

Page 1 of 38

RED-EMC Test Report

Client Name : Shenzhen PuSou Electronic Manufactory

Address 4F, Entrance B, Building F, Xing Hui Science Park, Gu Shu 2Rd, Xixiang of Bao'An District, Shenzhen, China

Product Name : Mini Bluetooth Speaker

Date : Jun. 27, 2019

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Page 2 of 38

Contents

1. General Information	Anbu	184 Pr.		npote	Anu	4
1.1. Client Information	pino	ore P			Ant	4
1.2. Description of Device (EUT)1.3. Auxiliary Equipment Used During Test		aboten	Anbo		otok	4
1.3. Auxiliary Equipment Used During Test		potek	pupor			4
1.4. Description of Test Modes	100°			oten	LUD-	5
1.4. Description of Test Modes 1.5. Test Equipment List	Anbore.	Aun		apotek.		6
1.6. Description of Test Facility	Loter	NUP.	·	Yar	abole	
1.7. Performance Criteria 2. Summary of Test Results		Nex P	bore	Anv	·····	
2. Summary of Test Results	Pur		Antoptek	Anbo		9
3. Emission Test	fen V	10		k pob	P	10
3.1. Conducted Emission Test at Main Ports	botek	pupole	Ann		neotek	
3.1.1. Test Standard and Limit		Athoter	Anbi		Hotek	10
3.1.2. Test Setup 3.1.3. Test Procedure	And		(e ⁾⁴	abore v	Alle	10
3.1.3. Test Procedure	Aupor			Anboten	Anbe	11
3.1.4. Test Data	A Market	ren M		poter	e poloc	11
3.2. Radiated Emission Test						
3.2.1. Test Standard and Limit		workelk.	Anboter	Aup		16
3.2.2. Test Setup		Anu		rek b	abor	17
3.2.3. IESI PIOCEOUIE		DAY		- KONT		
3.2.4. Test Data		pobol	<u>A</u>		a nuotek	18
4. Immunity Test			oten	Anbo	P-1	24
 4.1. Electrostatic Discharge Test 4.1.1. Test Standard and Specification 4.1.2. Test Setup 	Aupo		Notek	Kupote	Pun	25
4.1.1. Test Standard and Specification	6 ¹⁴	born A	All		len Vi	25
4.1.2. Test Setup		Aupoten	Anbe		Vote ^k	25
4.1.3. Test Procedure			papo			
4.1.4. Test Data	Pupor.			hoten	Anber	27
4.2. Radiated, RF Electromagnetic Fields Test.4.2.1. Test Standard and Specification	Anboter	Anu		Astorio 1	pupor	28
4.2.1. Test Standard and Specification		ere prot		Pir		28
4.2.2. Test Setup		-deale	Arboten	Anu		28
4.2.3. Test Procedure 4.2.4. Test Data	<u></u>			hupo,		28
4.2.4. Test Data	otek	Anbor			boten	29
APPENDIX I TEST SETUP PHOTOGRAPH	-Notek	popoter	Anu		a nuotek	30
APPENDIX II EXTERNAL PHOTOGRAPH	Ann	A MPOLE	N. 100	0 ⁰⁰	Margh	
APPENDIX III INTERNAL PHOTOGRAPH	Anbu		otel	Pabotes	Anbo	

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Page 3 of 38

TEST REPORT

Applicant :	Shenzhen PuSou Electronic Manufactory
Manufacturer :	Shenzhen PuSou Electronic Manufactory
Product Name	Mini Bluetooth Speaker
Model No.	SP12 ^{hnbo} tek Anbotek Anbotek Anbotek
Trade Mark :	N.A. Anbotek Anbotek Anbotek Anbotek
Rating(s) :	Input: DC 5V, 1A(with DC 3.7V, 500mAh Battery inside)
Test Standard(s)	ETSI EN 301 489-1 V2.2.0 (2017-03) EN 55032: 2015

EN 55035: 2017

ETSI EN 301 489-17 V3.2.0 (2017-03)

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 EN 301 489-1, EN 301 489-17 and EN 55032, EN 55035 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date	of	Receipt
Date	of	Test

Jun. 19, 2019 Jun. 19~27, 2019

Prepared By

(Engineer / Oliay Yang)

Reviewer

(Supervisor / Snowy Meng)

Approved & Authorized Signer

(Manager / Sally Zhang)

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, SanweiCommunity, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)755–26066440 Fax:(86)755–26014772 Email:service@anbotek.com



1. General Information

1.1. Client Information

Applicant	:	Shenzhen PuSou Electronic Manufactory
Address	:	4F, Entrance B, Building F, Xing Hui Science Park, Gu Shu 2Rd, Xixiang of Bao'An District, Shenzhen, China
Manufacturer	:	Shenzhen PuSou Electronic Manufactory
Address	:	4F, Entrance B, Building F, Xing Hui Science Park, Gu Shu 2Rd, Xixiang of Bao'An District, Shenzhen, China
Factory	:	Shenzhen PuSou Electronic Manufactory
Address	:	4F, Entrance B, Building F, Xing Hui Science Park, Gu Shu 2Rd, Xixiang of Bao'An District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Mini Bluetooth Speaker	Anbotek Anbotek Anbotek Anbotek
Model No.	:	SP12	Anbore All abotek Anbotek Anbo
Trade Mark	:	N.A.	Anbor An Anbotek Anboten Anbo
Test Power Supply	:	AC 230V, 50Hz for ada DC 3.7V battery in <mark>si</mark> de	pter/ AC 110V, 50Hz for adapter/
Test Sample No.	:	1-2-1(Normal Sample),	1-2-2(Engineering Sample)
		Operation Frequency:	2402~2480MHz
		Transfer Rate:	1/2/3 Mbits/s
Product		Number of Channel:	79 Channels
Description	:	Modulation Type:	GFSK, π/4-DQPSK, 8-DPSK
		Antenna Type:	PCB Antenna
		Antenna Gain(Peak):	1.3 dBi Anbotek Anbo

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

1.3. Auxiliary Equipment Used During Test

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

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Report No.: SZAWW190619003-01E 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.

00	Pretest Mode			Description			
Ano	Mode 1	inport Arr	otek	Charge Mode	lek h	nbotek	P
Aun	Mode 2	Anbor At	nbotek	BT Mode	wotek	Anbotek	
P	mutek Anbotek	Anbo	hotek	Anboto Ar	atek.	abote	K
		For Con	ducted En	nission			
0	Final Test Mode			Description			
7Uporo	Mode 1	nbotek Anbo	tek h.	Charge Mode	KAND	wotek	An
Anbo	k Annotek	boten Anb	You I	botek Anbol	e. P	atek	
		For Rac	liated Emi	ission			
6	Final Test Mode			Description			
otek	Mode 1	Anboten	Anbo	Charge Mode	Anbore	ak Ano	note
npotek	Mode 2	bolek Adote	Anb	BT Mode	Aupo	Let P	U.
	of bu		10	02	No.	10 ¹¹	Dar

Note: The EUT was tested on (Mode 1, Mode 2) modes, only the Mode 1 was tested using EN 55032 and EN 55035 standards.

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Report No.: SZAWW190619003-01E

1.5. Test Equipment List

Conducted Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
nb9tek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 26, 2018	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 05, 2018	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 05, 2018	1 Year
4.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A

Radiated Emission Measurement

	ted Enhosion Medoc	101		NG AND	210 011	10.1
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 05, 2018	1 Year
2.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
3.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	1 Year
4.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A
5.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 05, 2018	1 Year
6.	Spectrum Analysis	Agilent	E4407B	US3939058 2	Nov. 05, 2018	1 Year
Anbote 7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 19, 2018	1 Year

Electrostatic Discharge Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
poter.	ESD Simulators	3Ctest	ESD-30T	ES0131505	Nov. 26, 2018	1 Year

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Report No.: SZAWW190619003-01E

Page 7 of 38

rv 3 II	innunity measurement					
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1ek	Signal Generator	Agilent	N5182A	MY48180656	Nov. 05, 2018	1 Year
2,00	Amplifier	Micotoop	MPA-80-1000 -250	MPA1903096	N/A	N/A
3 🔊	Amplifier	Micotoop	MPA-1000-60 00-100	MPA1903122	N/A.tek	N/A
4	Log-Periodic Antenna	Schwarzbeck	VULP9118E	00992	Aug. 17, 2018	3 Year
5.4	Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 19, 2018	3 Year
6	Power Sensor	Agilent	E9301A	MY41498906	Nov. 05, 2018	1 Year
7	Power Sensor	Agilent	E9301A	MY41498088	Nov. 05, 2018	1 Year
8	Power Meter	Agilent	E4419B	GB40202909	Nov. 05, 2018	1 Year
9	Field Probe	ETS-Lindgren	HI-6006	00212747	Apr. 20, 2017	3 Year
10	software	EMtrace	EM 3	ote th N/A proto	N/A	N/A

R/S Immunity Measurement

1.6. 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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Report No.: SZAWW190619003-01E

1.7. Performance Criteria

1.7.1. For EMS Test:

- \sqrt{A} : Normal performance within the specification limits;
- $\sqrt{}$ B: Temporary degradation or loss of function or performance which is self-recoverable;

 \sqrt{C} : Temporary degradation or loss of function or performance which requires operator intervention or system reset;

 \sqrt{D} : Degradation or loss of function which is not recoverable due to damage of equipment (components) or software, or loss of data

Note: The manufacturer's specification may define effects on the EUT which may be considered insignificant, and therefore acceptable.

This classification may be used as a guide in formulating performance criteria, by committees responsible for generic, product and product-family standards, or as a framework for the agreement on performance criteria between the manufacturer and the purchaser, for example where no suitable generic, product or product-family standard exists.

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2. Summary of Test Results

otek Anboten Ant	EMC Em	hission		
Test Items	Standard	Basic Standard	Limit	Results
Conducted Emission	ETSI EN 301 489-1 V2.2.0 Clause 8.3 & 8.4	EN 55032: 2015	Class B	PASS
Radiated Emission	ETSI EN 301 489-1 V2.2.0 Clause 8.2	EN 55032: 2015	Class B	PASS
Harmonic Current Emission	ETSI EN 301 489-1 V2.2.0 Clause 8.5	EN 61000-3-2: 2014	Class A	N/A
Voltage Fluctuations& Flicker	ETSI EN 301 489-1 V2.2.0 Clause 8.6	EN 6000-3-3: 2013	Inbotek tek	N/A

EMC Immunity

Test Items	Standard	Basic Standard	Performance Criteria	Results
Electrostatic Discharge	ETSI EN 301 489-1 V2.2.0 Clause 9.3	EN 61000-4-2: 2009	AnB	PASS
RF Electromagnetic Field	ETSI EN 301 489-1 V2.2.0 Clause 9.2	EN 61000-4-3: 2006 +A1: 2008+A2: 2010	tek A Anbotek	PASS
Fast transients, common mode	ETSI EN 301 489-1 V2.2.0 Clause 9.4	EN 61000-4-4: 2012	B Anbo	N/A
Surges	ETSI EN 301 489-1 V2.2.0 Clause 9.8	EN 61000-4-5: 2014+A1: 2017	AntBek	N/A
Radio frequency, common mode	ETSI EN 301 489-1 V2.2.0 Clause 9.5	EN 61000-4-6: 2014	Anbotek	N/A
Volt. Interruptions Volt. Dips	ETSI EN 301 489-1 V2.2.0 Clause 9.7	EN 61000-4-11: 2004	B / C / C NOTE (3)	N/A
NOTE: NOTE:	otek Anboten Anbo	wat botek	Anboro An	Hek
(1) " N/A" denotes	s test is not applicable in this	Test Report	Anbotek	Anbo
no pui	for equipment intended to be ationcentre, the class A limits	M NOTO	n industrial envir	onment or
(3) Voltage dip: 10	00% reduction – Performance	e Criteria B	te. And	K apc
Voltage dip: 10	00% reduction – Performance	e Criteria B	looten Aupo	pr.
Voltage dip: 70	% reduction – Performance	Criteria C	botek Anb	oro A
P. N	110 001 1 AM 11	and a whole	Dec.	101

Voltage Interruption: 0% Interruption – Performance Criteria C

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Page 9 of 38



Page 10 of 38

Report No.: SZAWW190619003-01E

3. Emission Test

3.1. Conducted Emission Test at Main Ports

3.1.1. Test Standard and Limit

Test Standard	ETSI EN 301 489-1	V2.2.0 Claus	e 8.3 & 8.4			And
Basic Standard	EN 55032: 2015	A. abotek	Anbote	Anu notek	Anbotek	Anbor

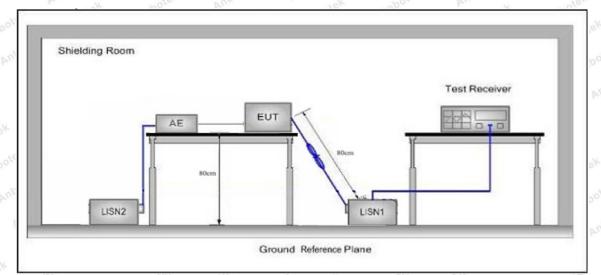
	Fraguanay	Maximum RF Line Voltage (dBuV)							
	Frequency	Quasi-peak Level	Average Level						
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *						
	500kHz~5MHz	56	46 M						
	5MHz~30MHz	Anbore 60 dek	50						

Remark: *Decreasing linearly with logarithm of the frequency.

Limits for conducted emissions of equipment intended to be used in telecommunication centres and industrial environment

	Fraguaday	Eroquonov Maximum RF					
Teet Linsit	Frequency	requency Qua		A	Average Level		
Test Limit	150kHz~500kHz		79	Anboter	66		
	500kHz~30MHz	K AL	73	K Anbo	60		

3.1.2. Test Setup



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Report No.: SZAWW190619003-01E

3.1.3. 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 ETSI EN 301 489-1 V2.2.0 & EN 55032: 2015 on Conducted Emission Measurement.

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

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

For the actual test configuration, please refer to the related Item EUT Test Photos.

3.1.4. Test Data

PASS

The EUT should be compliance to the limit of Class B Only the worst case data was showed in the report, please to see the following pages

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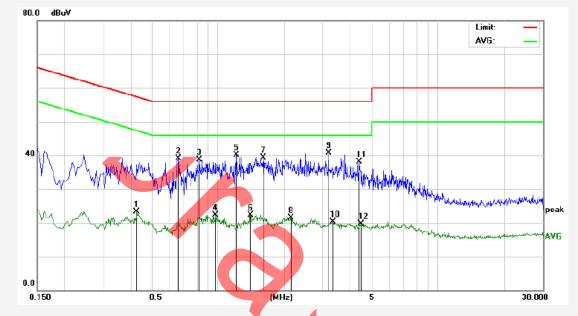
Address: 1/F, Building D, Sogood Science and Technology Park, SanweiCommunity, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)755-26066440 Fax:(86)755-26014772 Email:service@anbotek.com Hotline 400-003-0500 www.anbotek.com

Page 11 of 38

Report No.: SZAWW190619003-01E

Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	Mode 1
Test Specification:	AC 230V, 50Hz for adapter
Comment:	Live Line
tek nbotek	Tem.: 22.1℃ Hum.: 49%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.4260	3.36	19.95	23.31	47.33	-24.02	AVG	
2	0.6580	18.99	20.03	39.02	56.00	-16.98	QP	
3	0.8260	18.72	20.07	38.79	56.00	-17.21	QP	
4	0.9780	2.19	20.11	22.30	46.00	-23.70	AVG	
5	1.2140	20.01	20.12	40.13	56.00	-15.87	QP	
6	1.4060	2.25	20.13	22.38	46.00	-23.62	AVG	
7	1.6019	19.10	20.13	39.23	56.00	-16.77	QP	
8	2.1500	1.38	20.14	21.52	46.00	-24.48	AVG	
9	3.1860	20.47	20.16	40.63	56.00	-15.37	QP	
10	3.3420	0.21	20.17	20.38	46.00	-25.62	AVG	
11	4.3940	18.00	20.19	38.19	56.00	-17.81	QP	
12	4.4740	-0.52	20.19	19.67	46.00	-26.33	AVG	

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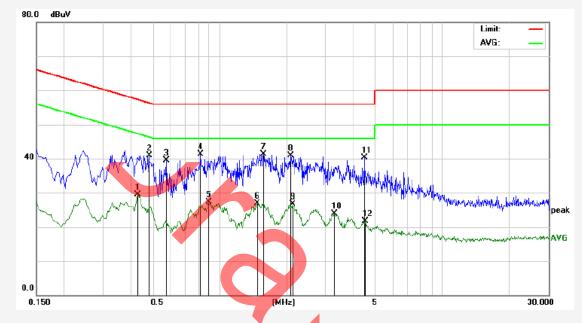


Page 12 of 38

Report No.: SZAWW190619003-01E

Conducted Emission Test Data

Test Site:1# Shielded RoomOperating Condition:Mode 1Test Specification:AC 230V, 50Hz for adapterComment:Neutral LineTem.: 22.1 °C Hum.: 49%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.4300	9.50	19.95	29.45	47.25	-17.80	AVG	
2	0.4820	20.98	19.97	40.95	56.30	-15.35	QP	
3	0.5780	19.54	20.00	39.54	56.00	-16.46	QP	
4	0.8220	21.24	20.07	41.31	56.00	-14.69	QP	
5	0.8900	7.19	20.09	27.28	46.00	-18.72	AVG	
6	1.4819	6.84	20.13	26.97	46.00	-19.03	AVG	
7	1.5700	21.26	20.13	41.39	56.00	-14.61	QP	
8	2.0780	20.74	20.14	40.88	56.00	-15.12	QP	
9	2.1300	6.59	20.14	26.73	46.00	-19.27	AVG	
10	3.2780	3.65	20.17	23.82	46.00	-22.18	AVG	
11	4.4740	20.11	20.19	40.30	56.00	-15.70	QP	
12	4.5180	1.60	20.19	21.79	46.00	-24.21	AVG	

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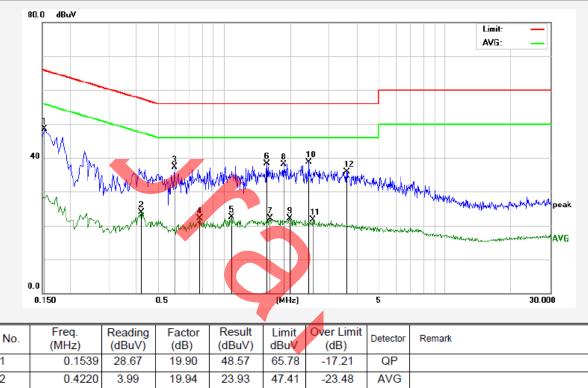


Page 13 of 38

Report No.: SZAWW190619003-01E

Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	Mode 1
Test Specification:	AC 110V, 50Hz for adapter
Comment:	Live Line
	Tem.: 22.1 °C Hum.: 49%



No.	(MHz)	(dBuV)	(dB)	(dBuV)	dBuV	(dB)	Detector	Remark
1	0.1539	28.67	19.90	48.57	65.78	-17.21	QP	
2	0.4220	3.99	19.94	23.93	47.41	-23.48	AVG	
3	0.5980	17.32	20.01	37.33	56.00	-18.67	QP	
4	0.7780	2.12	20.06	22.18	46.00	-23.82	AVG	
5	1.0820	2.39	20.12	22.51	46.00	-23.49	AVG	
6	1.5620	18.25	20.13	38.38	56.00	-17.62	QP	
7	1.6220	2.03	20.13	22.16	46.00	-23.84	AVG	
8	1.8660	17.99	20.14	38.13	56.00	-17.87	QP	
9	1.9780	1.89	20.14	22.03	46.00	-23.97	AVG	
10	2.4340	18.61	20.15	38.76	56.00	-17.24	QP	
11	2.5180	1.55	20.15	21.70	46.00	-24.30	AVG	
12	3.5980	15.68	20.17	35.85	56.00	-20.15	QP	

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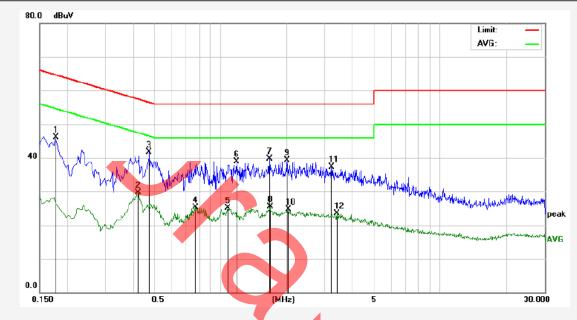
Page 14 of 38

Report No.: SZAWW190619003-01E

Conducted Emission Test Data

Test Site:1Operating Condition:MTest Specification:AComment:M

Data 1# Shielded Room Mode 1 AC 110V, 50Hz for adapter Neutral Line Tem.: 22.1°C Hum.: 49%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1780	26.15	19.90	46.05	64.57	-18.52	QP	
2	0.4220	9.74	19.94	29.68	47.41	-17.73	AVG	
3	0.4740	21.67	19.97	41.64	56.44	-14.80	QP	
4	0.7700	5.22	20.06	25.28	46.00	-20.72	AVG	
5	1.0859	5.08	20.12	25.20	46.00	-20.80	AVG	
6	1.1860	18.86	20.12	38.98	56.00	-17.02	QP	
7	1.6780	19.51	20.13	39.64	56.00	-16.36	QP	
8	1.6860	5.39	20.13	25.52	46.00	-20.48	AVG	
9	2.0140	19.09	20.14	39.23	56.00	-16.77	QP	
10	2.0460	4.59	20.14	24.73	46.00	-21.27	AVG	
11	3.2139	17.06	20.16	37.22	56.00	-18.78	QP	
12	3.3820	3.28	20.17	23.45	46.00	-22.55	AVG	

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Page 15 of 38



3.2. Radiated Emission Test

3.2.1. Test Standard and Limit

Test Standard	ETSI EN 301 489-	1 V2.2.0 C	Clause 8.2	Andhotek	Anbotek	Anbor A
Basic Standard	EN 55032: 2015	Anbotek	Anboro	Ann botek	Anbotek	Anbor
An botek Ant	Radiated E	mission Te	est Limit (Belo	w 1000MHz)	k Anboteh	Anbo

F	Limit (dBµV/m)								
Frequency (MHz)	Quasi-peak Level								
	Class B	Class A							
30MHz~230MHz	Andrew 40 hotek	50 bout							
230MHz~1000MHz	et Antonio 47 Antonio	57							

Remark: 1. The lower limit shall apply at the transition frequency. 2. The test distance is 3m.

Radiated Emission Test Limit (Above 1000MHz)

		Limit ((dBµV/m)		
Frequency (MHz)	Class	В	Class A		
	Peak	Average	Peak	Average	
1000 MHz -3000 MHz	70	50	76	56 of 6	
3000 MHz -6000 MHz	74	54	80	60 John	
Remark: 1. The lower limit applies at t	he transition freque	ncy. 2. The test of	distance is 3m.	not Au note	

Radiated Emission Test Limit for FM Receivers

F	Limit (dBµV/m) Quasi-peak Level								
Frequency (MHz)									
(ועורוב)	F	undamenta	al	Harmonics					
30MHz~230MHz	nbor Ar	60	Anboten	And	52 de 1	Auporo			
230MHz~300MHz	Anbore	60	Anbotek	Anbo	52 star	Anboth			
300MHz~1000MHz	Anbore	60	K abote	K Anbor	56	K ant			

Remark: 1. The lower limit shall apply at the transition frequency. 2. The test distance is 3m.

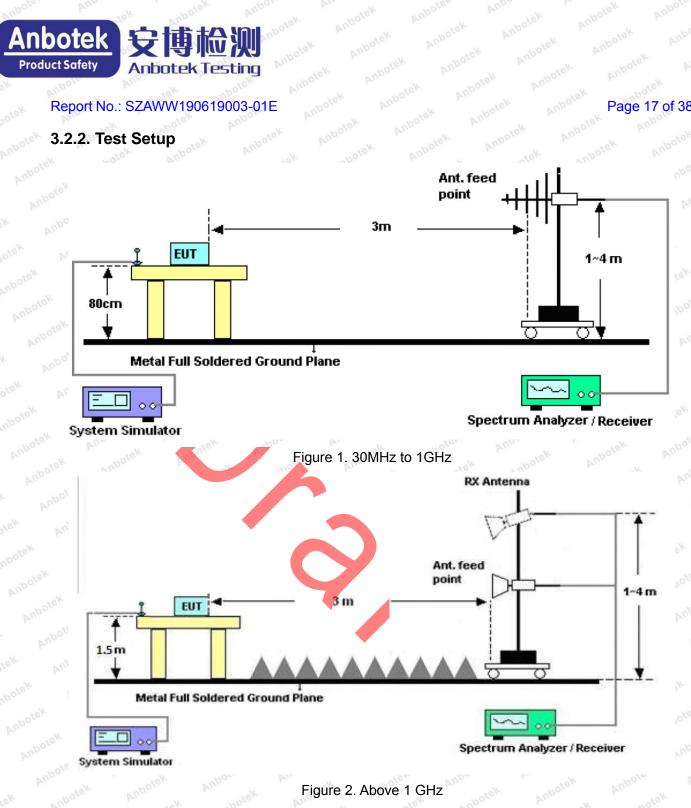
Frequency Range of Radiated Measurement

Highest frequency generated or Upper frequency of					
measurement used in the device or on which the device	Range (MHz)				
operates or tunes (MHz)					
Below 108	1000				
108 - 500	2000				
500 – 1000	5000				
Above 1000	5th harmonic of the highest frequency or 6 GHz, whichever is lower				

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Page 16 of 38



3.2.3. Test Procedure

1) The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

2) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter test site. The table was rotated 360 degrees to determine the position of the highest radiation.

3) The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

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4) The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

5) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

6) The test receiver/spectrum was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.

7) For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.

The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak/ Average detection at frequency above 1GHz.

3.2.4. Test Data

PASS

The EUT should be compliance to the limit of Class B Only the worst case data was showed in the report, please to see the following pages

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Report No.: SZAWW190619003-01E

Test Results (30~1000MHz)

Job No.: Standard: Test Mode: SZAWW190619003-01E EN301489_Class B_3m Mode 1 Temp.(°C)/Hum.(%RH): Power Source: Polarization: 24.9℃/51%RH AC 230V, 50Hz for adapter Horizontal



	No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)		Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
	1	31.7313	36.32	-18.93	17.39	40.00	-22.61	peak			
1	2	74.3955	40.35	-23.24	17.11	40.00	-22.89	peak			
	3	82.3588	40.24	-23.80	16.44	40.00	-23.56	peak			
į	4	248.5519	36.31	-19.34	16.97	47.00	-30.03	peak			
	5	426.5210	32.70	-13.63	19.07	47.00	-27.93	peak			
	6	857.0247	33.50	-6.65	26.85	47.00	-20.15	peak			

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Page 19 of 38

Report No.: SZAWW190619003-01E

Mode 1

Test Results (30~1000MHz)

Job No.: Standard:

Test Mode:

SZAWW190619003-01E EN301489_Class B_3m Temp.(℃)/Hum.(%RH): Power Source: Polarization: 24.9℃/51%RH AC 230V, 50Hz for adapter Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	31.6202	43.75	-17.93	25.82	40.00	-14.18	peak			
2	59.0251	34.89	-17.34	17.55	40.00	-22.45	peak			
3	81.4970	38.35	-21.10	17.25	40.00	-22.75	peak			
4	142.8243	31.76	-19.46	12.30	40.00	-27.70	peak			
5	401.8385	29.82	-13.08	16.74	47.00	-30.26	peak			
6	848.0563	31.35	-5.81	25.54	47.00	-21.46	peak			

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Page 20 of 38

安博检测 Anbotek **Product Safety** Anbotek Testing

Report No.: SZAWW190619003-01E

Test Results (30~1000MHz)

Job No.: Standard: SZAWW190619003-01E EN301489_Class B_3m

Temp.(°C)/Hum.(%RH): Power Source: Polarization:

24.9°C/51%RH AC 110V, 50Hz for adapter

Test Mode:

Mode 1

Horizontal



No.	⊢req. (MHz)	(dBuV)	Factor (dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	Height (cm)	degree (deg)	Remark
1	31.6202	36.13	-18.93	17.20	40.00	-22.80	peak			
2	43.0505	32.26	-17.55	14.71	40.00	-25.29	peak			
3	91.1746	39.81	-24.80	15.01	40.00	-24.99	peak			
4	241.6763	36.97	-19.03	17.94	47.00	-29.06	peak			
5	350.4768	33.22	-15.04	18.18	47.00	-28.82	peak			
6	714.1734	32.30	-9.06	23.24	47.00	-23.76	peak			

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Page 21 of 38

Report No.: SZAWW190619003-01E

Test Results (30~1000MHz)

Job No.: Standard:

Test Mode:

SZAWW190619003-01E EN301489_Class B_3m

Mode 1

Temp.(℃)/Hum.(%RH): Power Source: Polarization: 24.9℃/51%RH AC 110V, 50Hz for adapter Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	35.2512	40.87	-17.83	23.04	40.00	-16.96	peak			
2	58.8185	35.24	-17.32	17.92	40.00	-22.08	peak			
3	83.2298	40.40	-20.49	19.91	40.00	-20.09	peak			
4	198.5880	33.46	-16.74	16.72	40.00	-23.28	peak			
5	378.5843	30.89	-13.48	17.41	47.00	-29.59	peak			
6	779.6068	33.02	-7.23	25.79	47.00	-21.21	peak			

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Page 22 of 38

Report No.: SZAWW190619003-01E

Test Results (1GHz~6GHz)

est Results (In	GHZ~0GHZ)						
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Detector
1319.51	47.39	-2.62	44.77	70.00	-25.23	HAUP	PEAK
1851.59	48.05	-2.58	45.47 M	70.00	-24.53	e ^w H P	PEAK
2240.79	52.35	-4.02	48.33	70.00	-21.67	pote ^Y H	PEAK
3949.31	45.63	-4.75	40.88	74.00	-33.12	nbd H	PEAK
4603.71	46.20	-5.18	41.01	74.00	-32.99	Hotek	PEAK
4944.50	52.47	-5.94	46.53	74.00	-27.47	H	PEAK
1319.51	40.68	-2.62	38.07	50.00	-11.93	N H	AVG
1851.59	42.77	-2.58 m ^b	40.19	50.00	-9.81	H	AVG
2240.79	42.28	-4.02	38.26	50.00	-11.74	H	AVG
3949.31	39.97	-4.75	35.22	54.00	-18.78	Anbour H .ok	AVG
4603.71	43.78	-5.18	38.60	54.00	-15.40	H ^A	AVG
4944.50	38.85	-5.94	32.91	54.00	-21.09	Hupo	AVG
1367.43	46.91	-2,42	44.48	70.00	-25.52	N N	PEAK
1903.75	50.44	-2.69	47.75	70.00	-22.25	o ^{vek} V	PEAK
1910.06	53.62	-3.68	49.95	70.00	-20.05	nb ^o V ^K	PEAK
4119.01	52.08	-4.72	47.36	74.00	-26.64	Votek	PEAK
4689.38	53.88	-5.01	48.87	74.00	-25.13	Vnbot	PEAK
5038.17	48.51	-6.17	42.34	74.00	-31.66	V	PEAK
1367.43	36.98	-2.42	34.56	50.00	-15.44	Ne ^w V	AVG
1903.75	38.55	-2.69	35.86	50.00	-14.14	V	AVG
1910.06	38.50	-3.68	34.83	50.00	-15.17	ND Veter	AVG
4119.01	45.56	-4.72	40.84	54.00	-13.16	V	AVG
4689.38	38.23	-5.01	33.23	54.00	-20.77	V	AVG
5038.17	39.00	-6.17	32.84	54.00	-21.16	V AN	AVG

Remark:

1. Level =Receiver Read level + Antenna Factor

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4. Immunity Test

General Performance Criteria

◆ Performance criteria for continuous phenomena applied to transmitters and receivers (CT/CR) During and after the test, the apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level specified by the manufacturer when the apparatus is used as intended. In some cases this permissible performance level may be replaced by a permissible loss of performance.

During the test the EUT shall not unintentionally transmit or change its actual operating state and stored data.

If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be deduced from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.

◆ Performance criteria for transient phenomena applied to transmitters and receivers (TT/TR) After the test, the apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level specified by the manufacturer, when the apparatus is used as intended. In some cases this permissible performance level may be replaced by a permissible loss of performance.

During the EMC exposure to an electromagnetic phenomenon, a degradation of performance is, however, allowed. No change of the actual mode of operation (e.g. unintended transmission) or stored data is allowed.

If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be deduced from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.

◆ Performance criteria for equipment which does not provide a continuous communication link For radio equipment which does not provide a continuous communication link, the performance criteria described in CT/CR and TT/TR are not appropriate, then the manufacturer shall declare, for inclusion in the test report, his own specification for an acceptable level of performance or degradation of performance during and/or after the immunity tests.

The performance criteria specified by the manufacturer shall give the same degree of immunity protection as called for in CT/CR and TT/TR.

◆ Performance criteria for ancillary equipment tested on a stand alone basis

If ancillary equipment is intended to be tested on a stand alone basis, the performance criteria described in CT/CR and TT/TR are not appropriate, then the manufacturer shall declare, for inclusion in the test report, his own specification for an acceptable level of performance or degradation of performance during and/or after the immunity tests.

The performance criteria specified by the manufacturer shall give the same degree of immunity protection as called for in CT/CR and TT/TR.

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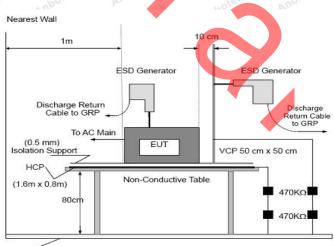


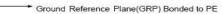
4.1. Electrostatic Discharge Test

4.1.1. Test Standard and Specification

Test Standard	ETSI EN 301 489-1 V2.2.0 Clause 9.3/ EN 55035 Clause 4.2.1
Basic Standard	EN 61000-4-2: 2009
Discharge Impedance	330 ohm / 150 pF
Performance Criterion	CT/CR
Discharge Voltage	Air Discharge: 2kV/4kV/8kV Contact Discharge: 2kV/4kV (Direct/Indirect)
Polarity	Positive & Negative
Number of Discharge	Air Discharge: min. 20 times at each test point Contact Discharge: min. 200 times in total
Discharge Mode	Single Discharge
Discharge Period	1 second minimum

4.1.2. Test Setup





Note:

TABLE-TOP EQUIPMENT:

The configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940kohm total impedance. The equipment under test, was installed in a representative system as described in section 7 of IEC /EN 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

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Report No.: SZAWW190619003-01E

FLOOR-STANDING EQUIPMENT:

The equipment under test was installed in a representative system as described in section 7 of IEC/EN 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of 0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.

4.1.3. Test Procedure

The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

- 1) Contact discharge was applied to conductive surfaces and coupling planes of the EUT.
 - During the test, it was performed with single discharges. For the single discharge time between successive single discharges was at least 1 second.
 - Vertical Coupling Plane (VCP):
 - The coupling plane, of dimensions $0.5m \times 0.5m$, is placed parallel to, and positioned at a distance 0.1m from, the EUT, with the Discharge Electrode touching the coupling plane.
 - The four faces of the EUT will be performed with electrostatic discharge.
 - Horizontal Coupling Plane (HCP):
 - The coupling plane is placed under to the EUT. The generator shall be positioned vertically at a distance of 0.1m from the EUT, with the Discharge Electrode touching the coupling plane.
 - The four faces of the EUT will be performed with electrostatic discharge.
 - 2) Air discharges at insulation surfaces of the EUT.
 - It was at least ten single discharges with positive and negative at the same selected point.
- 3) When applying direct discharges to a portable or handheld battery-powered EUT with a
- display screen, it may not be possible to observe the screen for a given EUT orientation. If observation of the screen is necessary during this test, the EUT may be mounted vertically using non-metallic supports.
- 4) For the actual test configuration, please refer to the related Item –EUT Test Photos.

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Page 26 of 38

4.1.4. Test Data

Page 27 of 38

Job No.:	SZAWW190619	9003-01E	Temp.(℃)/Hum.(%RH):	24.3℃/55%RH
Standard:	EN 61000-4-2		Power Source:	AC 230V, 50Hz for adapter/ DC 3.7V battery inside
Test Mode:	All Mode			

	Contact Discharge to c	conducted surfaces and			
Item	to coupli	Air Discharge at insulating			
c	Direct Contact Discharge	Indirect Contact Discharge	surfaces		
Test Voltage	Reaction of EUT / Result	Reaction of EUT / Result	Reaction of EUT / Result		
+2kV	n.r.r. PASS	n.r.r. PASS	n.r.r. PASS		
-2kV	n.r.r. PASS	n.r.r. PASS	n.r.r. PASS		
+4kV	n.r.r. PASS	n.r.r. PASS	n.r.r. PASS		
-4kV	n.r.r. PASS	n.r.r. PASS	n.r.r. PASS		
+6kV	Anbotek Anbo	atek Anbotek Anbote	n.r.r. PASS		
-6kV	Anbotek Anbo	Anboien Ano	n.r.r. PASS		
+8kV over	Anbove Anbotek	Anbotok Anbotok Anbotok	n.r.r. PASS		
-8kV	otek Anbotek Anboten	K Anbotek - Anbotek	n.r.r. PASS		

Remarks: n.r.r. = no reaction recognized

Performace Criteria B observed and No any function degraded during the tests.

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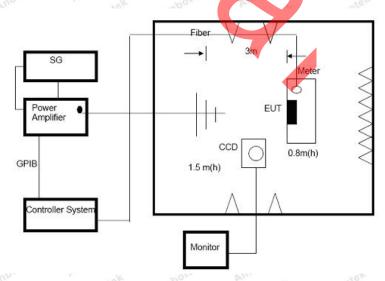


4.2. Radiated, RF Electromagnetic Fields Test

4.2.1. Test Standard and Specification

por her u	and the state of t
Test Standard	ETSI EN 301 489-1 V2.2.0 Clause 9.2/ EN 55035 Clause 5
Basic Standard	EN 61000-4-3: 2006+A1: 2008+A2: 2010
Required Performance	A And hotek Andotek Andotek Andotek Andotek Andotek
Frequency Range	80MHz to 6GHz
Field Strength	3 V/m
Modulation	1kHz Sine Wave, 80%, AM Modulation
Frequency Step	1 % of preceding frequency value
Polarity of Antenna	Horizontal and Vertical
Test Distance	3 m Ante botek Anborek Anborek Anborek Anborek Anborek
Antenna Height	1.5 m
Dwell Time	at least 0.5 seconds
	LAU AU AU

4.2.2. Test Setup



4.2.3. Test Procedure

The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber. The testing distance from antenna to the EUT was 3 meters.

1) The field strength level was 3V/m

2) The frequency range is swept from 80 MHz to 6000 MHz with the signal 80% amplitude modulated with a 1kHz sine wave.

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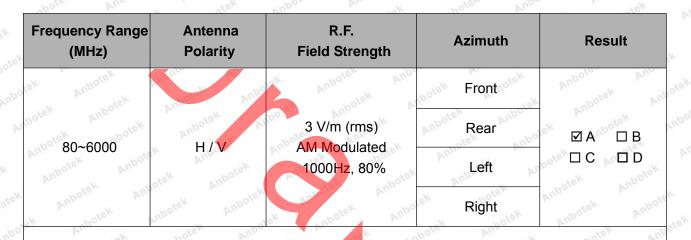
Page 29 of 38

3) The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond, but shall in no case be less than 0.5s.

4) The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

4.2.4. Test Data

Job No.:	SZAWW190619003-01	E Temp.(℃)/Hum.(%RH):	21.6℃/52.1%RH	
Standard:	EN 61000-4-3	Power Source:	AC 230V, 50Hz for adapter/ DC 3.7V battery inside	
Test Mode:	All Mode		Anbote, Anotek Anbo	



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Page 30 of 38

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Test



Photo of Radiation Emission Test



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Photo of Electrostatic Discharge Test

Page 31 of 38



Photo of RF Field Strength Susceptibility Test



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Page 32 of 38

APPENDIX II -- EXTERNAL PHOTOGRAPH



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Page 33 of 38



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Page 34 of 38

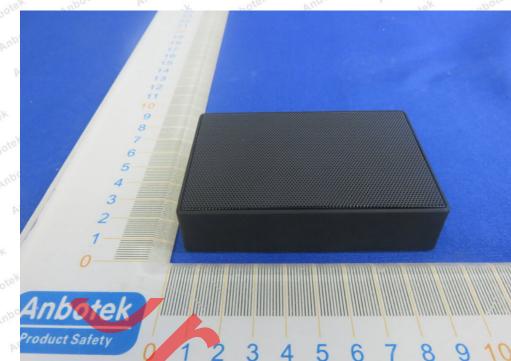


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Page 35 of 38



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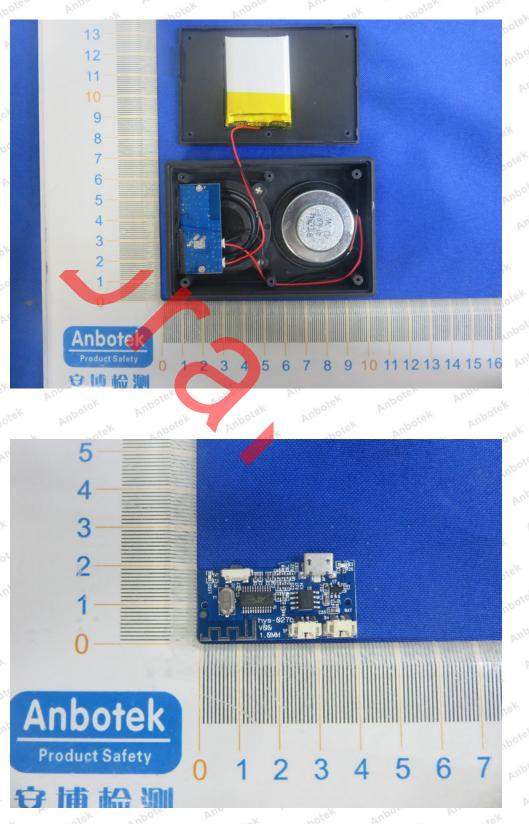
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Page 36 of 38

APPENDIX III -- INTERNAL PHOTOGRAPH



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Page 37 of 38



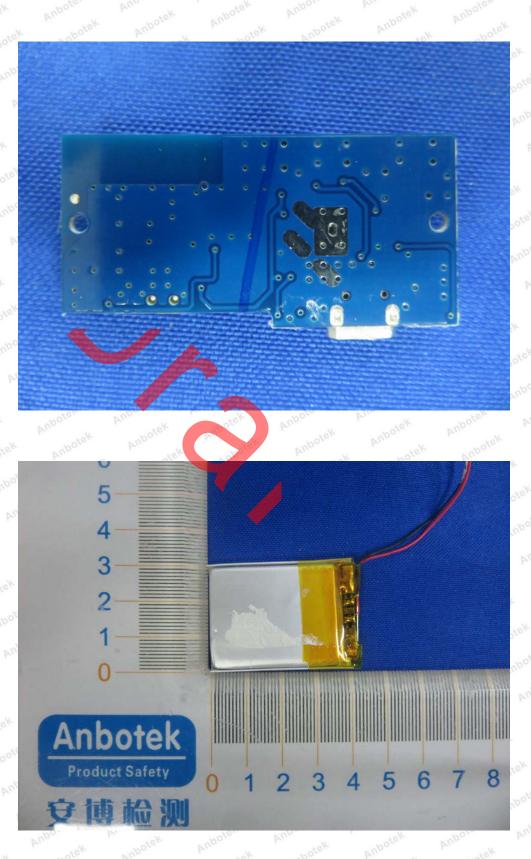


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Page 38 of 38



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