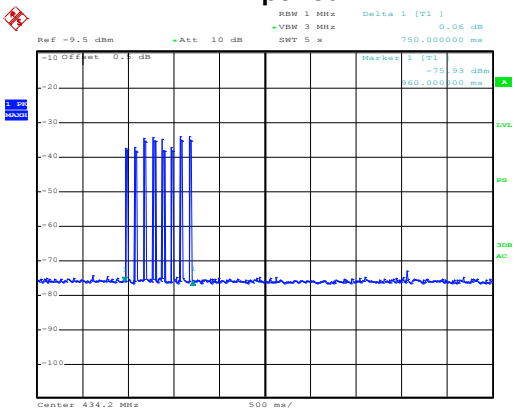
433.6MHz:

Peak value						
Frequency (MHz)	Reading (dBuV/m)	Factor [dB]	Level [dBμV/m]	Limit Line (dBuV/m)	Margin (dB)	Polarization
433.67	55.09	18.77	73.86	100.82	26.96	Vertical
433.67	64.28	18.77	83.05	100.82	17.77	Horizontal
Average value						
Frequency (MHz)	Level (dBuV/m)	Duty Cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
433.67	73.86	-11.63	62.23	80.82	18.59	Vertical
433.67	83.05	-11.63	71.42	80.82	9.40	Horizontal
Calculate Formula:		Average value=Peak value + Duty Cycle Factor				
		Duty cycle factor = 20log(Duty cycle)				
		Duty cycle = on time/100 milliseconds or period, whichever is less				
Test data:		T on time =26.2(ms)				
		T period =101.2(ms)>100(ms)				
		Duty cycle =26.2%				
		Duty cycle factor = 20log(Duty cycle) = -11.63				

434.2MHz:

Peak value						
Frequency (MHz)	Reading (dBuV/m)	Factor [dB]	Level [dBμV/m]	Limit Line (dBuV/m)	Margin (dB)	Polarization
434.16	55.10	18.79	73.89	100.83	26.94	Vertical
434.19	64.72	18.79	83.51	100.83	17.32	Horizontal
Average value						
Frequency (MHz)	Level (dBuV/m)	Duty Cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
434.16	73.89	-11.63	62.26	80.82	18.56	Vertical
434.19	83.51	-11.63	71.88	80.82	8.94	Horizontal
Calculate Formula:		Average value=Peak value + Duty Cycle Factor				
		Duty cycle factor = 20log(Duty cycle)				
		Duty cycle = on time/100 milliseconds or period, whichever is less				
Test data:		T on time =26.2(ms)				
		T period =101.2(ms)>100(ms)				
		Duty cycle =26.2%				
		Duty cycle factor = 20log(Duty cycle) = -11.63				

T period:



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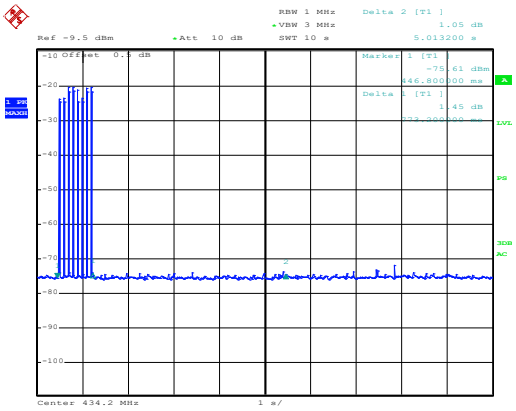
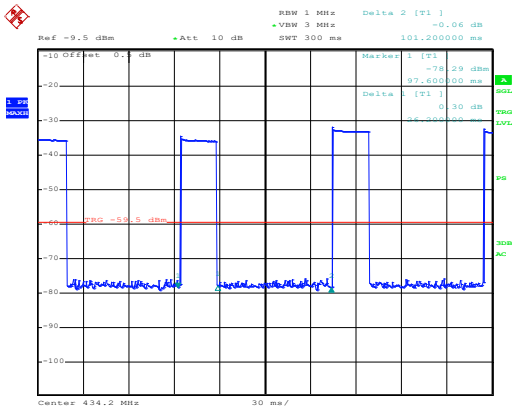
T 10ms:



Date: 27.NOV.2021 13:30:41

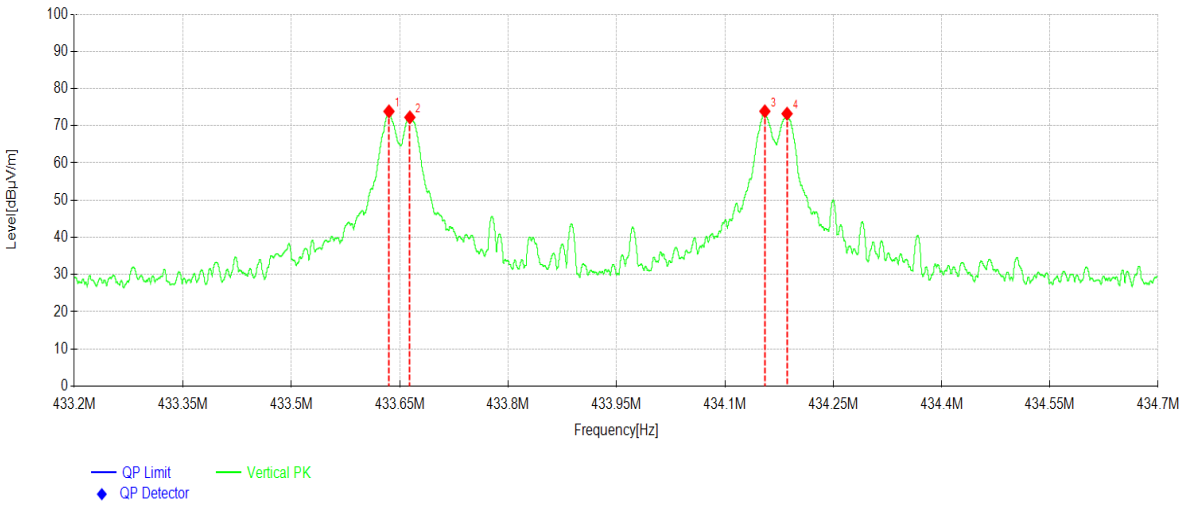
T on time slot-1:



Date: 27.NOV.2021 13:47:25

Test Plots:

Product Name:	Smart key	**Product Model:**	RT-HD2X5B
Test By:	Janet	**Test mode:**	Tx mode
Test Frequency:	433.6 MHz, 434.2MHz	**Polarization:**	Vertical
Test Voltage:	DC 3V	**Environment:**	Temp: 24℃ Huni: 57%

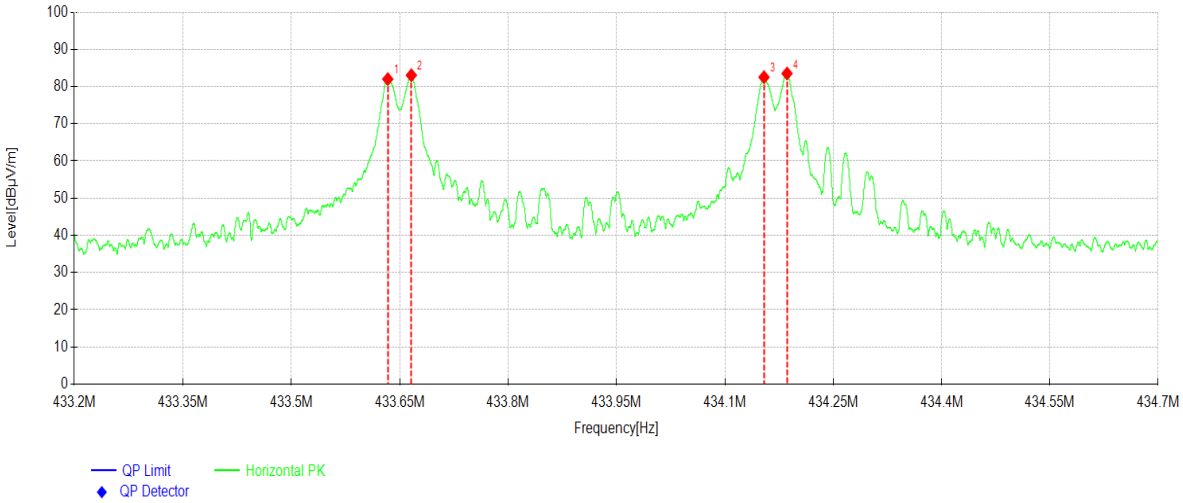


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	433.635	55.09	73.86	18.77	100.82	26.96	PK	Vertical
2	433.664	53.49	72.26	18.77	100.82	26.96	PK	Vertical
3	434.155	55.10	73.89	18.79	100.83	26.94	PK	Vertical
4	434.186	54.45	73.24	18.79	100.83	27.59	PK	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor.(Antenna Factor + Cable Loss – Preamplifier Factor).*

Product Name:	Smart key	**Product Model:**	RT-HD2X5B
Test By:	Janet	**Test mode:**	Tx mode
Test Frequency:	433.6 MHz, 434.2MHz	**Polarization:**	Horizontal
Test Voltage:	DC 3V	**Environment:**	Temp: 24℃ Huni: 57%



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	433.633	63.24	82.01	18.77	100.82	18.81	PK	Horizontal
2	433.666	64.28	83.05	18.77	100.82	17.77	PK	Horizontal
3	434.154	63.74	82.53	18.79	100.83	18.30	PK	Horizontal
4	434.186	64.72	83.51	18.79	100.83	17.32	PK	Horizontal

Remark:

2. Final Level = Receiver Read level + Factor.(Antenna Factor + Cable Loss – Preamplifier Factor).

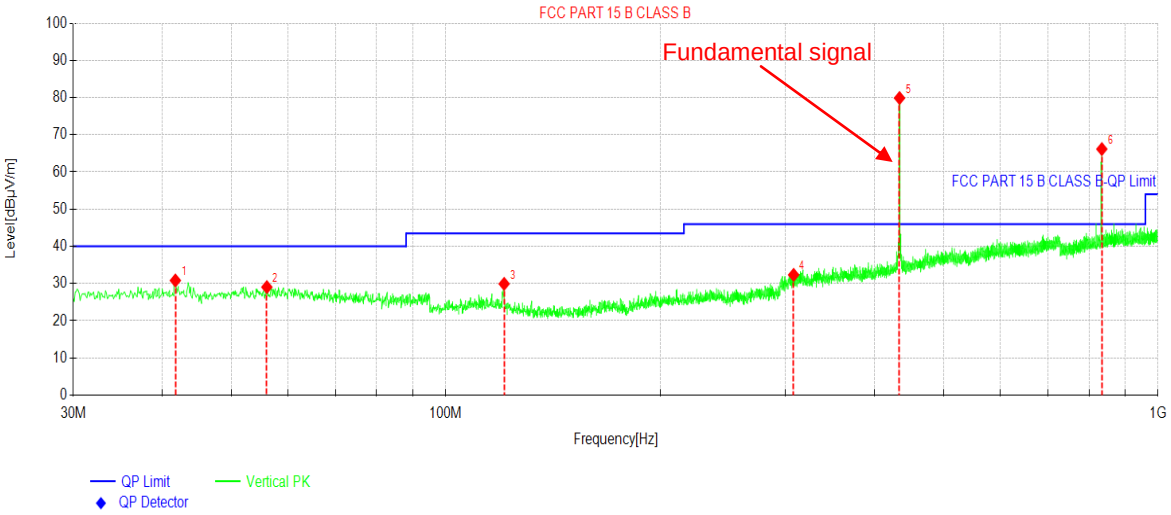
6.2.2 Spurious Emissions

Below 1GHz(30MHz-1000MHz):						
Peak value						
Frequency (MHz)	Reading (dBuV/m)	Factor [dB]	Level [dBμV/m]	Limit Line (dBuV/m)	Margin (dB)	Polarization
834.02	40.47	25.68	66.15	80.83	14.68	Vertical
834.11	38.35	25.69	64.04	80.83	16.79	Horizontal
Average value						
Frequency (MHz)	Level (dBuV/m)	Duty Cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
834.02	66.15	-11.63	54.52	60.83	-6.31	Vertical
834.11	64.04	-11.63	52.41	60.83	-8.42	Horizontal
Remark: Average value=Peak value + Duty Cycle Factor.						

Above 1GHz						
Average value						
Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	polarization
1301.7	34.16	-11.63	22.53	60.83	38.30	Vertical
1735.6	37.15	-11.63	25.52	60.83	35.31	Vertical
2169.5	37.69	-11.63	26.06	60.83	34.77	Vertical
2603.4	38.61	-11.63	26.98	60.83	33.85	Vertical
3037.3	40.58	-11.63	28.95	60.83	31.88	Vertical
3471.2	42.04	-11.63	30.41	60.83	30.42	Vertical
3905.1	43.33	-11.63	31.70	60.83	29.13	Vertical
4339	43.88	-11.63	32.25	60.83	28.58	Vertical
1301.7	37.98	-11.63	26.35	60.83	34.48	Horizontal
1733.5	54.58	-11.63	42.95	60.83	17.88	Horizontal
2169.5	36.82	-11.63	25.19	60.83	35.64	Horizontal
2603.4	40.7	-11.63	29.07	60.83	31.76	Horizontal
3037.3	40.56	-11.63	28.93	60.83	31.90	Horizontal
3471.2	41.63	-11.63	30.00	60.83	30.83	Horizontal
3905.1	43.72	-11.63	32.09	60.83	28.74	Horizontal
4339	44.70	-11.63	33.07	60.83	27.76	Horizontal
Remark: Average value=Peak value + Duty Cycle Factor.						

Test Plots:

Product Name:	Smart key	**Product Model:**	RT-HD094B
Test By:	Janet	**Test mode:**	Tx mode
Test Frequency:	30 MHz ~ 1 GHz	**Polarization:**	Vertical
Test Voltage:	DC 3V	**Environment:**	Temp: 24℃ Huni: 57%

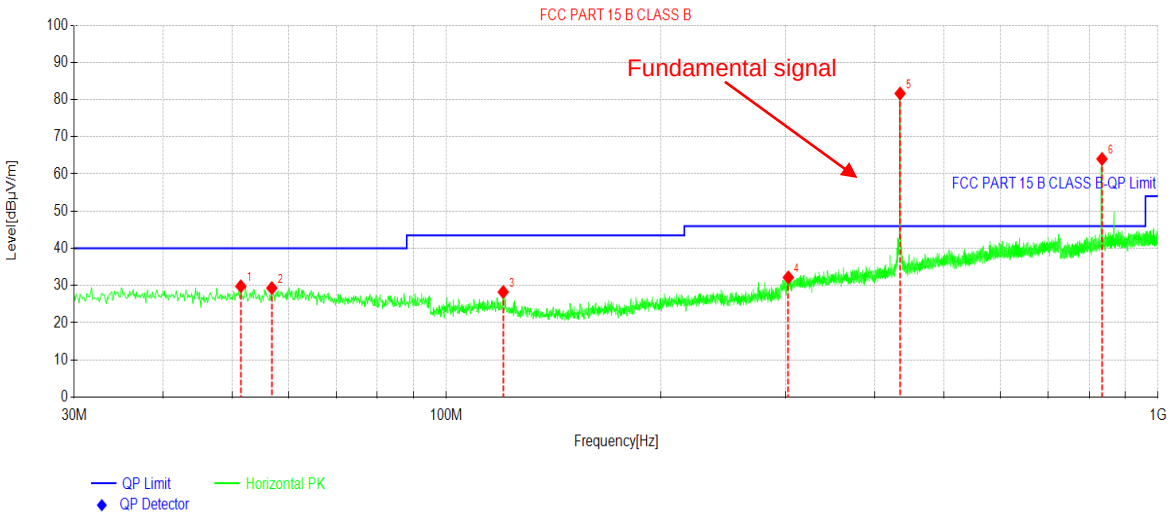


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	41.7382	17.55	30.83	13.28	80.83	50.00	PK	Vertical
2	56.0956	15.73	29.04	13.31	80.83	51.79	PK	Vertical
3	120.801	17.90	29.92	12.02	80.83	50.91	PK	Vertical
4	307.932	16.61	32.33	15.72	80.83	48.50	PK	Vertical
5	433.657	61.10	79.87	18.77	100.82	20.95	PK	Vertical
6	834.016	40.47	66.15	25.68	80.83	14.68	PK	Vertical

Remark:

1. *Final Level = Receiver Read level + Factor.(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Name:	Smart key	**Product Model:**	RT-HD094B
Test By:	Janet	**Test mode:**	Tx mode
Test Frequency:	30 MHz ~ 1 GHz	**Polarization:**	Horizontal
Test Voltage:	DC 3V	**Environment:**	Temp: 24℃ Huni: 57%

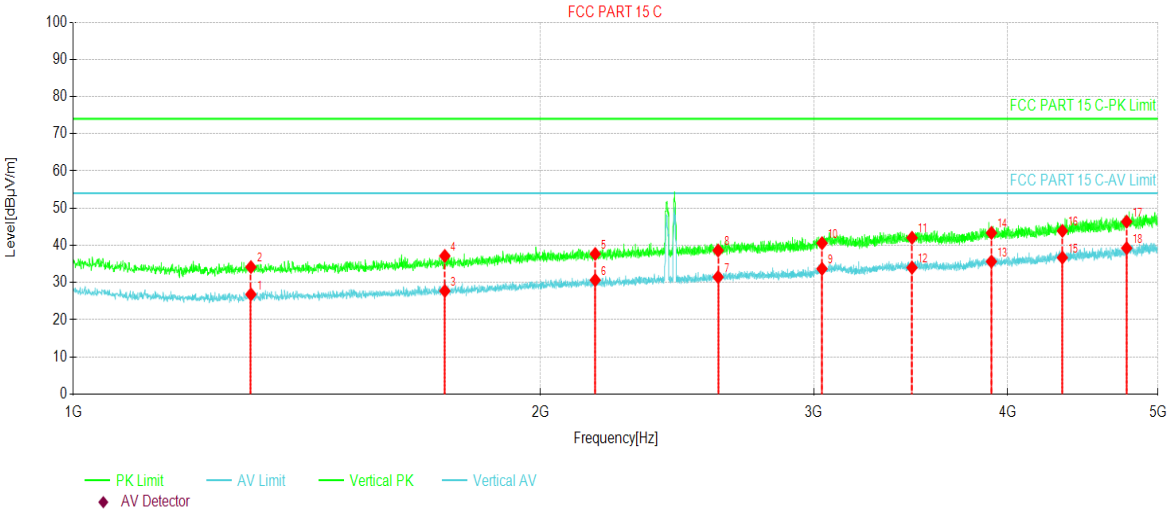


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	51.4391	16.53	29.80	13.27	80.83	51.03	PK	Horizontal
2	56.8717	16.07	29.32	13.25	80.83	51.51	PK	Horizontal
3	120.219	16.14	28.25	12.11	80.83	52.58	PK	Horizontal
4	302.403	16.63	32.18	15.55	80.83	48.65	PK	Horizontal
5	434.142	62.85	81.64	18.79	100.82	19.18	PK	Horizontal
6	834.113	38.35	64.04	25.69	80.83	16.79	PK	Horizontal

Remark:

1. *Final Level = Receiver Read level + Factor.(Antenna Factor + Cable Loss – Preamplifier Factor).*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Name:	Smart key	**Product Model:**	RT-HD094B
Test By:	Janet	**Test mode:**	Tx mode
Test Frequency:	1 GHz ~ 5 GHz	**Polarization:**	Vertical
Test Voltage:	DC 3V	**Environment:**	Temp: 24℃ Huni: 57%

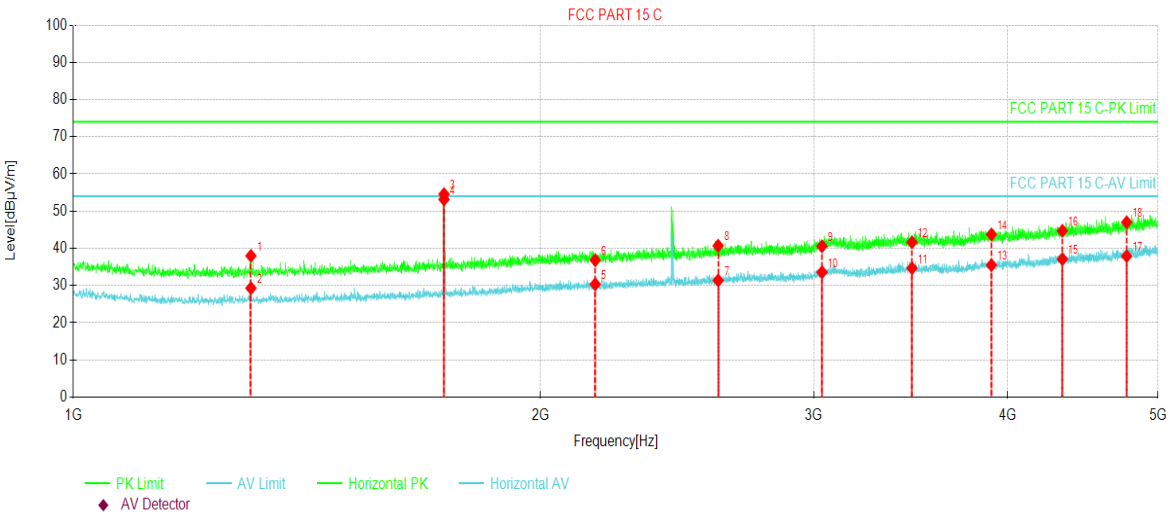


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
2	1301.70	57.32	34.16	-23.16	80.83	46.67	PK	Vertical
4	1735.60	58.81	37.15	-21.66	80.83	43.68	PK	Vertical
5	2169.50	57.32	37.69	-19.63	80.83	43.14	PK	Vertical
8	2603.40	56.65	38.61	-18.04	80.83	42.22	PK	Vertical
10	3037.30	57.11	40.58	-16.53	80.83	60.24	PK	Vertical
11	3471.20	57.01	42.04	-14.97	80.83	38.79	PK	Vertical
14	3905.10	56.82	43.33	-13.49	80.83	37.5	PK	Vertical
16	4339.00	55.34	43.88	-11.46	80.83	36.95	PK	Vertical

Remark:

1. *Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Name:	Smart key	**Product Model:**	RT-HD094B
Test By:	Janet	**Test mode:**	Tx mode
Test Frequency:	1 GHz ~ 5 GHz	**Polarization:**	Horizontal
Test Voltage:	DC 3V	**Environment:**	Temp: 24℃ Huni: 57%

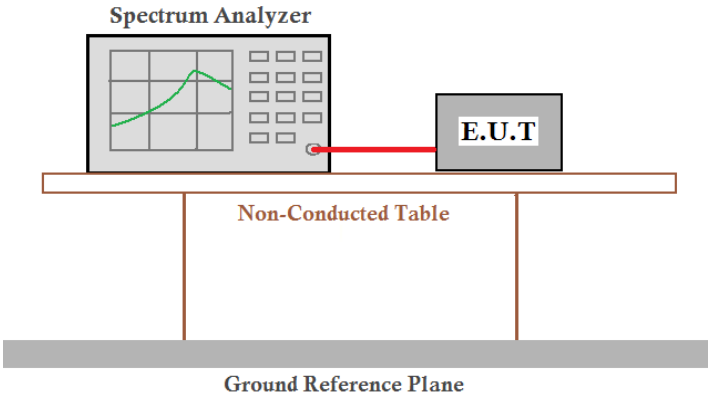


NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1301.70	61.14	37.98	-23.16	80.83	42.85	PK	Horizontal
3	1733.50	76.25	54.58	-21.67	80.83	26.25	PK	Horizontal
6	2169.50	56.45	36.82	-19.63	80.83	44.01	PK	Horizontal
8	2603.40	58.74	40.70	-18.04	80.83	40.13	PK	Horizontal
9	3037.30	57.09	40.56	-16.53	80.83	60.26	PK	Horizontal
12	3471.20	56.60	41.63	-14.97	80.83	39.2	PK	Horizontal
14	3905.10	57.21	43.72	-13.49	80.83	37.11	PK	Horizontal
16	4339.00	56.16	44.70	-11.46	80.83	36.13	PK	Horizontal
17	4772.90	47.27	37.91	-9.36	80.83	42.92	AV	Horizontal

Remark:

1. *Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

6.3 Bandwidth

Test Requirement:	FCC Part15 C Section 15.231 (c)
Receiver setup:	RBW=1kHz, VBW=3kHz, detector: Peak
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.
Test Procedure:	1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. 4. Read 20dB bandwidth.
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

433.6MHz:

20dB bandwidth (MHz)	99% Occupy bandwidth (kHz)	Limit (MHz)	Results
0.080	78.521	1.084	Passed

Note: Limit= Fundamental frequency×0.25%=433.6×0.25%=1.084MHz

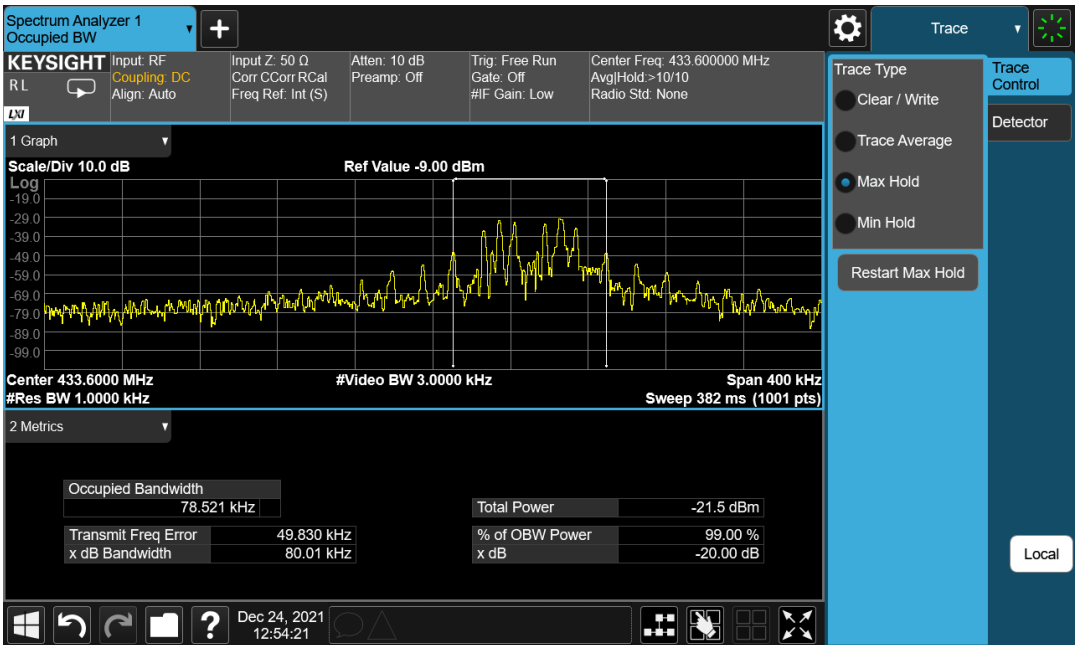
434.2MHz:

20dB bandwidth (MHz)	99% Occupy bandwidth (kHz)	Limit (MHz)	Results
0.080	78.939	1.0855	Passed

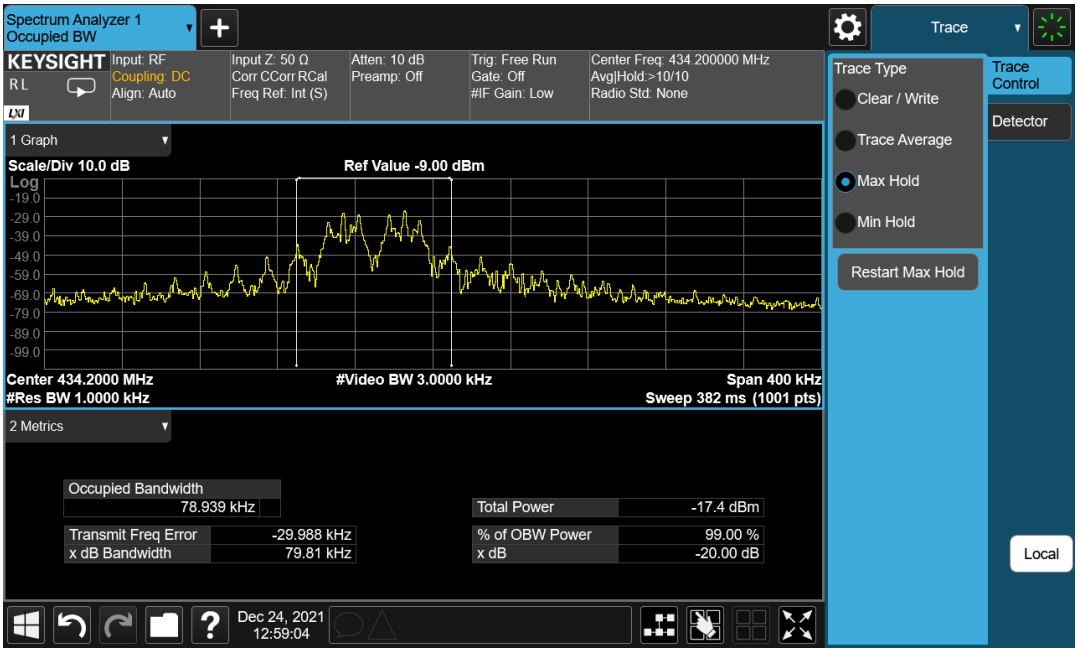
Note: Limit= Fundamental frequency×0.25%=434.2×0.25%=1.0855MHz

Test plot as follows:

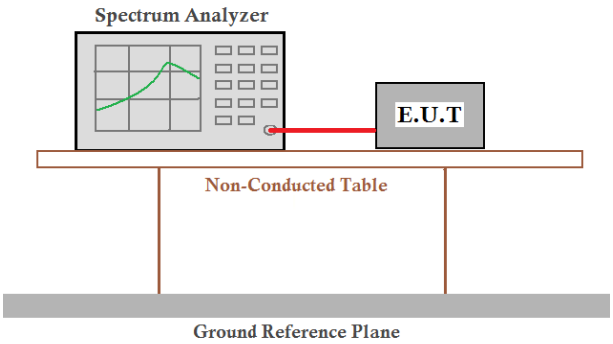
433.6MHz



434.2MHz



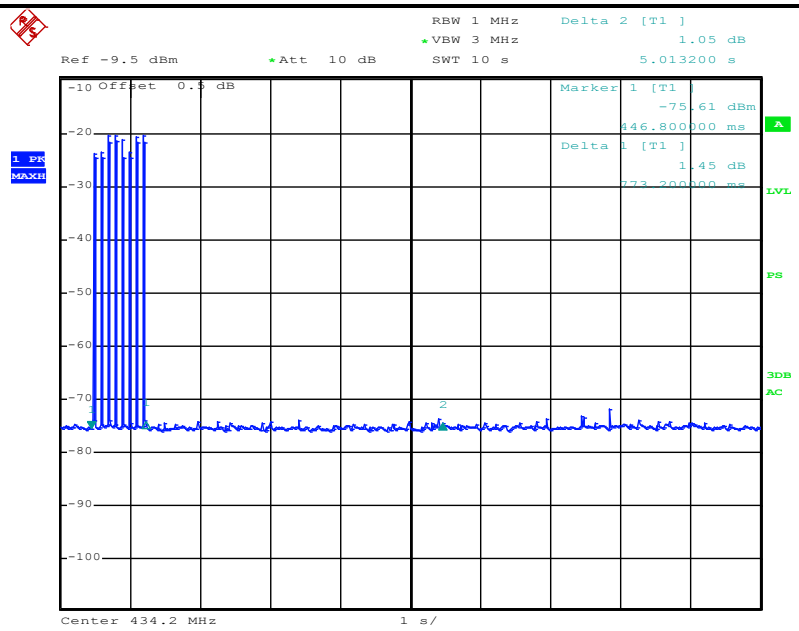
6.4 Duration Time

Test Requirement:	FCC Part15 C Section 15.231 (a1)
Receiver setup:	RBW=100kHz, VBW=300kHz, span=0Hz, detector: Peak
Limit:	Not more than 5 seconds
Test mode:	Transmitting mode
Test Procedure:	1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Single scan the transmission, and read the transmission time.
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

Duration time (second)	Limit (second)	Result
0.773	<5.0	Pass

Test plot as follows:



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