

FCC TEST REPORT

For

ShenZhen YuYuanXin Electronic Technology Co., LTD.

WIRELESS-CLASSIC CONTROLLER FOR NES CLASSIC

Model No.: TY-1826

Prepared For : ShenZhen YuYuanXin Electronic Technology Co., LTD.

Address : Building 11, Tianluohu Industry Park, Guihua Industry Area, Guanguang

Road, Guanlan Town, Longhua District, Shenzhen, Guangdong, China

518110

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

Address : 1/F, Building D, Sogood Science and Technology Park, Sanwei

community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong,

China.518102

Tel: (86) 755-26066440 Fax: (86) 755-26014772

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Contents

1. General Information	boter	Aup		wotek.	Mpore	4
1.1. Client Information	y	iek b	Thore	Vur. Yok	botek	4
1.2. Description of Device (EUT)		Yak	Anbotek	Anbo		4
1.3. Auxiliary Equipment Used During T 1.4. Description of Test Modes	est	//o_	wotek.	Anbore	An	4
1.4. Description of Test Modes	AbOtek	Anboro	Vu.	todo,, 4a	ek Aupo	5
1.5. List of Channels	YII.	, nbotel	Anbe		otek pr	6
1.6. Description of Test Setup	Anbe	r	tek An	pore An	Yek.	
1.5. List of Channels	Anbors	<i>b</i> 11.	Yest	**************************************	Anbo	8
1.8. Measurement Uncertainty 1.9. Description of Test Facility	K pobot	Sec. N	UD	, botek	Anbole	9
1.9. Description of Test Facility		botek	Anbore	VII.	, poten	9
2 Summary of Test Results						10
Conducted Emission Test Test Standard and Limit	nboter	Anb.	, took	ek Anbor	P11.	
3.1. Test Standard and Limit	"potek	Anbor		las Asto.	joten An	11
3.2. Test Setup	Notek	Anbo	ter. Mu	X	,botek	.A11
3.3. Test Procedure	Anv	,,	,bote ^k	Aupor.	zz.	11
3.4. Test Data	Anbo		wotek.	eupote.	Anu	11
4. Radiated Emission and Band Edge	ite ^k an	oote.	Ans Tok	botek	Anbor	12
4. Radiated Emission and Band Edge	, kek	Kupotek	Anbo	76	k Aupot	12
4.2. Test Setup	Upo	- Otek	Anbott	An		12
4.2. Test Setup	Anbore	An	i,,,,	lotek Aup	o. bo.	14
4.4. Test Data	,,,botek	Anbo		mote ^K	upote.	14
5. 20dB Bandwidth Test		J.K.	bore	Yu. Wek	Kabotek	24
5.1. Test Standard and Limit	<i>V</i> ₁₀ .	, kel ^k	Kapotek	Anbo	h. hotek	24
5.2. Test Setup	ter Aut		, otek	Anbote	P.U.	24
5.3. Test Procedure	ootek.	Anbors	All	k pote	Anbox	24
5.4. Test Data	, tek	abotek	Anbe		otek Ant	24
6. Antenna Requirement.	bris.	100°	er Aup	V. P.	Yes	27
6.1. Test Standard and Requirement	Anbore	bro.	. Nata	aboten A	Wpc)	27
6.1. Test Standard and Requirement 6.2. Antenna Connected Construction	Anbote	An		Hotek	Anbore	27
APPENDIX I TEST SETUP PHOTOGRAP	Н	otek	Anbo.	W. Yek	photen	28
APPENDIX II EXTERNAL PHOTOGRAP					, , , ote	
APPENDIX III INTERNAL PHOTOGRAP						** 33



TEST REPORT

Applicant : ShenZhen YuYuanXin Electronic Technology Co., LTD.

Manufacturer : ShenZhen YuYuanXin Electronic Technology Co., LTD.

Product Name : WIRELESS-CLASSIC CONTROLLER FOR NES CLASSIC

Model No. : TY-1826

Trade Mark : N/A

Rating(s) : Input: DC 3V, 12mA "AAA"*2

Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.249

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 Test		Iviay 07~3t	III. 07, 2016	
	OTES	Tange	Josek Amodek	
Prepared by	abotek	botek Anbot	Ambotek Anbot	er Aupo
E.		(Engineer /	Tangey. T)	
Annorek Annorek	FICE	Colvin	Liss	
Reviewer	hotek Anbot	184 ND	200 k.	A. Otek
ek Anbotek Anbotek		(Supervisor	/ Calvin Liu)	rek Anu
		Anbotek Anbote	Aybotek Ant	
		Anbore Andrew	alen	
Approved & Authorized Sign	ner Anbotek Anbotek	And stek and		
	Anbotek Anbote	(Manager /	Tom Chen)	k And abotek



1. General Information

1.1. Client Information

Applicant	:	ShenZhen YuYuanXin Electronic Technology Co., LTD.					
Address	:	Building 11, Tianluohu Industry Park, Guihua Industry Area, Guanguang Road, Guanlan Town, Longhua District, Shenzhen, Guangdong, China 518110					
Manufacturer	:	ShenZhen YuYuanXin Electronic Technology Co., LTD.					
Address	:	Building 11, Tianluohu Industry Park, Guihua Industry Area, Guanguang Road, Guanlan Town, Longhua District, Shenzhen, Guangdong, China 518110					

1.2. Description of Device (EUT)

Product Name	:	WIRELESS-CLASSIC CONTR	OLLER FOR NES CLASSIC			
Model No.	:	TY-1826	Anbotek Anbotek Anbote Amb			
Trade Mark	:	N/A	ek Anbotek Anbotek Anbotek A			
Test Power Supply	:	DC 3V By Battery	botek Anbotek Anbotek Anbotek			
		Operation Frequency:	2405-2475MHz			
					Number of Channel:	71 Channels
Product Description	:	Modulation Type:	GFSK Anbotek Anbotek Anbotek			
•		Antenna Type:	PCB Antenna			
		Antenna Gain(Peak):	2 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

1 - () "	12/2		L (2.3"	- 17		1.7			
N/A		:	Aupora	b.11.	rek Anb	oten Aupe	rek	abotek	Anbote



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 Mo	de			Description	on		
Anbore	Mode 1	ibotek A	nbotek An	botek A	Keeping TX	mode	Anbotek	Anbotek
Stek Aun	Mode 2	Anbotek	Anbotek	Anbotek	CH01	Anbotek	Anbotek	Aupo
nbotek	Mode 3	Anbote	Anbotek	Anbotek	СН36	Anbote	K Anbo	otek b
Anbotek	Mode 4	cek Anbe	lek Anbot	ek Aupo	CH71	itek Anb	oter An	Anbotek

eV	For Conducted Emission							
00	Final Test Mode	Description						
Z'	Mode 1	Keeping TX mode						

ė.	For Radiated Emission								
o	Final Test Mode	Description							
dy.	Mode 2	Anbotek CH01 Anbotek Anbotek							
P	Mode 3	CH36							
4	Mode 4	CH71	10						
ve ^V	Mode 1	Keeping TX mode	e jo						

Note:

- 1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
- 2. EUT built-in battery-powered, fully-charged battery use of the test battery.



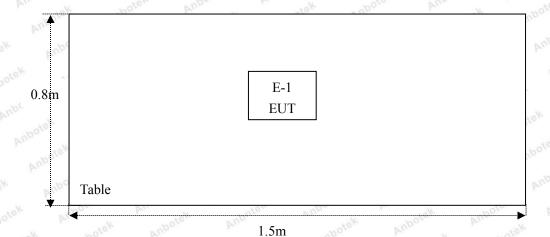
1.5. List of Channels

-0/e	VUD	Nos	-1001	Dir.	- ter	2000	h.	
Chammal	Freq.	Channal	Freq.	Champal	Freq.	Chamal	Freq.	
Channel	(MHz)	Channel	(MHz)	Channel	(MHz)	Channel	(MHz)	
otek1	2405	19	2423	37 A	2441	55	2459	
2	2406	20	2424	38	2442	56	2460	
3 otek	2407	21	2425	39	2443	57	2461	
4 Anbote	2408	22	2426	40	2444	58	2462	
ek 5 Anb	2409	23	2427	41	2445	59 M	2463	
oote ^k 6	2410	24	2428	42	2446	60	2464	
Anbo'7 ^k	2411	25	2429	43	2447	61	2465	
An8otek	2412	26	2430	44	2448	62	2466	
9 nbote	2413	27 note	2431	45	2449	63	2467	
10 Anbi	2414	28	2432	46	2450	64	2468	
otek 11 A	2415	29	2433	47	2451	65	2469	
12 ×	2416	30	2434	48	2452	66	2470	
13	2417	31	2435	49	2453	67	2471	
14	2418	32	2436	50 _{Amb} ot	2454	68	2472	
15 Anbo	2419	33	2437	51 po	2455	69	2473	
16	2420	34	2438	52	2456	70	2474	
17	2421	35	2439	53	2457	71	2475	
18 tek	2422	36	2440	54	2458	k / nbotek	Yupor	



1.6. Description of Test Setup

RE





1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
otek 1. nbotek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 17, 2017	1 Year
2.00	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 17, 2017	1 Year
3. №	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 17, 2017	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 17, 2017	1 Year
5.	Spectrum Analysis	Agilent	N9038A	MY53227295	Nov. 17, 2017	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 17, 2017	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 17, 2017	1 Year
8.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2017	1 Year
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 20, 2017	1 Year
10.	Loop Antenna	Schwarzbeck	HFH2-Z2	100047	Nov. 17, 2017	1 Year
11	Horn Antenna	Schewarzbeck	BBHA9170	9170-375	Nov. 17, 2017	1 Year
12.	Pre-amplifier	SONOMA	310N	186860	Nov. 17, 2017	1 Year
13.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A MOO	N/A	N/A
14.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 18, 2017	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 17, 2017	1 Year
16.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 17, 2017	1 Year
17.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 18, 2017	1 Year
18.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 18, 2017	1 Year
19.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 18, 2017	1 Year
20.	DC Power Supply	LW	TPR-6410D	349315	Nov. 01, 2017	1 Year
21.	Constant Temperature Humidity Chamber	Sertep	ZJ-HWHS80B	ZJ-17042804	Nov. 01, 2017	1 Year



1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
		nbotek Anbote K Anbotek Anbotek Anbote An
Conduction Uncertainty	:	Uc = 3.4 dB

1.9. 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, July 31, 2017.

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-1, June 13, 2016.

Test Location

All Emissions tests were performed at Shenzhen Anbotek Compliance Laboratory Limited. at 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
15.249	Radiated Emission	PASS
15.215(c)	20dB Bandwidth	PASS
15.249(c)	Band Edge	PASS
Remark: "N/A" is an abbre	eviation for Not Applicable.	K Anbotek A



3. Conducted Emission Test

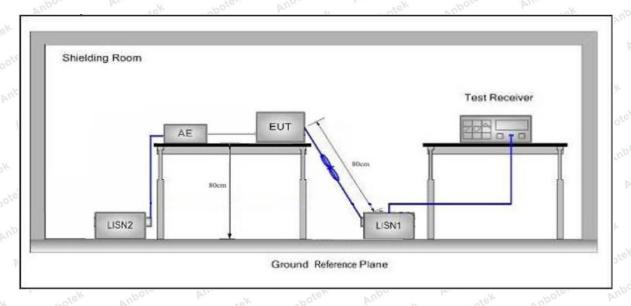
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.20	7 Anbore An botek	Anbotek Anbo stek					
	F	Maximum RF	Maximum RF Line Voltage (dBuV)					
	Frequency	Quasi-peak Level	Average Level					
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *					
	500kHz~5MHz	56 56	46					
	5MHz~30MHz	60	50 bottes Ar					

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 receiver (ESCI) set at 9kHz.

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

3.4. Test Data

There is DC 3V Battery inside, So there is no need to test.



4. Radiated Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.20	99 and 15.205	Al. botek	Anboten	Aubo stek
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	ibotek - Anbo	co Fun	300
	0.490MHz-1.705MHz	24000/F(kHz)	Anbotek Ar	Pore VIII	30
	1.705MHz-30MHz	30	Anbatek	Anbore P	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3.04
	88MHz~216MHz	150	43.5	Quasi-peak	3 _{botek}
	216MHz~960MHz	200	46.0	Quasi-peak	3 bote
y v	960MHz~1000MHz	500	54.0	Quasi-peak	atek 3
	Above 1000MHz	500	54.0	Average	3
	Above 1000MHZ	botek - Anbot	74.0	Peak	Amb 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.

Test Standard	FCC Part15 C Section 15.249			'upofe. K	Anbotek Anbotek		
Test Limit	Frequency (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)	
	2400~2483.5	50	Anbotek - Anbo	114.0	Peak	3 And	
	2400~2483.5	50	Anbotek Anb	94.0	Average	Anbote 3	
	2400~2483.5	ok hotek	500	74.0	Peak	Anbote 3	
	2400~2483.5	upor Augusta	500	54.0	Average	3	

Remark:

(1) 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.

4.2. Test Setup



Figure 1. Below 30MHz

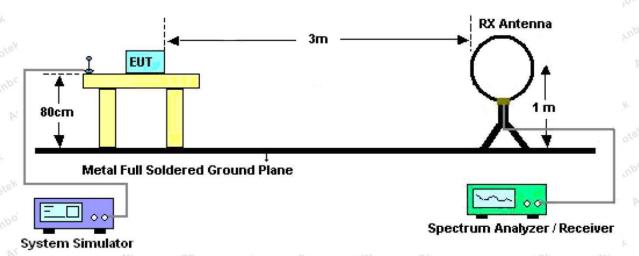


Figure 2. 30MHz to 1GHz

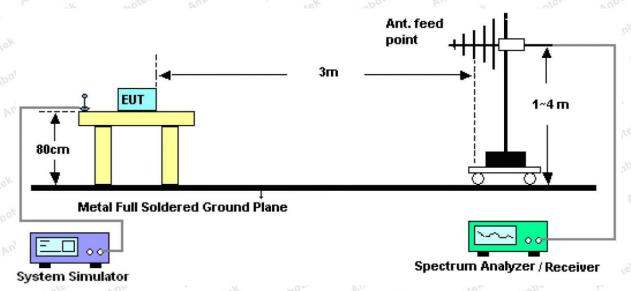
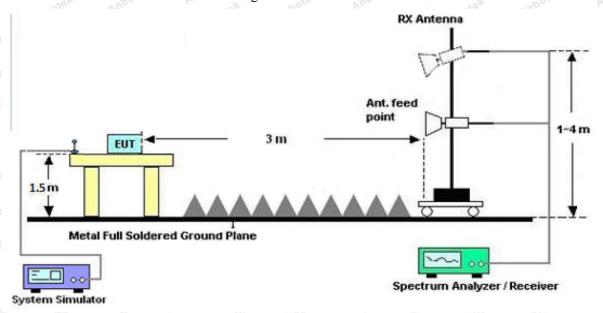


Figure 3. Above 1 GHz





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 the radiated emission test above 1GHz:

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.

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 was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

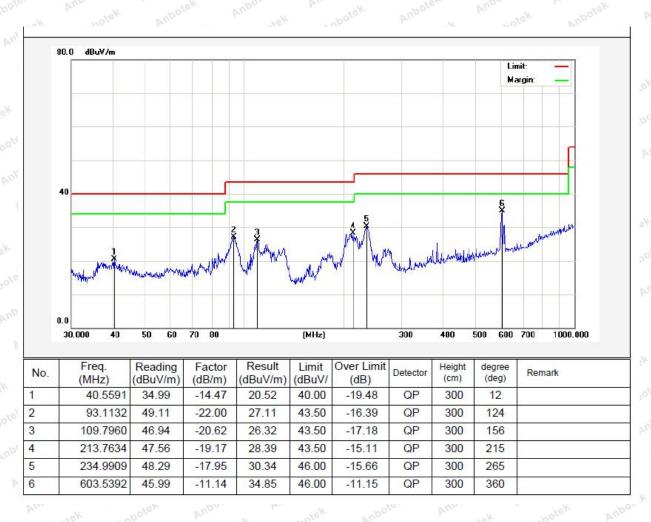


Test Results (30~1000MHz)

Job No.: SZAWW180507001-01 Temp.(°C)/Hum.(%RH): 23.2°C/53.4%RH

Standard: FCC PART 15C Power Source: DC 3V By Battery

Test Mode: TX Mode Polarization: Horizontal



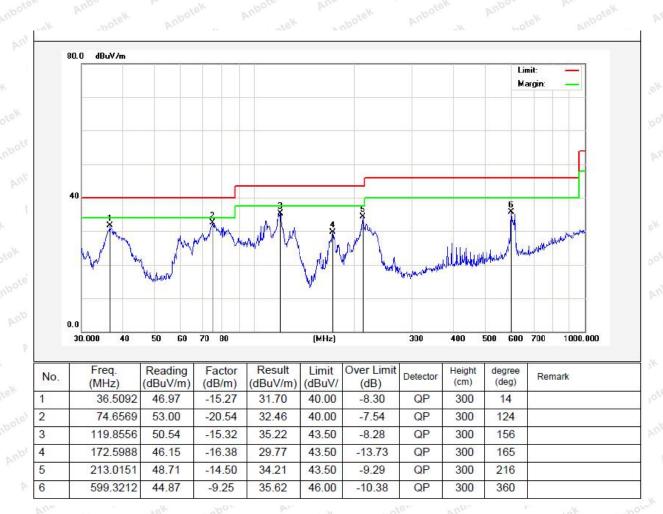


Test Results (30~1000MHz)

Job No.: SZAWW180507001-01 Temp.(°C)/Hum.(%RH): 23.2°C/53.4%RH

Standard: FCC PART 15C Power Source: DC 3V By Battery

Test Mode: TX Mode Polarization: Vertical





Test Results (1GHz-25GHz)

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Detector
2405.0000	95.86	31.12	2.18	35.33	93.83	114.00	-20.17	V	Peak
2405.0000	82.89	31.12	2.18	35.33	80.86	94.00	-13.14	V	AVG
4810.0000	49.50	34.01	2.58	34.65	51.44	74.00	-22.56	V	Peak
4810.0000	41.89	34.01	2.58	34.65	43.83	54.00	-10.17	V	AVG
7215.0000	48.53	36.16	2.97	35.07	52.59	74.00	-21.41	V	Peak
7215.0000	35.76	36.16	2.97	35.07	39.82	54.00	-14.18	V	AVG
9620.0000	*	Aupo	anbotek	Anbo	VK VI	notek	Anbotek	Vup,	, eK
12025.0000	*	Aupo	k nbot	ek Pr	bote	Yun Yun	Anbotek	P	upor
14430.0000	A.* Otel	Aupor	rek n	potek	Aupolo	Ann	Anbo	EK.	Anbote
16835.0000	*	V VID	-16K	nbotek	Aupoten	K AUD	stek as	potek	Aupor
2405.0000	95.49	31.12	2.18	35.33	93.46	114.00	-20.54	Put Hick	Peak
2405.0000	83.40	31.12	2.18	35.33	81.37	94.00	-12.63	Habe	AVG
4810.0000	49.78	34.01	2.58	34.65	51.72	74.00	-22.28	Н	Peak
4810.0000	40.13	34.01	2.58	34.65	42.07	54.00	-11.93	e⊁ H	AVG
7215.0000	45.77	36.16	2.97	35.07	49.83	74.00	-24.17	Н	Peak
7215.0000	35.51	36.16	2.97	35.07	39.57	54.00	-14.43	H	AVG
9620.0000	* 4.00	· otek	Anbotek	Anbore	VK N	otek A	hotel.	Aupo	ek pi
12025.0000	*	Upa	Anbotek	Anbot	rok bus	botek	Anbotek	Anbo	-tek
14430.0000	Anbote*	Anbo	nbote	K An	oce b	ino potek	Anbotek	PL	Por
16835.0000	*	Aupor	- K 10	otek	Anbote	Vun	Joda	N. Carlotte	Aupor

Note:

- 1. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Test Mode: 0	CH36 (Middle	e channel)							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Detector
2440.0000	94.36	31.12	2.20	34.51	93.17	114.00	-20.83	V	Peak
2440.0000	85.73	31.22	2.20	34.51	84.64	94.00	-9.36	V	AVG
4880.0000	50.18	34.98	2.49	34.14	53.51	74.00	-20.49	V	Peak
4880.0000	39.29	34.98	2.49	34.14	42.62	54.00	-11.38	V	AVG
7320.0000	48.46	36.01	3.01	34.56	52.92	74.00	-21.08	V	Peak
7320.0000	36.28	36.01	3.01	34.56	40.74	54.00	-13.26	NV	AVG
9760.0000	abotek*	Yupote,	Aug Potek	Anbo	lek Vu	orek	nbotek	Anb	Ner.
12200.0000	***	Anboten	K PUD	ek N	potek	Yupo ok	All botek	P	upoten
14640.0000	*	Anbote	Auba	otek	Anbotek	Aupore	r vo	lek.	Anbotek
17080.0000	* * *	k Aut	ofer bu	notek	Anbotek	Anbore	rok Mur	botek	Anboth
2440.0000	96.62	31.12	2.20	34.51	95.43	114.00	-18.57	Htel	Peak
2440.0000	85.22	31.12	2.20	34.51	84.03	94.00	-9.97	H	AVG
4880.0000	50.03	34.98	2.49	34.14	53.36	74.00	-20.64	H	Peak
4880.0000	41.13	34.98	2.49	34.14	44.46	54.00	-9.54	H	AVG
7320.0000	47.46	36.01	3.01	34.56	51.92	74.00	-22.08	Н	Peak
7320.0000	36.97	36.01	3.01	34.56	41.43	54.00	-12.57	H	AVG
9760.0000	tek * Anb	Pre. b	nbotek	Anbotek	Aupor	rek VI	botek	Anboten	r Pur
12200.0000	wo ^{tek} *	upore	And	Anbot	er Aup	orek b	abotek	Anbo	ler.
14640.0000	*	Anboten	Anu	K An'	ootek p	upor	All botek	P.Y	Poter
17080.0000	*****	Aupote	N. Vuo.	olek .	nbotek	Aupore	All not	N.	Anbotek

Note: N

- 1. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Test Mode: 0	CH71 (High c	hannel)							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Detector
2475.0000	95.61	31.65	2.23	36.07	93.42	114.00	-20.58	V	Peak
2475.0000	84.62	31.65	2.23	36.07	82.43	94.00	-11.57	V	AVG
4950.0000	47.23	35.06	2.60	34.93	49.96	74.00	-24.04	V	Peak
4950.0000	40.60	35.06	2.60	34.93	43.33	54.00	-10.67	V	AVG
7425.0000	47.19	36.19	3.12	35.11	51.39	74.00	-22.61	V	Peak
7425.0000	35.24	36.19	3.12	35.11	39.44	54.00	-14.56	AVV	AVG
9900.0000	*	Aupoten	Ano	Anbo	lek Vu	or tek	anbotek .	Anb	210k
12375.0000	*	Anboten	Aug	ek N	botek	Yupote ***	An hotek	D	upotek
14850.0000	*	Anbote	Aupo	otek	Anbotek	Anbore	k ho	lek.	Anbotek
17325.0000	* * *	k Aug	oter Pu	otek	Anbotek	Anbore	Lok Mus	botek	Anboli
2475.0000	95.04	31.65	2.23	36.07	92.85	114.00	-21.15	Hiel	Peak
2475.0000	83.10	31.65	2.23	36.07	80.91	94.00	-13.09	H	AVG
4950.0000	47.25	35.06	2.60	34.93	49.98	74.00	-24.02	H	Peak
4950.0000	39.62	35.06	2.60	34.93	42.35	54.00	-11.65	, Н	AVG
7425.0000	48.24	36.19	3.12	35.11	52.44	74.00	-21.56	Н	Peak
7425.0000	35.51	36.19	3.12	35.11	39.71	54.00	-14.29	H ,	AVG
9900.0000	* Anb	Pre, b	notek	Anbotek	Anbore	rok VIII	botek	Anboten	N Mulo
12375.0000	botek * P	upore	And	Anbot	Aug Aug	orek b	potek	Anbo	ier l
14850.0000	*	Anboten	Pup.	K An'	ootek b	nbote	All	A.	Potek
17325.0000	*****	Anbote	Pup.	otek h	nbotek	Aupore	You.	N.	Anbotok

Note:

- 1. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Radiated Band Edge:

Test Mode: 0	CH01			Test	channel: Lowe	est		
				Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	52.88	29.15	3.41	34.01	51.43	74.00	-22.57	boteV
2400.00	57.85	29.16	3.43	34.01	56.43	74.00	-17.57	V_{e_k}
2390.00	54.43	29.15	3.41 And	34.01	52.98	74.00	-21.02	Hoote
2400.00	57.02	29.16	3.43	34.01	55.60	74.00	-18.40	Н
			A	verage Valu	e			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	43.58	29.15	3.41	34.01	42.13	54.00	-11.87	Anbolo
2400.00	46.58	29.16	3.43	34.01	45.16	54.00	-8.84	AVOICE
2390.00	44.62	29.15	3.41	34.01	43.17	54.00	-10.83	$H_{A}n^{b}$
2400.00	44.96	29.16	3.43	34.01	43.54	54.00	-10.46	e ^N H ₽

100	Y	1-01	Ville		100	Jo pr	2.7	26.
Test Mode: C	СН71			Test	channel: Highe	est		
				Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	52.05	29.28	3.53	34.03	50.83	74.00	-23.17	otekV
2500.00	56.14	29.30	3.56	34.03	54.97	74.00	-19.03	$nboV^k$
2483.50	53.83	29.28	3.53	34.03	52.61	74.00	-21.39	Hotek
2500.00	58.94	29.30	3.56	34.03	57.77	74.00	-16.23	H
			A	verage Valu	e			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	42.43	29.28	3.53	34.03	41.21	54.00	-12.79	upolo V
2500.00	44.98	29.30	3.56	34.03	43.81	54.00	-10.19	AUV
2483.50	44.06	29.28	3.53	34.03	42.84	54.00	-11.16	Hopo
2500.00	43.24	29.30	3.56	34.03	42.07	54.00	-11.93	H An

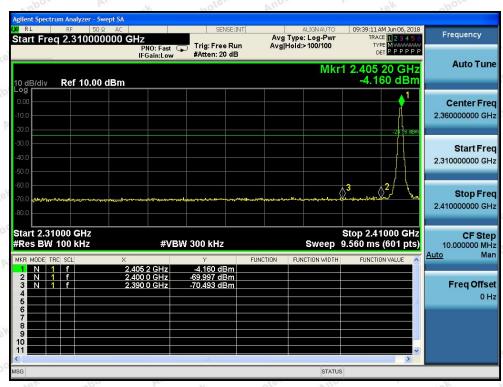
Remark:

1. Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

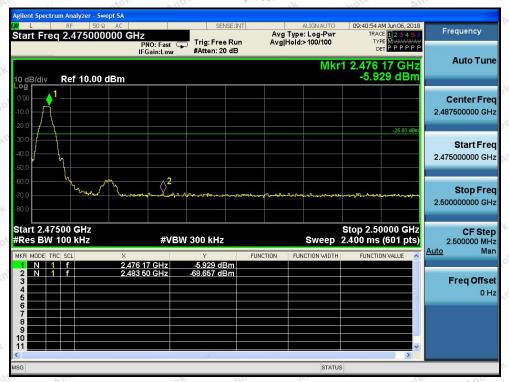


Conducted band edge

	Frequency Band (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Results
S.	2405	56.004	>50	PASS
botek	2475	64.465	>50	PASS



Lowest



Highest



Conducted Emission Method



CH: Low



CH: Middle



CH: High

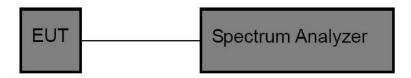


5. 20dB Bandwidth Test

5.1. Test Standard and Limit

T . C. 1 1	ECC D 415 C C 41 15 040	VII.	V Ster	14po
Test Standard	FCC Part15 C Section 15.249			

5.2. Test Setup



5.3. Test Procedure

- 1. Place the EUT on the table and set it in the 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:

 $RBW = 30kHz, VBW \ge 3*RBW = 100kHz,$

Detector= Average

Trace mode= Max hold.

Sweep- auto couple.

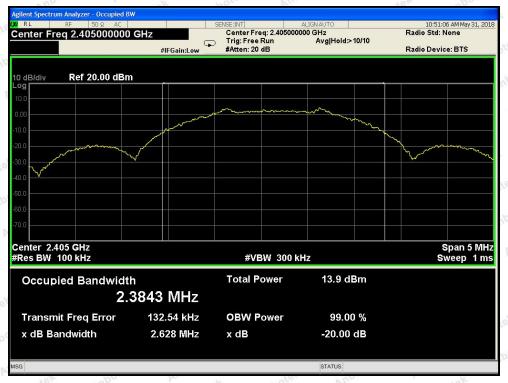
- 4. Mark the peak frequency and -20dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

5.4. Test Data

Test Item	:	20dB Bandwidth	Test Mode :	TX Mode
Test Voltage	:	DC 3V By Battery	Temperature :	24℃
Test Result	:	PASS	Humidity :	55%RH

	Frequency (MHz)	- W-	I	Bandwidth (kHz)	h 10 °	A.V.	Result	V
Al. abotek	2405MHZ	Anbo	Anbotek	2628.0	Anthore	K Anbe	PASS	Anbo.
A. abotek	2440MHZ	Anb	Anbotek	2591.0	YII.	otek A	PASS	Anbo
8K 200	2475MHZ	Ant	tek vupote	2598.0	A.	hotek	PASS	Anbo



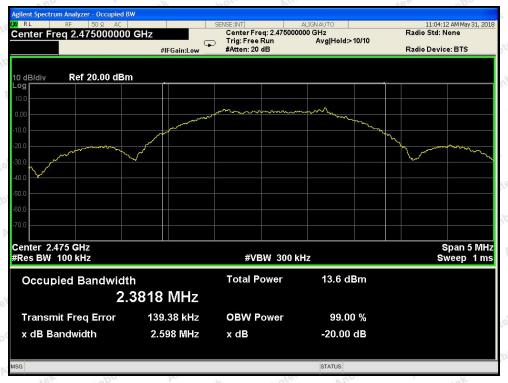


Test Mode: Low



Test Mode: Middle





Test Mode: High



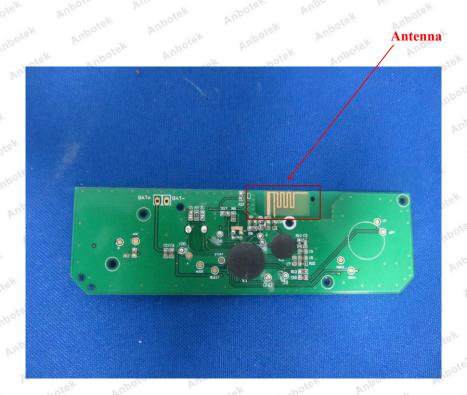
6. Antenna Requirement

6.1. 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. 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.

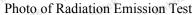
6.2. Antenna Connected Construction

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is 2 dBi. It complies with the standard requirement.

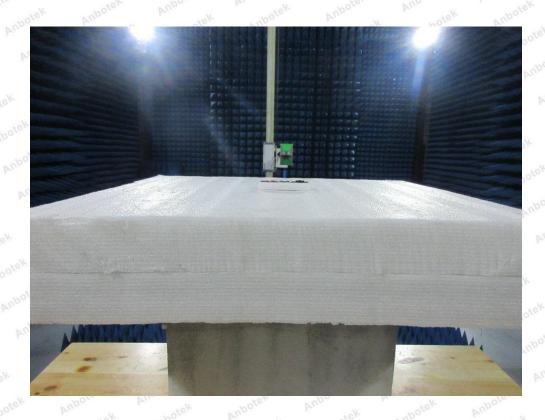




APPENDIX I -- TEST SETUP PHOTOGRAPH









APPENDIX II -- EXTERNAL PHOTOGRAPH





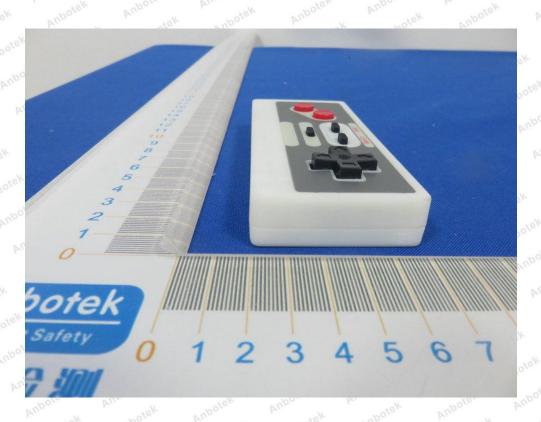


















Anbotek



APPENDIX III -- INTERNAL PHOTOGRAPH



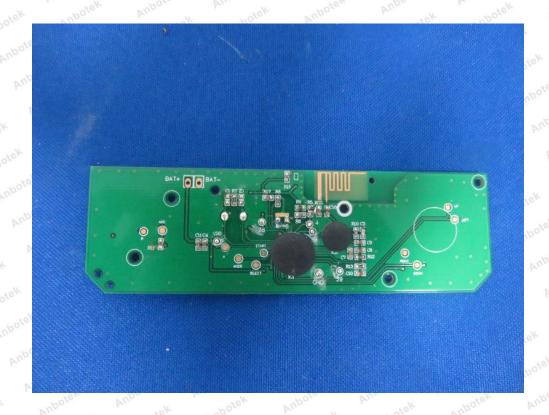


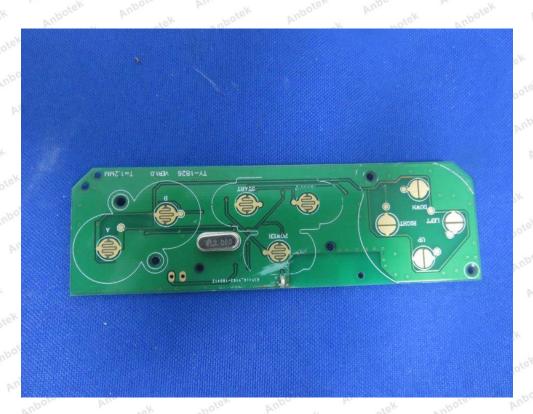












----- End of Report ------