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# **TEST REPORT**

FCC ID: 2AHH9-IRKET2

Applicant : Kaba Ilco Corp

Address : 400 Jeffreys Road Rocky Mount, NC 27804 United States

### Equipment Under Test (EUT):

Name	:	REMOTE
Model	:	NT-4B-2

In Accordance with: FCC PART 15, SUBPART C: 2015 (Section 15.231)

Report No : T1860487 06

Date of Test : May 10-May 30, 2016

Date of Issue : May 30, 2016

Test Result: PASS

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

Authorized Signature

(Mark Zhu)

General Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report. 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. Any mention of Shenzhen Alpha Product Testing Co., Ltd or test done by Shenzhen Alpha Product Testing Co., Ltd Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Alpha Product Testing Co., Ltd Approvals in writing.

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### 1. General Information

### 1.1. Description of Device (EUT)

EUT : REMOTE

Model No. : NT-4B-2 DIFF. : N/A

Trade mark : iIco

Power supply : DC 3.3V from Button battery

Operation : 307.9MHz, 313.85MHz, 315MHz, 318MHz, 433.92MHz

frequency

Modulation : ASK

Antenna Type : Internal antenna, max gain 0dBi.

Applicant : Kaba Ilco Corp

Address : 400 Jeffreys Road Rocky Mount, NC 27804 United States

Manufacturer Ecartek

Address Building #1 East Side, West Shahe Road, Chaguang Industrial Park, Xili

Town, NanShan District, Shenzhen City, Zip:518000, China

## 1.2. Accessories of device (EUT)

Accessories : N/A

Model N/A

Input N/A

Output N/A

Accessories2 : N/A

Model N/A

### 1.3. Test Lab information

Shenzhen Alpha Product Testing Co., Ltd Building B, East Area of Nanchang Second, Industrial Zone, Gushu 2nd Road, Bao'an, Shenzhen, China

March 25, 2015 File on Federal Communication Commission

Registration Number: 203110

July 18, 2014 Certificated by IC Registration Number: 12135A

# 2. Summary of test

## 2.1. Summary of test result

Description of Test Item	Standard	Results				
Spurious Emission	Section 15.231&15.209	PASS				
Conduction Emission	Section 15.207	N/A				
Occupied bandwidth	Section 15.231	PASS				
Transmission time	Section 15.231	PASS				
Band Edge	Section 15.231	N/A				
Antenna Requirement	Section 15.203	PASS				
Note: Test according to ANSI C63.4-2014 and ANSI C63.10-2013						

## 2.2. Assistant equipment used for test

Description	:	N/A
Manufacturer	•	N/A
Model No.	:	N/A
Remark: N/A		

### 2.3. Block Diagram

1. For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was set into test mode before test. New battery is used during all test

EUT

### 2.4. Test mode

EUT work in Continuous TX mode, and select test channel, wireless mode

Tested mode, channel, and data rate information							
Mode	Channel	Frequency					
		(MHz)					
	CH1	307.9					
	CH2	313.85					
ASK	CH3	315					
	CH4	318					
	CH5	433.92					

## 2.5. Test Conditions

Temperature range	21-25℃
Humidity range	40-75%
Pressure range	86-106kPa

## 2.6. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m	2.13 dB	Polarize: V
chamber (below 30MHz)	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m	3.54dB	Polarize: V
chamber (30MHz to 1GHz)	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m	2.08dB	Polarize: H
chamber (1GHz to 25GHz)	2.56dB	Polarize: V
Uncertainty for radio frequency	1×10-9	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.2℃	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

# 2.7. Test Equipment

Equipment	Manufacture	Model No.	Serial No.	Last Cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	2017.01.16	1Year
Spectrum analyzer	Agilent	E4407B	MY49510055	2017.01.16	1 Year
Receiver	R&S	ESCI	101165	2017.01.16	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-438	2018.01.18	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2018.01.18	2Year
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170 D(1432)	2018.01.18	2Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2017.01.16	1Year
Cable	Resenberger	SUCOFLEX 104	MY6562/4	2017.01.16	1 Year
Cable	Resenberger	SUCOFLEX 104	309972/4	2017.01.16	1Year
Cable	Resenberger	SUCOFLEX 104	329112/4	2017.01.16	1 Year
Power Meter	Anritsu	ML2487A	6K00001491	2017.01.16	1Year
Power sensor	Anritsu	ML2491A	32516	2017.01.16	1Year
Pre-amplifier	SCHWARZBECK	BBV9743	9743-019	2017.01.16	1Year
Pre-amplifier	Quietek	AP-180C	CHM-0602012	2017.01.16	1Year

# 3. Radiation Emission

### 3.1. Radiation Emission Limits(15.209&231)

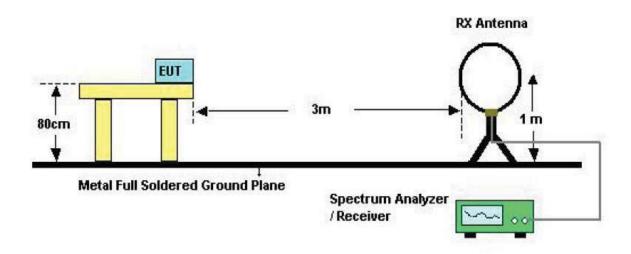
Frequency	Field Strength								
(MHz)	Limits at 3 metres (watts, e.i.r.p.)								
	uV/m	dB uV/m	Measurement distance(m)						
0.009-0.490	2400/F(kHz)	XX	300						
0.490-1.705	24000/F(kHz)	XX	30						
1.705-30	30	29.5	30						
30~88	100(3nW)	40	3						
88~216	150(6.8nW)	43.5	3						
216~960	200(12nW)	46	3						
Above960	500(75nW)	54	3						
Carrier frequency		80.8(AV)	3						
Carrier frequency		100.8(PK)	3						

### NOTE:

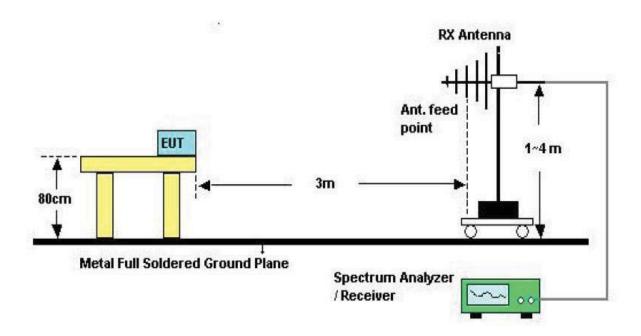
- a) The tighter limit applies at the band edges.
- b) Emission Level(dB uV/m)=20log Emission Level(Uv/m)

### 3.2. Test Setup

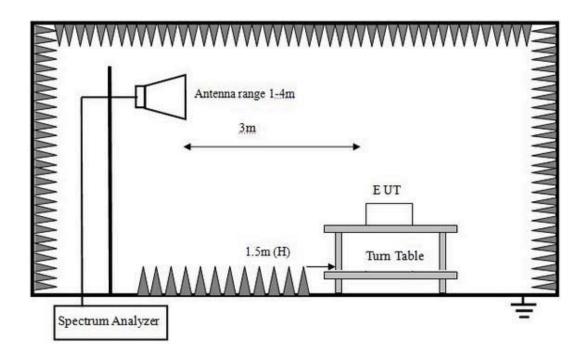
See the next page.



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

#### 3.3. Test Procedure

- a) The measureing distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground, The table was rotated 360 degrees to determine the position of the highest radiation
- b) The Test antenna shall vary between 1m and 4m,Both Horizontal and Vertical antenna are set of make measurement.
- c) The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significent Peaks are then marked, and then Qusia Peak Detector mode remeasured
- d) If Peak value comply with QP limit Below 1GHz. The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.
- e) For the actual test configuration, please see the test setup photo.

#### 3.4. Test Equipment Setting For emission test.

9KHz~150KHz	RBW 200Hz	VBW1KHz
150KHz~30MHz	RBW 9KHz	VBW 30KHz
30MHz~1GHz	RBW 120KHz	VBW 300KHz
Above 1GHz	RBW 1MHz	VBW 3MHz

#### 3.5. Test Condition

Continual Transmitting in maximum power(The new battery be used during Test)

#### 3.6. Test Result

We have scanned the 10th harmonic from 9KHz to the EUT. Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

**Notes**: 1 --Means other frequency and mode comply with standard requirements and at least have 20dB margin.

Correct Factor=Cable Loss+Antenna Factor-Amplifier Gain

Measurement Result=Reading + Correct Factor

Margin=Measurement Result-Limit

- 2 Spectrum setting:
  - a. Peak setting 30MHz-1GHz, RBW=100KHz, VBW=300KHz.
- 3- PK measure result values is less than the AVG limit values, so AV measure result values test not applicable.

## Radiated Emissions Result of Inside band

EUT		REMO	EMOTE Model Name				NT-4	NT-4B-2			
Temp	Temperature				Relativ		56%	56%			
					Humid	ity					
Press	ure	960hP	a		Test vo	ltage	DC 3.	3V from Bu	itton batte	ery	
Test I	Mode TX CH1				Test by	,	Eric				
			1GHz)								
Fre.	Plority	Reading	Antenna	Cable	Amplifier	Correct	Measure	Limit	Margin	Remark	
		dBuV	Factor	Loss	Gain	Factor	Result	dBuV/m	dB		
MHz	H/V		dB	dB	dB	dB	dBuV/m				
307.9	Н	85.68	12.99	0.67	27.22	-13.56	72.12	75.2	-3.08	Peak	
615.8	Н	45.82	18.62	0.67	27.22	-7.93	37.89	55.2	-17.31	Peak	
923.7	Н	48.54	21.97	0.67	27.22	-4.58	43.96	55.2	-11.24	Peak	
307.9	V	77.07	12.99	0.67	27.22	-13.56	63.51	75.2	-11.69	Peak	
615.8	V	45.35	18.62	0.67	27.22	-7.93	37.42	55.2	-17.78	Peak	
1	1	1	1	1	ı		I	ı	1	1	

EUT	EUT REMOTI		REMOTE				NT-4B-2			
Tempera	ature	25°C			Relative Humidity			56%		
Pressure	Pressure 960				Test voltage		DC 3.3V from Button battery			
Test Mo	de	TX CH1			Test by		Eric			
			Ch	annel (3	307.9MHz Abo	ve 1GF	Iz)			
Freq.	Ant. Pol	Peak	AV	Ant. / CI		Pea	ık	Margin		
(MHz)	H/V	Reading	Reading	CF	Actual Fs	Lin	nit	(dB)	Remark	
		(dBuV)	(dBuV)	(dB)	Peak (dBuV/m)	(dBuV	// <b>m</b> )		Kemai k	
1231.6	V	53.04		-10.84	42.20	74.0	00	-31.80	Peak	
	V									
1231.6	Н	51.42		-10.84	40.58	74.0	00	-33.42	Peak	
	Н									

EUT		REMO	OTE		Model	Name	NT-4	4B-2				
Temp	erature	25°C			Relativ	e	56%					
					Humid	ity						
Pressi	ıre	960hP	'a		Test vo	ltage	DC 3	DC 3.3V from Button battery				
Test N	Aode	TX CI	H2		Test by	,	Eric	Eric				
	Channel (313.85MHz Below 1GHz)											
Fre.	Plority	Reading	Antenna	Cable	Amplifier	Correct	Measure	Limit	Margin	Remark		
		dBuV	Factor	Loss	Gain	Factor	Result	dBuV/m	dB			
MHz	H/V		dB	dB	dB	dB	dBuV/m					
313.85	Н	79.35	13.19	0.67	27.22	-13.36	65.99	75.56	-9.57	Peak		
627.7	Н	42.61	18.85	0.67	27.22	-7.70	34.91	55.56	-19.65	Peak		
941.55	Н	44.44	22.09	0.67	27.22	-4.46	39.98	55.56	-15.58	Peak		
313.85	V	85.74	13.19	0.67	27.22	-13.36	72.38	75.56	-3.22	Peak		
627.7	V	39.49	18.85	0.67	27.22	-7.7	31.79	55.56	-23.77	Peak		
941.55	V	44.62	22.09	0.67	27.22	-4.46	40.16	55.56	-14.40	Peak		

EUT		REMOTI	3		<b>Model Name</b>		NT-4	4B-2		
Tempera	iture	25°C			Relative Hum	idity	56%			
Pressure	essure 960h				Test voltage	DC 3.3V from Button battery				
Test Mo	de	TX CH2			Test by	Eric				
	Channel (313.85MHz Above 1GHz)									
Freq.	Ant. Pol	Peak	AV	Ant. / CL		Pea	ık	Margin		
(MHz)	H/V	Reading	Reading	CF	Actual Fs	Lin	nit	(dB)	Remark	
		(dBuV)	(dBuV)	(dB)	Peak (dBuV/m)	(dBu\	V/m)		Temmin	
1255.4	V	53.24		-10.67	42.19	74	1	-31.81	Peak	
	V									
1255.4	Н	50.19		-10.67	39.7	74	1	-34.3	Peak	
	Н									

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EUT		REMO	OTE		Model	Name	NT-4	NT-4B-2			
Temp	erature	25°C			Relativ	e	56%				
					Humid	ity					
Pressi	ure	960hP	'a		Test vo	ltage	DC 3.	3V from Bu	tton batte	ery	
Test N	Mode	TX CI	H3		Test by	,	Eric				
Channel (315MHz Below 1GHz)											
Fre.	Plority	Reading	Antenna	Cable	Amplifier	Correct	Measure	Limit	Margin	Remark	
		dBuV	Factor	Loss	Gain	Factor	Result	dBuV/m	dB		
MHz	H/V		dB	dB	dB	dB	dBuV/m				
315	Н	85.82	13.19	0.67	27.22	-13.36	72.46	75.60	-3.14	Peak	
630	Н	38.03	18.12	0.67	27.22	-8.43	29.60	55.60	-26.00	Peak	
945	Н	45.06	22.10	0.67	27.22	-4.45	40.61	55.60	-14.99	Peak	
315	V	81.38	13.19	0.67	27.22	-13.36	68.02	75.60	-7.58	Peak	
630	V	39.41	18.12	0.67	27.22	-8.43	30.98	55.60	-24.62	Peak	
945	V	45.60	22.10	0.67	27.22	-4.45	41.15	55.60	-14.45	Peak	

EUT		REMOTE	Ξ		<b>Model Name</b>		NT-4	NT-4B-2			
Tempera	iture	25°C			Relative Hum	idity	56%				
Pressure		960hPa			Test voltage		DC 3.3V from Button battery				
Test Mod	de	TX CH3			Test by		Eric				
	Channel (315MHz Above 1GHz)										
Freq.	Ant. Pol	Peak	AV	Ant. / CL		Pea	ık	Margin			
(MHz)	H/V	Reading	Reading	CF	Actual Fs	Lin	nit	(dB)	Remark		
		(dBuV)	(dBuV)	(dB)	Peak (dBuV/m)	(dBuV	// <b>m</b> )		Remark		
1250	V	52.16		-10.01	42.15	74.0	00	-31.85	Peak		
	V										
1250	Н	54.38		-10.01	44.37	74.0	00	-29.63	Peak		
	Н										

EUT		REMO	OTE		Model	Name	NT-4	B-2				
Temp	erature	25°C			Relativ	e	56%					
					Humid	ity						
Press	ure	960hP	'a		Test vo	ltage	DC 3.	DC 3.3V from Button battery				
Test N	Mode	TX CI	H4		Test by	,	Eric	Eric				
	Channel (318MHz Below 1GHz)											
Fre.	Plority	Reading	Antenna	Cable	Amplifier	Correct	Measure	Limit	Margin	Remark		
		dBuV	Factor	Loss	Gain	Factor	Result	dBuV/m	dB			
MHz	H/V		dB	dB	dB	dB	dBuV/m					
318	Н	85.5	13.24	0.67	27.22	-13.31	72.19	75.8	-3.61	Peak		
636	Н	42.32	18.92	0.67	27.22	-7.63	34.69	55.8	-21.11	Peak		
954	Н	46.71	22.15	0.67	27.22	-4.4	42.31	55.8	-12.49	Peak		
318	V	81.02	13.24	0.67	27.22	-13.31	67.71	75.8	-8.09	Peak		
636	V	44.51	18.92	0.67	27.22	-7.63	36.88	55.8	-18.92	Peak		
954	V	44.59	22.15	0.67	27.22	-4.4	40.19	55.8	-14.61	Peak		

EUT		REMOTI	3		<b>Model Name</b>		NT-4	4B-2		
Tempera	ature	25°C			Relative Hum	idity	56%			
Pressure	960hPa				Test voltage		DC 3.3V from Button battery			
Test Mod	de	TX CH4			Test by		Eric			
	Channel (318MHz Above 1GHz)									
Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs	Pea	ık	Margin		
(MHz)	H/V	Reading	Reading	CF		Lin	nit	(dB)	Remark	
		(dBuV)	(dBuV)	(dB)	Peak (dBuV/m)	(dBu\	V/m)			
1272	V	54.06		-10.73	43.33	74.0	00	-30.67	Peak	
	V									
1272	Н	50.62		-10.73	39.89	74.0	00	-34.11	Peak	
	Н						•			

l Name	NT-4B-2

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EUT		REMO	OTE		Model	Name	NT-4	4B-2			
Temp	erature	25°C			Relativ	e	56%				
					Humid	ity					
Pressi	ire	960hP	'a		Test vo	ltage	DC 3	DC 3.3V from Button battery			
Test N	<b>Iode</b>	TX CI	H5		Test by		Eric	Eric			
		·	Cl	nannel	(433.92MI	Hz Belov	v 1GHz)				
Fre.	Plority	Reading	Antenna	Cable	Amplifier	Correct	Measure	Limit	Margin	Remark	
		dBuV	Factor	Loss	Gain	Factor	Result	dBuV/m	dB		
MHz	H/V		dB	dB	dB	dB	dBuV/m				
433.92	Н	86.32	15.58	0.67	27.22	-10.97	75.35	80.8	-5.45	Peak	
867.84	Н	46.58	21.26	0.67	27.22	-5.29	41.29	41.29 60.8 -19.51 P			
433.92	V	71.08	15.58	0.67	27.22	-10.97	60.11	60.11 80.8 -2		Peak	
867.84	V	47.97	21.26	0.67	27.22	-5.29	42.68	60.8	-18.12	Peak	

EUT		REMOTI	Ξ		<b>Model Name</b>		NT-4	NT-4B-2			
Tempera	iture	25°C			Relative Hum	idity	56%				
Pressure	ure 960hPa				Test voltage	DC 3.3V from Button battery					
Test Mod	de	TX CH5			Test by			Eric			
Channel (433.92MHz Above 1GHz)											
Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs	Pea	ık	Margin			
(MHz)	H/V	Reading	Reading	CF		Lin	nit	(dB)	Remark		
		(dBuV)	(dBuV)	(dB)	Peak (dBuV/m)	(dBu\	V/ <b>m</b> )				
1301.76	V	56.45		-10.64	45.81	74.0	00	-28.19	Peak		
	V					-					
1301.76	Н	53.71		-10.64	43.07 74.0		00	-30.93	Peak		
	Н										

## 4. POWER LINE CONDUCTED EMISSION

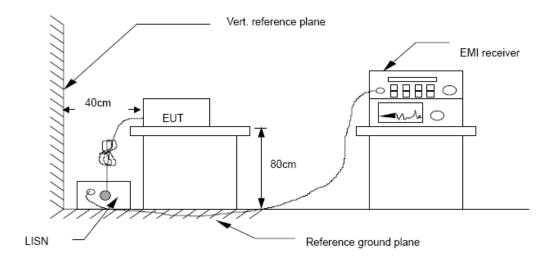
### 4.1. Conducted Emission Limits (15.209)

Frequency	Limits $dB(\mu V)$					
MHz	Quasi-peak Level	Average Level				
0.15 -0.50	66 -56*	56 - 46*				
0.50 -5.00	56	46				
5.00 -30.00	60	50				

Notes: 1. \*Decreasing linearly with logarithm of frequency.

- 2. The lower limit shall apply at the transition frequencies.
- 3. The limit decreases in line with the logarithm of the frequency in the rang of 0.15 to 0.50 MHz.

## 4.2. Test Setup



### 4.3. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and 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 lines 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 ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9 kHz.

#### 4.4. Test Results

EUT power supply by battery, so the test not applicable.

## 5. Occupied bandwidth

### 5.1. Test limit

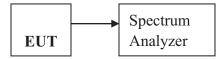
Please refer section 15.231

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.

#### 5.2. Method of measurement

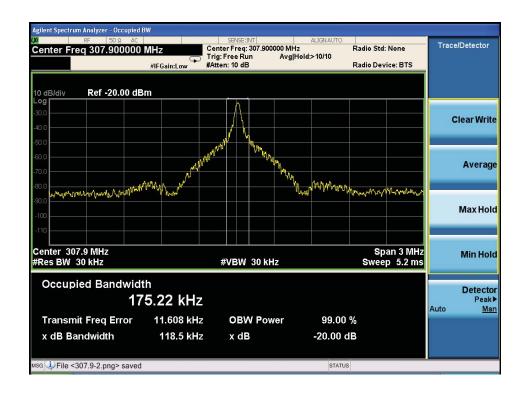
- a)The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b)The test receiver RBW set 30KHz,VBW set 30KHz,Sweep time set auto.

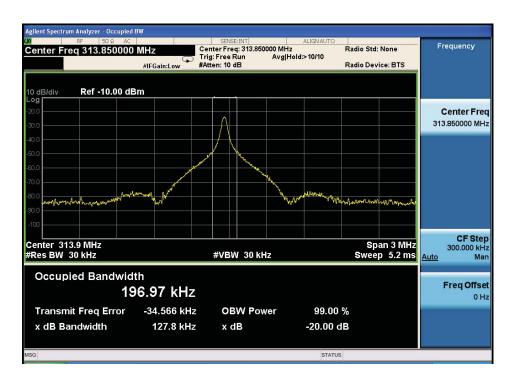
### 5.3. Test Setup



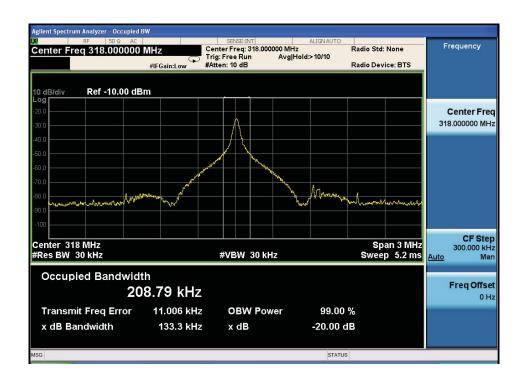
### 5.4. Test Results

EUT: REMO	EUT: REMOTE										
M/N: NT-4B-2											
Test Mode: K	Test Mode: Keeping TX mode										
Test date: 20	16-05-24	Test site: RF site	Tested by: Eric								
Mode Freq (MHz) 20dB Bandwidth (KHz) Limit (kHz) Conclusion											
	307.9	118.5	769.8	PASS							
	313.85	127.8	784.6	PASS							
ASK	ASK 315 130.4 787.5 PASS										
318 133.3 795 PASS											
	433.92	137.1	1084.8	PASS							

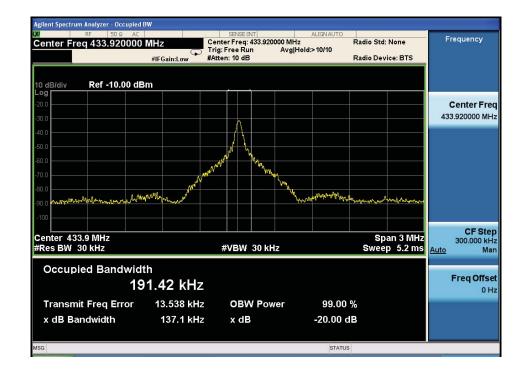








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## 6. Transmission time

### 6.1. Test limit

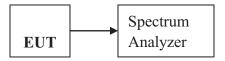
Please refer section 15.231

According to §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.

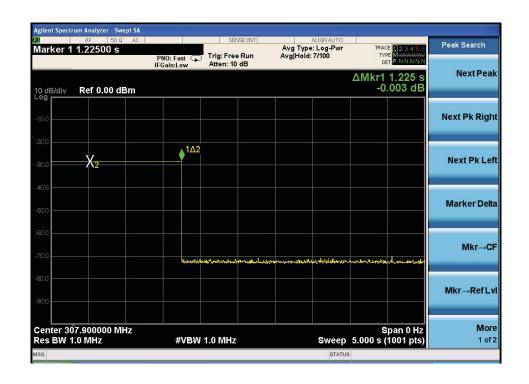
#### 6.2. Method of measurement

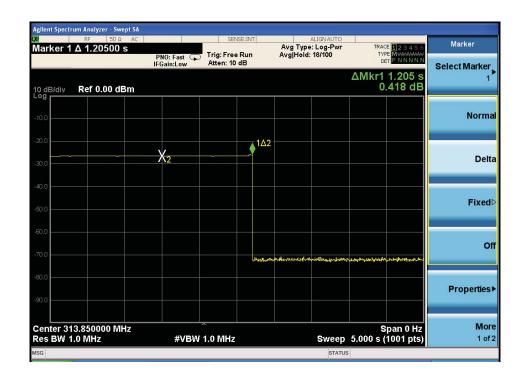
- 6.2.1. Place the EUT on the table and set it in transmitting mode.
- 6.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 6.2.3. Set spectrum analyzer Center=307.9MHz, 313.85MHz, 315MHz, 318MHz, 433.92MHz, Span = 0MHz, Sweep = 5s.
- 6.2.4. Set the spectrum analyzer as RBW, VBW=1MHz,
- 6.2.5. Max hold, view and count how many channel in the band.

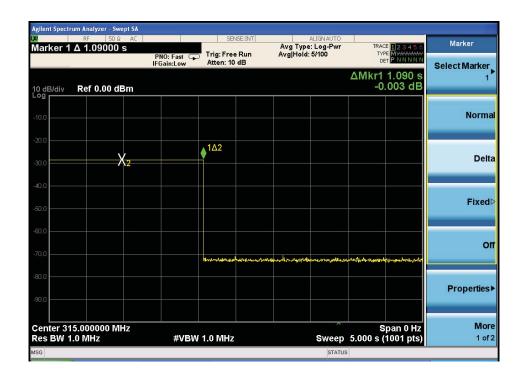
### 6.3. Test Setup

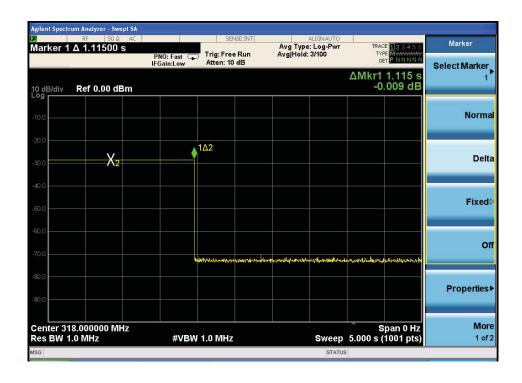


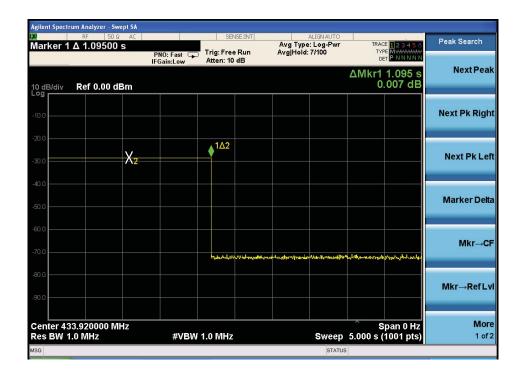
EUT: REMOTE			
M/N: NT-4B-2			
Test Mode: Keeping TX mode			
Test date: 2016-05-24	Test site: RF site	Tested by: Eric	_
Freq (MHz)	Test Result(s)	Limit (s)	Conclusion
307.9	1.225	< 5s	PASS
313.85	1.205	< 5s	PASS
315	1.090	< 5s	PASS
318	1.115	< 5s	PASS
433.92	1.095	< 5s	PASS











### 7. Antenna Requirement

### 7.1. Standard 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 shall be considered sufficient to comply with the provisions of this Section. 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.

#### 7.2. Antenna Connected Construction

The directional gains of antenna used for transmitting is 0 dBi, and the antenna connector is de-signed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

#### 7.3. Result

The EUT antenna is PCB antenna. It comply with the standard requirement.

# 8. Test setup photo

Photos of Radiated emission





### 9. Photos of EUT



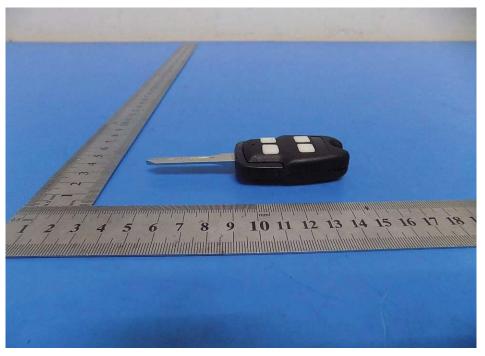


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----END OF THE REPORT-----