

FCC ID: 2AOMC-BTZ1 Page 1 of 30

## FCC TEST REPORT

Client Name	DONGGUAN CITY BLUEMAN ELECTRONIC TECHNOLOGY CO., LTD.
Address	No. 5, ShunXing 5th Road DaJingTon 2nd Industrial Zone, DaLang Town, Dongguan City, Guangdong Province, China
Product Name	Bluetooth Speaker

Jul. 02, 2017

## Shenzhen Anbotek Compliance Laboratory Limited

### 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

Aup

Date

### Code:AB-RF-05-a



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## TEST REPOR

DONGGUAN CITY BLUEMAN ELECTRONIC TECHNOLOGY CO., LTD.
DONGGUAN CITY BLUEMAN ELECTRONIC TECHNOLOGY CO., LTD.
Bluetooth Speaker
: BT-Z1(main test), BT-Z8A, BT-Z8B, BT-Z9, BT-ZX(X=0-9)
BLUEMAN AND AND AND AND AND AND AND AND AND A
Input: DC 16V, 3A(Via adapter input: AC 100~240V, 50/60Hz; With DC 11.1V, 2200 mAh Battery inside) Wireless Output: 5W USB1 Output: 5V/2.1A Max; USB2 Output: 5V/1A Max

Test Standard(s) Test Method(s)

### FCC Part15 Subpart C 2018, Paragraph 15.209 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.

eK.	Date of Receipt	Jun. 06, 2019
+eK	Date of Test	Jun. 06~19, 2019
Anbote	Prepared By	Jun. 06~19, 2019 obvay arg
	Product Saf	(Engineer / Oliay Yang)
	And Andolek Approv	The set whole the start show
potek	Reviewer	Anboten Anbo ak be a dek abote
		(Supervisor / Snowy Meng)
		Sally zhoung
P	Approved & Authorized Sig	
		(Manager / Sally Zhang)
		anbotek Anbole Ant otek Anbolek Anbor At otek
		Laboratory Limited Code:AB-RF-05-a



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### **1. General Information**

### **1.1. Client Information**

<u> </u>		_
Applicant	: DONGGUAN CITY BLUEMAN ELECTRONIC TECHNOLOGY CO., LTD.	P
Address	No. 5, ShunXing 5th Road DaJingTon 2nd Industrial Zone, DaLang Town, Dongguan City, Guangdong Province, China	3K
Manufacturer	: DONGGUAN CITY BLUEMAN ELECTRONIC TECHNOLOGY CO., LTD.	
Address	No. 5, ShunXing 5th Road DaJingTon 2nd Industrial Zone, DaLang Town, Dongguan City, Guangdong Province, China	Anbo
Factory	: DONGGUAN CITY BLUEMAN ELECTRONIC TECHNOLOGY CO., LTD.	
Address	No. 5, ShunXing 5th Road DaJingTon 2nd Industrial Zone, DaLang Town, Dongguan City, Guangdong Province, China	×

### 1.2. Description of Device (EUT)

Product Name	:	Bluetooth Speaker	Anbotek Anbot All Anbotek Anbotek A											
Model No.	:	not not	A, BT-Z8B, BT-Z9, BT-ZX(X=0-9) e same except the name and the appearance, so we only.)											
Trade Mark	:	BLUEMAN	No. No. No.											
Test Power Supply	:	AC 120V, 60Hz for adapt DC 11.1V Battery inside	C 120V, 60Hz for adapter / AC 240V, 60Hz for adapter/											
Test Sample No.	:	1-2-1(Normal Sample), 1	-2-2(Engineering Sample)											
		Operation Frequency:	BT 4.2 BDR+EDR: 2402~2480MHz Wireless Charging: 111-205KHz											
Product														Transfer Rate:
Description		Number of Channel:	BT 4.2 BDR+EDR: 79 Channels											
		Modulation Type:	BT 4.2 BDR+EDR: GFSK, π/4-DQPSK, 8-DPSK Wireless Charging: ASK											
		Antenna Type:	BT 4.2 BDR+EDR: PCB Antenna Wireless Charging: Inductive loop coil Antenna											
		Antenna Gain(Peak):	BT 4.2 BDR+EDR: 0.5 dBi Wireless Charging: 0 dBi											

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

2) This report is for Wireless Charging module.

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### 1.3. Auxiliary Equipment Used During Test

e			Model: R481-1603000D
0	Adapter 1	-	Input: AC 100-240V~50/60Hz, 1.5A Output: DC 16V=== 3A
C24	Adapter 2	:	Model: DYS650-160300M Input: AC 100-240V~50/60Hz, 1.3A Max Output: DC 16V 3A
e	Adapter 3	:	Model: FJ-SW20171603000D Input: AC 100-240V~50/60Hz, 1.5A Max Output: DC 16V=== 3A
P	Adapter 4	:	Model:BI65-160300-E2 Input: AC 100-240V~50/60Hz, 2A Output: DC 16V=== 3A

### **1.4. Description of Test Modes**

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Full load, Wireless charger module

	For Conducted Emission
Final Test Mode	Description
Mode 1	Full load, Wireless charger module
anboten Anbo	hotek Anbore Ann tek abotek Anbo

	For Radiated Emission
Final Test Mode	Description
Mode 1	Full load, Wireless charger module

Note: (1)Test channel is 0.1259MHz.

(2)All the situation(full load, half load and empty load) has been tested,only the worst situation (full load) was recorded in the report.

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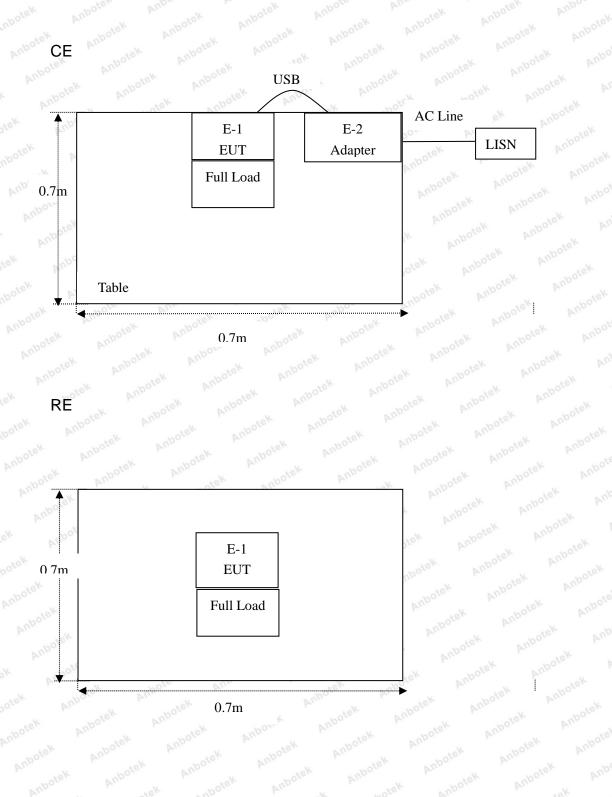
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### 1.5. Description Of Test Setup



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### 1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
unb1.tek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 26, 2018	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 05, 2018	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 05, 2018	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 05, 2018	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
6.,	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 05, 2018	1 Year
, 7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 19, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 19, 2018	1 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 20, 2018	1 Year
¢11.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A Anbo	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 05, 2018	1 Year
14.	Power Sensor	DAER	RPR3006W	15100041SN045	Nov. 05, 2018	1 Year
15.	Power Sensor	DAER	RPR3006W	15100041SN046	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

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### **1.7. Measurement Uncertainty**

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	nbote. And
		Ur = 3.8 dB (Vertical)	Anboic Al
		Anbotek Anbote And hotek Anbotek	Anbor
Conduction Uncertainty	:	Uc = 3.4 dB	Anboutek

### 1.8. Description of Test Facility

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

### FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, July 31, 2017.

### ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

### Test Location

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

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### 2. Summary of Test Results

Standard Section	Test Item	Result		
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS		
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS		
Part 15.203	Antenna Requirement	PASS		

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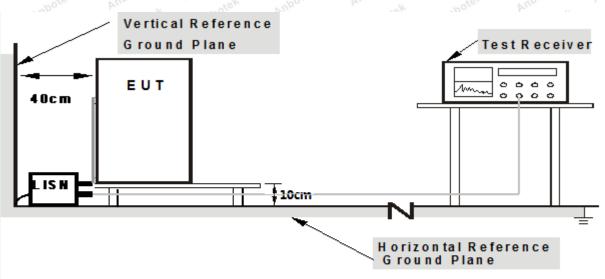
### 3. Conducted Emission Test

### 3.1. Test Standard and Limit

	Frequency	Maximum RF Li	ne Voltage (dBuV)
	Frequency	Quasi-peak Level	Average Level
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60 Anbound	And Lotek 50 Anboten

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

### 3.2. Test Setup



### Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

### 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. Shenzhen Anbotek Compliance Laboratory Limited

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FCC ID: 2AOMC-BTZ1 The frequency range from 150kHz to 30MHz is checked.

### 3.4. Test Data

Please to see the following pages.

During the test, pre-scan all the modes, and found the (AC 120V, 60Hz) which is the worst case, only the worst case is recorded in the report

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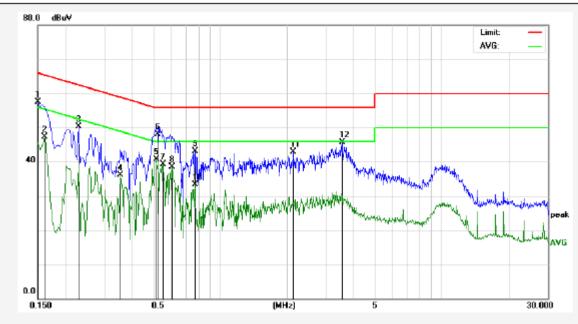
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### **Conducted Emission Test Data**

Test Site:	1# Shielded Room
Operating Condition:	Mode 1
Test Specification:	AC 120V, 60Hz for adapter
Comment:	Live Line
Ant stek subotek	Tem.: 21.9℃ Hum.: 58%

Adapter 1

#### Note:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBu∨	Over Limit (dB)	Detector	Remark
1	0.1500	37.52	19.90	57.42	65.99	-8.57	QP	
2	0.1620	27.46	19.90	47.36	55.36	-8.00	AVG	
3	0.2300	30.46	19.89	50.35	62.45	-12.10	QP	
4	0.3540	16.24	19.91	36.15	48.87	-12.72	AVG	
5	0.5140	20.68	19.98	40.66	46.00	-5.34	AVG	
6	0.5220	28.17	19.99	48.16	56.00	-7.84	QP	
7	0.5540	19.24	20.00	39.24	46.00	-6.76	AVG	
8	0.6060	18.51	20.01	38.52	46.00	-7.48	AVG	
9	0.7700	22.96	20.06	43.02	56.00	-12.98	QP	
10	0.7700	13.32	20.06	33.38	46.00	-12.62	AVG	
11	2.1340	22.75	20.14	42.89	56.00	-13.11	peak	
12	3.5340	25.56	20.17	45.73	56.00	-10.27	QP	

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### Conducted Emission Test Data

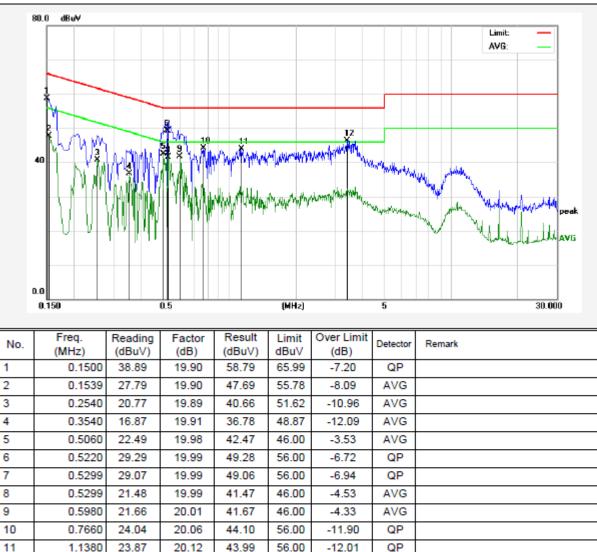
Test Site:	1# Shielded Room
Operating Condition:	Mode 1
Test Specification:	AC 120V, 60Hz for adapter
Comment:	Neutral Line
tek subotek	Tem.: 21.9℃ Hum.: 58%

Adapter 1

### Note:

12

3.4020



### Shenzhen Anbotek Compliance Laboratory Limited

26.14

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20.17

46.31

56.00

-9.69

QP

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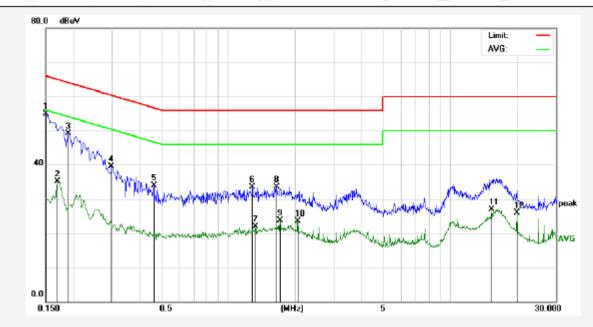
### **Conducted Emission Test Data**

Note:

Test Site:	1# Shielded Room
Operating Condition:	Mode 1
Test Specification:	AC 120V, 60Hz for adapter
Comment:	Live Line
ins stek subotek	Tem.: 21.9°C Hum.: 58%

Adapter 2

#### otek



				-				
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1500	34.94	19.90	54.84	65.99	-11.15	QP	
2	0.1700	15.14	19.90	35.04	54.96	-19.92	AVG	
3	0.1900	29.30	19.90	49.20	64.03	-14.83	QP	
4	0.2980	19.52	19.89	39.41	60.30	-20.89	QP	
5	0.4620	14.01	19.96	33.97	56.66	-22.69	QP	
6	1.2860	13.43	20.13	33.56	56.00	-22.44	QP	
7	1.3300	1.70	20.13	21.83	46.00	-24.17	AVG	
8	1.6620	13.44	20.13	33.57	56.00	-22.43	QP	
9	1.7140	3.59	20.13	23.72	46.00	-22.28	AVG	
10	2.0579	3.35	20.14	23.49	46.00	-22.51	AVG	
11	15.4180	6.69	20.27	26.96	50.00	-23.04	AVG	
12	20.0459	5.63	20.34	25.97	50.00	-24.03	AVG	

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### Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	Mode 1
Test Specification:	AC 120V, 60Hz for adapter
Comment:	Neutral Line
	Tem.: 21.9℃ Hum.: 58%

Adapter 2

#### Note:

9

10

11

12

1.8620

3.5100

16.1220

16.4060

2.62

1.82

17.45

8.20

20.14

20.17

20.28

20.28

22.76

21.99

37.73

28.48

46.00

46.00

60.00

50.00

-23.24

-24.01

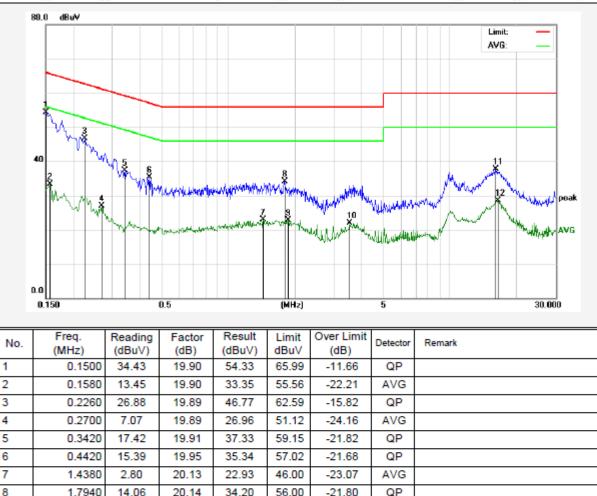
-22.27

-21.52

AVG

AVG QP

AVG



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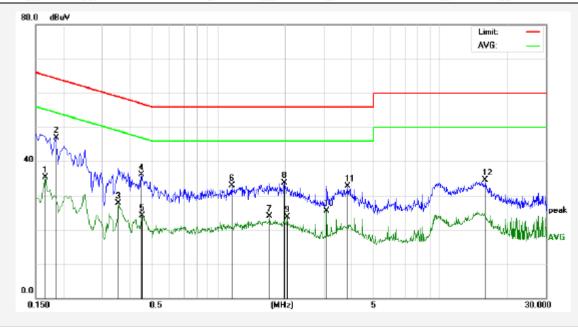
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### Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	Mode 1
Test Specification:	AC 120V, 60Hz for adapter
Comment:	Live Line
tek nbotek	Tem.: 21.9°C Hum.: 58%

Adapter 3

### Note:



	Freq.	Reading	Factor	Result	Limit	Over Limit		
No.	(MHz)	(dBuV)	(dB)	(dBuV)	dBuV	(dB)	Detector	Remark
1	0.1660	15.34	19.90	35.24	55.15	-19.91	AVG	
2	0.1860	26.96	19.90	46.86	64.21	-17.35	QP	
3	0.3540	7.80	19.91	27.71	48.87	-21.16	AVG	
4	0.4500	16.22	19.96	36.18	56.87	-20.69	QP	
5	0.4540	4.23	19.96	24.19	46.80	-22.61	AVG	
6	1.1539	12.79	20.12	32.91	56.00	-23.09	QP	
7	1.7020	3.85	20.13	23.98	46.00	-22.02	AVG	
8	1.9860	13.56	20.14	33.70	56.00	-22.30	QP	
9	2.0420	3.63	20.14	23.77	46.00	-22.23	AVG	
10	3.0660	5.41	20.16	25.57	46.00	-20.43	AVG	
11	3.8220	12.61	20.18	32.79	56.00	-23.21	QP	
12	16.0100	14.23	20.28	34.51	60.00	-25.49	QP	
	10Y 17			1.9			15	tell Bo

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### Code:AB-RF-05-a

### Report No.: SZAWW190606004-02

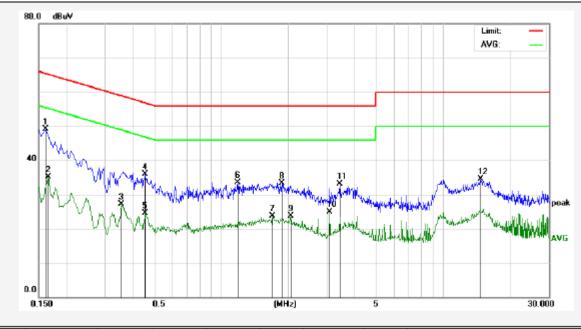
### FCC ID: 2AOMC-BTZ1 Page 17 of 30

### Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	Mode 1
Test Specification:	AC 120V, 60Hz for adapter
Comment:	Neutral Line
tek subotek	Tem.: 21.9℃ Hum.: 58%

Adapter 3

### Note:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1620	29.15	19.90	49.05	65.36	-16.31	QP	
2	0.1660	15.26	19.90	35.16	55.15	-19.99	AVG	
3	0.3540	7.17	19.91	27.08	48.87	-21.79	AVG	
4	0.4540	15.90	19.96	35.86	56.80	-20.94	QP	
5	0.4540	4.52	19.96	24.48	46.80	-22.32	AVG	
6	1.1860	13.44	20.12	33.56	56.00	-22.44	QP	
7	1.7020	3.62	20.13	23.75	46.00	-22.25	AVG	
8	1.8700	13.20	20.14	33.34	56.00	-22.66	QP	
9	2.0579	3.57	20.14	23.71	46.00	-22.29	AVG	
10	3.0860	4.80	20.16	24.96	46.00	-21.04	AVG	
11	3.4300	12.91	20.17	33.08	56.00	-22.92	QP	
12	14.8180	14.18	20.26	34.44	60.00	-25.56	QP	
	10 <sup>~</sup>				.07		100	NO- P.

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### Code:AB-RF-05-a

### Report No.: SZAWW190606004-02

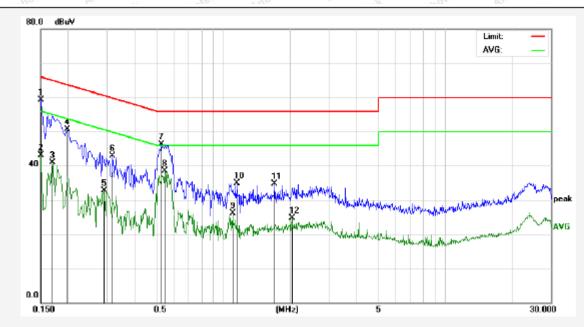
### FCC ID: 2AOMC-BTZ1 Page 18 of 30

### Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	Mode 1
Test Specification:	AC 120V, 60Hz for adapter
Comment:	Live Line
	Tem.: 21.9°C Hum.: 58%

Adapter 4

#### Note:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1500	39.44	19.90	59.34	65.99	-6.65	QP	
2	0.1500	23.29	19.90	43.19	55.99	-12.80	AVG	
3	0.1700	20.95	19.90	40.85	54.96	-14.11	AVG	
4	0.1980	30.73	19.90	50.63	63.69	-13.06	QP	
5	0.2900	12.75	19.89	32.64	50.52	-17.88	AVG	
6	0.3180	23.03	19.90	42.93	59.76	-16.83	QP	
7	0.5260	26.30	19.99	46.29	56.00	-9.71	QP	
8	0.5460	18.60	19.99	38.59	46.00	-7.41	AVG	
9	1.1019	5.91	20.12	26.03	46.00	-19.97	AVG	
10	1.1539	14.85	20.12	34.97	56.00	-21.03	QP	
11	1.7020	14.50	20.13	34.63	56.00	-21.37	QP	
12	2.0420	4.54	20.14	24.68	46.00	-21.32	AVG	

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### Code:AB-RF-05-a

### Report No.: SZAWW190606004-02

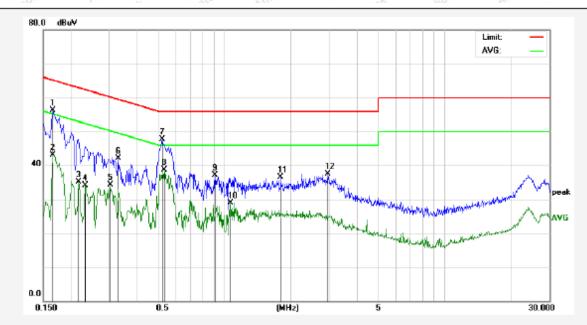
### FCC ID: 2AOMC-BTZ1 Page 19 of 30

### **Conducted Emission Test Data**

Test Site:	1# Shielded Room				
Operating Condition:	Mode 1				
Test Specification:	AC 120V, 60Hz for adapter				
Comment:	Neutral Line				
and atek anbotek	Tem.: 21.9℃ Hum.: 58%				

Adapter 4

#### Note:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1660	36.31	19.90	56.21	65.15	-8.94	QP	
2	0.1660	23.25	19.90	43.15	55.15	-12.00	AVG	
3	0.2180	15.25	19.90	35.15	52.89	-17.74	AVG	
4	0.2340	14.18	19.89	34.07	52.30	-18.23	AVG	
5	0.3020	14.49	19.89	34.38	50.19	-15.81	AVG	
6	0.3300	22.16	19.90	42.06	59.45	-17.39	QP	
7	0.5220	27.79	19.99	47.78	56.00	-8.22	QP	
8	0.5340	18.71	19.99	38.70	46.00	-7.30	AVG	
9	0.9060	16.99	20.09	37.08	56.00	-18.92	QP	
10	1.0700	8.88	20.12	29.00	46.00	-17.00	AVG	
11	1.8060	16.40	20.14	36.54	56.00	-19.46	QP	
12	2.9539	17.43	20.16	37.59	56.00	-18.41	QP	

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### 4. Radiation Spurious Emission and Band Edge

### 4.1. Test Standard and Limit

est Standard	FCC Part15 C Section 15	5.209 and 15.205			Anbor A
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	botek - Anboi	All All	300,000
	0.490MHz-1.705MHz	24000/F(kHz)	Anbotek An	POR PUL	potet 30 phil
	1.705MHz-30MHz	30	Anbotek	Anboy A	30
est Limit	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3 otek
	216MHz~960MHz	200	oo <sup>tek</sup> 46.0 proof	Quasi-peak	ek 3 Anbotek
	960MHz~1000MHz	500	54.0	Quasi-peak	potek 3 Anbol
		500	54.0	Average	obote <sup>K</sup> 3 An
	Above 1000MHz	born Am	74.0	Peak	3

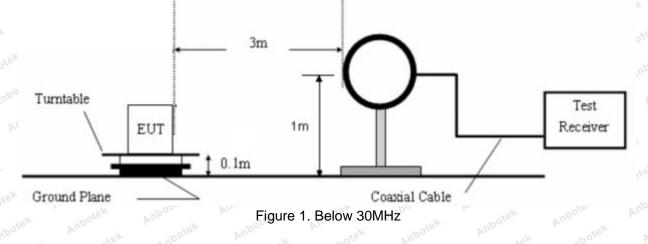
#### Remark:

Т

(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.

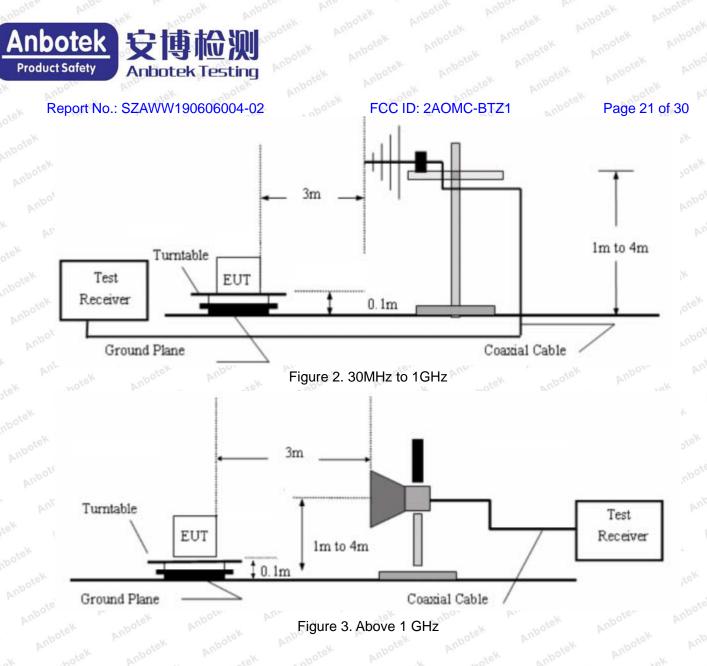
### 4.2. Test Setup



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### Code:AB-RF-05-a



### 4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.1m above the ground plane. For above 1GHz: The EUT is placed on a turntable, which is 0.1m 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 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.

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FCC ID: 2AOMC-BTZ1 Page 22 of 30 For 30MHz to 1000MHz, Set the spectrum analyzer as: RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

### 4.4. Test Data

PASS

Note: The data is in TX mode, and this is the worst mode.

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	ootek Testing	FCC ID: 2AOMC-BTZ1	Anbotek Anboten
Report No.: SZAN Test Results (Between 9KHz -	WW190606004-02 - 30MHz)	FCC ID: 2AOMC-BT21	Page 23 o
Job No.: "	SZAWW190606004-02	unbor Anbotek Anb	oten Anber
Standard:	FCC PART15 C _3m	Power Source:	DC 11.1V Battery inside
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.7℃/51%RH 3m
Test Mode:	Mode 1	Distance:	3m Anbotek Anbot
Anbore	abotek Anbotek Anb	notek Anbotek Anbote	And botek An
140.0 dBuA			
140.0 dBuA			Limit: — Margin: —
140.0 dBuA			

(P_	.ok	hor	bu.		-ten	- abo	P	_V.	noto.
Frequency (MHz)	Read Level (dBuV)	Antenna Factor	Cable Loss (dB)	Preamp Factor	Level (dBuV/m)	Limit (dBuV/m)	Over Limit	Detector	degree
(11112)	(usuv)	(dB/m)	(@)	(dB)	(usuv/iii)	(aBuv/iii)	(dB)		(dge)
0.0354	33.38	19.28	2.53	0	55.19	136.50	-81.31	Peak	59
0.0354	22.22	19.28	2.53	0	44.03	116.50	-72.47	AV	59
0.0509	41.74	19.28	2.53	0	63.55	133.36	-69.81	Peak	247
0.0509	30.91	19.28	2.53	0	52.72	113.36	-60.64	AV	247
0.1259	60.24	19.53	2.59	0	82.36	125.54	-43.18	Peak	351
0.1259	49.49	19.53	2.59	0	71.61	105.54	-33.93	AV	351
0.2199	49.21	19.53	2.59	0	71.33	120.72	-49.39	Peak	264
0.2199	40.84	19.53	2.59	0	62.96	100.72	-37.76	AV	264
0.3664	42.16	19.53	2.59	0	64.28	116.31	-52.03	Peak	32
0.3664	33.79	19.53	2.59	0	55. <b>91</b>	96.31	-40.40	AV	32
0.6895	22.71	20.66	2.63	0	46.00	70.83	-24.83	QP	117
K Anb	Jor P	*ek	aboten	Anbu	N. 14.	otek	upote.	Ann	. A

(MHz)

**Remark:** According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

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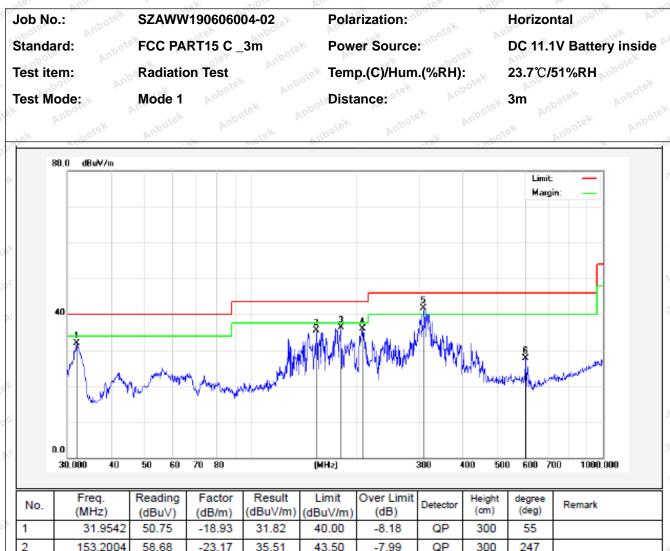
30.000



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(Between 30MHz -1000 MHz)



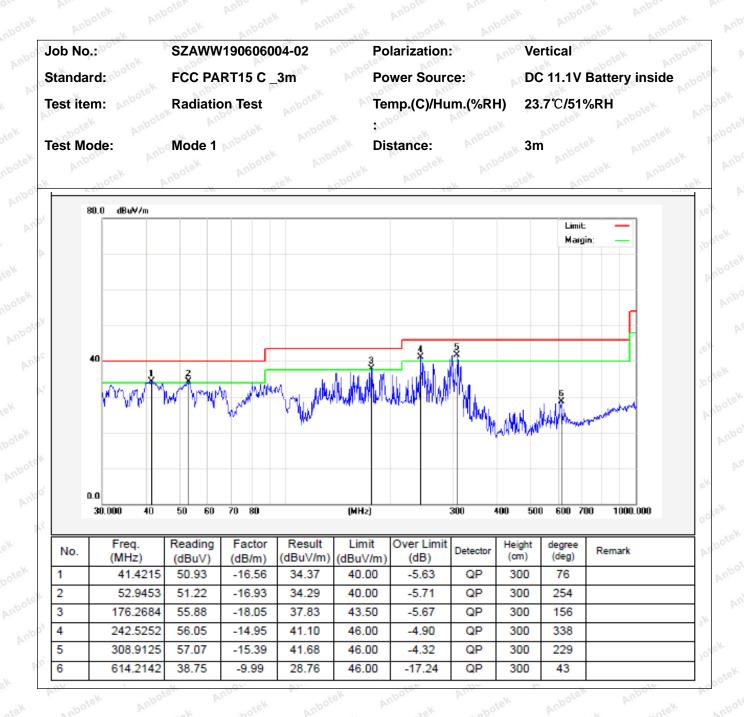
	- 0Y		N.		D.Y.		10.5	~10.1			 -
	6	601.4265	39.73	-12.07	27.66	46.00	-18.34	QP	300	326	
	5	308.9125	59.23	-17.50	41.73	46.00	-4.27	QP	300	42	٦.
0	4	207.1226	56.80	-20.81	35.99	43.50	-7.51	QP	300	79	p
	3	180.0165	58.13	-21.76	36.37	43.50	-7.13	QP	300	156	
3	2	153.2004	58.68	-23.17	35.51	43.50	-7.99	QP	300	247	e
	1	31.9542	50.75	-18.93	31.82	40.00	-8.18	QP	300	55	

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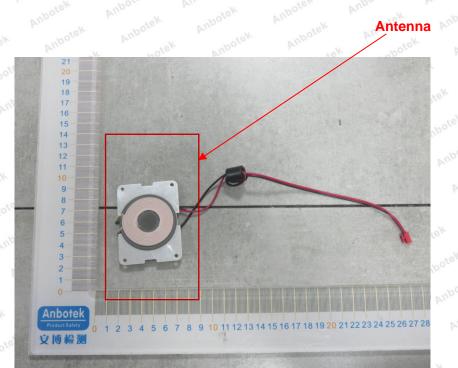
### 5. Antenna Requirement

### 5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 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

### 5.2. Antenna Connected Construction

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



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

Photo of Conducted Emission Measurement



### Photo of Radiation Emission Test



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## **APPENDIX II -- EXTERNAL PHOTOGRAPH**

Please refer to the test report SZAWW190606004-01.

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

Please refer to the test report SZAWW190606004-01.

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