

Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 1 of 57

FCC TEST REPORT

Client Name : DGL Group LTD.

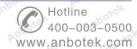
Address 195 Raritan Center Parkway, Edison, New Jersey, United

States, 08837

Product Name : Bluetooth earbuds

Date : Dec. 16, 2019

Shenzhen Anbotek Compliance Laboratory Limited





Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511

Page 2 of 57

Contents

1. General information	
1.1. Client Information	shote Anu 5
Description of Device (EUT) 1.3. Auxiliary Equipment Used During Test	M. Anbo
1.3. Auxiliary Equipment Used During Test	6
1.4. Description of Test Modes	6
1.5. List of Charmers	
1.6. Description Of Test Setup	8
.7. Test Equipment List	
1.8. Measurement Uncertainty	10
1.9. Description of Test Facility	10
2. Summary of Test Results	
3 Conducted Emission Test	work knoo 12
3.1. Test Standard and Limit	
3.2. Test Setup	
3.3. Test Procedure	12
3.4. Test Data	
4. Radiation Spurious Emission and Band Edge	15
4.1. Test Standard and Limit	
4.2. Test Setup	
4.3. Test Procedure	16
4.4. Test Data	
5. Maximum Peak Output Power Test	25
5.1. Test Standard and Limit	25
5.2. Test Setup	25
5.3. Test Procedure	25
5.4. Test Data	25
6. 20DB Occupy Bandwidth Test	29
6.1. Test Standard	29
6.2. Test Setup	29
6.3. Test Procedure	29
6.4. Test Data	29
7. Carrier Frequency Separation Test	33
7.1. Test Standard and Limit	33
7.2. Test Setup	33
7.3. Test Procedure	33
7.4. Test Data	
7. Carrier Frequency Separation Test	37
8.1. Test Standard and Limit	
nahan Anhatak Camplianaa Lahavatavu Limitad	Code: AB-RF-05-a



Report No.: SZAWW191130004-01	FCC I	D: 2AANZ	1511	Page	3 of 57	
8.2. Test Setup	Mpor			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		37
8.3. Test Procedure	Va	oten A	VD-	and lek	Anboro	37
8.4. Test Data		wotek.		Pri.	boten	37
8.3. Test Procedure	2010		popoten	Anb		39
9.1. Test Standard and Limit	mboter	Anba		Vupor		39
9.2. Test Setup	, John Jek	Aupor		do _n Age	ster Ar	39
9.3. Test Procedure	P11.	4 2000	ter Vup.		Hootel ^k	39
9.4. Test Data						
10. 100kHz Bandwidth of Frequency Band	Edge Requ	uirement	Hotek	Mpotes	Ann Jak	43
10.1. Test Standard and Limit	otek	upo _{te} ,	Vun Tok	hotek	Anbo.	43
10.2. Test Setup		botek	Anbo.	h. Majek	Anbos	43
10.3. Test Procedure	iupo.	wotek	Aupole	Yer		43
10.4. Test Data	Mpole		24,,,,,,,,,,,,	ier Wipr		43
11. Antenna Requirement						48
11.1. Test Standard and Requirement11.2. Antenna Connected Construction	<u>.</u>	tek Ari	pore A		nebotek	48
11.2. Antenna Connected Construction	l	-/seV-	upboter.	Anbo	totek	48
APPENDIX I TEST SETUP PHOTOGRA	PH	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, otek	Anbor		49
APPENDIX II EXTERNAL PHOTOGRAP	Hotel	Anbore	bu.	oboten	Anbr	51
ADDENDIV III INTEDNIAI DUOTOCDAD	- Va. L					101



Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 4 of 57

TEST REPORT

Applicant : DGL Group LTD.

Manufacturer : DGL Group LTD.

Product Name : Bluetooth earbuds

EU-HY-1511, EU-HY-1511-RSE, EU-HY-1511-GLD, EU-HY-1511-SPC,

Model No. : HY-1511, HY-1511-RSE, HY-1511-GLD, HY-1511-SPC, HY-1511-ASST,

EU-HY-1511-ASST

Trade Mark : HYPE

Rating(s): Input: DC 5V, 75mA (with DC 3.7V, 250 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 receipt
Date of Test

Nov. 30, 2019
Nov. 30~Dec. 12, 2019

Prepared by

(Engineer / Dolly Mo)

Reviewer

(Supervisor / Bibo Zhang)

Approved & Authorized Signer

(Manager / Tom Chen)

Shenzhen Anbotek Compliance Laboratory Limited





Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 5 of 57

1. General Information

1.1. Client Information

Applicant	:	DGL Group LTD.
Address	e	195 Raritan Center Parkway, Edison, New Jersey, United States, 08837
Manufacturer	: 10	DGL Group LTD.
Address	: '	195 Raritan Center Parkway, Edison, New Jersey, United States, 08837
Factory	:	DGL Group LTD.
Address	(2)	195 Raritan Center Parkway, Edison, New Jersey, United States, 08837

1.2. Description of Device (EUT)

Product Name	:	Bluetooth earbuds						
Model No.	:	HY-1511, HY-1511-RSE, I EU-HY-1511-ASST	I-RSE, EU-HY-1511-GLD, EU-HY-1511-SPC, HY-1511-GLD, HY-1511-SPC, HY-1511-ASST, e same except the model name, so we prepare y.)					
Trade Mark	:	HYPE THE AND OTHER	Anborek Anborek Anborek Anborek					
Test Power Supply	:	AC 120V, 60Hz for adapte	er/ DC 3.7V Battery inside					
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)						
		Operation Frequency:	2402~2480MHz					
		Transfer Rate:	1/2/3 Mbits/s					
Product		Number of Channel:	79 Channels					
Description	:	Modulation Type:	GFSK, π/4-DQPSK, 8-DPSK					
		Antenna Type:	PCB Antenna					
		Antenna Gain(Peak):	-0.58 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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Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 6 of 57

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	inbo ntek Anbotek Anbo	CH00	inbotek Anbotek Anbotek
Mode 2	GFSK	CH39	Anbotek Anbotek Anbotek
Mode 3	And hotek Anbotek	CH78	Anbotes And hotek Anbotes
Mode 4	ek botek Anbotek	CH00	k Anbores Anborek Anbo
Mode 5	π/4-DQPSK	CH39	TX+ Charging Mode/TX Only
Mode 6	obo. Anbotek Anbo	CH78	nbotek Anbo stek Anbotek
Mode 7	Anbo anbotek An	CH00	Anbores Anbootek Anborek
Mode 8	8-DPSK	CH39	Anbotek Anbotek Anbotek
Mode 9	ak hotek Anbotek	CH78	Anboten Anbo botek Anbo

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.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 7 of 57

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		
16	2418	33	2435	50	2452	67	2469		Arriva

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.

www.anbotek.com

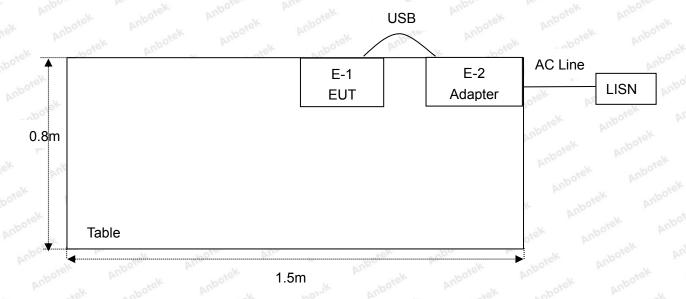


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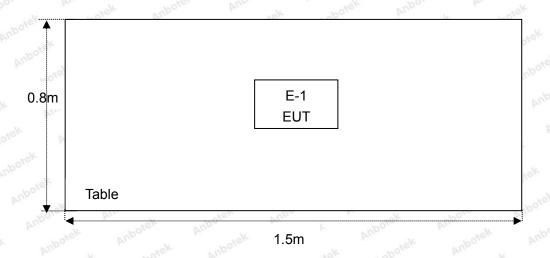
Page 8 of 57

1.6. Description Of Test Setup

CE



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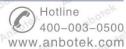
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Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 9 of 9

.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	
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	





Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 10 of 57

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.

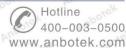
ISED-Registration No.: 8058A

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





Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511

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.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 12 of 57

3. Conducted Emission Test

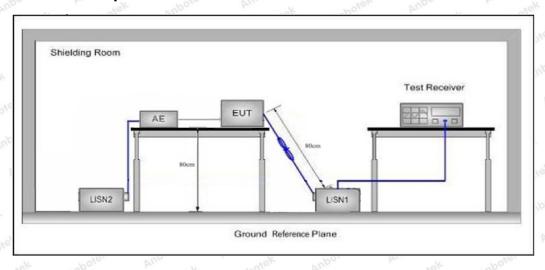
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207	Tek abotek Anbo	the And Sofek Anbore				
	Fraguenov	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 Marel				

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.

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Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 13 of 57

Conducted Emission Test Data

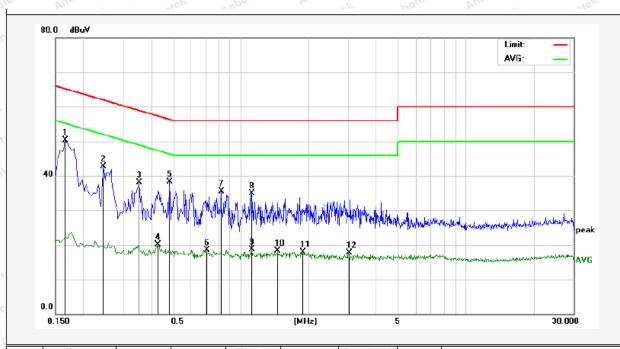
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 18.1℃ Hum.: 35%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1660	30.41	19.90	50.31	65.15	-14.84	QP	
2	0.2460	22.83	19.89	42.72	61.89	-19.17	QP	
3	0.3540	18.13	19.91	38.04	58.87	-20.83	QP	
4	0.4300	0.19	19.95	20.14	47.25	-27.11	AVG	
5	0.4860	18.38	19.97	38.35	56.24	-17.89	QP	
6	0.7060	-1.45	20.04	18.59	46.00	-27.41	AVG	
7	0.8180	15.49	20.07	35.56	56.00	-20.44	QP	
8	1.1220	14.79	20.12	34.91	56.00	-21.09	QP	
9	1.1220	-1.41	20.12	18.71	46.00	-27.29	AVG	
∜ 10	1.4580	-1.84	20.13	18.29	46.00	-27.71	AVG	
11	1.8940	-2.19	20.14	17.95	46.00	-28.05	AVG	
12	3.0220	-2.36	20.16	17.80	46.00	-28.20	AVG	



Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 14 of 57

Conducted Emission Test Data

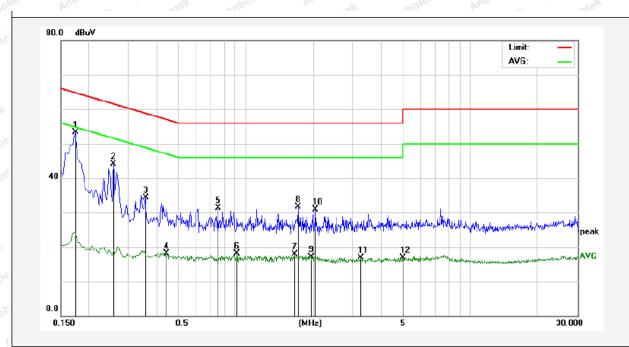
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 18.1℃ Hum.: 35%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1740	33.47	19.90	53.37	64.76	-11.39	QP	
2	0.2580	24.20	19.89	44.09	61.49	-17.40	QP	
3	0.3580	14.32	19.92	34.24	58.77	-24.53	QP	
4	0.4460	-1.78	19.96	18.18	46.95	-28.77	AVG	
5	0.7539	11.25	20.05	31.30	56.00	-24.70	QP	
6	0.9140	-2.07	20.10	18.03	46.00	-27.97	AVG	
7	1.6500	-2.20	20.13	17.93	46.00	-28.07	AVG	
8	1.7100	11.53	20.13	31.66	56.00	-24.34	QP	
9	1.9500	-3.08	20.14	17.06	46.00	-28.94	AVG	
10	2.0540	10.85	20.14	30.99	56.00	-25.01	QP	
11	3.2580	-3.20	20.17	16.97	46.00	-29.03	AVG	
12	4.9820	-3.33	20.21	16.88	46.00	-29.12	AVG	



Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 15 of 57

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 Anboti	-k PU	rek Anborek
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	∀upo.	A. Obotek	300
	0.490MHz-1.705MHz	24000/F(kHz)	Fire Wupon	k pin	30
	1.705MHz-30MHz	30	otek _ Anbox	otek - nobot	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	otek 3 Anbo
	88MHz~216MHz	150	43.5	Quasi-peak	inbotek 3
	216MHz~960MHz	200	46.0	Quasi-peak	ambo 3
	960MHz~1000MHz	500	54.0	Quasi-peak	3.70
	Al 4000MI	500	54.0	Average	3,5001
	Above 1000MHz	Anbo. otek	74.0	Peak	otek 3 Anbot

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

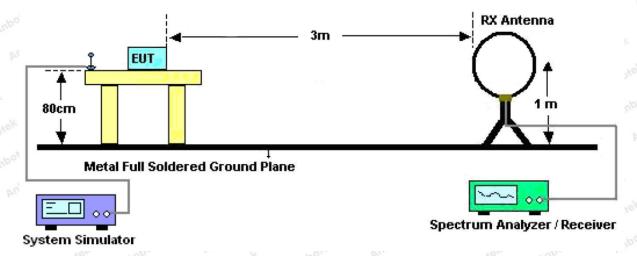


Figure 1. Below 30MHz



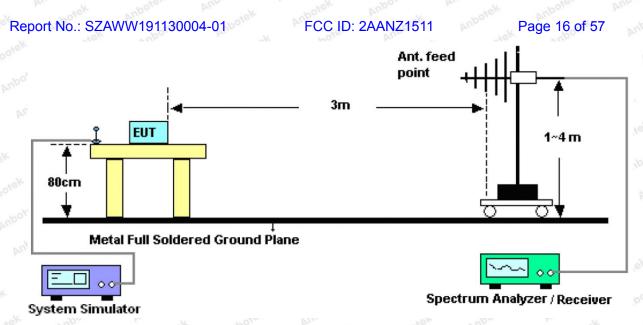


Figure 2. 30MHz to 1GHz

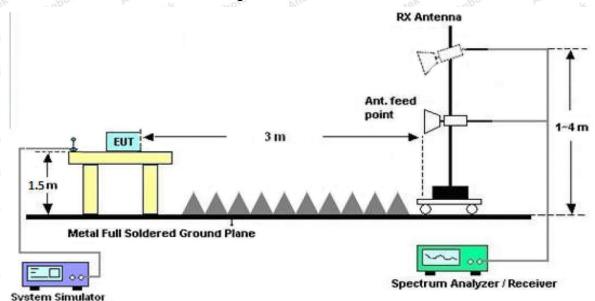


Figure 3. Above 1 GHz

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.

For the radiated emission test above 1GHz:

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Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 17 of 57

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, π/4QPSK, 8DPSK modulation, and found the GFSK modulation Middle channel(TX Olny) 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.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 18 of 57

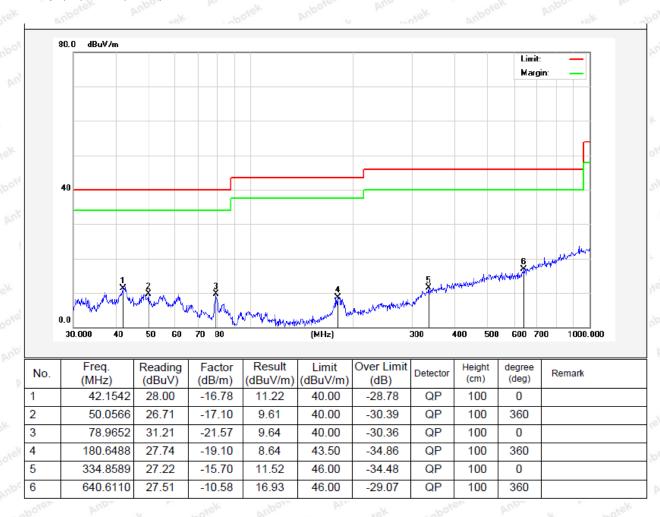
Test Results (30~1000MHz)

Test Mode: Mode 2

Power Source: DC 3.7V Battery inside

Polarization: Vertical

Temp.(℃)/Hum.(%RH): 23℃/54%RH





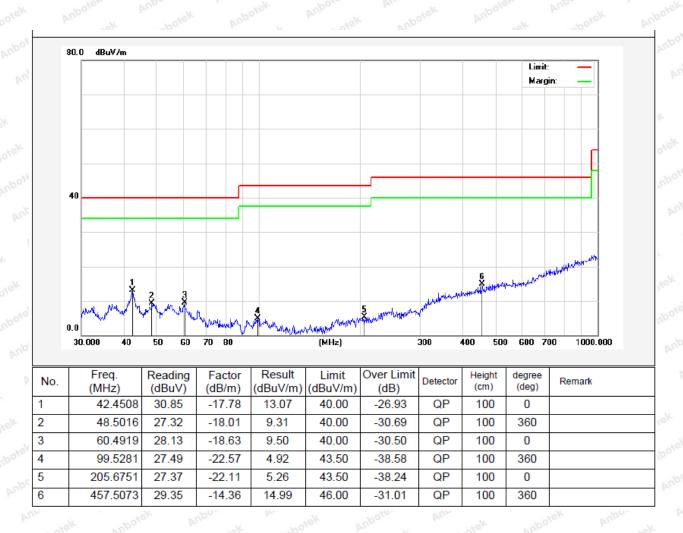
Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 19 of 57

Test Results (30~1000MHz)

Test Mode: Mode 2

Power Source: DC 3.7V Battery inside

Polarization: Horizontal Temp.($^{\circ}$ C)/Hum.($^{\circ}$ RH): 23 $^{\circ}$ C/54 $^{\circ}$ RH





Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 20 of 57

Test Results (1GHz-25GHz)

Test Mode:	CH00			Test	channel: Lov	vest		
			i	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	36.85	34.04	6.58	34.09	43.38	74.00	-30.62	V
7206.00	31.53	37.11	7.73	34.50	41.87	74.00	-32.13	V
9608.00	31.20	39.31	9.23	34.79	44.95	74.00	-29.05	V
12010.00	Ans * otek	Anbotek	Aupo.	ek nb	otek Anb	74.00	potek p	nbo's
14412.00	Ant * otek	Anbot	ek Aupo	rek bu	abotek A	74.00	worek.	AN VA
4804.00	41.04	34.04	6.58	34.09	47.57	74.00	-26.43	Hari
7206.00	33.24	37.11	7.73	34.50	43.58	74.00	-30.42	Н
9608.00	30.58	39.31	9.23	34.79	44.33	74.00	-29.67	H Yer
12010.00	Aupole*	And	Aupotek	Anbor	rak apo	74.00	PLUD.	-oth
14412.00	Aup & Jen	AUD	k anbott	arb'	rak bu	74.00	poter A	H
			A	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	25.75	34.04	6.58	34.09	32.28	54.00	-21.72	V
7206.00	20.27	37.11	7.73	34.50	30.61	54.00	-23.39	V
9608.00	19.37	39.31	9.23	34.79	33.12	54.00	-20.88	anbV°
12010.00	And work	day A	otek Aup	or b	abotek	54.00	hup - otek	Vo
14412.00	***************************************	otek o	hotek F	'upor_	abotek .	54.00	Ann	V
4804.00	29.93	34.04	6.58	34.09	36.46	54.00	-17.54	ek H
7206.00	22.41	37.11	7.73	34.50	32.75	54.00	-21.25	H/sto-
9608.00	19.06	39.31	9.23	34.79	32.81	54.00	-21.19	H
12010.00	Antorek	Anto	ek noo	rek An	Pour bu	54.00	hboten	Anbo
14412.00	* _{Anbote}	VUp.	*8K	botek	Anbor	54.00	Anbotes	PUP



Report No.: SZAWW191130004-01 Page 21 of 57 FCC ID: 2AANZ1511

Test Results (1GHz-25GHz)

Test Mode:	CH39			Test	channel: Mid	ldle		
			ı	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	38.17	34.38	6.69	34.09	45.15	74.00	-28.85	Λ_{ω_l}
7323.00	32.40	37.22	7.78	34.53	42.87	74.00	-31.13	V
9764.00	31.98	39.46	9.35	34.80	45.99	74.00	-28.01	V
12205.00	Arra * ek	Anbotek	Anbo	ek ~p	otek Anb	74.00	-otek o	nbolok
14646.00	Ama*	Anbor	ek Anbo	rek bu	abotek A	74.00	-orek	AnVite
4882.00	42.63	34.38	6.69	34.09	49.61	74.00	-24.39	Hab
7323.00	34.23	37.22	7.78	34.53	44.70	74.00	-29.30	Н
9764.00	31.48	39.46	9.35	34.80	45.49	74.00	-28.51	H Yer
12205.00	Anbore*	Anb.	Aupotek	Anbor	rek apo	74.00	Pilip	H.
14646.00	Anb & fee	AUD	k anbott	Anb.	rak bu	74.00	poter by	Hel
2337			A	verage Valu	е	10-		
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	26.83	34.38	6.69	34.09	33.81	54.00	-20.19	V
7323.00	21.00	37.22	7.78	34.53	31.47	54.00	-22.53	potek
9764.00	20.02	39.46	9.35	34.80	34.03	54.00	-19.97	AnbVek
12205.00	And And	e and	otek Anb	o. b.	botek	54.00	hupe	Voo
14646.00	* AM	stek n	Apotek F	'upor	photok	54.00	Anbe	V
4882.00	31.16	34.38	6.69	34.09	38.14	54.00	-15.86	ж Н
7323.00	23.23	37.22	7.78	34.53	33.70	54.00	-20.30	Hotel
9764.00	19.83	39.46	9.35	34.80	33.84	54.00	-20.16	Hir
12205.00	An*ofek	Anto	ek noo	HEK AN	Don No	54.00	obotes	Anbou
14646.00	* Anbore	WUR	zek	botek	Anbo.	54.00	Anboyer	AM





Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 22 of 57

Test Results (1GHz-25GHz)

Test Nesults	(1GHZ-25G	12) K	Vupo.	h. rek	nbore	Wille	L Lote	Je.
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	37.50	34.72	6.79	34.09	44.92	74.00	-29.08	V.n.
7440.00	31.96	37.34	7.82	34.57	42.55	74.00	-31.45	V
9920.00	31.58	39.62	9.46	34.81	45.85	74.00	-28.15	V
12400.00	Ann *tek	Anbotek	Anbor	ek ~b	otek Anb	74.00	-otek	nbolok
14880.00	Aup * Otek	Anbor	ok Anbo	rek An	aborek F	74.00	-otek	AnVite
4960.00	41.83	34.72	6.79	34.09	49.25	74.00	-24.75	Hab
7440.00	33.73	37.34	7.82	34.57	44.32	74.00	-29.68	Н
9920.00	31.02	39.62	9.46	34.81	45.29	74.00	-28.71	_{te} ⊬ H
12400.00	Anbote*	Pupp Stek	Anbotek	Anbore	rak abi	74.00	V. Villa	Н
14880.00	Anb Pres	AUB	k anbot	Y Aup	ak par	74.00	poter P	Hel
			Av	verage Valu	е	10-		
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	26.37	34.72	6.79	34.09	33.79	54.00	-20.21	V
7440.00	20.69	37.34	7.82	34.57	31.28	54.00	-22.72	potek
9920.00	19.75	39.62	9.46	34.81	34.02	54.00	-19.98	anbVek
12400.00	And Andrew	e anb	otek Pup	or by	bojek	54.00	Prup. Otek	Voo
14880.00	*Anb	otek .	Apolek P	nboro	Pro-Potek	54.00	Anbo	V
4960.00	30.63	34.72	6.79	34.09	38.05	54.00	-15.95	≱ H
7440.00	22.88	37.34	7.82	34.57	33.47	54.00	-20.53	Hele
9920.00	19.50	39.62	9.46	34.81	33.77	54.00	-20.23	H.K
12400.00	An*ofek	Antour	sek nobs	Yek An	oots bu	54.00	hotek	H
14880.00	*nbote	Pupe	16K	botek	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.

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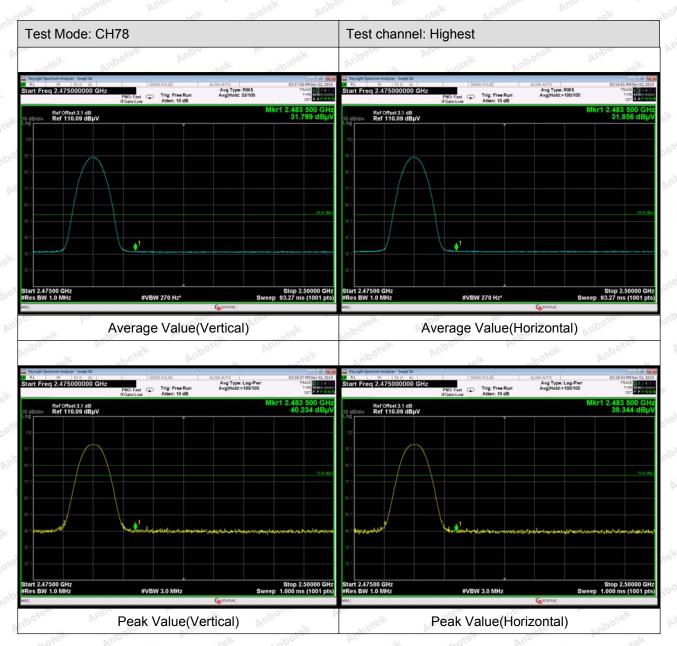
Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 23 of 57

Radiated Band Edge:





Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 24 of 57



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



Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 25 of 57

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 : CH Low ~ CH High

Test Voltage : DC 3.7V Battery inside Temperature : 21.9° C Test Result : PASS Humidity : 50%RH

Channel Frequency (MHz)	Peak Power output (dBm)	Limit (dBm)	Results	Modulation
2402	-0.476	20.96	PASS	BDR Moore
2441	0.087	20.96	PASS	BDR M
2480	0.110	20.96	PASS	BDR
2402	-0.978	20.96	PASS	EDR
2441	-0.573	20.96	PASS	EDR **
2480	-0.693	20.96	PASS	more EDR nootek

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

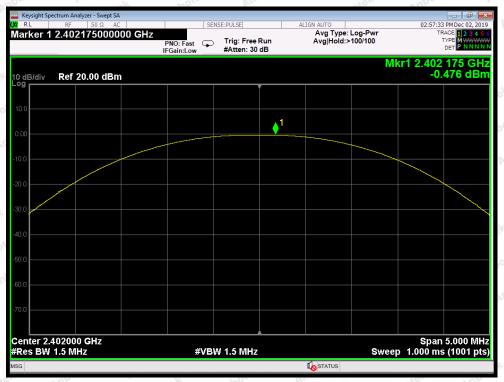






FCC ID: 2AANZ1511

Page 26 of 57



Test Mode: BDR---Low

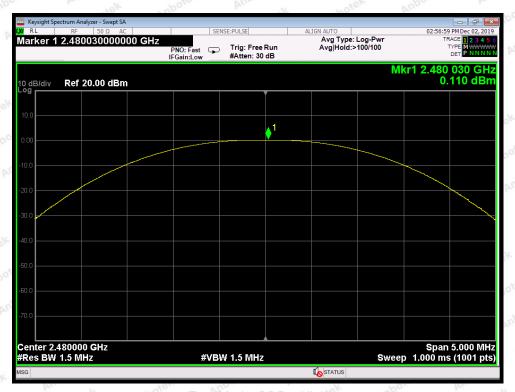


Test Mode: BDR---Middle



FCC ID: 2AANZ1511

Page 27 of 57



Test Mode: BDR---High



Test Mode: EDR---Low

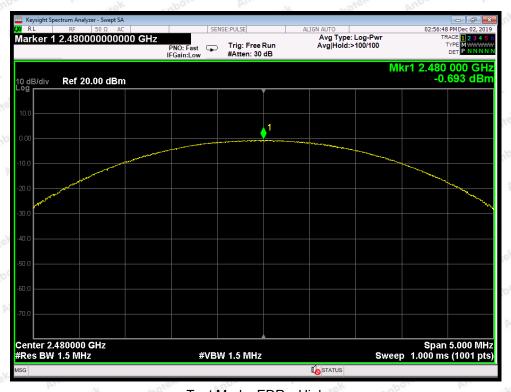


FCC ID: 2AANZ1511

Page 28 of 57



Test Mode: EDR---Middle



Test Mode: EDR---High



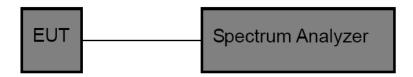
Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 29 of 57

6. 20DB Occupy Bandwidth Test

6.1. Test Standard

Test Standard	FCC Part15 C Section 15.247 (a)(1)	Anbore	Ann	Anbotek
---------------	------------------------------------	--------	-----	---------

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 : 21.9° C Test Result : PASS Humidity : 50° RH

Channel	Frequency(MHz)	20dB Down BW(kHz)	Modulation Mode
Low	2402	928.3	BDR
Middle	2441	930.2	BDR
High	2480	935.3	BDR
Low	2402	1268	EDR DOTE
Middle	2441	1264	botek EDR Anborek
High	2480	1263	EDR Anbore

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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Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 30 of 57



Test Mode: BDR---Low

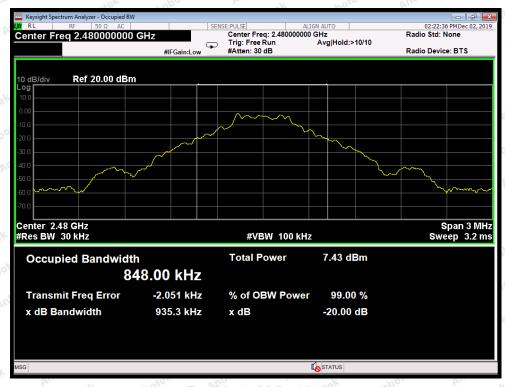


Test Mode: BDR---Middle

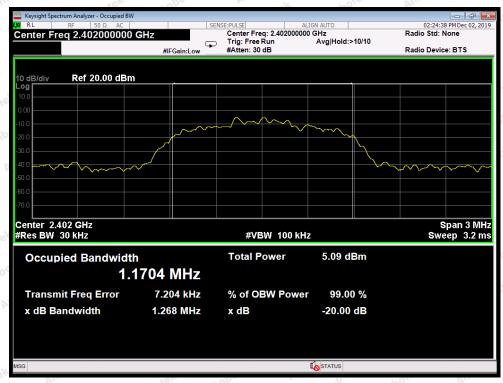
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Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 31 of 57



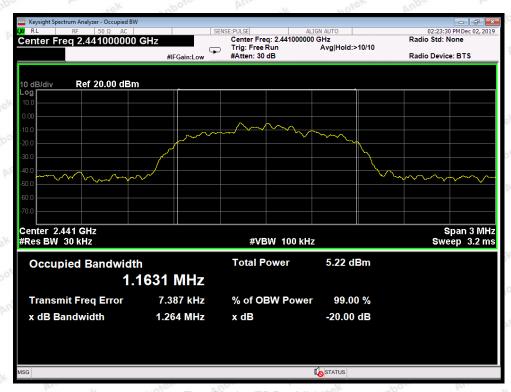
Test Mode: BDR---High



Test Mode: EDR---Low



Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 32 of 57



Test Mode: EDR---Middle



Test Mode: EDR---High



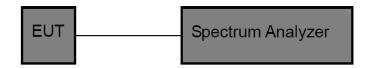
Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511

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	:	21.9℃
Test Result	:	PASS	Humidity	:	50%RH

Channol	Frequency	Separation Read	Limit	Modulation
Channel	(MHz)	Value (kHz)	(kHz)	Mode
Low	2402	1000	928.3	BDR
Middle	2441	1000	930.2	BDR
High	2480	1000	935.3	BDR
Low	2402	1000	845.3	EDR
Middle	2441	1000	842.7	EDR
High	2480	1000	842.0	EDR 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 EDR is 2/3 of 20dB BW.

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FCC ID: 2AANZ1511

Page 34 of 57



Test Mode: BDR---Low

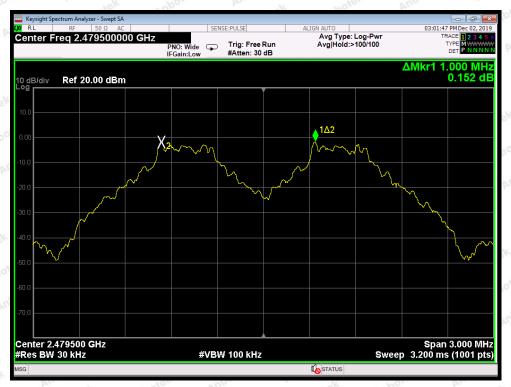


Test Mode: BDR---Middle



FCC ID: 2AANZ1511

Page 35 of 57



Test Mode: BDR---High



Test Mode: EDR---Low



FCC ID: 2AANZ1511

Page 36 of 57



Test Mode: EDR---Middle



Test Mode: EDR---High



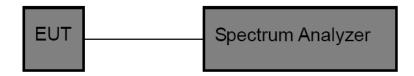
Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 37 of 57

8. Number of Hopping Channel Test

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Se	ction 15.247 (a)	(1)	Anboren	Anbanotek	Anborek
Test Limit	>15 channels	Aupo.	a abotek	Anbote	k 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 DC 3.7V Battery inside **Temperature** 21.9℃ Test Result **PASS** Humidity 50%RH

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.

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Hotline

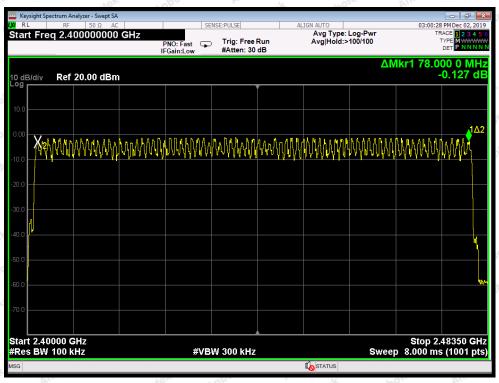


FCC ID: 2AANZ1511

Page 38 of 57



BDR Mode



EDR Mode



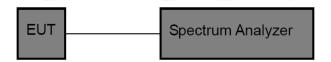
Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 39 of 57

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 \sim CH High Test Voltage : DC 3.7V Battery inside Temperature : 21.9 $^{\circ}$ C

Test Voltage : DC 3.7V Battery inside Temperature : 21.9° C Test Result : PASS Humidity : 50° 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	1.630	time slot length *1600/4 /79 * 31.6	260.80	0.4 pm	BDR
DH5	2.872	time slot length *1600/6 /79 * 31.6	306.35	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	2.880	time slot length *1600/6 /79 * 31.6	307.20	0.4	EDR

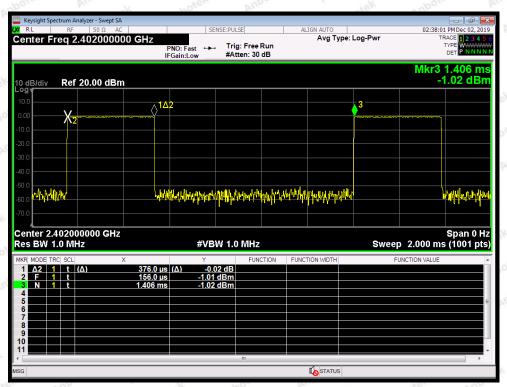
Remark: The EDR was tested on $(\pi/4QPSK, 8DPSK)$ modes, only the worst data of (8DPSK) is attached in the following pages.

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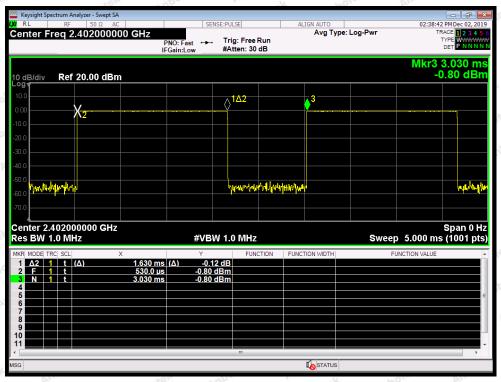




Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 40 of 57



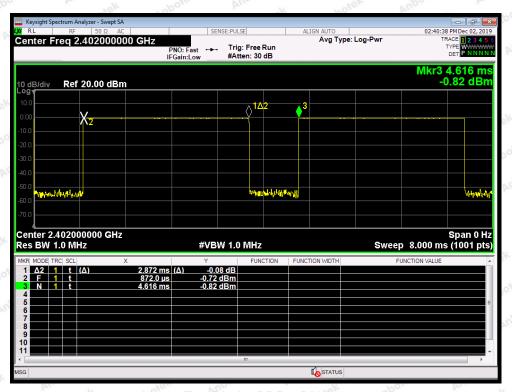
Test Mode: BDR---DH1



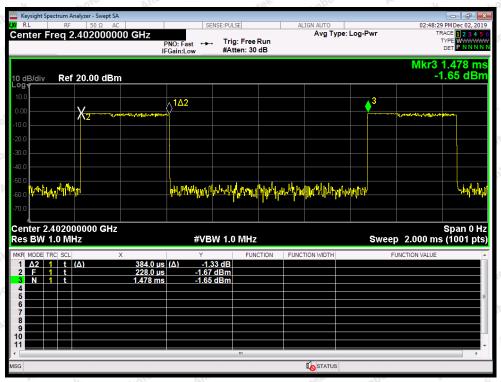
Test Mode: BDR---DH3



Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 41 of 57



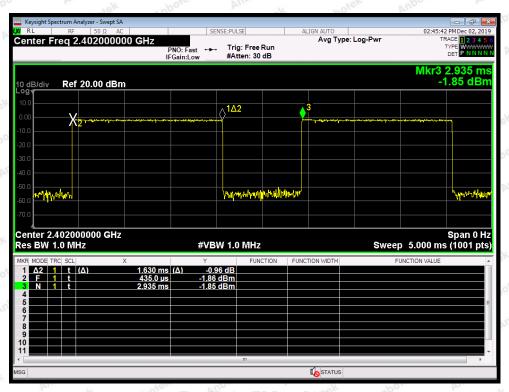
Test Mode: BDR---DH5



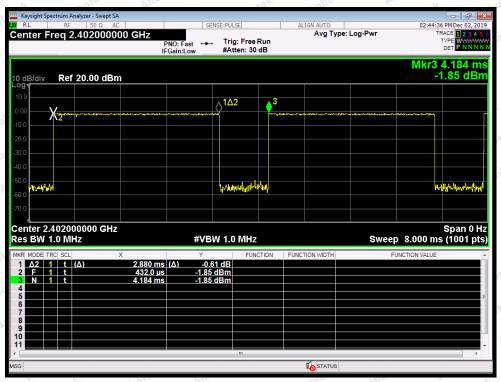
Test Mode: EDR---3DH1



Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 42 of 57



Test Mode: EDR---3DH3



Test Mode: EDR---3DH5



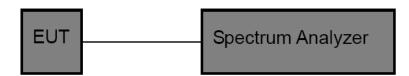
Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 43 of 57

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 : 21.9° C Test Result : PASS Humidity : 50° RH

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

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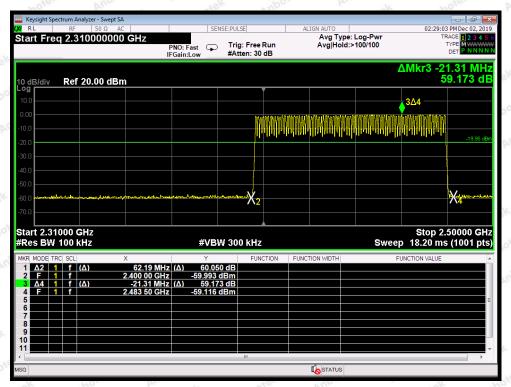




FCC ID: 2AANZ1511

Page 44 of 57

For Hopping Mode



BDR mode



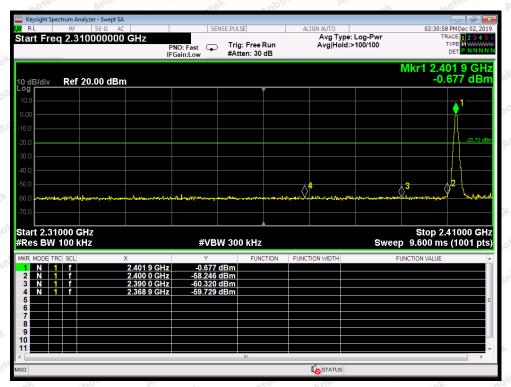
EDR mode



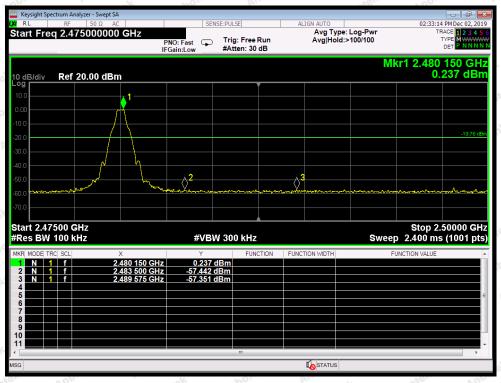
FCC ID: 2AANZ1511

Page 45 of 57

For Non-Hopping Mode



BDR mode -- Lowest



BDR mode -- Highest

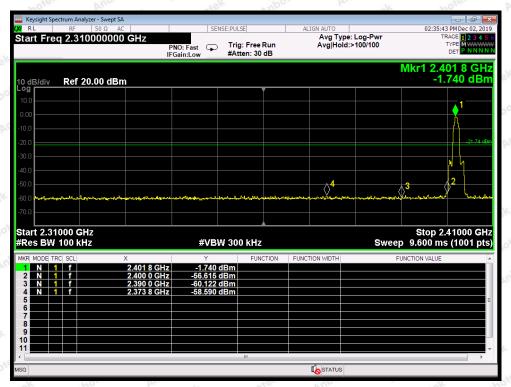
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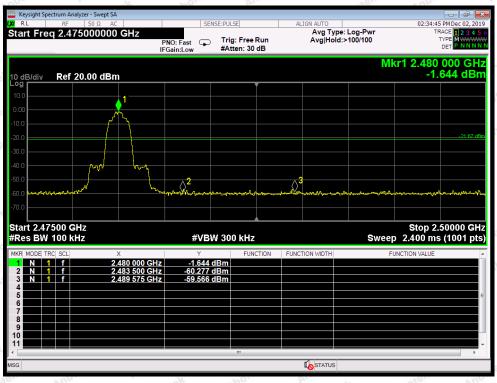
FCC ID: 2AANZ1511

Page 46 of 57

For Non-Hopping Mode



EDR mode -- Lowest



EDR mode -- Highest



Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 47 of 57 Conducted Emission Method Avg Type: Log-Pwr Avg/Hold: 6/100 Avg Type: Log-Pwr Avg/Hold: 5/100 0: Fast Trig: Free Run 0: Fast Trig: Free Run Stop 25.00 GHz Sweep 2.386 s (1001 pts) Start 0.03 GHz #Res BW 100 kHz -2.992 dE -44.631 dE Test Mode: BDR---Low Test Mode: BDR---Mid Start Freq 30.000000 MHz Start Freq 30.000000 MHz Avg Type: Log-Pwr Avg/Hold: 16/100 Avg Type: Log-Pwr Avg/Hold: 6/100 iii: Free Run NO: Fast Trig: Free Run Ref 20.00 dBr Test Mode: BDR---High Test Mode: EDR---Low Avg Type: Log-Pwr Avg/Hold: 3/100 Avg Type: Log-Pwr Avg/Hold: 8/100 Fast Trig: Free Run Low #Atten: 30 dB Fast Trig: Free Run Low #Atten: 30 dB Ref 20.00 dBm Ref 20.00 dBn

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Test Mode: EDR---Mid

Code: AB-RF-05-a

Test Mode: EDR---High



Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 48 of 57

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 -0.58 dBi. It complies with the standard requirement.



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Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 49 of 57

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test





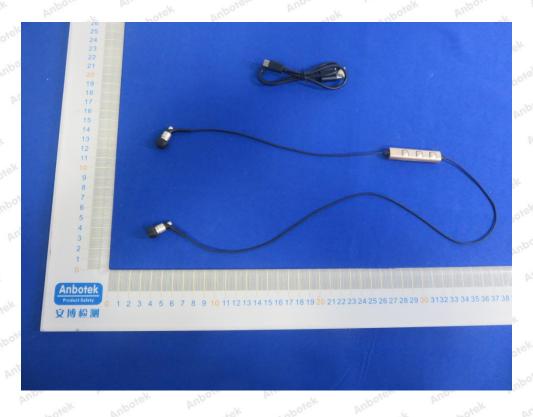
Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 50 of 57





Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 51 of 57

APPENDIX II -- EXTERNAL PHOTOGRAPH

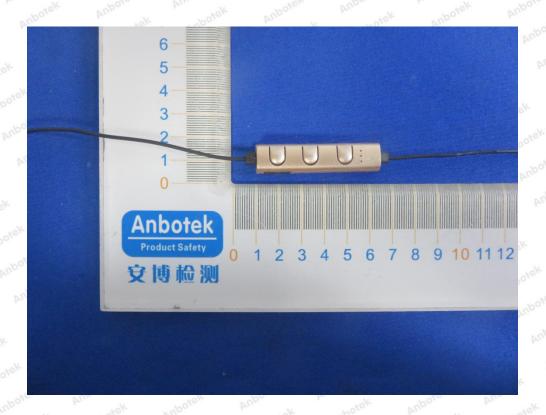


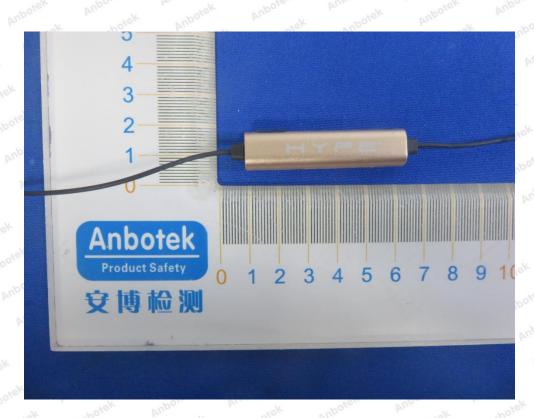


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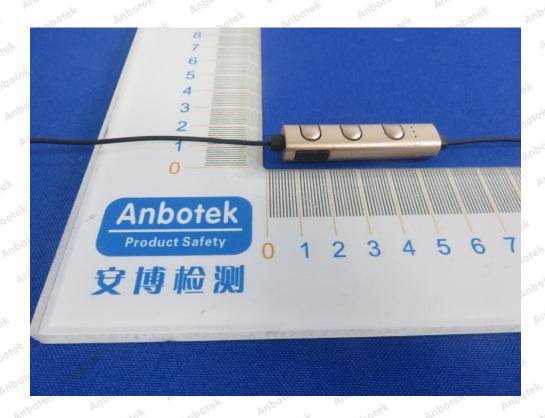
Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 52 of 57

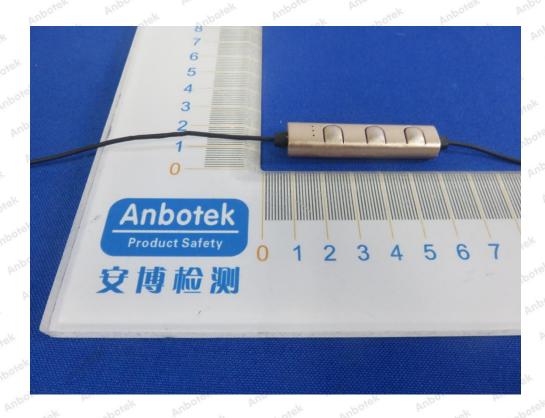






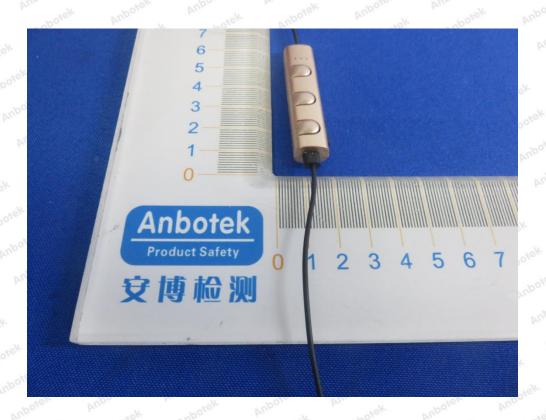
Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 53 of 57

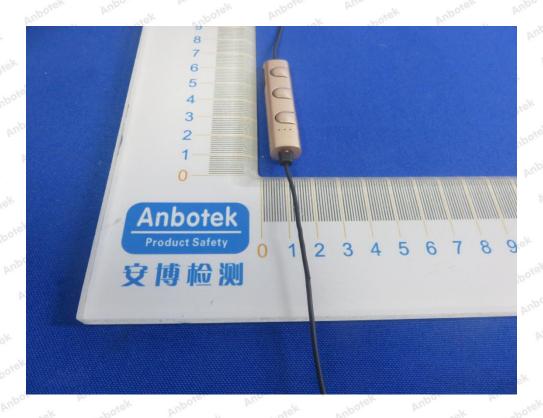






Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 54 of 57







Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 55 of 57

APPENDIX III -- INTERNAL PHOTOGRAPH







Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 56 of 57





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Report No.: SZAWW191130004-01 FCC ID: 2AANZ1511 Page 57 of 57



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