

Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 1 of 56

FCC TEST REPORT

Client Name : Shenzhen Oceantech Electronics Co., Ltd

Baoan Zhigu Science and Technology Park, Yintian

Address : Road, Xixiang Street, Bao'an District, Shenzhen,

Guangdong, China

Product Name : Bluetooth Speaker

Date : Jul. 24, 2017

Shenzhen Anbotek Compliance Laboratory Limited



FCC ID: 2AJ5Q-OS447

Page 2 of 56

Contents

1. General illioittialion			
1.1. Client Information	Upo. Pr.		And G
1.2. Description of Device (EUT) 1.3. Auxiliary Equipment Used During Test	pobote Anu	And the state of t	Anbor
1.3. Auxiliary Equipment Used During Test	Mootel Anbe		600 ter
1.4 Description of Test Modes			v otel
1.5. List of channels	Yun,	hotek Anbo	
1.6. Description Of Test Setup	tek Aupo	b. arek	bote. And E
1.7. Test Equipment List 1.8. Measurement Uncertainty 1.9. Description of Test Facility	atek Anbote	Yun Tak	upotek M
1.8. Measurement Uncertainty	"poten	Anbo	10
1.9. Description of Test Facility	Anbo	lek Yupoje,	10
3. Conducted Emission Test	phote ^k Ar	,00°	12
3.1. Test Standard and Limit		Wipote, Wur	12
3.2. Test Setup	P.L.	potek An	12
3.3. Test Procedure	poten Anbe	r Ofek	12
3.4. Test Data	Anbore Anbore	Vu. Yek	12
3.3. Test Procedure	by, seek	er Anbr	15
4.1. Test Standard and Limit	Anv	ootek Anbore	15
4.1. Test Standard and Limit4.2. Test Setup	Aupor An	ntek sobot	15
4.3. Test Procedure	ek vilpore,	Vun.	16
4.4. Test Data		Aupo. Air	17
4.2. Test Setup	oo. bo.	Anbote	25
5.1. Test Standard and Limit	Anbole Ann	sk ahotek	Anbox
5.2. Test Setup	, botek Anbu	N. Otek	25
5.3. Test Procedure		ote Ann	25
5.4. Test Data	Yu. Yok	obotek Anbo	25
6. 20DB Occupy Bandwidth Test	Ve VUDA	Put	29
6.1. Test Standard	otek Anbor	Vi.	29
6.2. Test Setup	tek mboten	Anbo	29
6.3. Test Procedure	Anu tak ipote	k Anbor	29
6.4. Test Data	Aupo. Au	otek onboter	29
7. Carrier Frequency Separation Test	Ant Ant	³ / _{Odi}	
7.1. Test Standard and Limit	N. hotek	Nupo	otek
7.2. Test Setup	b. Stok	Anbotes And	33
7.3. Test Procedure	,ore 100	hotek	33
7.4. Test Data	obotek Anbo	b. Otok	33
8. Number of Hopping Channel Test	notek Anbote	Vun.	37
8.1. Test Standard and Limit	VII.	oten Anbo	37
6.2. Test Setup	Anbr. K	sotek Anbote	37
nzhon Anhatak Camplianaa Laharatary Limitad		Code	·AR DE 05 a



Report No.: SZAWW190710002-01	FCC ID: 2AJ	5Q-OS447	Page 3 o	f 56
8.3. Test Procedure			10.4 · · · · · · · · · · · · · · · · · · ·	37
8.4. Test Data	Vpo. Villagek	A CONTA	" upotek	37
9. Dwell Time Test	Anbor Air	ik supoter	Anbor	39
9. Dwell Time Test 9.1. Test Standard and Limit	abote. And	W. Colek	Anbore	39
9.2. Test Setup	hotek Ant	lor. VIII.	hoten	39
9.3. Test Procedure	br. Fek	And And		39
9.2. Test Standard and Limit	Anb.	botek Anbo	Prince	39
10. 100kHz Bandwidth of Frequency Band E	dge Requirement	bu. Wek	ipoter And	43
10.1. Test Standard and Limit	otek vupo.	by.	hoter p	43
10.2. Test Setup	Vun.	Aupo.	b.,	43
10.2. Test Setup 10.3. Test Procedure	Vupo. V	otek Anboten	Anb	43
10.4. Test Data	Anbore, Anv	k	Anbo	43
11. Antenna Requirement	ex	Wpo. W.	ek sibote	48
11.1. Test Standard and Requirement	w. otek	Anbore. And	'dYa,	48
11.2. Antenna Connected Construction			(po-	
APPENDIX I TEST SETUP PHOTOGRAPI	Habotek Anbo	4 Ar atek		
APPENDIX II EXTERNAL PHOTOGRAPH				51
APPENDIX III INTERNAL PHOTOGRAPH		otek Anbo	Pr. Stek	5/1



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 4 of 56

TEST REPORT

Applicant Shenzhen Oceantech Electronics Co., Ltd

Manufacturer Shenzhen Oceantech Electronics Co., Ltd

Product Name Bluetooth Speaker

Model No. OS-447, UB S032B, UB S036B

Trade Mark

Rating(s) Input: DC 5V, 1A(With DC 3.7V, 1200 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 Jul. 10, 2019 Jul. 10~19, 2019 Date of Test Compliance (a) Anbotek Prepared by (Engineer / Dolly Mo) * Approved * Drowy Reviewer (Supervisor / Snowy Meng) Approved & Authorized Signer (Manager / Sally Zhang)



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 5 of 56

1. General Information

1.1. Client Information

Applicant	: Shenzhen Oceantech Electronics Co., Ltd
Address	Baoan Zhigu Science and Technology Park, Yintian Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China
Manufacturer	: Shenzhen Oceantech Electronics Co., Ltd
Address	Baoan Zhigu Science and Technology Park, Yintian Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China
Factory	: Shenzhen Oceantech Electronics Co., Ltd
Address	Baoan Zhigu Science and Technology Park, Yintian Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

1.2. Description of Device (EUT)

Product Name	Bluetooth Speaker
Model No.	OS-447, UB S032B, UB S036B (Note: All samples are the same except the model name, so we prepare "OS-447" for test only.)
Trade Mark	N.A. And Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	AC 120V, 60Hz for adapter 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, л/4-DQPSK, 8-DPSK
	Antenna Type: PCB Antenna
	Antenna Gain(Peak): 0 dBi

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





Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 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
	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.

Mode 1	ak Anbote And botek	CH00	o. Arek	Anbotek Anbotes Anb
Mode 2	GFSK	CH39	anbo otek	Anbotek Anbote Anu
Mode 3	Anbotek Anbot Air	CH78	Anna	Anbotek Anbote A
Mode 4	Anbotek Anbo otek	CH00	K And hot	ek Anbotek Anbote
Mode 5	π/4-DQPSK	CH39	Lak And	TX+Charging/TX Only
Mode 6	k Anboten Anbotek	CH78	or by	abotek Anbotek Anbo
Mode 7	otek Anbore Ant botek	CH00	inpo.	Anbotek Anboten Anb
Mode 8	8-DPSK	CH39	Anbo	Anbotek Anbotes A
Mode 9	Anbotek Anbote An	CH78	Anbo	k Anbotek Anbote

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.



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 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	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 Ant	2463	78	2480
11.00°	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	310010	2433	48	2450	65	2467		botek
15	2417	32	2434	49	2451	66	2468		
16	2418	33	2435	50	2452	67	2469		A11

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.

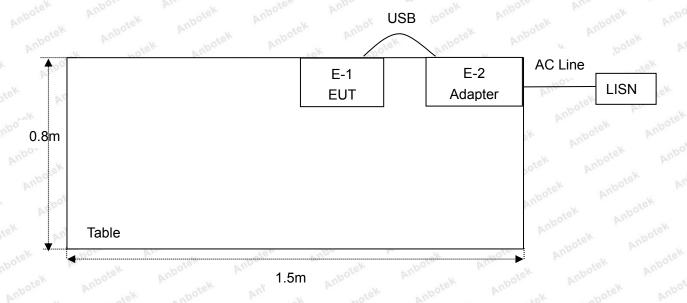


FCC ID: 2AJ5Q-OS447

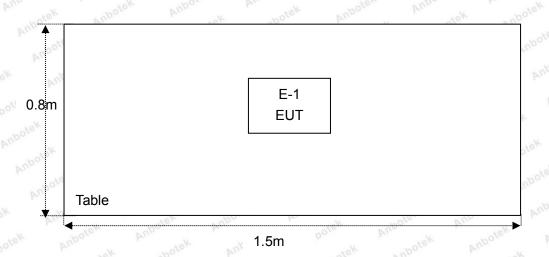
Page 8 of 56

1.6. Description Of Test Setup

CE



RE





1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
nb9tek	L.I.S.N. Artificial Mains	Rohde & Schwarz	ENV216	100055	Nov. 26, 2018	Interval 1 Year
2.	Network EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 05, 2018	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 05, 2018	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 05, 2018	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
6 _{kn} k	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 05, 2018	1 Year
_{te} _k 7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2018	1 Year
/p°8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 20, 2018	1 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 20, 2018	1 Year
e [¥] 11.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 05, 2018	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 05, 2018	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 05, 2018	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 05, 2018	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 05, 2018	1 Year
19.	DC Power Supply	LW	TPR-6420D	374470	Oct. 31, 2018	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Nov. 01, 2018	1 Year

Code: AB-RF-05-a

400-003-0500 www.anbotek.com



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 10 of 56

1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	ipo otek vi	ibotek Ar	Pole, Vun
		Ur = 3.8 dB (Vertical)	And		Ambore Ar
		Anbotek Anbote	Ann	Anbotek	Anbor
Conduction Uncertainty	:	Uc = 3.4 dB	ek Ans	Anbotek	Anbo.

1.9. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 30, 2018.

ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, March 07, 2019.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 11 of 56

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



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS44

3. Conducted Emission Test

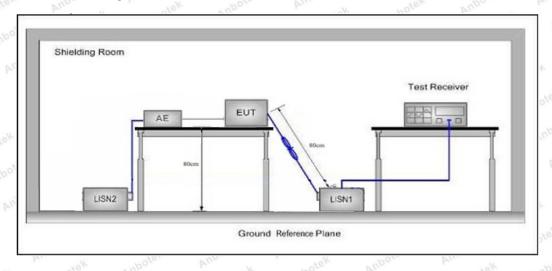
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.2	07 Anbole And Lokek	Anbotek Anbot A		
Test Limit	Fraguenay	Maximum RF L	ine Voltage (dBuV)		
	Frequency	Quasi-peak Level	Average Level		
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *		
	500kHz~5MHz	56 Mark	46		
	5MHz~30MHz	Anbotek 60 Anbot	Andrew 50 Andrew Ar		

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

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

3.2. Test Setup



3.3. Test Procedure

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

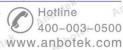
The bandwidth of test receiver (ESCI) set at 9kHz.

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

3.4. Test Data

During the test, pre-scan the GFSK, π/4QPSK, 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.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 13 of 56

Conducted Emission Test Data

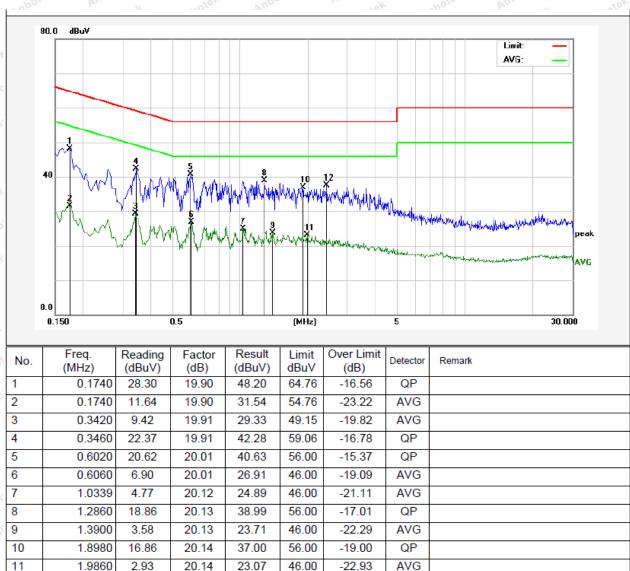
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 23.4℃ Hum.: 56%



17.32

37.47

20.15

56.00

-18.53

QP

2.4219

12



Conducted Emission Test Data

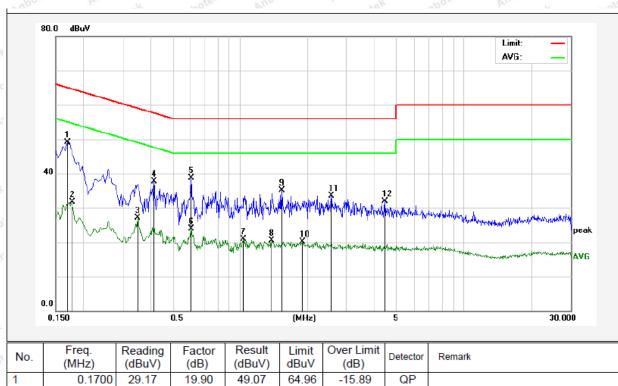
Test Site: 1# Shielded Room

Mode 1 **Operating Condition:**

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 23.4℃ Hum.: 56%



N	lo.	(MHz)	(dBuV)	(dB)	(dBuV)	dBuV	(dB)	Detector	Remark
1		0.1700	29.17	19.90	49.07	64.96	-15.89	QP	
2		0.1780	11.78	19.90	31.68	54.57	-22.89	AVG	
3		0.3500	7.18	19.91	27.09	48.96	-21.87	AVG	
4		0.4140	17.76	19.94	37.70	57.57	-19.87	QP	
5		0.6060	18.75	20.01	38.76	56.00	-17.24	QP	
6		0.6060	3.96	20.01	23.97	46.00	-22.03	AVG	
7		1.0420	0.76	20.12	20.88	46.00	-25.12	AVG	
8		1.3860	0.35	20.13	20.48	46.00	-25.52	AVG	
9		1.5420	15.03	20.13	35.16	56.00	-20.84	QP	
10)	1.9060	-0.02	20.14	20.12	46.00	-25.88	AVG	
11	I	2.5620	13.41	20.15	33.56	56.00	-22.44	QP	
12	2	4.4340	11.65	20.19	31.84	56.00	-24.16	QP	

Code: AB-RF-05-a

400-003-0500



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15	Vi. Potek	Anbotek	Anbo	
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	nbotek Ant	oto. Aur	300
	0.490MHz-1.705MHz	24000/F(kHz)	Anbotek	Yupoto VL	30
	1.705MHz-30MHz	30	Anbotek	Anbore Lok	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3 tek
	88MHz~216MHz	150	43.5	Quasi-peak	ak 3 botek
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Alexand 4000MI	500	54.0	Average	3
	Above 1000MHz	Anbotek - Anbote	74.0	Peak	Anba 3 tek

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

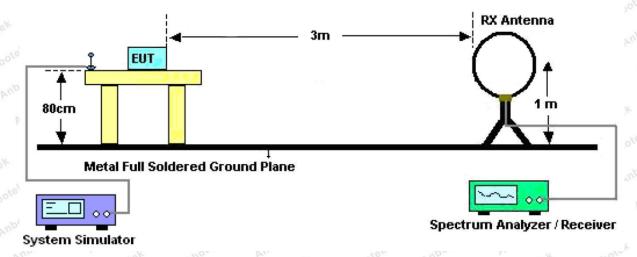


Figure 1. Below 30MHz



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 16 of 56

Ant. feed point

Metal Full Soldered Ground Plane

System Simulator

Spectrum Analyzer / Receiver

Figure 2. 30MHz to 1GHz

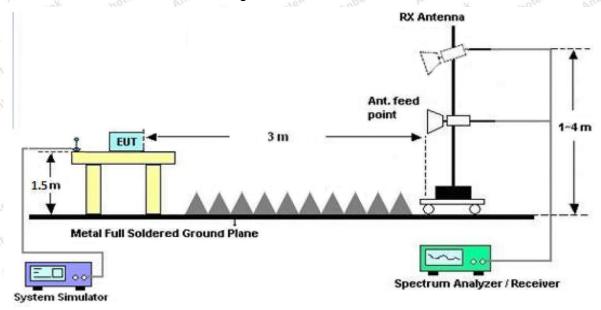


Figure 3. Above 1 GHz

4.3. Test Procedure

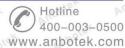
For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

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.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 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.



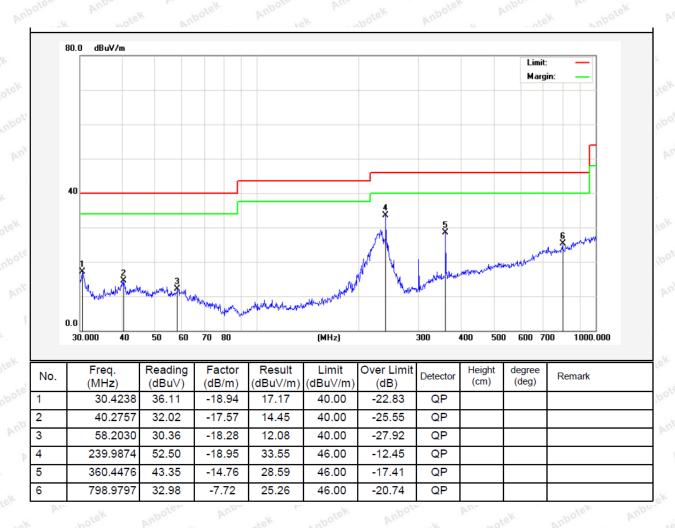
Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 18 of 56

Test Results (30~1000MHz)

Job No.: SZAWW190710002-01 Temp.(°C)/Hum.(%RH): 24.9°C/51%RH

Standard: FCC PART 15C Power Source: DC 3.7V Battery inside

Test Mode: Mode 2 Polarization: Horizontal





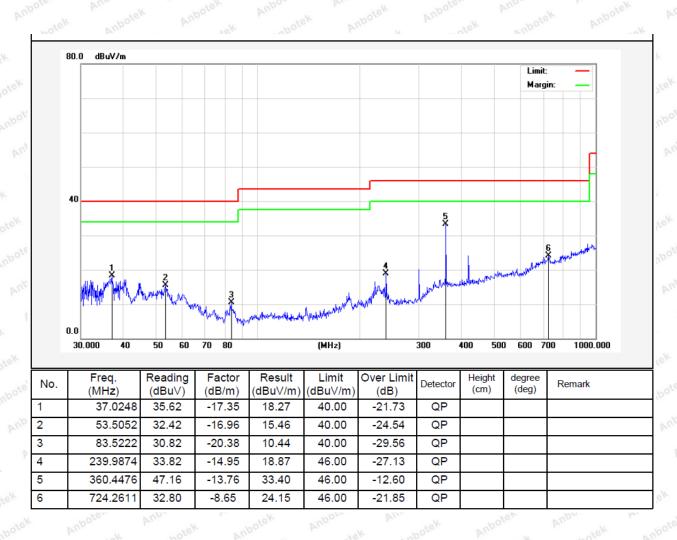
Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 19 of 56

Test Results (30~1000MHz)

Job No.: SZAWW190710002-01 Temp.(°C)/Hum.(%RH): 24.9°C/51%RH

FCC PART 15C Standard: Power Source: DC 3.7V Battery inside

Test Mode: Mode 2 Vertical Polarization:





Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 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	41.00	34.04	6.58	34.09	47.53	74.00	-26.47	No VK
7206.00	34.28	37.11	7.73	34.50	44.62	74.00	-29.38	V
9608.00	33.65	39.31	9.23	34.79	47.40	74.00	-26.60	V
12010.00	* And	olek L	anbotek.	Anboto	An hotek	74.00	Vupo.	V
14412.00	boter * A	upo stek	, nbotek	Anboten	k And	74.00	Anbox	V
4804.00	46.03	34.04	6.58	34.09	52.56	74.00	-21.44	H
7206.00	36.36	37.11	7.73	34.50	46.70	74.00	-27.30	H upon
9608.00	33.42	39.31	9.23	34.79	47.17	74.00	-26.83	VUP.
12010.00	ek * Anbo	lek Vi	bo. b.	abotek	Aupole	74.00	Anbotek	H
14412.00	notek * Ar	botek	Aupor	nbotek	Anbotek	74.00	Anbote	Н
			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	29.11	34.04	6.58	34.09	35.64	54.00	-18.36	V
7206.00	22.55	37.11	7.73	34.50	32.89	54.00	-21.11	V
9608.00	21.39	39.31	9.23	34.79	35.14	54.00	-18.86	V
12010.00	Anbote*	Anbo	nbotek	Anbore	K Ant	54.00	ok Vupe	V
14412.00	Anb*tek	Aupo	ok whole	ak Anb	ice. And	54.00	ootek A	V
4804.00	33.75	34.04	6.58	34.09	40.28	54.00	-13.72	Pubor.
7206.00	24.96	37.11	7.73	34.50	35.30	54.00	-18.70	H
9608.00	21.43	39.31	9.23	34.79	35.18	54.00	-18.82	Н
12010.00	hotel*	Anbotek	Pupor-	A. abotek	Anbotek	54.00	K NDC	iek H
14412.00	YUR *FEK	nbotek	Aupor	K NC	lek Anbo	54.00	rek	botek



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 21 of 56

Test Results (1GHz-25GHz)

Test Mode:	CH39			Test	channel: Mic	ldle		
			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	37.87	34.38	6.69	34.09	44.85	74.00	-29.15	NooV ^K
7323.00	32.20	37.22	7.78	34.53	42.67	74.00	-31.33	V
9764.00	31.80	39.46	9.35	34.80	45.81	74.00	-28.19	V
12205.00	* Anb	otek k	anbotek	Anbote	Ann	74.00	Vupo.	V
14646.00	hotel * A	1pa	A abotek	Anboten	k Anti-	74.00	Anbox	V
4882.00	42.27	34.38	6.69	34.09	49.25	74.00	-24.75	H
7323.00	34.01	37.22	7.78	34.53	44.48	74.00	-29.52	H
9764.00	31.28	39.46	9.35	34.80	45.29	74.00	-28.71	Anbo
12205.00	ek * Anbo	lek Vi	bor b	abotek	Anboren	74.00	Anbotek	HS
14646.00	cotek *	botek	Pupor Fek	abotek	Anboren	74.00	anbote	Н
4.0.1			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	26.59	34.38	6.69	34.09	33.57	54.00	-20.43	V
7323.00	20.84	37.22	7.78	34.53	31.31	54.00	-22.69	V
9764.00	19.88	39.46	9.35	34.80	33.89	54.00	-20.11	V
12205.00	Anbotek	Aupor	A nbotek	Aupote.	Y Amb	54.00	ek Pupe	V
14646.00	Anb*tek	Aupor	ok aboti	Anb	Yes Yup	54.00	ootek A	V
4882.00	30.88	34.38	6.69	34.09	37.86	54.00	-16.14	Pubon
7323.00	23.05	37.22	7.78	34.53	33.52	54.00	-20.48	H
9764.00	19.66	39.46	9.35	34.80	33.67	54.00	-20.33	Н
12205.00	otel*	Vupotek	Aupore	hotek	Anbotek	54.00	N 200	iek H
14646.00	*ek	abotek	Aupore	r bur	lek Anbo	54.00	rak by	botek



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 22 of 56

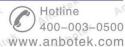
Test Results (1GHz-25GHz)

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	35.16	34.72	6.79	34.09	42.58	74.00	-31.42	NOOAK
7440.00	30.41	37.34	7.82	34.57	41.00	74.00	-33.00	V
9920.00	30.20	39.62	9.46	34.81	44.47	74.00	-29.53	V
12400.00	* And	16K	Anbotek	Anboten	Ann hotek	74.00	Aupor	V
14880.00	hotel * A	upo rek	A abotek	Anboten	k Ann	74.00	Aupor	V
4960.00	39.01	34.72	6.79	34.09	46.43	74.00	-27.57	H
7440.00	31.97	37.34	7.82	34.57	42.56	74.00	-31.44	'uporo
9920.00	29.42	39.62	9.46	34.81	43.69	74.00	-30.31	Vupo,
12400.00	ek * Anbo	lek Vi	bo. b.	abotek	Anboren	74.00	Anbotek	Huj
14880.00	notek * Ar	botek	Aupor	nbotek	Anboten	74.00	anbote	Н
			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.
4960.00	24.40	34.72	6.79	34.09	31.82	54.00	-22.18	V
7440.00	19.35	37.34	7.82	34.57	29.94	54.00	-24.06	V
9920.00	18.56	39.62	9.46	34.81	32.83	54.00	-21.17	V
12400.00	Anbote*	Aupo ofek	nbotek	Anbore	K Ant	54.00	ok Anbe	V
14880.00	Anb*tek	Aupor	ok abot	Anb	k Vun	54.00	ootek A	V
4960.00	28.39	34.72	6.79	34.09	35.81	54.00	-18.19	MUPOL
7440.00	21.38	37.34	7.82	34.57	31.97	54.00	-22.03	H_{p}
9920.00	18.11	39.62	9.46	34.81	32.38	54.00	-21.62	Н
12400.00	notel*	Anbotek	Pupor.	An abotek	Anboter	54.00	sk vupo	isk H
14880.00	YUP * SK	hotek	Anbote	A Day	lek Aupo	54.00	rek.	botek

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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FCC ID: 2AJ5Q-OS447

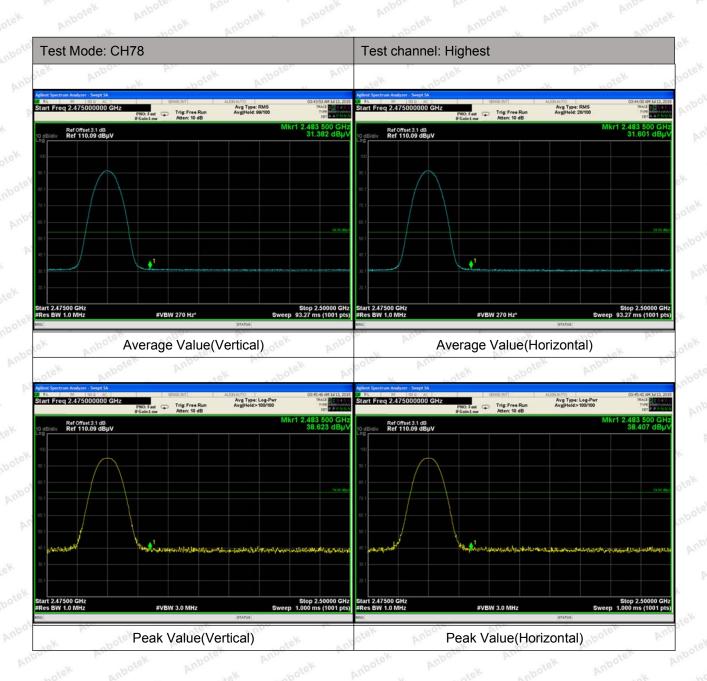
Page 23 of 56

Radiated Band Edge:





Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 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



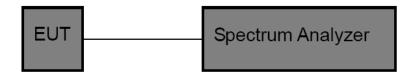
Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 25 of 56

5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15	C Section 15.	247 (b)(3)	Anboatek	nbotek	Anbore	D.C.
Test Limit	125mW	A. abotek	Anboten	Anbo	Anbotek	Anbort	V-

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 ≥ 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	:	22.6℃
T (D)(DA COM	1.1		VEAN DILL STORY

Channel Frequency	Peak Power output	Limit	Deculto	Modulation	
(MHz)	(dBm)	(dBm)	Results	Modulation	
2402	-0.416	20.96	PASS	BDR	
2441	-0.670	20.96	PASS	BDR BDR	
2480	1.830	20.96	PASS	BDR Moote	
2402	-0.977	20.96	PASS	EDR	
2441	-1.390	20.96	PASS	EDR	
2480	0.945	20.96	PASS	EDR	

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

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FCC ID: 2AJ5Q-OS447

Page 26 of 56



Test Mode: BDR---Low



Test Mode: BDR---Middle



FCC ID: 2AJ5Q-OS447

Page 27 of 56



Test Mode: BDR---High

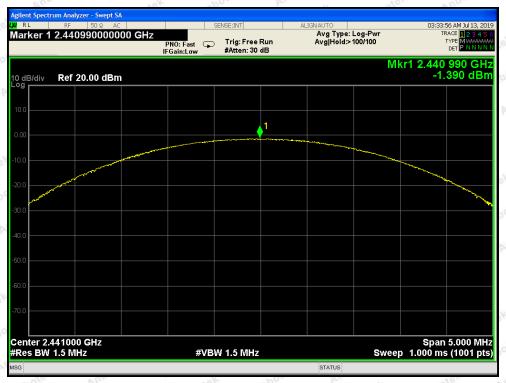


Test Mode: EDR---Low

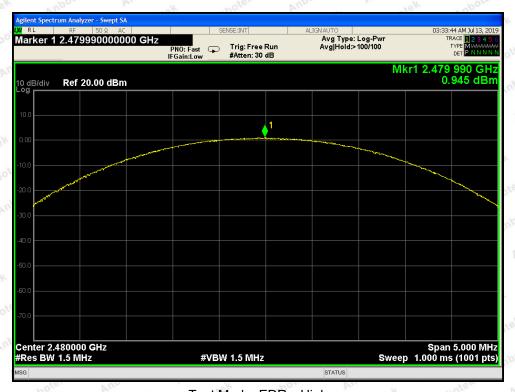


FCC ID: 2AJ5Q-OS447

Page 28 of 56



Test Mode: EDR---Middle



Test Mode: EDR---High



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 29 of 56

6. 20DB Occupy Bandwidth Test

6.1. Test Standard

Test Standard FCC Part15 C Section 15.247 (a)(1)

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 : 22.6° C Test Result : PASS Humidity : 51%RH

Channel	Frequency(MHz)	20dB Down BW(kHz)	Modulation Mode
Low Manage	2402	927.1	BDR
Middle	2441	935.9	Anbote BDR BDR
High	2480	936.0	BDR
Low	2402	1271.0	EDR
Middle	2441	1266.0	EDR
nbotek High nbote	2480	1267.0	EDR

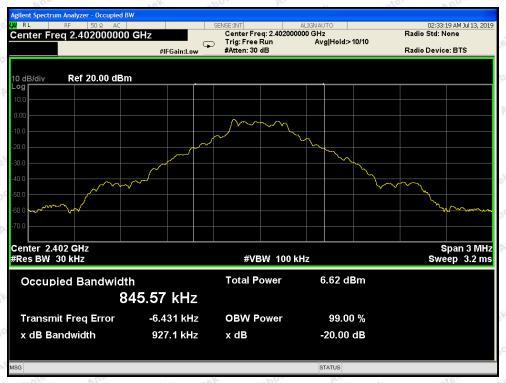
Remark: The EDR was tested on $(\pi/4DQPSK, 8DPSK)$ modes, only the worst data of (8DPSK) is attached in the following pages







FCC ID: 2AJ5Q-OS447 Report No.: SZAWW190710002-01 Page 30 of 56



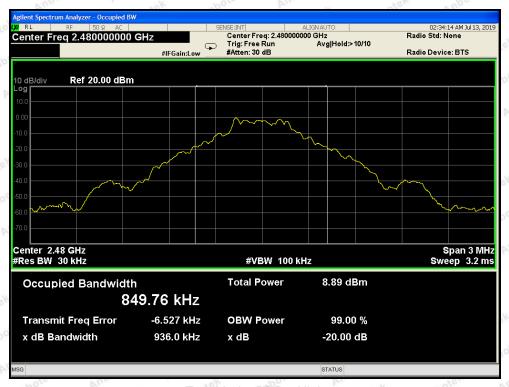
Test Mode: BDR---Low



Test Mode: BDR---Middle



FCC ID: 2AJ5Q-OS447 Report No.: SZAWW190710002-01 Page 31 of 56



Test Mode: BDR---High



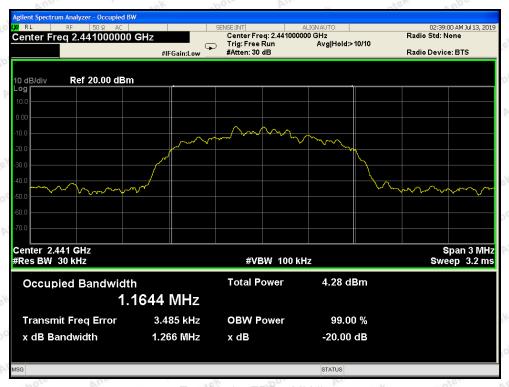
Test Mode: EDR---Low

Code: AB-RF-05-a

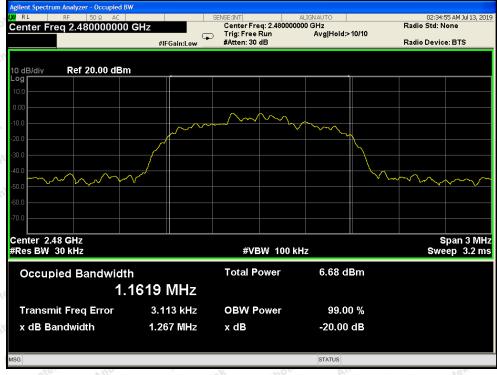
400-003-0500 www.anbotek.com



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 32 of 56



Test Mode: EDR---Middle



Test Mode: EDR---High

Code: AB-RF-05-a

poter (C)



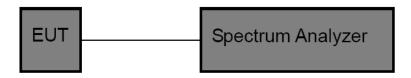
Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 33 of 56

7. Carrier Frequency Separation Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)	Anbotek	Anbor A
Test Limit	>25KHz or >two-thirds of the 20 dB bandwidth	Anbotek	Anbo

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	:	22.6℃
Test Result	:	PASS	Humidity	:	51%RH

Channel	Frequency	Separation Read	Limit	Modulation Mode	
Onamici	(MHz)	Value (kHz)	(kHz)		
Low	2402	1000	927.1	BDR	
Middle	2441	1000	935.9	BDR	
High	2480	1000	936.0	BDR	
Low	2402	1000	847.3	EDR Anbotel	
Middle	2441	1000	844.0	EDR And	
High	2480	1000	844.7	EDR	

Remark: (1)The limit is 2/3 of 20dB BW;

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

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Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 34 of 56



Test Mode: BDR---Low



Test Mode: BDR---Middle



FCC ID: 2AJ5Q-OS447

Page 35 of 56



Test Mode: BDR---High



Test Mode: EDR---Low



FCC ID: 2AJ5Q-OS447

Page 36 of 56



Test Mode: EDR---Middle



Test Mode: EDR---High



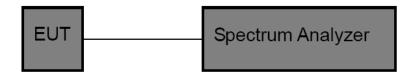
Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 37 of 56

8. Number of Hopping Channel Test

8.1. Test Standard and Limit

Test Standard	FCC Part15 C S	Section 15.2	247 (a)(1)	Anb wotek	Anbotek	Aupor	b.
Test Limit	>15 channels	nbotek	Anbolo	Ans	Anbotek	Anbo	*

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	:	22.6℃
Test Result	:	PASS	Humidity	:	51%RH

Hopping Channel	Quantity of Hopping	Quantity of Hopping	Modulation Mode
Frequency Range	Channel	Channel	Wiodulation Wiode
2402-2480MHz	79 A	>15	BDR
2402-2480MHz	79 botel	>15 note*	EDR

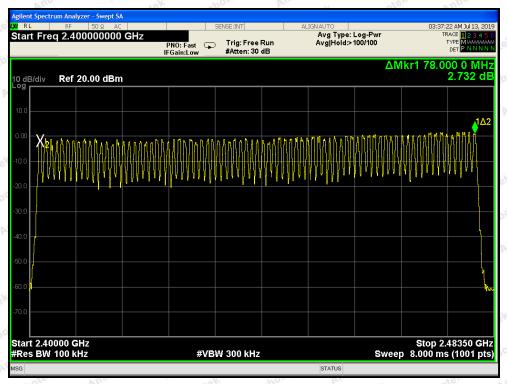
Remark: The EDR was tested on (π /4DQPSK, 8DPSK) modes, only the worst data of (8DPSK) is attached in the following pages

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FCC ID: 2AJ5Q-OS447

Page 38 of 56



BDR Mode



EDR Mode



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS44

9. Dwell Time Test

9.1. Test Standard and Limit

Test Standard	FCC Part15 C	Section 15.2	247 (a)(1)	hotek	Anbotek	Anbor A
Test Limit	0.4 sec	nbotek	Anboro	Ans	Anbotek	Yupo.

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 Mode Test Item Time of Occupancy CH Low ~ CH High

Test Voltage DC 3.7V Battery inside Temperature 22.6℃ Test Result **PASS** Humidity 51%RH

Package Type	Pulse width (ms)	Time slot length(ms)	Dwell time (ms)	Limit (s)	Modulation
DH1	0.374	time slot length *1600/2 /79 * 31.6	119.68	0.4	BDR
DH3	1.630	time slot length *1600/4 /79 * 31.6	260.80	0.4	BDR
DH5	2.880	time slot length *1600/6 /79 * 31.6	307.20	0.4	BDR
3DH1	0.384	time slot length *1600/2 /79 * 31.6	122.88	0.4	EDR DO
3DH3	1.630	time slot length *1600/4 /79 * 31.6	260.80	tek 0.4	otek EDR Amb
3DH5	2.880	time slot length *1600/6 /79 * 31.6	307.20	0.4	EDR

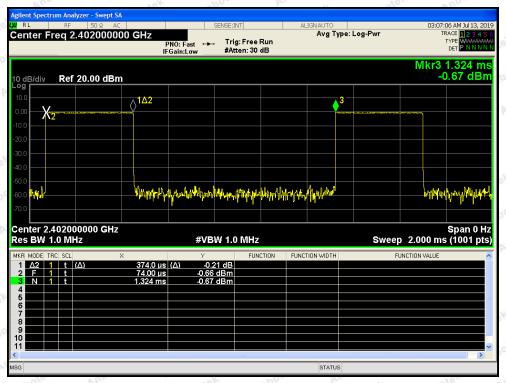
Remark: The EDR was tested on (π/4DQPSK, 8DPSK) modes, only the worst data of (8DPSK) is attached in the following pages

Code: AB-RF-05-a

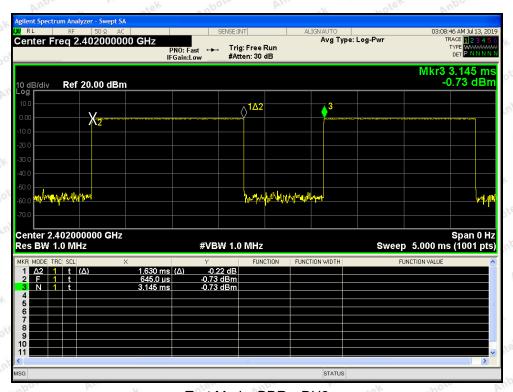
400-003-0500



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 40 of 56



Test Mode: BDR---DH1

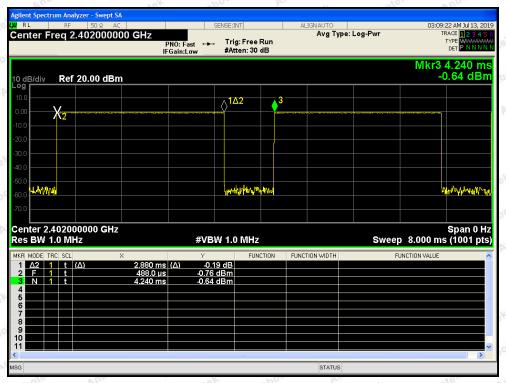


Test Mode: BDR---DH3

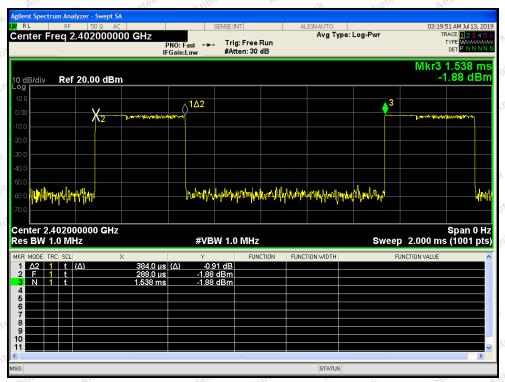
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Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 41 of 56



Test Mode: BDR---DH5



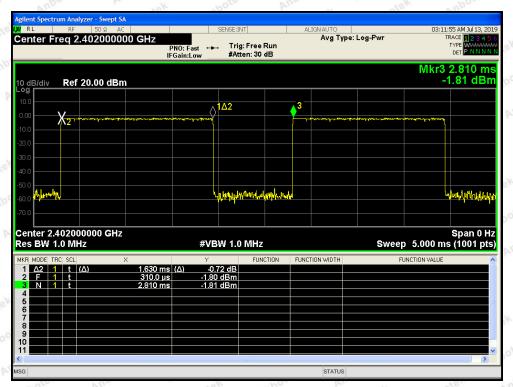
Test Mode: EDR---3DH1

Code: AB-RF-05-a

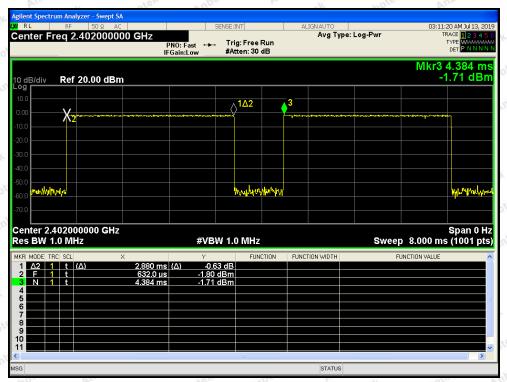
400-003-0500 www.anbotek.com



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 42 of 56



Test Mode: EDR---3DH3



Test Mode: EDR---3DH5



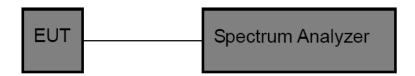
Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 43 of 56

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

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 Test Mode CH Low ~ CH High Band edge DC 3.7V Battery inside 22.6℃ **Test Voltage** Temperature

Test Result PASS Humidity 51%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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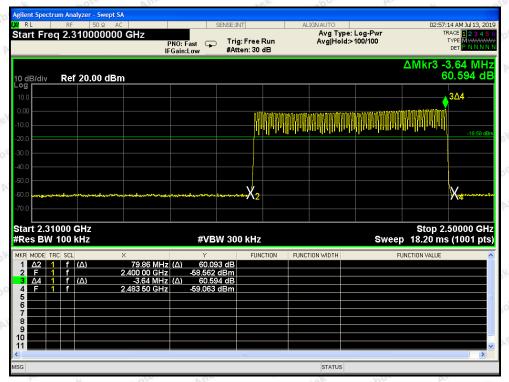




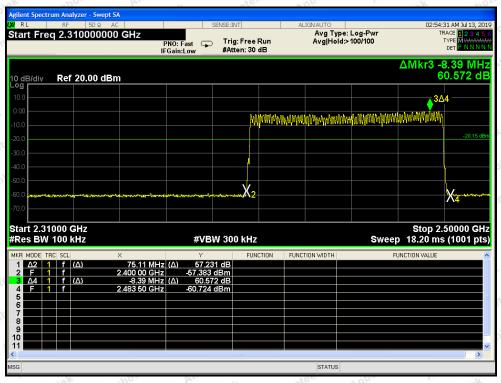
FCC ID: 2AJ5Q-OS447

Page 44 of 56

For Hopping Mode



BDR mode



EDR mode

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Code: AB-RF-05-a

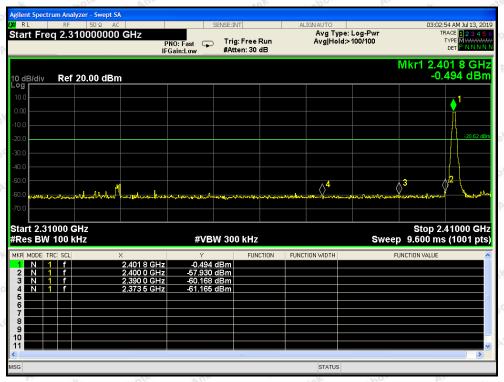
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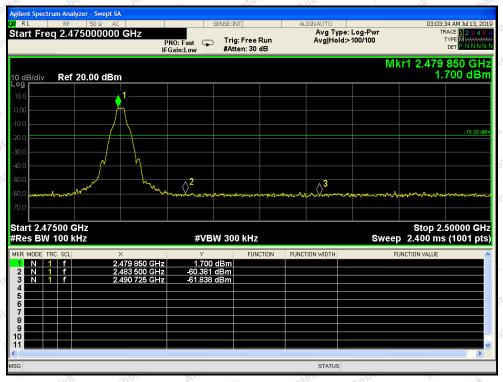
FCC ID: 2AJ5Q-OS447

Page 45 of 56

For Non-Hopping Mode



BDR mode -- Lowest



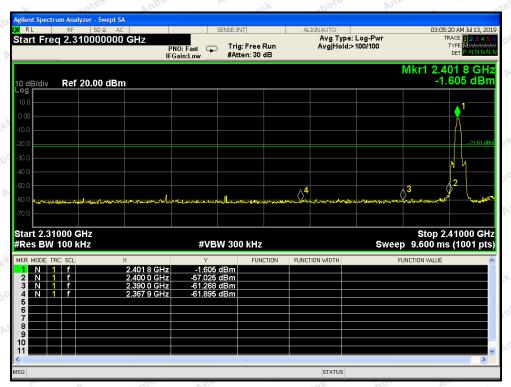
BDR mode -- Highest



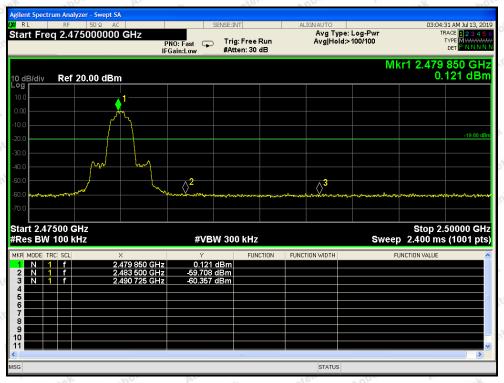
FCC ID: 2AJ5Q-OS447

Page 46 of 56

For Non-Hopping Mode



EDR mode -- Lowest



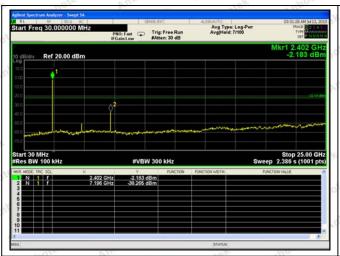
EDR mode -- Highest

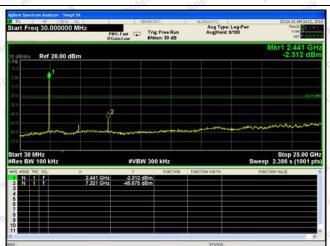


FCC ID: 2AJ5Q-OS447

Page 47 of 56

Conducted Emission Method

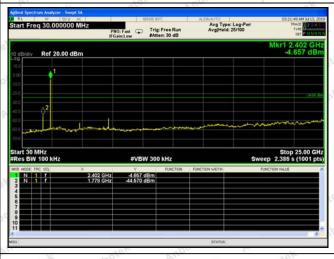




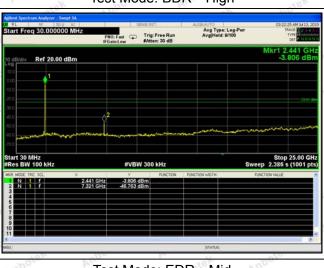
Test Mode: BDR---Low

Start Freq 30.000000 MHz Avg Type: Log-Pwr Avg[Hold: 4/100 NO: Fast Trig: Free Run Ref 20.00 dBr

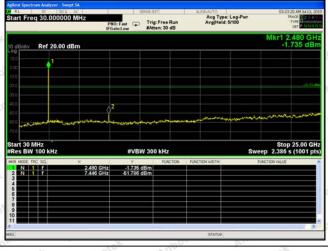
Test Mode: BDR---Mid



Test Mode: BDR---High



Test Mode: EDR---Low



Test Mode: EDR---Mid

Test Mode: EDR---High



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 48 of 56

11. Antenna Requirement

11.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna

11.2. Antenna Connected Construction

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



Shenzhen Anbotek Compliance Laboratory Limited

Hotline 400-003-0500 www.anbotek.com



Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 49 of 56

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test



Code: AB-RF-05-a

1400-003-0500 www.anbotek.com



FCC ID: 2AJ5Q-OS447

Page 50 of 56





Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 51 of 56

APPENDIX II -- EXTERNAL PHOTOGRAPH



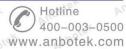


Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

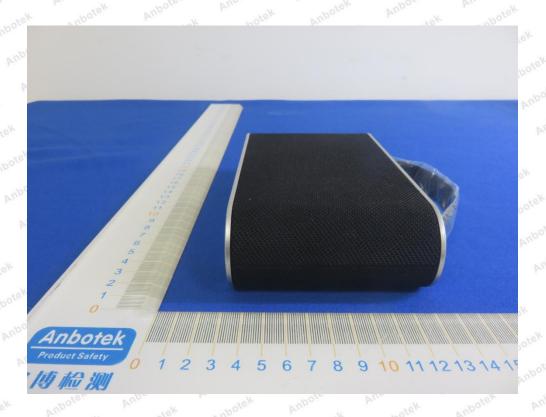
Tel:(86)755–26066440 Fax:(86)755–26014772 Email:service@anbotek.com

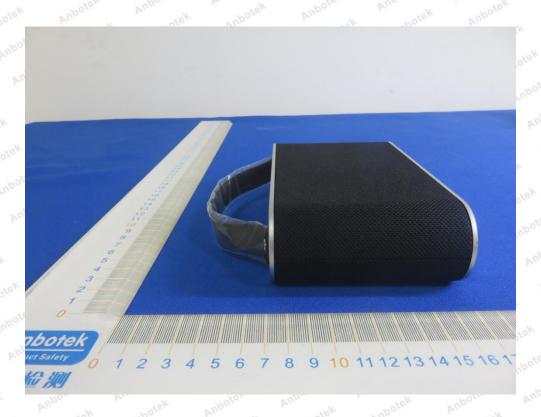






Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 52 of 56

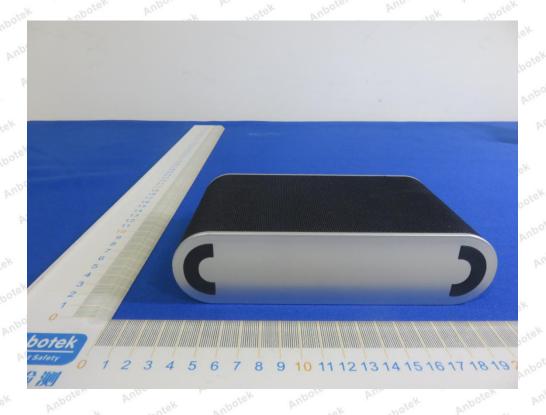


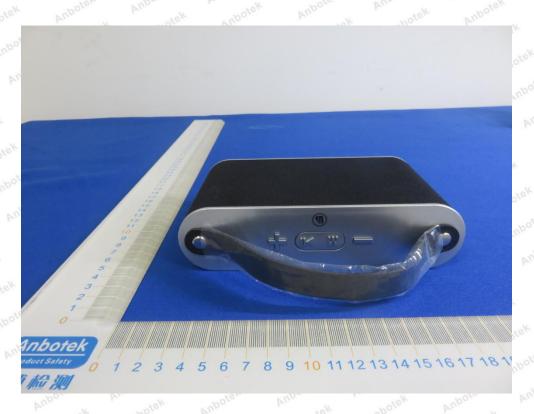




Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447









Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 54 of 56

APPENDIX III -- INTERNAL PHOTOGRAPH







Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 55 of 56

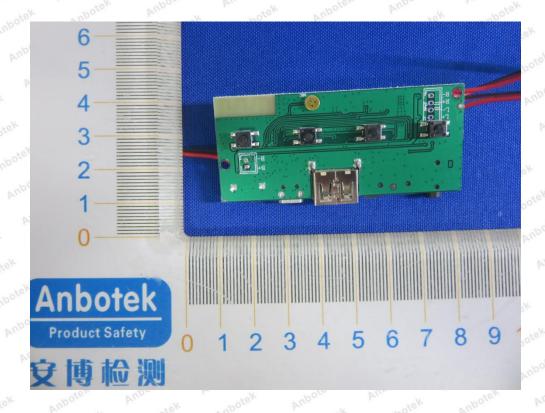




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Report No.: SZAWW190710002-01 FCC ID: 2AJ5Q-OS447 Page 56 of 56



--- End of Report -----