

Report No.: 1815C40029412501

FCC ID: 2ACE5-PB5MWT

Page 1 of 24

FCC Test Report

Applicant : TELEPHONE EST (HK) CO., LTD

Room709,7F, FuLi tianhe commercial

Address : building,Linhe East Road and tianhe district,

Guangzhou, China

Product Name : 5000 mAh Wireless Power Bank

Report Date : Aug. 21, 2024

Shenzhen Anbotek Compliance Laboratory Limited

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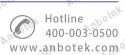
Report No.: 1815C40029412501 FCC ID: 2ACE5-PB5MWT

Contents

tek upotek Anbor	Anbotek K	Aupore. Aur	otek Anbote	Anbo
General Information 1.1. Client Information	YU.	* upotek	Aup.	otek Agbore
1.1. Client Information	Anbo	- JoOtek	Aupore Air.	5 An
1.2. Description of Device (EUT	BK VUPO.	rek.	abore	A
1.3 Auviliary Equipment Used [During Test	SEK YUD	rek	Vupo. e
1.4. Description of Test Modes.	upo, k	Molek Anbore	VII.	600 otek
1.4. Description of Test Modes. 1.5. Description Of Test Setup	Pupore, V		Jolek Aupo	7
1.6 Test Fauinment List	Cler	AUD	ick upor	Q
1.7. Measurement Uncertainty 1.8. Description of Test Facility. 1.9. Disclaimer	b.,	hupo _{fer.}	Ann	9
1.8. Description of Test Facility.	Anb	20016k	Aupo, N.	
1.9. Disclaimer	otek Anbore	A. Ask	"" poporer	10
2 Summary of Test Results	v vc	YEL YUP	rek	11
Conducted Emission Test 3.1. Test Standard and Limit	Anbo	Hotek Mpol	An. Nek	12
3.1. Test Standard and Limit	Pupore. I	7.U.P.	potek Anbe	12
3.2 Test Setup	POLEK	AND	tek anbo	12
3.3. Test Procedure		Hapo _{ter.}	Vun.	12
3.4. Test Data	Ano	, golek	Aupor	12
4. Radiation Spurious Emission	otek Aupore	tek	Kopo _{fer}	
4. Radiation Spurious Emission 4.1. Test Standard and Limit		otek Aup	V Jolek	15
4.2. Test Setup4.3. Test Procedure4.4. Test Data	Anbo	Potek Pupo	io VIII.	
4.3. Test Procedure	Popo _{fer}	Yur.	Mpotek Anbo	16
4.4. Test Data		Aupo,	- John Autor	16
20dB Occupy Bandwidth Test 5.1. Test Standard and Limit		Hopo _{ter}	Vun	21 ^{nb}
5.1. Test Standard and Limit	And a	// // // // // // // // // // // // //	Aupor 1	21
5.2. Test Setup	Polek Vupor	VII.	Kapo _{ter}	21
5.3. Test Procedure		oolek Aupo	Polek	21
5.4. Test Data	Vupo. V.	orek kup	ye. And	21
6. Antenna Requirement	rupo _{ter}	Vun.	Mootek Ambo	23
5.1. Test Standard and Limit 5.2. Test Setup 5.3. Test Procedure 5.4. Test Data 6. Antenna Requirement 6.1. Test Standard and Require 6.2. Antenna Connected Constr	mentatek	Anbor	y. Hale Fall	23
6.2. Antenna Connected Constr	uction	R 6POFER	And	
APPENDIX I TEST SETUP PHOT	OGRAPH		And	24
APPENDIX II EXTERNAL PHOTO	GRAPH	e. Vu.	4 Kipolek	24
APPENDIX III INTERNAL PHOTO	GRAPH	Potek Vupor	W.	24

Code:AB-RF-05-b

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Report No.: 1815C40029412501

FCC ID: 2ACE5-PB5MWT

10...

Page 3 of 24

TEST REPORT

Applicant : TELEPHONE EST (HK) CO., LTD

Manufacturer : TELEPHONE EST (HK) CO., LTD

Product Name : 5000 mAh Wireless Power Bank

Model No. : XYS-PB5MWT, TS-N310

Trade Mark : N/A

Input: 5V-- 2.4A, 9V-- 2A, 12V-- 1.5A

Battery Capacity: DC 3.85V, 5000mAh

Rating(s) : Type-C Output: 5V= 4.5A, 9V= 2.22A, 12V= 1.67A (22.5W)

Wireless Charging Output: 5W, 7.5W, 10W, 15W (Max)

Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.209

Test Method(s) : ANSI C63.10: 2020

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 Aug. 06, 2024

Date of Test Aug. 06, 2024 ~ Aug. 19, 2024

Prepared By

(Nianxiu Chen)

Approved & Authorized Signer

(Edward Pan)

Shenzhen Anbotek Compliance Laboratory Limited







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Report No.: 1815C40029412501

Anbote

FCC ID: 2ACE5-PB5MWT

Page 4 of 24

Anbotek

Anbotek

Anbotek

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Revision History

upotek	Report Version	Description	Issued Date
Anb	ROO Rootek	Original Issue.	Aug. 21, 2024
	Upotek Vupor	ek Anbore Amborek	Vipoles Vipolek
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Code: AB-RF-05-b

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1. General Information

1.1. Client Information

100	1	Y 100° A'
Applicant	:	TELEPHONE EST (HK) CO., LTD
Address	:	Room709,7F, FuLi tianhe commercial building,Linhe East Road and tianhe district, Guangzhou, China
Manufacturer	:	TELEPHONE EST (HK) CO., LTD
Address	:	Room709,7F, FuLi tianhe commercial building,Linhe East Road and tianhe district, Guangzhou, China
Factory	:	TELEPHONE EST (HK) CO., LTD
Address	:	Room709,7F, FuLi tianhe commercial building,Linhe East Road and tianhe district, Guangzhou, China

1.2. Description of Device (EUT)

Product Name	:	5000 mAh Wireless Power Bank
Model No.	:	XYS-PB5MWT, TS-N310 (Note: All samples are the same except the model number, so we prepare "XYS-PB5MWT" for test only.)
Trade Mark	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for Adapter/ DC 3.85V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A stek upotek Vupotek Vupotek Vupotek Vupotek V
RF Specification		
Operation Frequency	:	112-205kHz
Modulation Type	:	ASK Anborek Anborek Anborek Anborek Anborek
Antenna Type	:	Inductive loop coil Antenna
Pomark: 1) All of the I) F	specification are provided by customer 2) For a more detailed features

Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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Hotline 400-003-0500 www.anbotek.com





1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
Wireless charging	Manufacturer: Shenzhen Ouju Technology Co., Ltd.
load	M/N: CD2577
upo sek	Power: 5W/7.5W/10W/15W
Adapter	Model: MDY-13-ES
Anbotek Anbe	Input: 100-240V~, 50/60Hz, 1.7A
Potek Vupo,	Output: 5V=3A/ 9V=3A/ 11V=6.1A Max
VUR.	12V=2.25A/ 15V=3A/ 20V=3.25A Max

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.

- Mo	All All I All						
Pretest Modes	Descriptions						
botek ATM1	Adapter+WTP Mode (AC 120V, 60Hz for Adapter)						
TM2	WTP Mode (5W 1% Load) (DC 3.85V Battery inside)						
TM3 hoote	WTP Mode (5W 50% Load) (DC 3.85V Battery inside)						
nbotek TM4 Ambote	WTP Mode (5W 99% Load) (DC 3.85V Battery inside)						
TM5 Ambore	WTP Mode (7.5W 1% Load) (DC 3.85V Battery inside)						
TM6* Ambour	WTP Mode (7.5W 50% Load) (DC 3.85V Battery inside)						
TM7 orek An	WTP Mode (7.5W 99% Load) (DC 3.85V Battery inside)						
Anbourek TM8 nootek	WTP Mode (10W 1% Load) (DC 3.85V Battery inside)						
Anbo rekTM9 nborek	WTP Mode (10W 50% Load) (DC 3.85V Battery inside)						
TM10	WTP Mode (10W 99% Load) (DC 3.85V Battery inside)						
Otok And TM11	WTP Mode (15W 1% Load) (DC 3.85V Battery inside)						
TM12	WTP Mode (15W 50% Load) (DC 3.85V Battery inside)						
TM13	WTP Mode (15W 99% Load) (DC 3.85V Battery inside)						
Anbotek TM14 Anbo	Standby Mode						

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Product Safety

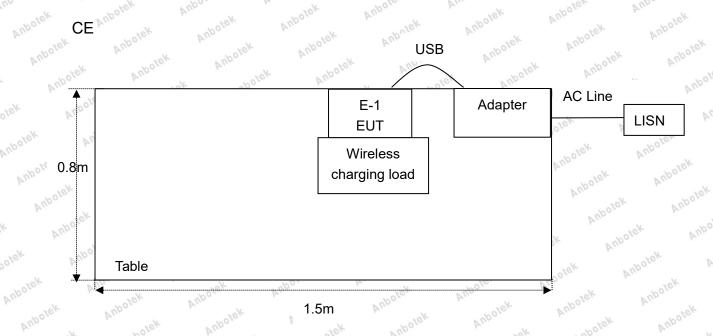
FCC ID: 2ACE5-PB5MWT

Page 7 of 24

Anbotek

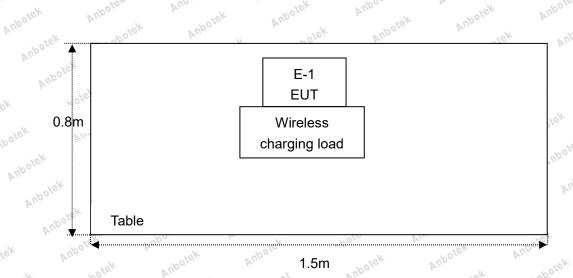
1.5. Description Of Test Setup

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Report No.: 1815C40029412501 FCC ID: 2ACE5-PB5MWT

1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Inter
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Jan. 18, 2024	1 Year
2. ^{nbo}	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT00 1	Jan. 17, 2024	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Jan. 17, 2024	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Jan. 23, 2024	1 Year
An5otek	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
6. Anb	EMI Preamplifier	SKET Electronic	LNPA-0118G- 45	SKET-PA-002	Jan. 17, 2024	1 Year
× 7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
ootek 8. 50te	Bilog Broadband Antenna	Schwarzbeck	VULB9163	otek 345 Anbote	Oct. 23, 2022	3 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 12, 2023	1 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Oct. 12, 2023	1 Year
e¥11.	Pre-amplifier	SONOMA	310N	186860	Jan. 17, 2024	1 Year
, ₀ 12.	EMI Test Software EZ-EMC	SHURPLE	N/A	potek N/A Anbol	N/Ahhote	otek N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 12, 2023	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 12, 2023	1 Year
15.	Signal Generator	Agilent Andore	E4421B	MY41000743	Oct. 12, 2023	1 Year
16.K	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 20, 2023	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	Aupotek	Oct. 16, 2023	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	May. 06, 2024	1 Year

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Anbotek Code:AB-RF-05-b







Report No.: 1815C40029412501

FCC ID: 2ACE5-PB5MWT

1.7. Measurement Uncertainty

61.	- 00	V.	~ O °	la.		160.
Parameter			U	ncertaint	y	
Conducted emissions (AMN 150k	Hz~30MHz)	3.8dB	And	otek	Anbotek	Aupo
Radiated spurious emissions (Be	ow 30MHz)	3.53dB	K Vur	Polek	Aupolek	Aup
Radiated spurious emissions (30I	ИНz~1GHz)	Horizonta	al: 3.92dB; \	/ertical: 4	.52dB knoorex	
Occupied Bandwidth	1001 M	925Hz	Aupole	Aug	otek Anbo	tek.

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.8. Description of Test Facility

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

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered 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. 434132.

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.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

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Page 9 of 24



Page 10 of 24

1.9. Disclaimer

- The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.





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Summary of Test Results

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2. Summary of Test	Results Andotek Andotek	Vek Toolek Wupolek
Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS PASS
15.207	Conducted Emission Test	And PASSAnbotek
15.205/15.209	Spurious Emission	Anbot PASS Anbote
15.251 And 1	20dB Bandwidth	PASS

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Conducted Emission Test

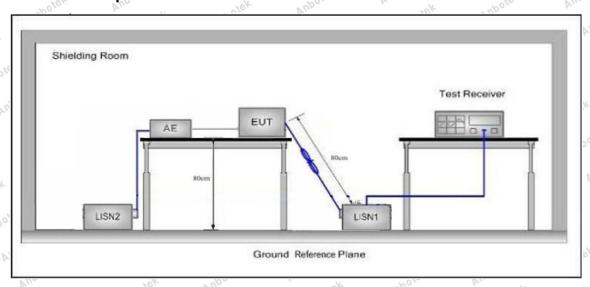
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.2	207 An	og, k Potek Vup.
	Fraguenav	Maximum RF L	ine Voltage (dBuV)
	Frequency	Quasi-peak Level	Average Level
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	Anbores	46 nbotek
	5MHz~30MHz	And 60 abot	ek Anbo 50 Lotel
Remark: (1) *Dec	creasing linearly with logarith	nm of the frequency	ok spoler Aug

creasing 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: 2020 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

PASS

During the test, pre-scan all modes, only the worst case is recorded in the report. Please to see the following pages.

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Conducted Emission Test Data

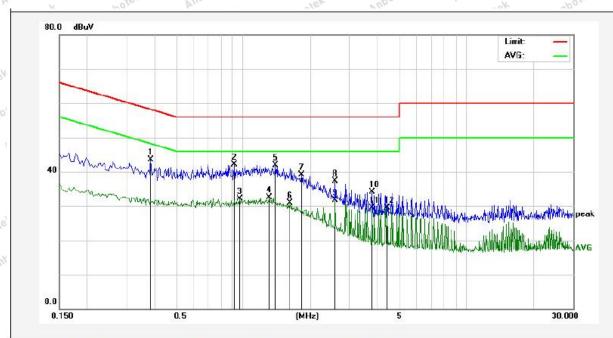
Test Site: 1# Shielded Room

Operating Condition: TM1

Test Specification: AC 120V, 60Hz for Adapter

Comment: Live Line

Temp.(°C)/Hum.(%RH): 23.9°C/50%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.3860	25.72	17.81	43.53	58.15	-14.62	QP	
2	0.9140	24.33	17.86	42.19	56.00	-13.81	QP	
3	0.9660	14.33	17.86	32.19	46.00	-13.81	AVG	
4	1.3099	14.63	17.86	32.49	46.00	-13.51	AVG	
5	1.3980	24.03	17.86	41.89	56.00	-14.11	QP	
6	1.6260	13.14	17.85	30.99	46.00	-15.01	AVG	
7	1.8260	21.19	17.86	39.05	56.00	-16.95	QP	
8	2.5900	19.39	17.85	37.24	56.00	-18.76	QP	
9	2.5900	13.92	17.85	31.77	46.00	-14.23	AVG	
10	3.7940	16.19	17.86	34.05	56.00	-21.95	QP	
11	3.7940	11.59	17.86	29.45	46.00	-16.55	AVG	
12	4.4140	11.68	17.85	29.53	46.00	-16.47	AVG	
	W.	WA	T-			10.7		VA 70.4

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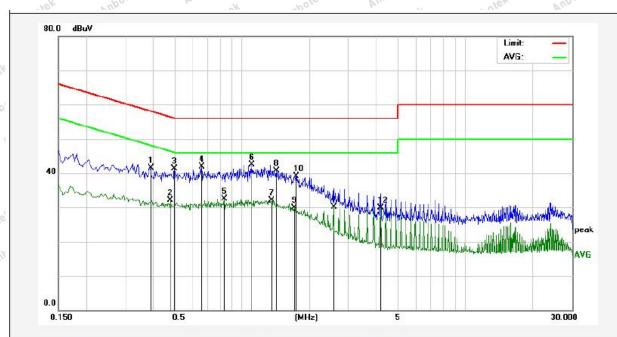
Conducted Emission Test Data

Test Site: 1# Shielded Room

Operating Condition: TM1

Test Specification: AC 120V, 60Hz for Adapter

Comment: Neutral Line Temp.($^{\circ}$ C)/Hum.($^{\circ}$ RH): 23.9 $^{\circ}$ C/50 $^{\circ}$ RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.3899	23.66	17.81	41.47	58.06	-16.59	QP	-
2	0.4780	14.27	17.85	32.12	46.37	-14.25	AVG	
3	0.4980	23.44	17.86	41.30	56.03	-14.73	QP	
4	0.6580	24.04	17.87	41.91	56.00	-14.09	QP	
5	0.8340	14.71	17.87	32.58	46.00	-13.42	AVG	
6	1.1060	24.73	17.86	42.59	56.00	-13.41	QP	
7	1.3619	14.27	17.86	32.13	46.00	-13.87	AVG	
8	1.4220	22.82	17.86	40.68	56.00	-15.32	QP	
9	1.7100	12.07	17.85	29.92	46.00	-16.08	AVG	
10	1.7460	21.24	17.85	39.09	56.00	-16.91	QP	
11	2.5740	12.33	17.85	30.18	46.00	-15.82	AVG	
12	4.1579	12.02	17.85	29.87	46.00	-16.13	AVG	

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4. Radiation Spurious Emission

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205					
	Frequency	Field strength	Limit	Remark	Measurement	
	(MHz)	(microvolt/meter)	(dBuV/m)	rtomant	distance (m)	
	0.009MHz~0.490MHz	2400/F(kHz)	Aug -otek	Aupolek	300	
	0.490MHz-1.705MHz	24000/F(kHz)	Aug Potek	Aupolek	30	
	1.705MHz-30MHz	abotek 30 Anbote	Anu	ek - Anbote	30	
Test Limit	30MHz~88MHz	100 An	40.0	Quasi-peak	potek 3 Anbi	
	88MHz~216MHz	150	43.5	Quasi-peak	Aupolek3	
	216MHz~960MHz	200	46.0	Quasi-peak	Anb 3ek	
	960MHz~1000MHz	500	54.0	Quasi-peak	3/polek	
	Above 1000MHz	500	54.0	Average	ek 3 Anbotel	
		Aupo, W.	otek 74.0 Anbo	Peak	hotek 3 Anb	

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

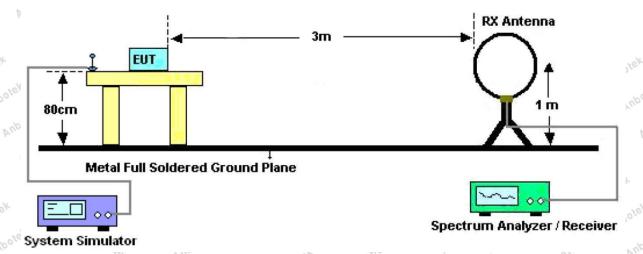


Figure 1. Below 30MHz







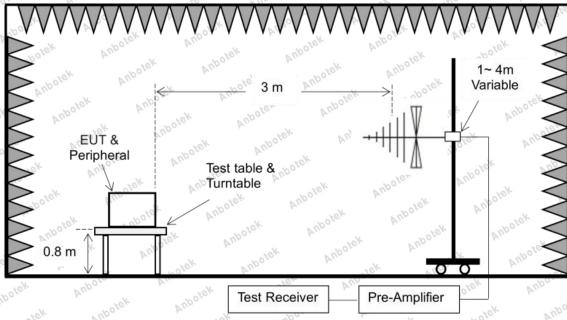


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

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

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

During the test, pre-scan all modes, only the worst case is recorded in the report.

Please to see the following pages.







Test Results (Between 9KHz - 150KHz)

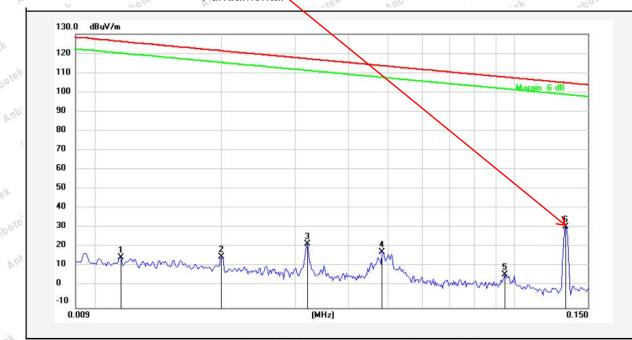
Test Mode: TM13

Distance: 3m

Power Source: DC 3.85V Battery inside

Temp.(℃)/Hum.(%RH): 23.5℃/49%RH

Fundamental



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0115	-4.34	20.09	15.75	126.19	-110.44	peak			
2	0.0200	-4.09	20.29	16.20	121.41	-105.21	peak			
3	0.0321	2.14	20.56	22.70	117.33	-94.63	peak			
4	0.0483	-1.77	20.42	18.65	113.80	-95.15	peak		9	
5	0.0950	-13.36	20.29	6.93	107.96	-101.03	peak			
6	0.1324	11.01	20.34	31.35	105.10	-73.75	peak			

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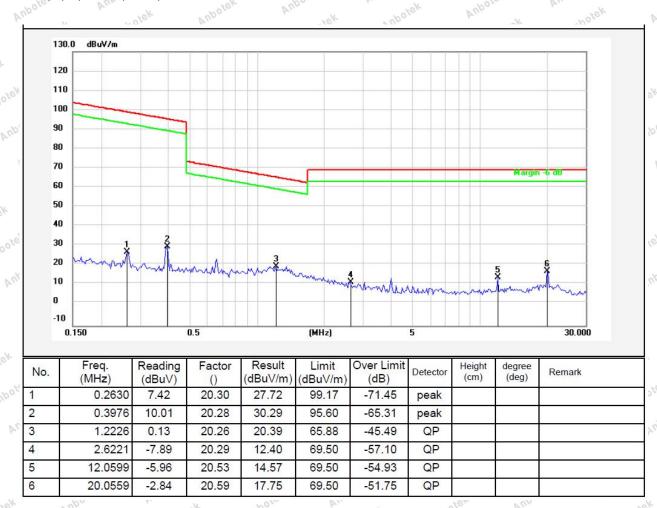


Test Results (Between 0.15MHz - 30MHz)

Test Mode: TM13
Distance: 3m

Power Source: DC 3.85V Battery inside

Temp.(℃)/Hum.(%RH): 23.5℃/49%RH



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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Test Results (Between 30MHz -1000 MHz)

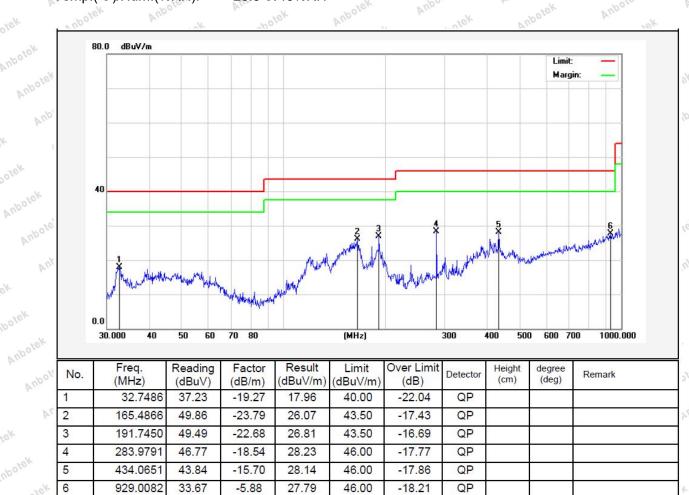
Test Mode: TM13

Distance: 3m

Power Source: DC 3.85V Battery inside

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 20.3°C/46%RH



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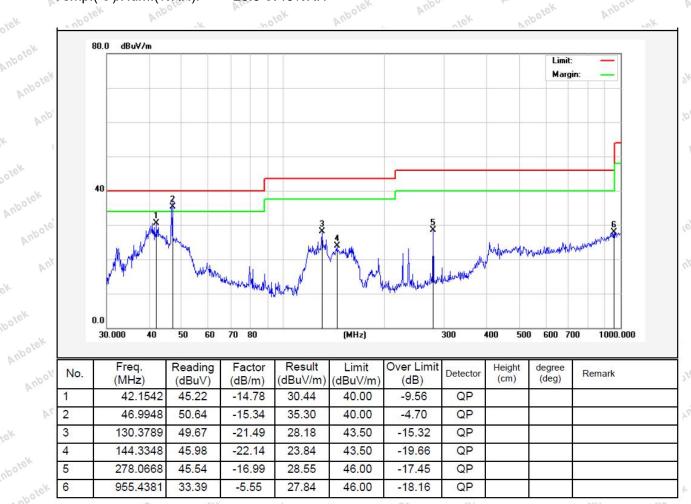
Test Mode: TM13

Distance: 3m

Power Source: DC 3.85V Battery inside

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 20.3°C/46%RH



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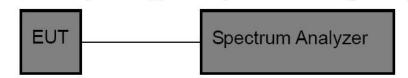


5. 20dB Occupy Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.215(c)
Test Limit	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.2. Test Setup



5.3. Test Procedure

- 1. Place the EUT on the table and set it in the continuously transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as:

RBW = 220Hz

VBW= 680Hz

Span= 10kHz

Detector= Peak

Trace mode= Max hold.

Sweep- auto couple.

- 4. Mark the peak frequency and -20dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

5.4. Test Data

Test Item	:	20dB Bandwidth	Test Mode	:	Mode 5
Test Voltage	:	DC 3.85V Battery inside	Temperature	:	22.1℃
Test Result	:	PASS	Humidity	:	50%RH

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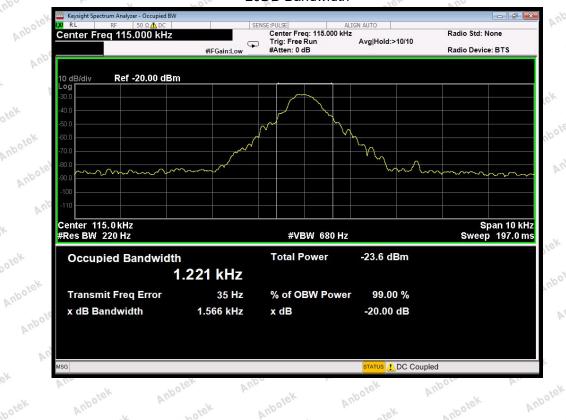
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Mode	Freq. (kHz)	20dB Bandwidth (kHz)	Results
TX Mode	115.0	1.566	PASS

20DB Bandwidth



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Code: AB-RF-05-b

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6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
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.

6.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached. It complies with the standard requirement.

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APPENDIX I -- TEST SETUP PHOTOGRAPH

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Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

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