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# FCC TEST REPORT

Client Name : ShenZhen Targetever Technology Co.,Ltd.

Address Floor 11-12, Building 8, Lian Hua Industrial Park, Long Yuan

Road, Long Hua New District, Shen Zhen, China

Product Name : Switch video dock

Date : Sept. 10, 2019

## **Shenzhen Anbotek Compliance Laboratory Limited**





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Code: AB-RF-05-a

Email: service@anbotek.com



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## TEST REPORT

Applicant : ShenZhen Targetever Technology Co.,Ltd.

Manufacturer : ShenZhen Targetever Technology Co.,Ltd.

Product Name : Switch video dock

Model No. : B93, B91, B92, B94, B95, B96, B97

Trade Mark : N.A.

Rating(s) : Input: DC 5V, 2.4A or DC 15V, 2.6A

Output: DC 5V, 2.0A or DC 15V, 2.0A

Test Standard(s) : FCC Part15 Subpart C 2018, Section 15.247

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

Date of Test

Anbotek Product Salety \*Approved \*

Jan. 14, 2019

Jan. 14~Mar. 13, 2019

Prepared by

(Engineer / Oliay Yang)

Reviewer

(Supervisor / Snowy Meng)

Snowy Meng

Approved & Authorized Signer

(Manager / Sally Zhang)

**Shenzhen Anbotek Compliance Laboratory Limited** 



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## 1. General Information

## 1.1. Client Information

	Dir.	V 1-01 DV
Applicant	: ShenZhen Targetever Technology Co.,Ltd.	
Address	Floor 11-12,Building 8,LianHua Industrial Park, Lo New District, ShenZhen, China	ongYuan Road,LongHua
Manufacturer	: ShenZhen Targetever Technology Co.,Ltd.	Anbotek Anbotek
Address	Floor 11-12,Building 8,LianHua Industrial Park, Lo New District, ShenZhen, China	ongYuan Road,LongHua
Factory	: ShenZhen Targetever Technology Co.,Ltd.	otek Anbore Anbore
Address	Floor 11-12,Building 8,LianHua Industrial Park, Lo New District, ShenZhen, China	ongYuan Road,LongHua

## 1.2. Description of Device (EUT)

Product Name	:	Switch video dock	Anbotek Anbotek Anbotek Anbote					
Model No.	:	B93, B91, B92, B94, B95, B96 (Note: All samples are the sam test only.)	, B97 ne except the name, so we prepare "B93" for					
Trade Mark	:	N.A.	potek Anbotek Anbotek Anbotek					
Test Power Supply	:	AC 120V, 60Hz for adapter	Anbotek Anbotek Anbotek Anbotel					
Test Sample No.		S1(Normal Sample), S2(Engineering Sample)						
		Operation Frequency:	2402MHz~2480MHz					
		Transfer Rate:	1/2/3 Mbits/s					
Product		Number of Channel:	79 Channels					
Description		Modulation Type:	GFSK, π/4-DQPSK, 8-DPSK					
c		Antenna Type:	PCB Antenna					
		Antenna Gain(Peak):	0 dBi					

**Remark:** 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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## 1.3. Auxiliary Equipment Used During Test

_V_ v_0`	by 16, 10, 10, 17, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
Adapter	: Manufacturer: Lenovo
	Model: PA-1650-16I
	S/N:11S92P1158Z1ZD2HISKOL4
	Input: 100V-240V~ 50/60Hz, 1.5A
6	V VV VV
	Ouput: DC 5V, 2.4A
o <sup>3</sup>	botek Anbotek Anbotek Anbotek Anbotek
TV	: Manufacturer: SONY
	M/N: KDL-26EX550
	No. W. The state of the state o
	S/N: 1012240
	CE, FCC: DOC

#### 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.

#### **TEST MODE:**

TEOT MICE	ACC ACC	PO, D1		210,
Mode 1	otek Anborek Anbore	CH00	Anborek	Anbo otek Anbotek Ar
Mode 2	GFSK	CH39	Anbotek	Anbotek Anbotek
Mode 3	Anbotek Anbotek An	CH78	Anbore	Anbotek Anbotek
Mode 4	Anbotek Anbotek	CH00	sk Aup	he Anbotek Anbotek
Mode 5	π/4-DQPSK	CH39	potek p	Keeping Tx+Charging/ TX Only
Mode 6	stek Anbotek Anboten	CH78	Anbotek	Anborek An
Mode 7	hou stek Anborek Anbor	CH00	Anbotek	Anbo. atek Anbotek
Mode 8	8-DPSK	CH39	Anbotel	Anbotek Anbotek
Mode 9	Anbotek Anbotek	CH78	ik Aupo	ler And hotek Anbotek

#### Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The data rate was set in 1Mbps for radiated emission due to the highest RF output power.

Hotline 400-003-0500

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## 1.5. List of channels

Channel	Freq. (MHz)								
00	2402	17	2419	34	2436	51	2453	68	2470
01,000	2403	18	2420	35	2437	52	2454	69	2471
02	2404	19	2421	36	2438	53	2455	70	2472
03	2405	20	2422	37	2439	54	2456	71	2473
04	2406	21	2423	38	2440	55	2457	72	2474
05	2407	22	2424	39	2441	56	2458	73	2475
05	2408	23	2425	40	2442	57	2459	74	2476
07	2409	24	2426	41,000	2443	58	2460	75	2477
08	2410	25	2427	42	2444	59	2461	76	2478
09	2411	26	2428	43	2445	60	2462	77	2479
10	2412	27	2429	44	2446	61	2463	78	2480
11,000	2413	28	2430	45	2447	62	2464		
12	2414	29	2431	46	2448	63	2465		
13	2415	30	2432	47 🚾	2449	64	2466		
14	2416	31	2433	48	2450	65	2467		
15	2417	32	2434	49	2451	66	2468		
16	2418	33	2435	50	2452	67	2469		

Note: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

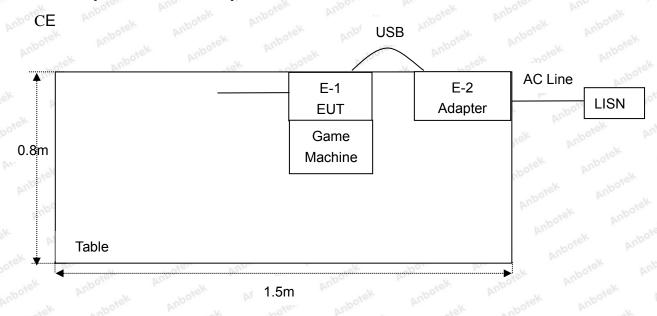


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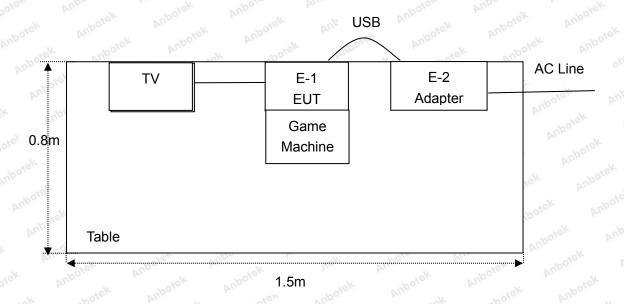
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## 1.6. Description Of Test Setup



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## 1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
1.Anh	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 05, 2018	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 05, 2018	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 05, 2018	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 05, 2018	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 05, 2018	1 Year
Am 70 rel	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 20, 2018	1 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 20, 2018	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	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	Nov. 05, 2018	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 05, 2018	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 05, 2018	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 05, 2018	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 05, 2018	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Apr. 02, 2018	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Nov. 01, 2018	1 Year





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#### 1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	Anborek Anborotek
		Ur = 3.8 dB (Vertical)	Anbotek Anbotek Anbotek
(-		potek Anbor tek Anbotek	Anbores And hotek Anbor
Conduction Uncertainty	:	Uc = 3.4 dB	ek Anbores And Andrek An

### 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, September 30, 2018.

#### 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, March 07, 2019.

#### **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



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## 2. Summary of Test Results

Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
15.247(b)(1)	Conducted Peak Output Power	PASS
15.247(a)(1)	20dB Occupied Bandwidth	PASS
15.247(a)(1)	Carrier Frequencies Separation	PASS
15.247(a)(1)	Hopping Channel Number	PASS
15.247(a)(1)	Dwell Time	PASS
15.247(d)	Band Edge	PASS
Remark: "N/A" is an abbre	eviation for Not Applicable.	Anbotek Anbotek



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## 3. Conducted Emission Test

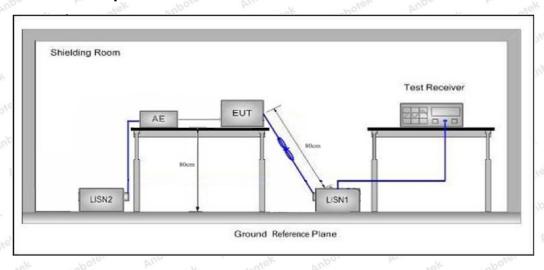
#### 3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.2	07 Anbotek Anbo					
Test Limit	Francis	Maximum RF Line Voltage (dBuV)					
	Frequency	Quasi-peak Level	Average Level				
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *				
	500kHz~5MHz	56	46				
	5MHz~30MHz	60	rek Anbo 50, hotel				

**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

Please to see the following pages.





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#### **Conducted Emission Test Data**

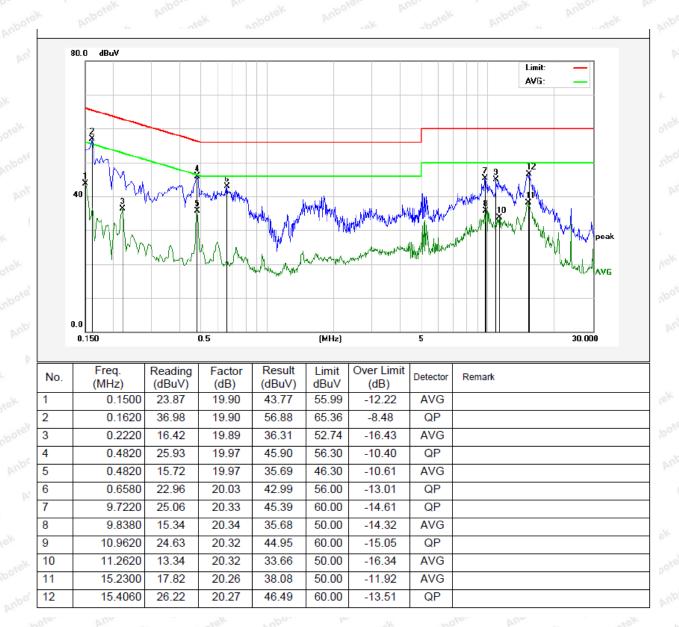
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 21.9℃ Hum.: 61%





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#### **Conducted Emission Test Data**

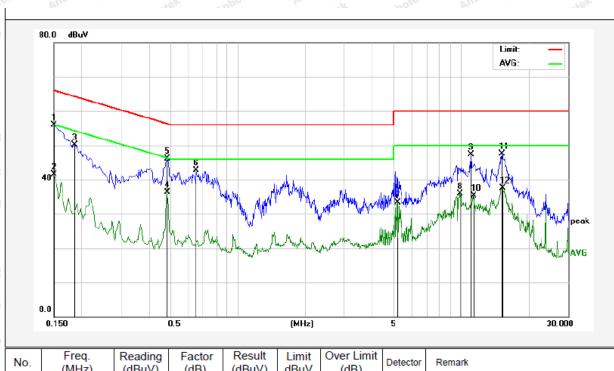
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 21.9°C Hum.: 61%



No	No.	Freq.	Reading	Factor	Result	Limit	Over Limit	Detector	Remark
	INO.	(MHz)	(dBuV)	(dB)	(dBuV)	dBuV	(dB)	Detector	Remark
	1	0.1500	36.10	19.90	56.00	65.99	-9.99	QP	
	2	0.1500	21.64	19.90	41.54	55.99	-14.45	AVG	
	3	0.1860	30.13	19.90	50.03	64.21	-14.18	QP	
	4	0.4820	16.34	19.97	36.31	46.30	-9.99	AVG	
	5	0.4860	26.08	19.97	46.05	56.24	-10.19	QP	
	6	0.6540	22.75	20.03	42.78	56.00	-13.22	QP	
	7	5.2140	13.13	20.21	33.34	50.00	-16.66	AVG	
	8	9.8380	15.54	20.34	35.88	50.00	-14.12	AVG	
	9	11.0700	27.05	20.32	47.37	60.00	-12.63	QP	
	10	11.2620	15.02	20.32	35.34	50.00	-14.66	AVG	
	11	15.1660	27.25	20.26	47.51	60.00	-12.49	QP	
	12	15.2300	17.31	20.26	37.57	50.00	-12.43	AVG	



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## 4. Radiation Spurious Emission and Band Edge

#### 4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 1	5.209 and 15.205	botek Anbot	r Nur	tek Anbotek
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	Anbo.	h. abotek	300
	0.490MHz-1.705MHz	24000/F(kHz)	Fig. Vilpo.	k anbotek	30
	1.705MHz-30MHz	30	otek Anbo	riek - vupot	30 000
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	otek 3 Anbor
	88MHz~216MHz	150	43.5	Quasi-peak	Anbotek 3 Ant
	216MHz~960MHz	200	46.0	Quasi-peak	Ambo 3
	960MHz~1000MHz	500	54.0	Quasi-peak	Art 3 rek
	Ab 4000MU	500	54.0	Average	K 3,botek
	Above 1000MHz	Anbo. atek	74.0	Peak	otek 3 Anbote

#### 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.

#### 4.2. Test Setup

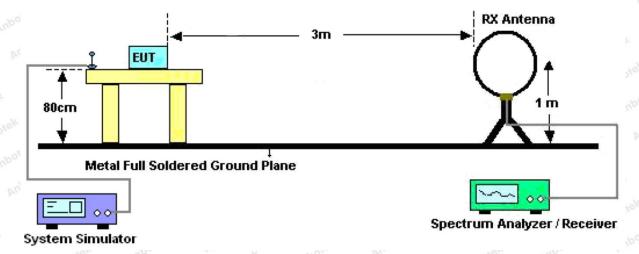


Figure 1. Below 30MHz



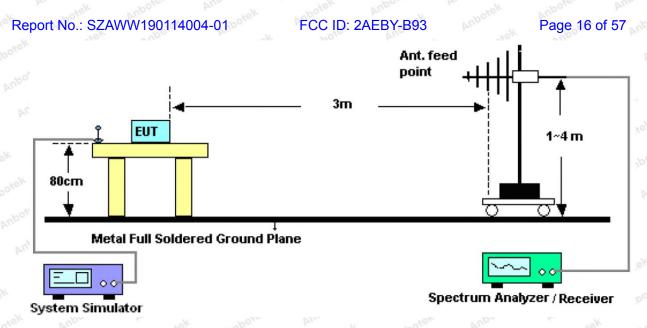


Figure 2. 30MHz to 1GHz

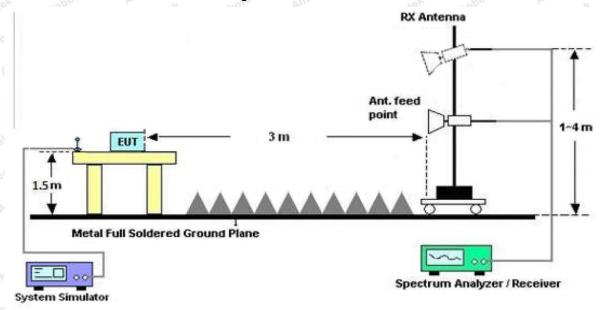


Figure 3. Above 1 GHz

## 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.

#### Shenzhen Anbotek Compliance Laboratory Limited





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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 the GFSK,  $\pi$ /4QPSK, 8DPSK modulation, and found the GFSK modulation Middle channel(Keeping Tx+Charging) which is the worst case, only the worst case is recorded in the report

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





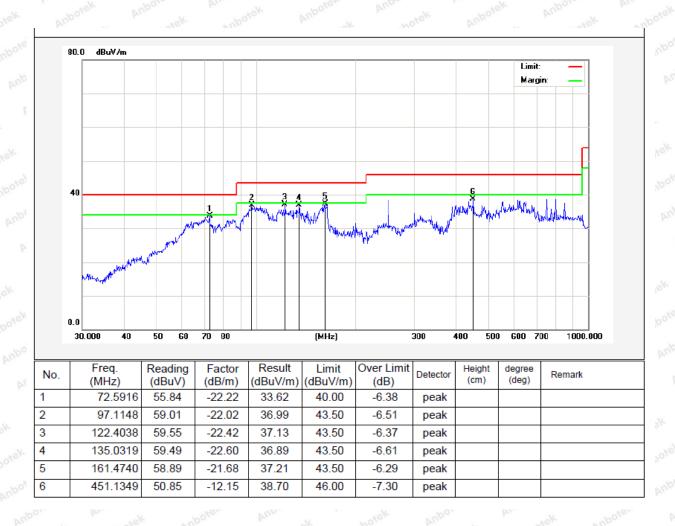
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Test Results (30~1000MHz)

Job No.: SZAWW190114004-01 Temp.(℃)/Hum.(%RH): 21.5℃/54%RH

Standard: FCC PART 15C Power Source: AC 120V, 60Hz for adapter

Test Mode: Mode 2 Polarization: Horizontal





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Test Results (30~1000MHz)

Job No.: SZAWW190114004-01 Temp.(℃)/Hum.(%RH): 21.5℃/54%RH

Standard: FCC PART 15C Power Source: AC 120V, 60Hz for adapter

Test Mode: Mode 2 Polarization: Vertical





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## Test Results (1GHz-25GHz)

Test Mode:	CH00			Test	channel: Low	vest		
			ſ	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.
4804.00	38.51	34.04	6.58	34.09	45.04	74.00	-28.96	V
7206.00	32.63	37.11	7.73	34.50	42.97	74.00	-31.03	V
9608.00	32.18	39.31	9.23	34.79	45.93	74.00	-28.07	o <sup>ten</sup> V
12010.00	*	Anbotek	Anbo	ek no	otek Anbi	74.00	hotek s	Nodn.
14412.00	Am*	Anbot	ek Anbo	rek bu	abotek p	74.00	worek.	NOV.
4804.00	43.05	34.04	6.58	34.09	49.58	74.00	-24.42	Hall
7206.00	34.49	37.11	7.73	34.50	44.83	74.00	-29.17	Н
9608.00	31.72	39.31	9.23	34.79	45.47	74.00	-28.53	H Yar
12010.00	Anbore*	Anberratek	Aupotek	Anbore	rek apo	74.00	V And	Horow
14412.00	Anb area	VUP-	k anbott	anb.	rak bu	74.00	Dojer b	H
			A۱	verage Valu	е			
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.
4804.00	27.10	34.04	6.58	34.09	33.63	54.00	-20.37	V
7206.00	21.18	37.11	7.73	34.50	31.52	54.00	-22.48	bot V
9608.00	20.18	39.31	9.23	34.79	33.93	54.00	-20.07	AnbVe
12010.00	Art.	day s	otek Anb	or b	abolek	54.00	rup - otek	Vo
14412.00	* AM	otek o	Apotek t	'upor	photok	54.00	Anb	٧
4804.00	31.46	34.04	6.58	34.09	37.99	54.00	-16.01	ek H
7206.00	23.43	37.11	7.73	34.50	33.77	54.00	-20.23	H <sub>9to</sub>
9608.00	20.01	39.31	9.23	34.79	33.76	54.00	-20.24	H
12010.00	An*ores	Anbo	lek mo	Hek An	20. V.	54.00	hbote	H
14412.00	* Anbore	AUD	*6K	botek	Anbo	54.00	Anbore.	Vup.

Code: AB-RF-05-a

400-003-0500 www.anbotek.com



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## Test Results (1GHz-25GHz)

Test Mode:	CH39			Test	channel: Mid	dle		
			ſ	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.
4882.00	37.23	34.38	6.69	34.09	44.21	74.00	-29.79	V
7323.00	31.78	37.22	7.78	34.53	42.25	74.00	-31.75	V
9764.00	31.43	39.46	9.35	34.80	45.44	74.00	-28.56	o <sup>tell</sup> V
12205.00	Ann * totek	Anbotek	Anbo.	ek no	otek Aup.	74.00	potek p	Vodn
14646.00	Am*	Anbor	ek Anbo	*ek	abotek p	74.00	wotek.	NO VO
4882.00	41.50	34.38	6.69	34.09	48.48	74.00	-25.52	Hall
7323.00	33.53	37.22	7.78	34.53	44.00	74.00	-30.00	Н
9764.00	30.84	39.46	9.35	34.80	44.85	74.00	-29.15	H Yer
12205.00	Anbore*	Aupr ofek	Anbotek	Anbore	rok opc	74.00	PLUP.	- NH
14646.00	Anb area	Vup.	k anbote	Anb.	rok bu	74.00	Dojer b	H
			A۱	/erage Valu	е			
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.
4882.00	26.07	34.38	6.69	34.09	33.05	54.00	-20.95	V
7323.00	20.49	37.22	7.78	34.53	30.96	54.00	-23.04	Votod
9764.00	19.57	39.46	9.35	34.80	33.58	54.00	-20.42	anbVe
12205.00	And And	dno s	otek Aup	o, b	abotek	54.00	rup, otek	V
14646.00	* Ann	otek .	Apotek P	'uposo	Projek.	54.00	Aupo	V
4882.00	30.30	34.38	6.69	34.09	37.28	54.00	-16.72	ek H
7323.00	22.65	37.22	7.78	34.53	33.12	54.00	-20.88	Heato
9764.00	19.29	39.46	9.35	34.80	33.30	54.00	-20.70	H
12205.00	Antorek	Aupo.	ek anbi	Hek An	oote bu	54.00	hbotek	H
14646.00	* Anbore	Aup	zok h.	botek	Anbore	54.00	anbotek	AUP

Code: AB-RF-05-a

400-003-0500 www.anbotek.com



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#### Test Results (1GHz-25GHz)

Test Nesults	(1GHZ-25G	12) ek	Anbo	h.	abore	burn	1000	No.
Test Mode:	CH78			Test	channel: Hig	hest		
			F	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.
4960.00	36.27	34.72	6.79	34.09	43.69	74.00	-30.31	V
7440.00	31.14	37.34	7.82	34.57	41.73	74.00	-32.27	V
9920.00	30.86	39.62	9.46	34.81	45.13	74.00	-28.87	V
12400.00	Ann *tek	Anbotek	Aupor	ak ~o	otek Anto	74.00	otek p	nbolok
14880.00	Aup * Otek	Anbor	ek Anbo	, oX	abotek F	74.00	-otek	AnVite
4960.00	40.34	34.72	6.79	34.09	47.76	74.00	-26.24	Hab
7440.00	32.81	37.34	7.82	34.57	43.40	74.00	-30.60	Н
9920.00	30.18	39.62	9.46	34.81	44.45	74.00	-29.55	Kelt H
12400.00	Anbote*	Anbu	Anbotek	Anbore	rak ap	74.00	Van Vug	Н
14880.00	Anb Pres	Augo	k anbote	k Anb	Lak Pur	74.00	poter P	Hel
			Av	erage Valu	е	I. C.		
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.
4960.00	25.33	34.72	6.79	34.09	32.75	54.00	-21.25	V
7440.00	19.98	37.34	7.82	34.57	30.57	54.00	-23.43	potek
9920.00	19.12	39.62	9.46	34.81	33.39	54.00	-20.61	anbVek
12400.00	And Andrew	k anb	otek Aup	ok b	spotek	54.00	Vup. Olek	Voo
14880.00	*Anb	otek v	Motek p	nboro	Projek	54.00	Ambo	V
4960.00	29.45	34.72	6.79	34.09	36.87	54.00	-17.13	≱ H
7440.00	22.09	37.34	7.82	34.57	32.68	54.00	-21.32	Hele
9920.00	18.77	39.62	9.46	34.81	33.04	54.00	-20.96	HK
12400.00	An*ofek	Aupo	ek noo	sek An	oor bu	54.00	aporek	H of
14880.00	*nbote	Pupe	zek k	botek	Anbole	54.00	Anbotek	Anbo

#### Remark:

- 1. During the test, pre-scan the GFSK,  $\pi$ /4QPSK, 8DPSK modulation, and found the GFSK modulation is worse case, the report only record this mode.
- 2. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 3. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

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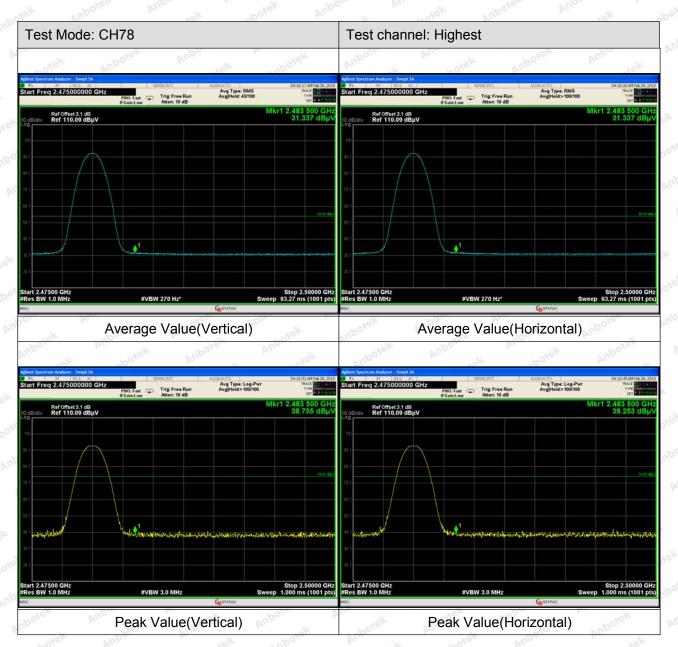
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#### Radiated Band Edge:





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#### Remark:

- 1. During the test, pre-scan the GFSK,  $\pi/4$ QPSK, 8DPSK modulation, and found the GFSK modulation is worse case, the report only record this mode.
- 2. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor



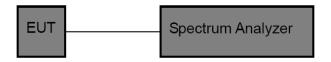
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## 5. Maximum Peak Output Power Test

#### 5.1. Test Standard and Limit

Test Standard	FCC Part15 C Sec	ction 15.247 (b	)(3)	Anbotek	Anbo	anborek.
Test Limit	125mW	Anbore	Arrabotek	Anboten	Anberratek	hoden

#### 5.2. Test Setup



#### 5.3. Test Procedure

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above,
- 2. Spectrum Setting:

RBW > the 20 dB bandwidth of the emission being measured

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

 $VBW \ge RBW$ 

Sweep = auto

Detector function = peak

Trace = max hold

#### 5.4. Test Data

Test Item	:	Max. peak output power	Test Mode	:	CH Low ~ CH High
Test Voltage	:	AC 120V, 60Hz for adapter	Temperature	:	24℃

Test Result : PASS Humidity : 55%RH

Channel Frequency (MHz)	Peak Power output (dBm)	Limit (dBm)	Results	Modulation
2402	-2.124	20.96	PASS	BDR
2441	-1.709	20.96	PASS	BDR And
2480	-0.779	20.96	PASS	BDR
2402	-2.956	20.96	PASS	EDR
2441	-2.740	20.96	PASS	EDR OF
2480	-1.668	20.96	PASS	EDR

Remark: The EDR was tested on ( $\pi$ /4QPSK, 8DPSK) modes, only the worst data of (8DPSK) is attached in the following pages.

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Test Mode: BDR---Low

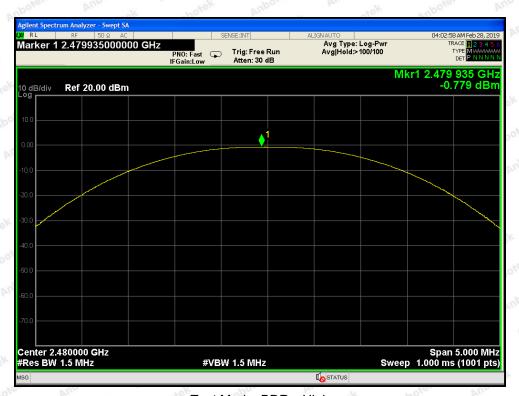


Test Mode: BDR---Middle

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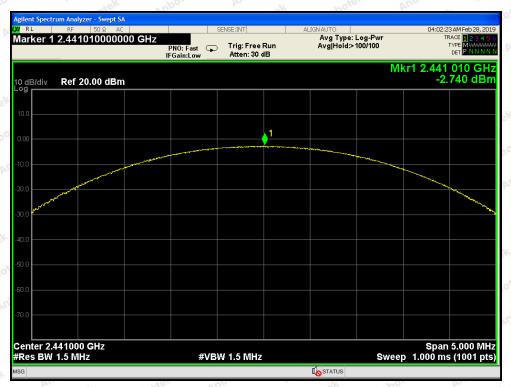
Test Mode: BDR---High



Test Mode: EDR---Low



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Test Mode: EDR---Middle



Test Mode: EDR---High



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## 6. 20DB Occupy Bandwidth Test

#### 6.1. Test Standard

		0,00	OUD.	*ek
Test Standard	FCC Part15 C Section 15.247 (a)(1)			
	All			

#### 6.2. Test Setup



#### 6.3. Test Procedure

Using the following spectrum analyzer settings:

- 1. Span= approximately 2 to 3 times the 20dB bandwidth, centered on a hopping channel.
- 2. Set the RBW = 30 kHz.
- 3. Set the VBW = 100 kHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

#### 6.4. Test Data

Test Item : 20dB BW Test Mode : CH Low ~ CH High

Test Voltage : AC 120V, 60Hz for adapter Temperature :  $24^{\circ}$ C Test Result : PASS Humidity :  $55^{\circ}$ RH

Channel	Frequency(MHz)	20dB Down BW(kHz)	Modulation Mode
Low	2402	928.4	BDR
Middle	2441	935.6	BDR
High	2480	937.6	BDR
Low	2402	1260	EDR EDR
Middle	2441	1266	EDR AND OTHER
High	2480	1267	EDR Model

Remark: The EDR was tested on  $(\pi/4QPSK, 8DPSK)$  modes, only the worst data of (8DPSK) is attached in the following pages.

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Test Mode: BDR---Low



Test Mode: BDR---Middle

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Test Mode: BDR---High

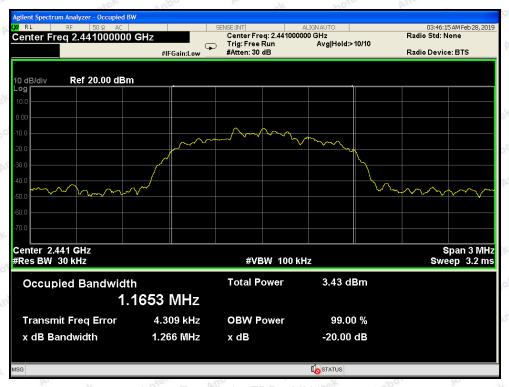


Test Mode: EDR---Low

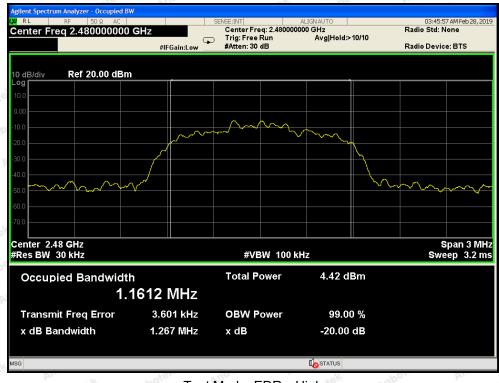
#### **Shenzhen Anbotek Compliance Laboratory Limited**



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Test Mode: EDR---Middle



Test Mode: EDR---High



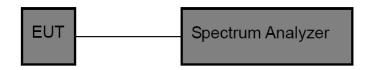
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## 7. Carrier Frequency Separation Test

#### 7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)	Andwork	Anborek
Test Limit	>25KHz or >two-thirds of the 20 dB bandwidth	k hotek	Anboi

#### 7.2. Test Setup



#### 7.3. Test Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer settings:

- 1. Span= Wide enough to capture the peaks of two adjacent channels
- 2. Set the RBW = 30 kHz.
- 3. Set the VBW = 100 kHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

#### 7.4. Test Data

Test Item	:	Frequency Separation	Test Mode	:	CH Low ~ CH High
Test Voltage	:	AC 120V, 60Hz for adapter	Temperature	:	<b>24</b> ℃
Test Result	:	PASS	Humidity	:	55%RH

Channol	Frequency	Separation Read	Limit	Modulation
Channel	(MHz)	Value (kHz)	(kHz)	Mode
Low	2402	1000	928.4	BDR
Middle	2441	1000	935.6	BDR
High	2480	1000	937.6	BDR
Low	2402	1000	840.0	EDR
Middle	2441	1000	844.0	EDR
High	2480	1000	844.7	orek EDR

Remark: 1. The EDR was tested on  $(\pi/4QPSK, 8DPSK)$  modes, only the worst data of (8DPSK) is attached in the following pages.

2. The limit of mode (EDR) is 2/3 of 20dB BW.





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Test Mode: BDR---Low



Test Mode: BDR---Middle

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Test Mode: BDR---High



Test Mode: EDR---Low



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Test Mode: EDR---Middle



Test Mode: EDR---High



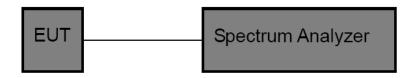
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## 8. Number of Hopping Channel Test

## 8.1. Test Standard and Limit

Test Standard	FCC Part15 C Se	ection 15.247 (a)	(1)	Anboten	Anbanotek	Anborek
Test Limit	>15 channels	Aupo.	A. abotek	Anbote	Anu hotek	Anboile

## 8.2. Test Setup



## 8.3. Test Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer setting:

- 1. Span= the frequency band of operation
- 2. Set the RBW = 100kHz.
- 3. Set the VBW = 300kHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

#### 8.4. Test Data

Test Item	:	Number of Hopping Frequency	Test Mode	:	CH Low ~ CH High
Test Voltage	:	AC 120V, 60Hz for adapter	Temperature	:	<b>24</b> ℃
Test Result		PASS	Humidity		55%RH

Hopping Channel Frequency Range	Quantity of Hopping Channel	Quantity of Hopping Channel
2402-2480MHz	79	>15
Remark: The EDR was tested on (1	T/4QPSK, 8DPSK) modes, only the wor	st data of (8DPSK) is attached in

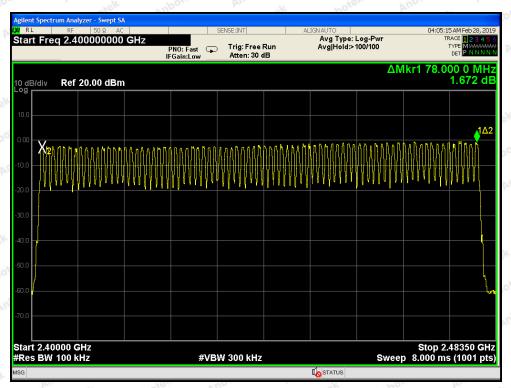
Remark: The EDR was tested on ( $\pi$ /4QPSK, 8DPSK) modes, only the worst data of (8DPSK) is attached in the following pages.

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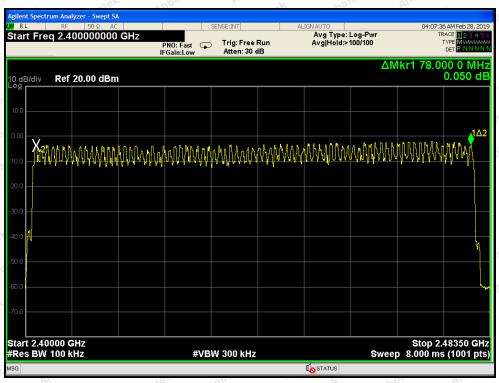




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**BDR Mode** 



**EDR Mode** 



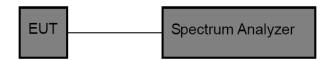
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## 9. Dwell Time Test

## 9.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)	Anboten	Anthorek	Anborek
Test Limit	0.4 sec	Anbote	Ann	Anboy

## 9.2. Test Setup



#### 9.3. Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span= zero span, centered on a hopping channel
- 2. Set the RBW = 1 MHz.
- 3. Set the VBW = 1 MHz.
- 4. Sweep time = as necessary to capture the entire dwell time per hopping channel.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

#### 9.4. Test Data

Test Item : Time of Occupancy Test Mode : CH Low ~ CH High

Test Voltage : AC 120V, 60Hz for adapter Temperature :  $24^{\circ}$ C Test Result : PASS Humidity : 55%RH

Package Type	Pulse width (ms)	Time slot length(ms)	Dwell time (ms)	Limit (s)	Modulation
DH1	0.376	time slot length *1600/2 /79 * 31.6	120.32	0.4	BDR
DH3	1.635	time slot length *1600/4 /79 * 31.6	261.60	0.4	BDR
DH5	2.880	time slot length *1600/6 /79 * 31.6	307.20	0.4	BDR
3DH1	0.384	time slot length *1600/2 /79 * 31.6	122.88	0.4	EDR
3DH3	1.630	time slot length *1600/4 /79 * 31.6	260.80	0.4	EDR
3DH5	2.888	time slot length *1600/6 /79 * 31.6	308.05	0.4	EDR

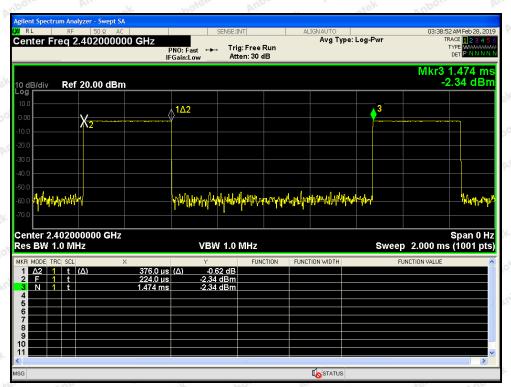
Remark: The EDR was tested on  $(\pi/4QPSK, 8DPSK)$  modes, only the worst data of (8DPSK) is attached in the following pages.

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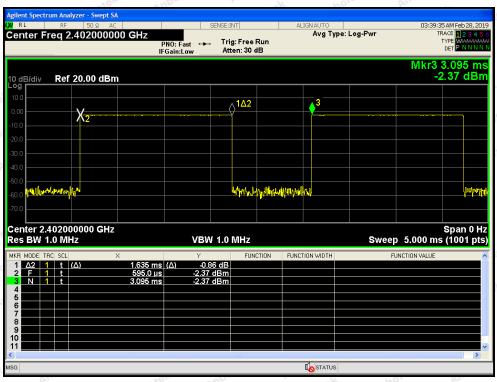




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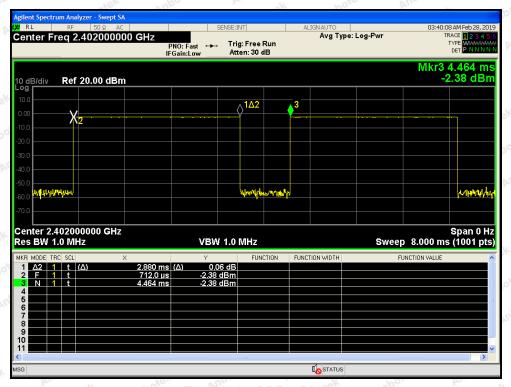
Test Mode: BDR---DH1



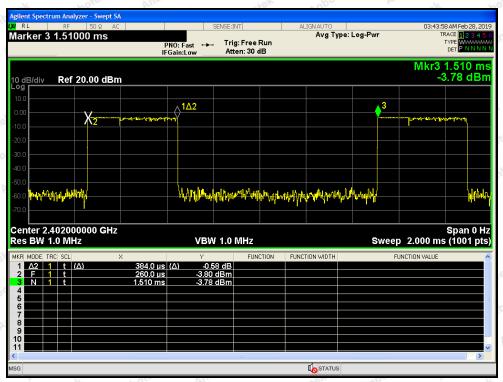
Test Mode: BDR---DH3



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Test Mode: BDR---DH5

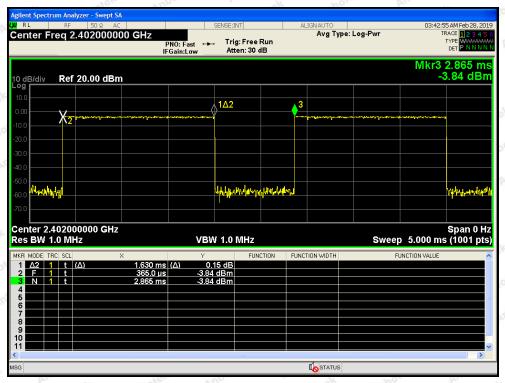


Test Mode: EDR---3DH1

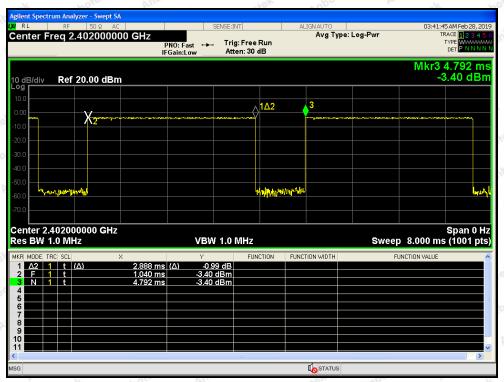
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Test Mode: EDR---3DH3



Test Mode: EDR---3DH5

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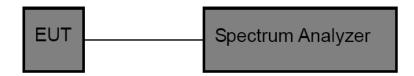
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## 10. 100kHz Bandwidth of Frequency Band Edge Requirement

## 10.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
Test Limit	in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

## 10.2. Test Setup



## 10.3. Test Procedure

The EUT must have its hopping/Non-hopping function enabled. Using the following spectrum analyzer setting:

- 1. Set the RBW = 100kHz.
- 2. Set the VBW = 300kHz.
- 3. Sweep time = auto couple.
- 4. Detector function = peak.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.

#### 10.4. Test Data

Test Item : Band edge : CH Low ~ CH High

Test Voltage : AC 120V, 60Hz for adapter Temperature :  $24^{\circ}$ C Test Result : PASS Humidity : 55%RH

Remark: The EDR was tested on ( $\pi$ /4QPSK, 8DPSK) modes, only the worst data of ( $\pi$ /4DQPSK) is attached in the following pages.

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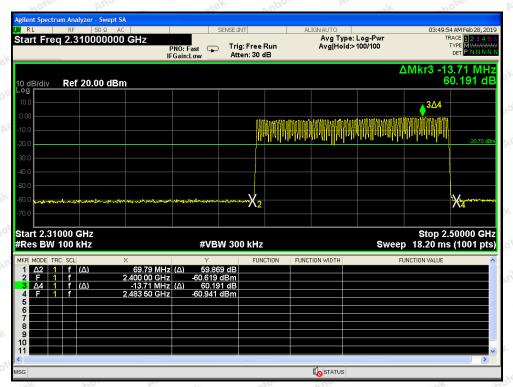




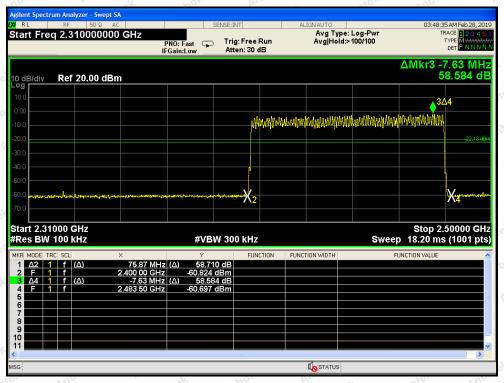
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## **For Hopping Mode**



BDR mode



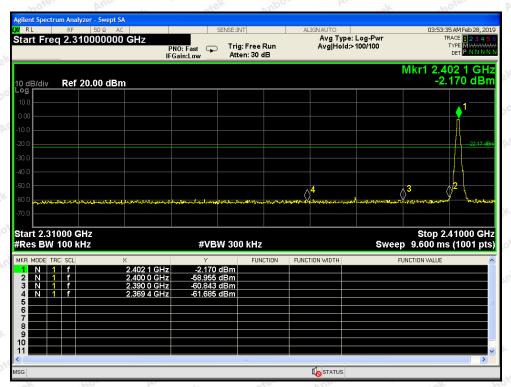
EDR mode



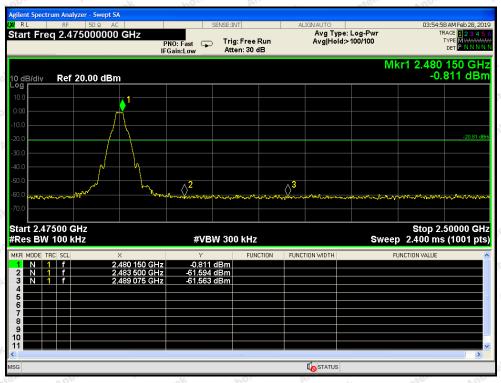
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## For Non-Hopping Mode



BDR mode -- Lowest



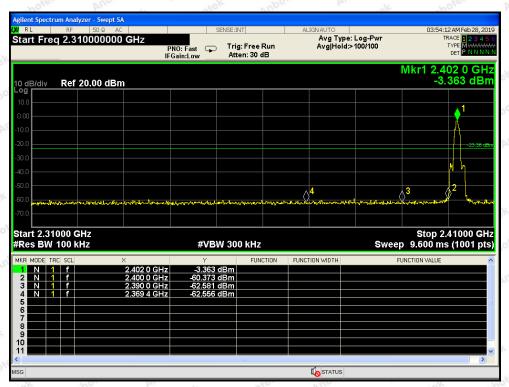
BDR mode -- Highest



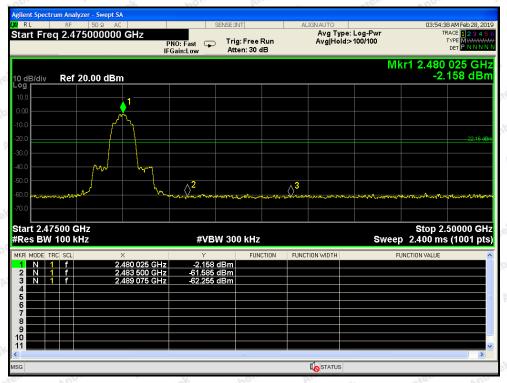
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## For Non-Hopping Mode



EDR mode -- Lowest



EDR mode -- Highest

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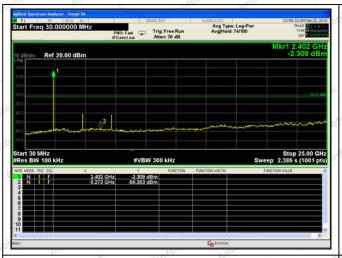


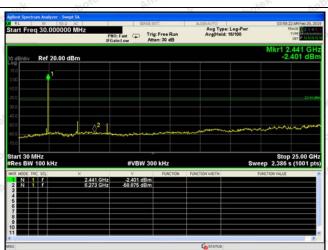


FCC ID: 2AEBY-B93

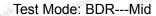
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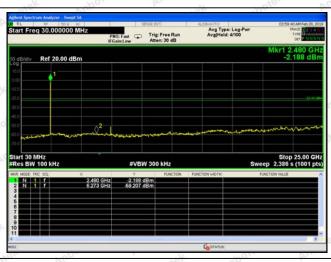
Conducted Emission Method

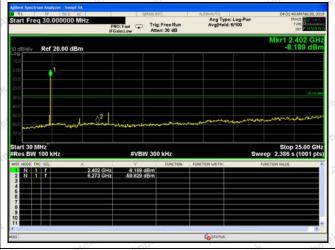




Test Mode: BDR---Low

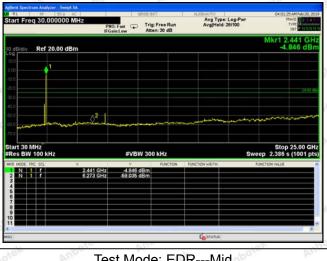


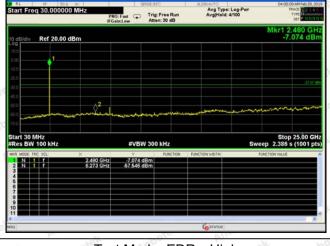




Test Mode: BDR---High

Test Mode: EDR---Low





Test Mode: EDR---Mid

Test Mode: EDR---High



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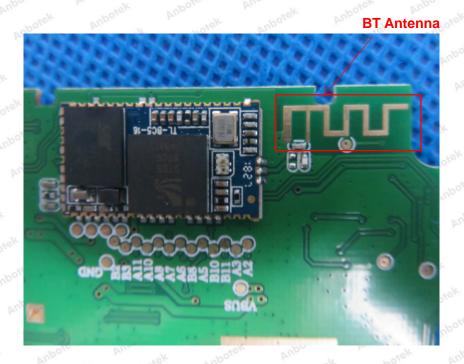
## 11. Antenna Requirement

## 11.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
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. 2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna

## 11.2. Antenna Connected Construction

The antenna is PCB Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.



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## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Photo of Conducted Emission Test



Photo of Radiation Emission Test





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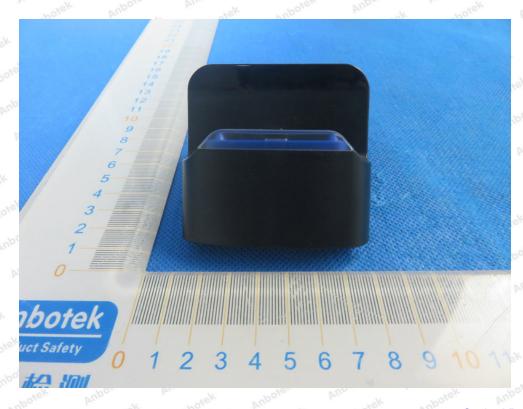




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# **APPENDIX II -- EXTERNAL PHOTOGRAPH**



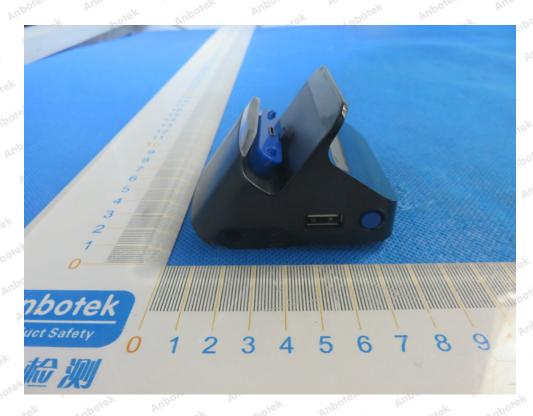


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Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: servi Email: service@anbotek.com



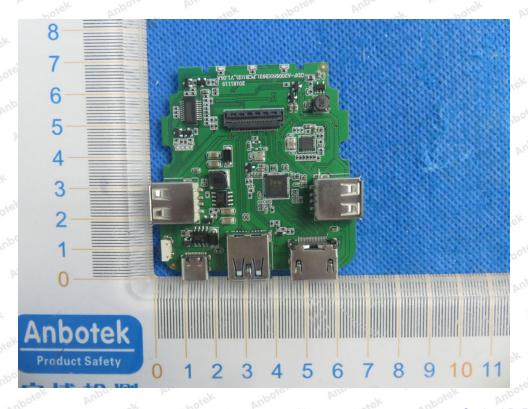
Hotline 400-003-0500 www.anbotek.com



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# **APPENDIX III -- INTERNAL PHOTOGRAPH**

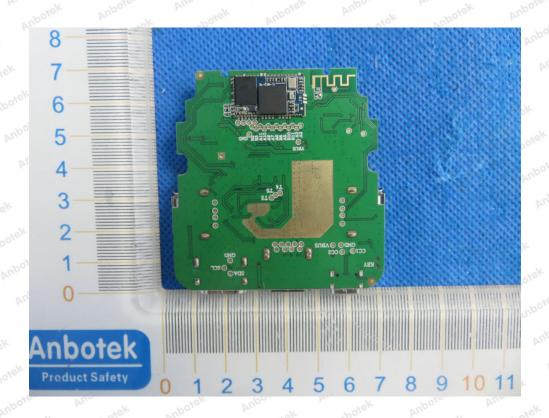




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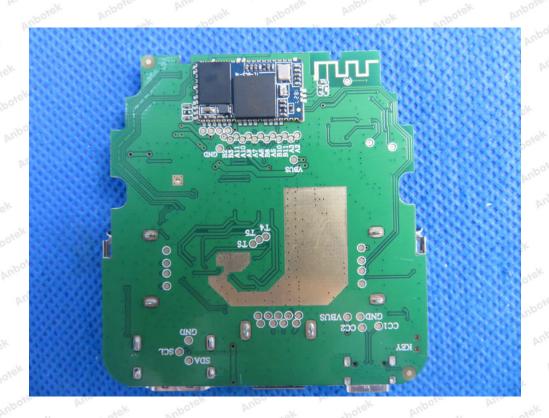
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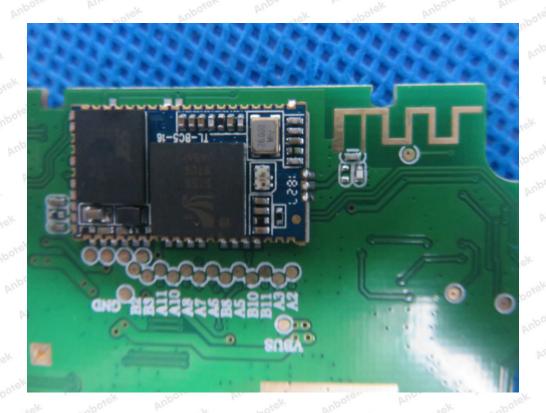






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