

Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 1 of 56

# FCC TEST REPORT

: Dongguan Koppo Electronics Co.,Ltd. Client Name

No.2 3 Road, Buxinji Industrial Area, Guanjingtou Village,

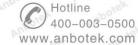
Fenggang Town, Dongguan City, Guangdong Province, Address

China

**Product Name** Bluetooth Headset

Nov. 06, 2019 Date

## **Shenzhen Anbotek Compliance Laboratory Limited**





Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS

## **Contents**

1. General information		5
1.1. Client Information	Par Walter	5
1.2. Description of Device (EUT)	Yun Yok	5
1.3 Auxiliary Equipment Used During Test		atek anbore Al
1.4. Description of Test Modes	notek vupose	6
1.4. Description of Test Modes	in Make Tables	
1.6. Description Of Test Setup	P11.	8
1.7 Test Equipment List		k spoter And o
Neasurement Uncertainty  1.9. Description of Test Facility	anboter Anb	10
1.9. Description of Test Facility		10
2. Summary of Test Results		11
3. Conducted Emission Test	All All	12
3.1. Test Standard and Limit	Anbo	
3.2. Test Setup	bupon	12
3.3. Test Procedure	Au	12
3.4. Test Data      4. Radiation Spurious Emission and Band Edge		12
4. Radiation Spurious Emission and Band Edge	ek Albora	15
4.1. Test Standard and Limit	Land American	
4.2. Test Setup		15
4.3. Test Procedure		16
4.4. Test Data	All All	17
5. Maximum Peak Output Power Test	4910	25
5.1. Test Standard and Limit		25
5.2. Test Setup		25
5.3. Test Procedure	oter And	25
5.4. Test Data		25
6. 20DB Occupy Bandwidth Test		29
6.1. Test Standard	- Alle	29
6.2. Test Setup		29
6.3. Test Procedure	K Wholes William	29
6.4. Test Data		29
7. Carrier Frequency Separation Test		33
7.1. Test Standard and Limit		33
7.2. Test Setup		33
6.4. Test Data		33
7.4. Test Data	A Pro-	33
7.4. Test Data  8. Number of Hopping Channel Test  8.1. Test Standard and Limit	Ans	37
8.1. Test Standard and Limit	yek hupo, bir	37
nzhen Anhotek Compliance Laboratory Limited		Code:AB-RF-05-a



Report No.: SZAWW191016002-01	FCC ID: 2AG68	-BT569MS2PLUS	Page	3 of 56
8.2. Test Setup	**************************************			37
8.3. Test Procedure	boten	V <sub>UD</sub>	otek pup	37
8.3. Test Procedure	- Joseph	Anbore	Pu.	37
9. Dwell Time Test  9.1. Test Standard and Limit	Nupose bis	rek mooter	Anba	39
9.1. Test Standard and Limit	inpotein Aug		Vupo,	39
9.2. Test Setup		/p-	N 1000	39
9.3. Test Procedure		bote. Anv	lotoly.	39
9.4. Test Data	, bur	Mootek Anl	, p	39
10. 100kHz Bandwidth of Frequency Ban	d Edge Requireme	ent	rupose, Yur	43
10.1. Test Standard and Limit	nbose,	Anv	hotek A	43
10.2. Test Setup	.00	ek Aupo	w. work	43
10.3. Test Procedure				43
10.4. Test Data	Anbore An	of Odyn	Anbo	43
11. Antenna Requirement				48
11.1. Test Standard and Requiremen	ıt	Anbore An	000 Yay	48
11.2. Antenna Connected Construction	on	oboten l	W. College	48
APPENDIX I TEST SETUP PHOTOGR	RAPH	Jan	Anbore Ar	49
APPENDIX II EXTERNAL PHOTOGRA	\PH	bu.	opoter	51
APPENDIY III INTERNAL PHOTOGRA	ADH LON			Aupore



Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 4 of 56

## **TEST REPORT**

Applicant : Dongguan Koppo Electronics Co.,Ltd.

Manufacturer : Dongguan Koppo Electronics Co.,Ltd.

Product Name : Bluetooth Headset Model No. : BT-569MS2 PLUS

Trade Mark : N.A.

Rating(s) : Input: DC 5V, 200mA (with DC 3.7V, 60 mAh Battery inside)

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 Test	Oct. 16, 2019
Date of Test	Oct. 16~Nov. 04, 2019
AIIDOICK	shotek Anbotek Anbotek Anbotek Anbotek
Product Safety	Doly mo
Prepared by *Approved*	Anborek Anbort Anborek Arbotek Ar
unbotes And Anbo	(Engineer / Dolly Mo)
	ntek Anbotek Anbote An Anbotek Anbotek
	Bibs Thang
Reviewer	notek Anbotek Anbotek Anbotek Anbot
stek Anbortek Anborek Anbore	(Supervisor / Bibo Zhang)
	Anbotek Anbotek Anbotek
	Sally zhang
Approved & Authorized Signer	tek Amborek Aborek Amborek
Anbote And tek abotek A	(Manager / Sally Zhang)

**Shenzhen Anbotek Compliance Laboratory Limited** 





## 1. General Information

## 1.1. Client Information

Applicant		Dongguan Koppo Electronics Co.,Ltd.
Address		No.2 3 Road, Buxinji Industrial Area, Guanjingtou Village, Fenggang Town, Dongguan City, Guangdong Province, China
Manufacturer	:	Dongguan Koppo Electronics Co.,Ltd.
Address		No.2 Road 3, Buxinji Industrial Area, Guanjingtou Village, Fenggang Town, Dongguan City, Guangdong Province, China
Factory	:	Dongguan Koppo Electronics Co.,Ltd.
Address	:	No.2 Road 3, Buxinji Industrial Area, Guanjingtou Village, Fenggang Town, Dongguan City, Guangdong Province, China

## 1.2. Description of Device (EUT)

Product Name	:	Bluetooth Headset	Anbotest Anbotek Anbotek Anbotek					
Model No.	:	BT-569MS2 PLUS	Anborek Anborek Anbore Anbore					
Trade Mark	:	N.A. Anborek Anbore	tek Anbotek Anbotek Anbo					
Test Power Supply	:	AC 120V, 60Hz for adapter/ D	OC 3.7V Battery inside					
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(	1-2-1(Normal Sample), 1-2-2(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					
		Antenna Type:	Ceramic Antenna					
		Antenna Gain(Peak):	-1.1 dBi					

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications



Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 6 of 56

### 1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: ZTE
		M/N: STC-A2050I1000USBA-C
		S/N: 201202102100876
		Input: 100-240V~ 50/60Hz, 0.3A
1-		Output: DC 5V, 1000mA

#### 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:

Mode 1	Mposek Wiposek Wipos	CH00	Anbotek	Anbe dek Anbotek
Mode 2	GFSK	CH39	Anbore	Anbotek Anbotek
Mode 3	And hotek Anbotek	CH78	tek Ant	oter And hotek Anbotek
Mode 4	Lak abotek Anbotek	CH00	botek	nboth Anno
Mode 5	π/4-DQPSK	CH39	Anbotek	TX+ Charging Mode/TX Only
Mode 6	Anbor Anbotek Anbor	CH78	Anbotek	Anbox Olly Anbotek
Mode 7	Anborek Anborek An	CH00	Anbore	Anbountek Anbotek
Mode 8	8-DPSK	CH39	ek Anb	Hen Andrek Anbotek
Mode 9	ak botek Anbotek	CH78	potek p	abote. And botek Anbot

#### 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 www.anbotek.com



Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 7 of 56

### 1.5. List of channels

Channel	Freq. (MHz)								
00	2402	17	2419	34	2436	51	2453	68	2470
01	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		700
16	2418	33	2435	50	2452	67	2469		

#### 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.

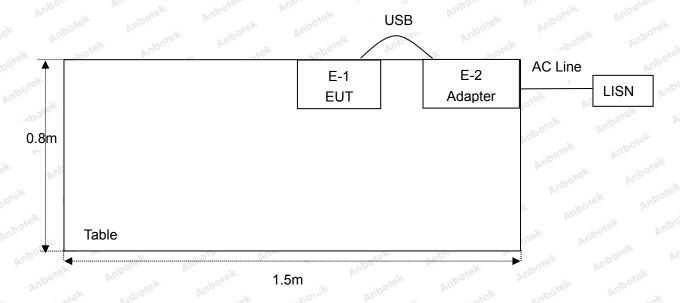


FCC ID: 2AG68-BT569MS2PLUS

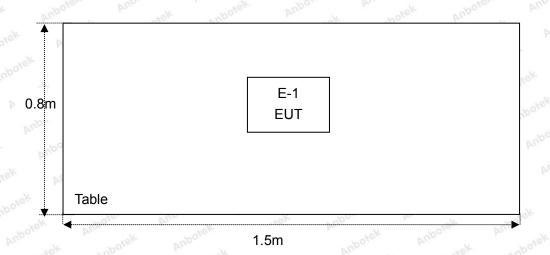
Page 8 of 56

## 1.6. Description Of Test Setup

CE



RE



**Shenzhen Anbotek Compliance Laboratory Limited** 



Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 9 of 5

## 1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
1.Ant	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 04, 2019	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 04, 2019	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 04, 2019	1 Year
4.nb	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year
5.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 04, 2019	1 Year
6.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 01, 2019	1 Year
Anbore 7.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 01, 2019	1 Year
8.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 01, 2019	1 Year
9.	Horn Antenna	A-INFO	LB-180400-K	J211060628	Nov. 01, 2019	1 Year
10.	Pre-amplifier	SONOMA	310N	186860	Nov. 04, 2019	1 Year
nboten 11.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
12.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 04, 2019	1 Year
13.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 04, 2019	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 04, 2019	1 Year
15.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year
16,	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 04, 2019	1 Year
17.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 04, 2019	1 Year
18.	DC Power Supply	LW	TPR-6420D	374470	Nov. 04, 2019	1 Year
19.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Nov. 04, 2019	1 Year

Email: service@anbotek.com

Tel:(86) 755-26066440

Code:AB-RF-05-a

Hotline 400-003-0500 www.anbotek.com

Fax: (86) 755-26014772



Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 10 of 56

#### 1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	
		Ur = 3.8 dB (Vertical)	tek
		potek Anbor An Abotek Anbotek Anbotek An	abot
Conduction Uncertainty	:	Uc = 3.4 dB	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 27, 2019.

#### ISED-Registration No.: 8058A

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, 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

Code:AB-RF-05-a

Hotline 400-003-0500 www.anbotek.com



Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS

## 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		



Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 12 of 56

### 3. Conducted Emission Test

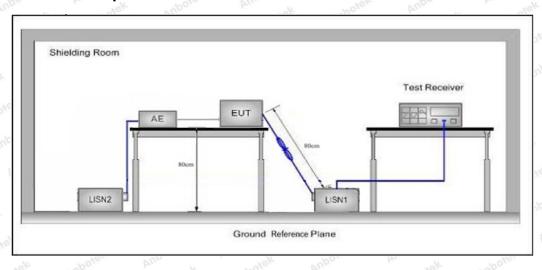
#### 3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.20	7 tek nbotek Ant					
	Francis	Maximum RF Line Voltage (dBuV)					
	Frequency	Quasi-peak Level	Average Level				
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *				
	500kHz~5MHz	56	46				
	5MHz~30MHz	60	50				

Remark: (1) \*Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequency.

#### 3.2. Test Setup



#### 3.3. Test Procedure

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

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

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

#### 3.4. Test Data

During the test, pre-scan the GFSK,  $\pi/4$ QPSK, 8DPSK modulation, and found the GFSK modulation Low channel(TX+Charging Mode) which is the worst case, only the worst case is recorded in the report. Please to see the following pages.

Shenzhen Anbotek Compliance Laboratory Limited





Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 13 of 56

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

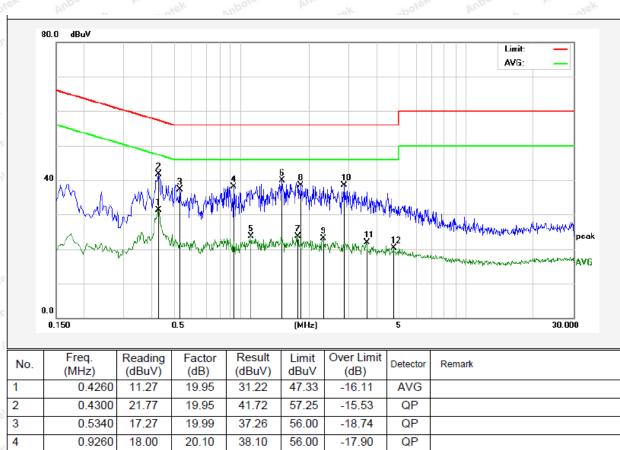
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 24.9°C Hum.: 51%



	No.	(MHz)	(dBuV)	(dB)	(dBuV)	dBuV	(dB)	Detector	Remark
4	1	0.4260	11.27	19.95	31.22	47.33	-16.11	AVG	
3	2	0.4300	21.77	19.95	41.72	57.25	-15.53	QP	
(	3	0.5340	17.27	19.99	37.26	56.00	-18.74	QP	
3	4	0.9260	18.00	20.10	38.10	56.00	-17.90	QP	
4	5	1.1100	3.55	20.12	23.67	46.00	-22.33	AVG	
	6	1.5260	19.82	20.13	39.95	56.00	-16.05	QP	
7	7	1.7820	3.58	20.14	23.72	46.00	-22.28	AVG	
8	В	1.8420	18.40	20.14	38.54	56.00	-17.46	QP	
(	9	2.3100	3.01	20.15	23.16	46.00	-22.84	AVG	
ě.	10	2.8780	18.30	20.16	38.46	56.00	-17.54	QP	
•	11	3.5860	1.73	20.17	21.90	46.00	-24.10	AVG	
,	12	4.7500	0.12	20.20	20.32	46.00	-25.68	AVG	



Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 14 of 56

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

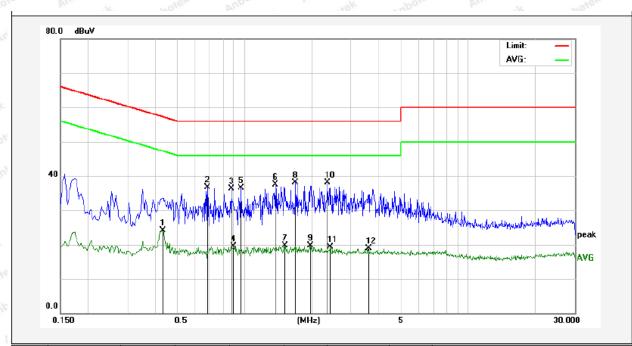
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 24.9℃ Hum.: 51%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.4300	4.24	19.95	24.19	47.25	-23.06	AVG	
2	0.6860	16.61	20.04	36.65	56.00	-19.35	QP	
3	0.8740	16.22	20.09	36.31	56.00	-19.69	QP	
4	0.8980	-0.58	20.09	19.51	46.00	-26.49	AVG	
5	0.9660	16.30	20.11	36.41	56.00	-19.59	QP	
6	1.3779	17.46	20.13	37.59	56.00	-18.41	QP	
7	1.5140	-0.44	20.13	19.69	46.00	-26.31	AVG	
8	1.6940	18.00	20.13	38.13	56.00	-17.87	QP	
9	1.9660	-0.44	20.14	19.70	46.00	-26.30	AVG	
10	2.3500	17.97	20.15	38.12	56.00	-17.88	QP	
11	2.4340	-0.86	20.15	19.29	46.00	-26.71	AVG	
12	3.5700	-1.36	20.17	18.81	46.00	-27.19	AVG	



Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 15 of 56

## 4. Radiation Spurious Emission and Band Edge

#### 4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15	5.209 and 15.205	potek Anbor	-k PU. PO.	iek Anborek
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	Aupo.	A obotek	300
	0.490MHz-1.705MHz	24000/F(kHz)	anbo. se	k apolek	30
	1.705MHz-30MHz	30	Josek Tupo,	otek - nbot	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	otek 3 Anbo
	88MHz~216MHz	150	43.5	Quasi-peak	Anbotek 3 An
	216MHz~960MHz	200	46.0	Quasi-peak	Ambo*3k
	960MHz~1000MHz	500	54.0	Quasi-peak	Arn'3 reck
	Ab 4000MH-	500	54.0	Average	4 3,botek
	Above 1000MHz	Anbo. tek	74.0	Peak	otek 3 Anboth

#### 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

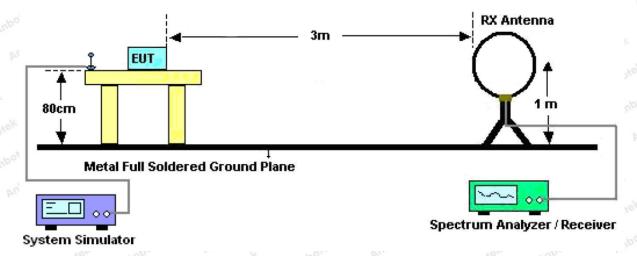


Figure 1. Below 30MHz



Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 16 of 56

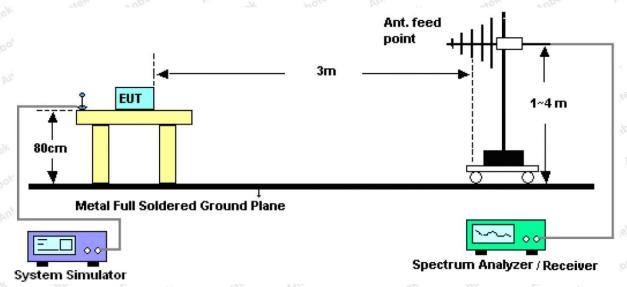


Figure 2. 30MHz to 1GHz

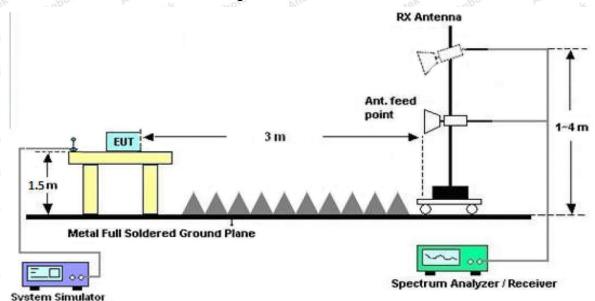


Figure 3. Above 1 GHz

#### 4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is  $0.8 \mathrm{m}$  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:

Shenzhen Anbotek Compliance Laboratory Limited





Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 17 of 56

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,  $\pi/4$ QPSK, 8DPSK modulation, and found the GFSK modulation Middle channel(TX Only) 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.

Hotline

www.anbotek.com

400-003-0500



Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 18 of 56

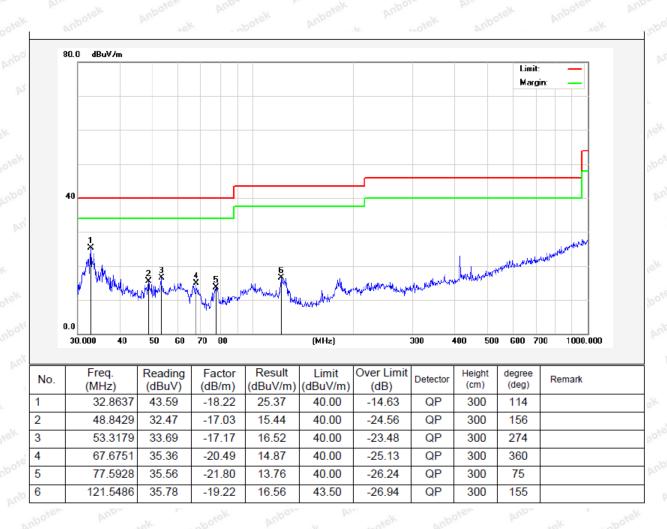
Test Results (30~1000MHz)

Test Mode: Mode 2

Power Source: DC 3.7V Battery inside

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 23.2°C/53%RH





Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 19 of 56

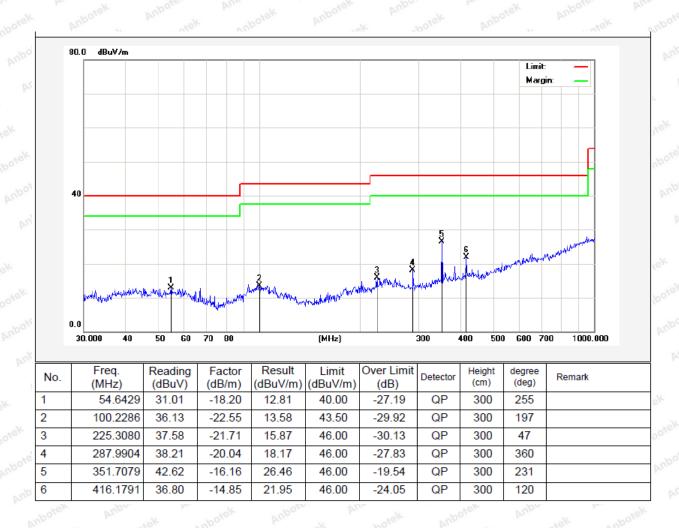
Test Results (30~1000MHz)

Test Mode: Mode 2

Power Source: DC 3.7V Battery inside

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 23.2°C/53%RH





Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 20 of 56

Test Results (1GHz-25GHz)

Test Mode:	CH00			Test	channel: Lov	vest		
			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.
4804.00	43.95	34.04	6.58	34.09	50.48	74.00	-23.52	V.uj
7206.00	36.23	37.11	7.73	34.50	46.57	74.00	-27.43	V
9608.00	35.39	39.31	9.23	34.79	49.14	74.00	-24.86	V
12010.00	Ann * tek	Anbotek	Anbo.	ek "no	otek Anb	74.00	otek p	nbo V
14412.00	Am. * otek	Anbor	ek Anbo	rek h	abotek A	74.00	~otek	An Vite
4804.00	49.59	34.04	6.58	34.09	56.12	74.00	-17.88	Hab
7206.00	38.58	37.11	7.73	34.50	48.92	74.00	-25.08	Н
9608.00	35.44	39.31	9.23	34.79	49.19	74.00	-24.81	H Yer
12010.00	Anbore*	Aupr otek	Anbotek	Anbore	rek apo	74.00	Low Numb	Н
14412.00	Anb & fee	AUD	k anbott	Anb.	rak bu	74.00	poter P	Hel
			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	31.50	34.04	6.58	34.09	38.03	54.00	-15.97	V
7206.00	24.17	37.11	7.73	34.50	34.51	54.00	-19.49	potek
9608.00	22.83	39.31	9.23	34.79	36.58	54.00	-17.42	AnbVek
12010.00	And And	e and	clek Aup	o. b.	botek	54.00	Pup. Olek	Voo
14412.00	* Ann	otek .	abotek p	,nboro	Principalek	54.00	Ambo	V
4804.00	36.47	34.04	6.58	34.09	43.00	54.00	-11.00	a⊬ H
7206.00	26.78	37.11	7.73	34.50	37.12	54.00	-16.88	Hotel
9608.00	23.11	39.31	9.23	34.79	36.86	54.00	-17.14	HK
12010.00	Antorek	Antour	lek vup	Hek An	on bu	54.00	aporer	Anbou
14412.00	* <sub>Anbore</sub>	Pupe	*8K	abotek	Anbore	54.00	Anbotek	Anbo

Hotline 400-003-0500 www.anbotek.com



Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 21 of 56

Test Results (1GHz-25GHz)

Test Mode:	CH39			Test	channel: Mid	dle		
			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.
4882.00	40.26	34.38	6.69	34.09	47.24	74.00	-26.76	$\Lambda_{u_l}$
7323.00	33.79	37.22	7.78	34.53	44.26	74.00	-29.74	V
9764.00	33.22	39.46	9.35	34.80	47.23	74.00	-26.77	<sup>tek</sup> V
12205.00	Arra * ek	Anbotek	Anbo	ek ~p	otek Anb	74.00	-otek	nbo V
14646.00	Ama*	Anbot	ek Anbo	- ok	abotek A	74.00	-otek	AnVite
4882.00	45.15	34.38	6.69	34.09	52.13	74.00	-21.87	Hab
7323.00	35.81	37.22	7.78	34.53	46.28	74.00	-27.72	Н
9764.00	32.92	39.46	9.35	34.80	46.93	74.00	-27.07	ek H
12205.00	Anbotek	Aupo	Anbotek	Anbore	OF PULL	74.00	Pup.	Н
14646.00	Anb tek	Anbo	k nbot	anbo	alk pro-	74.00	potek p	Hel
	V		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.
4882.00	28.55	34.38	6.69	34.09	35.53	54.00	-18.47	V
7323.00	22.16	37.22	7.78	34.53	32.63	54.00	-21.37	potek
9764.00	21.05	39.46	9.35	34.80	35.06	54.00	-18.94	AnbVek
12205.00	And And	e and	otek Aup	o, b,	sbotek	54.00	hupe	Voo
14646.00	* Ann	otek .	Apotek P	,nboro	Projek	54.00	Anbo	V
4882.00	33.11	34.38	6.69	34.09	40.09	54.00	-13.91	<sub>Ж</sub> Н
7323.00	24.53	37.22	7.78	34.53	35.00	54.00	-19.00	Help
9764.00	21.03	39.46	9.35	34.80	35.04	54.00	-18.96	HV
12205.00	Antorek	Pupo.	ek abi	Hek An	oote bu	54.00	upotek	H A
14646.00	* Anbore	Anbe	zek h.	botek	Aupolo	54.00	Anbotek	AUDO



Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 22 of 56

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

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	37.92	34.72	6.79	34.09	45.34	74.00	-28.66	V.
7440.00	32.24	37.34	7.82	34.57	42.83	74.00	-31.17	V
9920.00	31.83	39.62	9.46	34.81	46.10	74.00	-27.90	V
12400.00	Ann * tek	Anbotek	Anbo.	ek no	otek Anb	74.00	otek p	upo V
14880.00	Ann * otek	Anbor	ek Anbo	*ek	abotek A	74.00	worek.	AnVite
4960.00	42.33	34.72	6.79	34.09	49.75	74.00	-24.25	Hab
7440.00	34.05	37.34	7.82	34.57	44.64	74.00	-29.36	Н
9920.00	31.31	39.62	9.46	34.81	45.58	74.00	-28.42	ve⊬ H
12400.00	Anbore*	Aupr otek	Anbotek	Aupore	rek apo	74.00	PUD PUD	-33H
14880.00	Aup & ser	AUB	k anbott	Anb.	rok bu	74.00	poter pr	Hel
			A۱	/erage Valu	е	10.00		
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	26.72	34.72	6.79	34.09	34.14	54.00	-19.86	V
7440.00	20.93	37.34	7.82	34.57	31.52	54.00	-22.48	Ootek
9920.00	19.96	39.62	9.46	34.81	34.23	54.00	-19.77	AnbVek
12400.00	And And	e and	otek Aup	o, b,	botek	54.00	hupe	Voo
14880.00	* Ann	otek .	Apotek P	,nboro	Principalek	54.00	Anbo	V
4960.00	31.03	34.72	6.79	34.09	38.45	54.00	-15.55	<sub>Ж</sub> Н
7440.00	23.15	37.34	7.82	34.57	33.74	54.00	-20.26	Hygro
9920.00	19.75	39.62	9.46	34.81	34.02	54.00	-19.98	H.K
12400.00	Antorek	Antour	ek anbi	HOK AN	on bu	54.00	opolek	H
14880.00	* Anbore	Pupe	*8K	abotek	Anbore	54.00	Anbotek	Anbo

#### 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
- 3. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

### Shenzhen Anbotek Compliance Laboratory Limited





FCC ID: 2AG68-BT569MS2PLUS

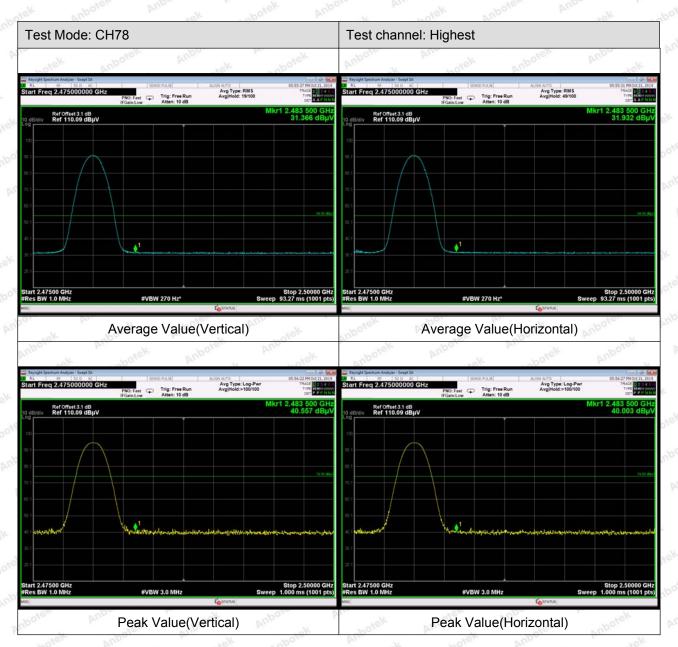
Page 23 of 56

#### Radiated Band Edge:





Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 24 of 56



#### 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



Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 25 of 56

## 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 : DC 3.7V Battery inside Temperature : 23.2° C

Test Result : PASS Humidity : 49 %

Channel Frequency (MHz)	Peak Power output (dBm)	Limit (dBm)	Results	Modulation	
2402	-0.488	20.96	PASS	BDR MOONE	
2441	-0.009	20.96	PASS	BDR	
2480	-0.181	20.96	PASS	BDR	
2402	-1.052	20.96	PASS	EDR	
2441	-0.702	20.96	PASS	EDR	
2480	-1.065	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.

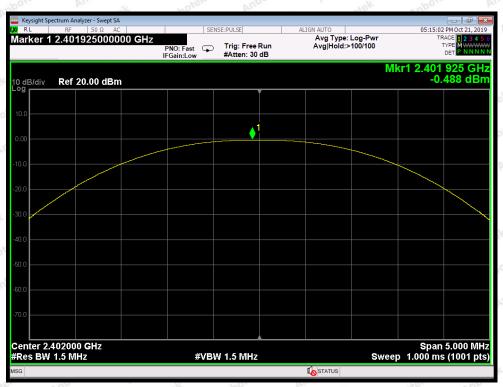
Shenzhen Anbotek Compliance Laboratory Limited





FCC ID: 2AG68-BT569MS2PLUS

Page 26 of 56



Test Mode: BDR---Low

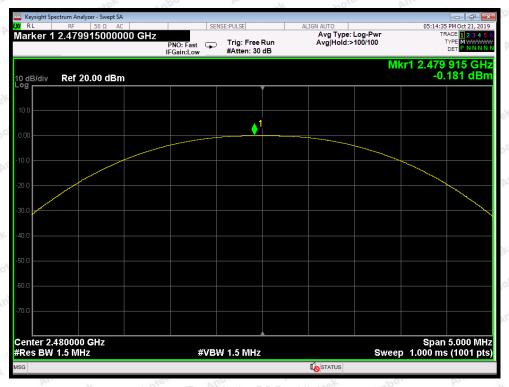


Test Mode: BDR---Middle



FCC ID: 2AG68-BT569MS2PLUS

Page 27 of 56



Test Mode: BDR---High



Test Mode: EDR---Low



FCC ID: 2AG68-BT569MS2PLUS

Page 28 of 56



Test Mode: EDR---Middle



Test Mode: EDR---High



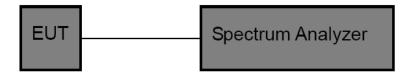
Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 29 of 56

## 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 : DC 3.7V Battery inside Temperature : 23.2° C
Test Result : PASS Humidity : 49 %

Channel	Frequency(MHz)	20dB Down BW(kHz)	Modulation Mode
Low	2402	930.6	BDR
Middle	2441	928.1	BDR
High	2480	937.5	BDR
Low	2402	1268	EDR DOTE
Middle	2441	1266	botek EDR Anborek
High	2480	1244	EDR

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

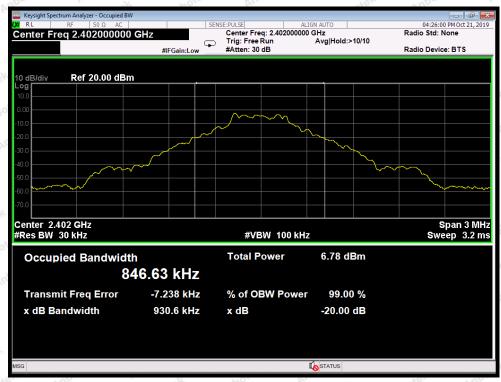
Shenzhen Anbotek Compliance Laboratory Limited





FCC ID: 2AG68-BT569MS2PLUS

Page 30 of 56



Test Mode: BDR---Low

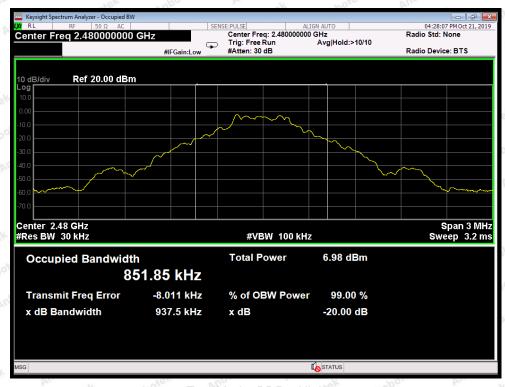


Test Mode: BDR---Middle

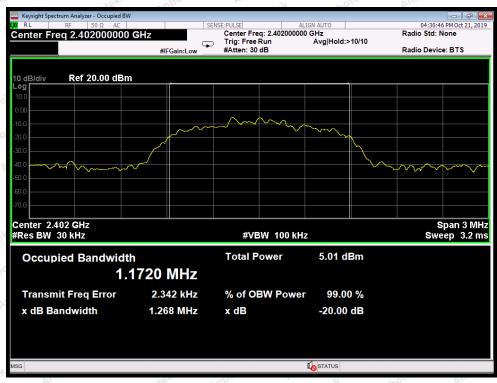


#### FCC ID: 2AG68-BT569MS2PLUS

Page 31 of 56



Test Mode: BDR---High



Test Mode: EDR---Low

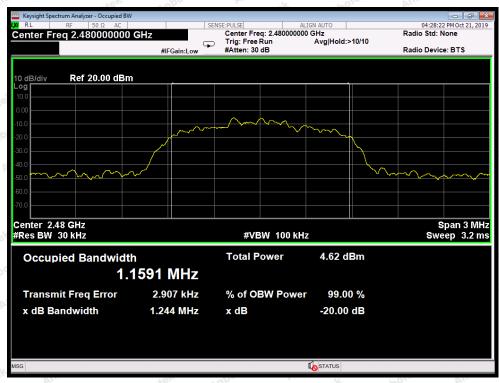


#### FCC ID: 2AG68-BT569MS2PLUS

Page 32 of 56



Test Mode: EDR---Middle



Test Mode: EDR---High



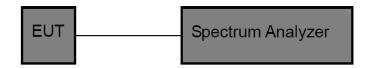
Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 33 of 56

## 7. Carrier Frequency Separation Test

#### 7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)	Anboten	Andwork	Anbotek
Test Limit	>25KHz or >two-thirds of the 20 dB bandwidth	Anbore	k And botek	Anbot

#### 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	:	DC 3.7V Battery inside	Temperature	:	23.2° C
Test Result		PASS	Humidity	:	49 %

Channel	Frequency	Separation Read	Limit	Modulation
	(MHz)	Value (kHz)	(kHz)	Mode
Low	2402	1000	930.6	BDR
Middle	2441	1000	928.1	BDR
High	2480	1000	937.5	BDR
Low	2402	1000	845.3	EDR
Middle	2441	1000	844.0	EDR
High	2480	1000	829.3	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 is 2/3 of 20dB BW.

Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-RF-05-a
Hotline

Hotline 400-003-0500 www.anbotek.com



FCC ID: 2AG68-BT569MS2PLUS

Page 34 of 56



Test Mode: BDR---Low

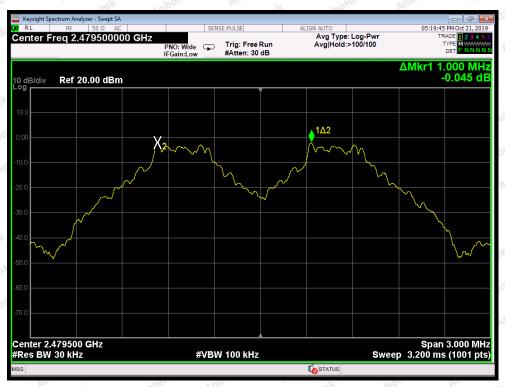


Test Mode: BDR---Middle



FCC ID: 2AG68-BT569MS2PLUS

Page 35 of 56



Test Mode: BDR---High



Test Mode: EDR---Low



FCC ID: 2AG68-BT569MS2PLUS

Page 36 of 56



Test Mode: EDR---Middle



Test Mode: EDR---High

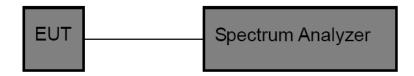


## 8. Number of Hopping Channel Test

#### 8.1. Test Standard and Limit

Test Standard	FCC Part15 C Se	ction 15.247 (a)(1)	ek Anbore.	Anumotek	Anbotek
Test Limit	>15 channels	Aupo.	botek Anbote	-k hotek	Anboy

### 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 : DC 3.7V Battery inside Temperature : 23.2° C
Test Result : PASS Humidity : 49 %

Hopping Channel Frequency Range	Quantity of Hopping Channel	Quantity of Hopping Channel	
2402-2480MHz	hotek Anb 79	>15	

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

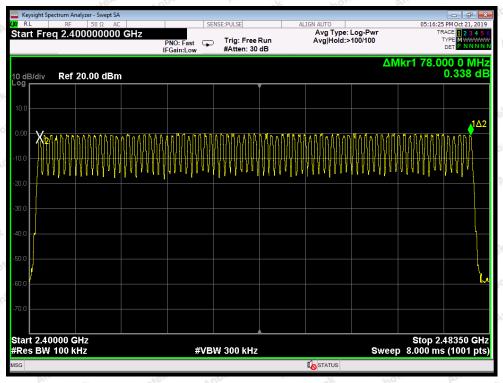
Shenzhen Anbotek Compliance Laboratory Limited

Hotline 400-003-0500 www.anbotek.com

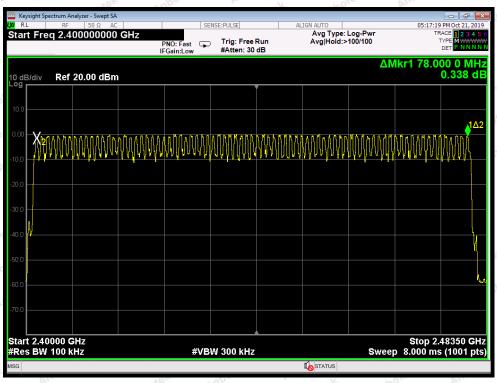


#### FCC ID: 2AG68-BT569MS2PLUS

Page 38 of 56



**BDR Mode** 



**EDR Mode** 

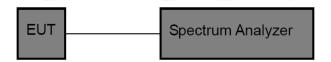


## 9. Dwell Time Test

## 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	Anboile

### 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 : DC 3.7V Battery inside Temperature : 23.2° C
Test Result : PASS Humidity : 49 %

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	1.630	time slot length *1600/4 /79 * 31.6	260.80	0.4 pm	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

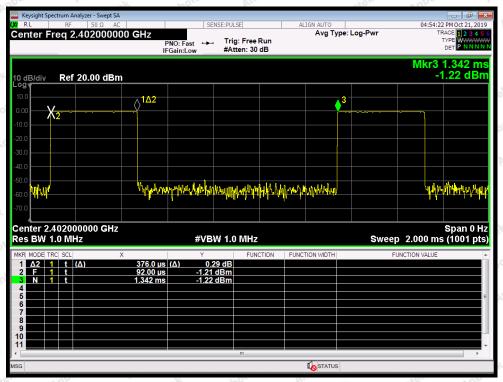
Remark: The EDR was tested on  $(\pi/4QPSK, 8DPSK)$  modes, only the worst data of (8DPSK) is attached in the following pages.

Shenzhen Anbotek Compliance Laboratory Limited

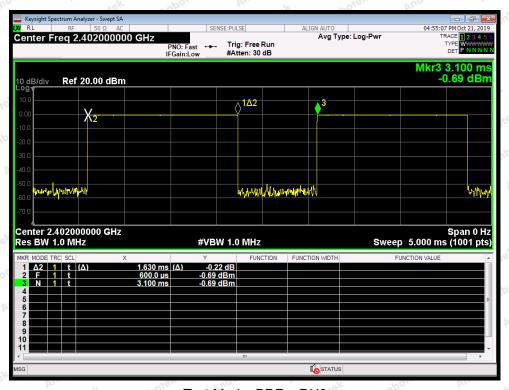




D: 2AG68-BT569MS2PLUS Page 40 of 56

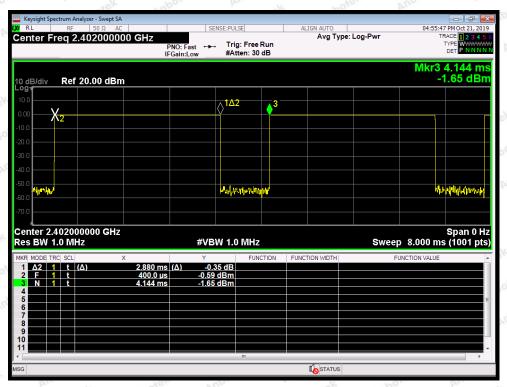


Test Mode: BDR---DH1

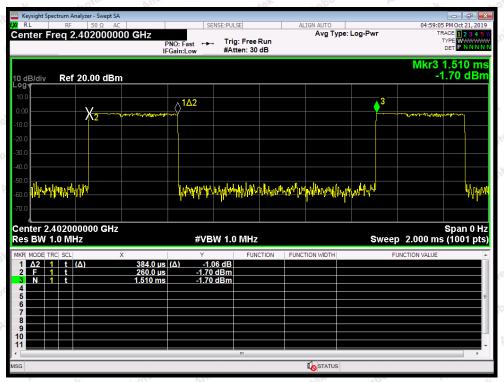


Test Mode: BDR---DH3





Test Mode: BDR---DH5



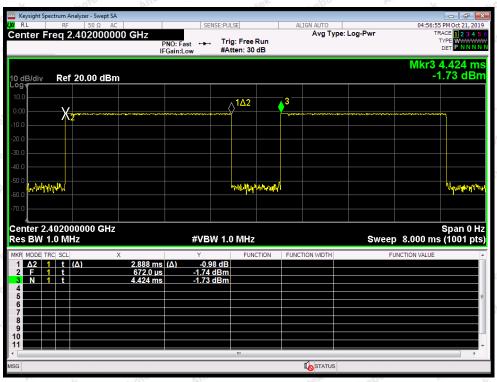
Test Mode: EDR---3DH1





Test Mode: EDR---3DH3

STATUS



Test Mode: EDR---3DH5

Hotline 400-003-0500 www.anbotek.com

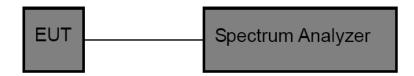


## 10. 100kHz Bandwidth of Frequency Band Edge Requirement

#### 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 : DC 3.7V Battery inside : Temperature : 23.2° C
Test Result : PASS : Humidity : 49 %

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

Shenzhen Anbotek Compliance Laboratory Limited

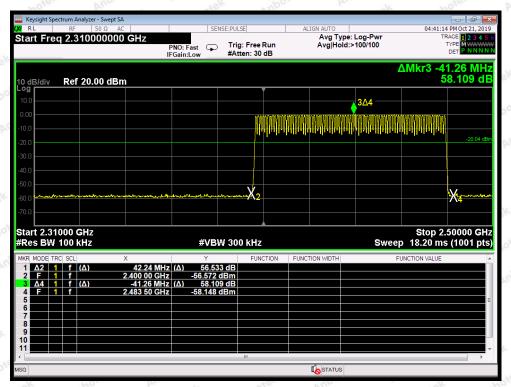




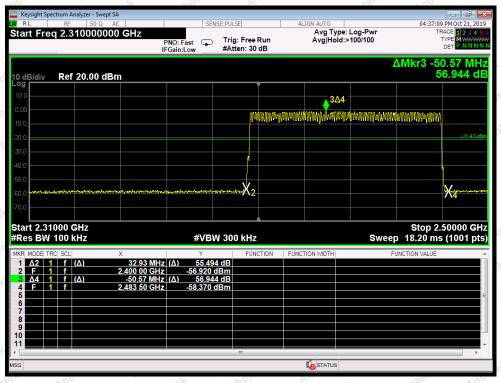
#### FCC ID: 2AG68-BT569MS2PLUS

Page 44 of 56

## **For Hopping Mode**



#### BDR mode



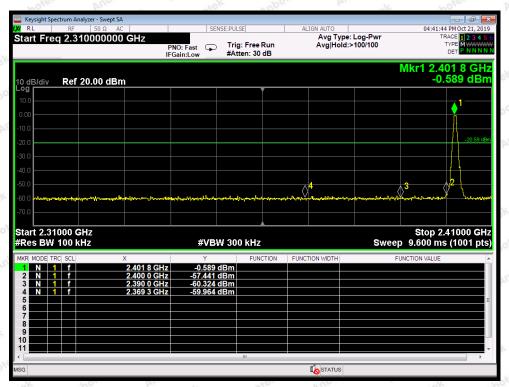
EDR mode



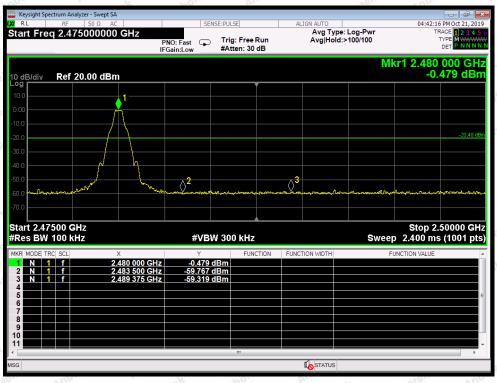
#### FCC ID: 2AG68-BT569MS2PLUS

Page 45 of 56

#### For Non-Hopping Mode



BDR mode -- Lowest



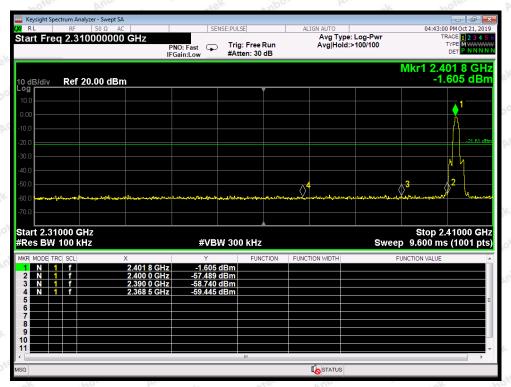
BDR mode -- Highest



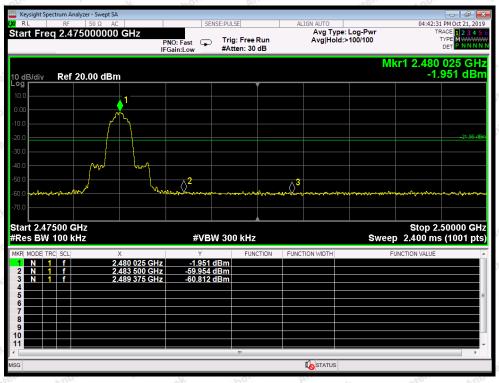
#### FCC ID: 2AG68-BT569MS2PLUS

Page 46 of 56

## For Non-Hopping Mode



EDR mode -- Lowest



EDR mode -- Highest



Report No.: SZAWW191016002-01 FCC ID: 2AG68-BT569MS2PLUS Page 47 of 56 Conducted Emission Method Avg Type: Log-Pwr Avg/Hold: 90/100 Avg Type: Log-Pwr Avg/Hold: 5/100 PNO: Fast Trig: Free Run io: Fast Trig: Free Run MAtten: 30 dB Stop 25.00 GHz Sweep 2.386 s (1001 pts) Start 0.03 GHz #Res BW 100 kHz t 0.03 GHz s BW 100 kHz -0.750 dE -41.422 dE -1.888 dBn -48.841 dBn Test Mode: BDR---Low Test Mode: BDR---Mid Start Freq 30.000000 MHz Start Freq 30.000000 MHz Avg Type: Log-Pwr Avg/Hold: 14/100 Avg Type: Log-Pwr Avg/Hold: 5/100 iii: Free Run NO: Fast Trig: Free Run Ref 20.00 dBr Ref 20.00 dBr Test Mode: BDR---High Test Mode: EDR---Low Avg Type: Log-Pwr Avg/Hold: 8/100 Avg Type: Log-Pwr Avg/Hold: 64/100 ast Trig: Free Run EAtten: 30 dB st Trig: Free Run Ref 20.00 dBm Ref 20.00 dBn

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

Test Mode: EDR---Mid

Test Mode: EDR---High



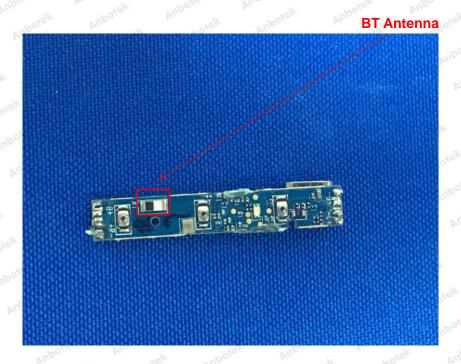
## 11. Antenna Requirement

## 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 Ceramic Antenna which permanently attached, and the best case gain of the antenna is -1.1 dBi. It complies with the standard requirement.



Shenzhen Anbotek Compliance Laboratory Limited

Code: AB-RF-05-a Hotline





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

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test





Page 50 of 56





## Page 51 of 56

# **APPENDIX II -- EXTERNAL PHOTOGRAPH**





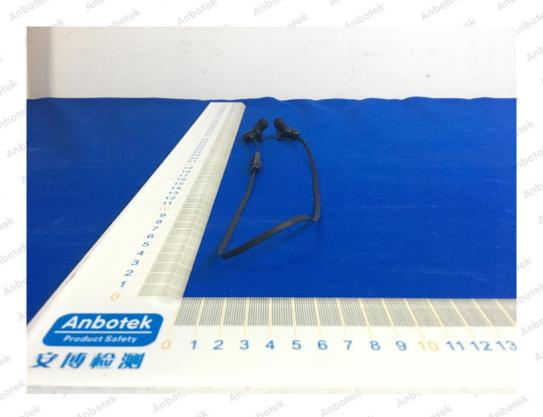
#### **Shenzhen Anbotek Compliance Laboratory Limited**



FCC ID: 2AG68-BT569MS2PLUS

Page 52 of 56







FCC ID: 2AG68-BT569MS2PLUS

Page 53 of 56







Page 54 of 56

## **APPENDIX III -- INTERNAL PHOTOGRAPH**

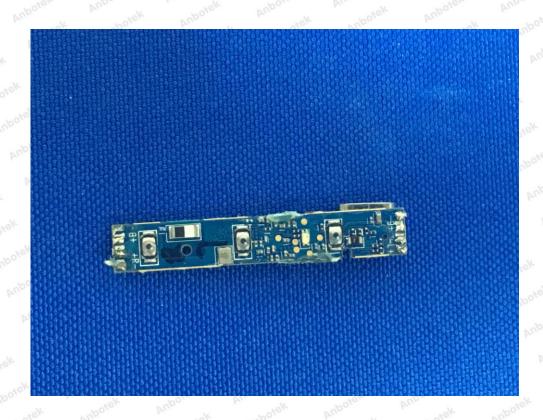






Page 55 of 56







FCC ID: 2AG68-BT569MS2PLUS

Page 56 of 56





--- End of Report -----

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

Hotline 400-003-0500 www.anbotek.com