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EMC Test Report

Client Name : Shen Zhen JHC Technology Development Co., LTD

B, 3rd Fl, A Block Junxiangda Bldg., No.9

Address : Zhongshanyuan Rd. West, Tongle Village, Nanshan

District, Shenzhen City, China, 518052

Product Name : Fanless In-Vehicle Computer

Date : Jan. 15, 2020

Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-EMC-02-b



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TEST REPORT

Applicant Shen Zhen JHC Technology Development Co., LTD

Manufacturer Shen Zhen JHC Technology Development Co., LTD

Product Name Fanless In-Vehicle Computer

Model No. SIGM-2650/S002, SIGM-2650/S001, SIGM-2650/S003, SIGM-2650/S004,

SIGM-2650/T001, SIGM-2650/T002, SIGM-2650/T003, SIGM-2650/T004

Trade Mark **JHCTECH**

Rating(s) DC 48-110V, 1A

EN 50155: 2017: Test Standard(s)

EN 50121-3-2: 2016;

(IEC 61000-4-2; IEC 61000-4-3; IEC 61000-4-4; IEC 61000-4-5; IEC 61000-4-6; IEC 61000-4-8)

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 50121-3-2 ande EN 50155 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: Dec. 11, 2019

Dec. 11~19, 2019 Date of Test:

Compliance Prepared By:

Well Work **Anbotek**

Reviewer: (Supervisor / Well Wang) * Approved

Approved & Authorized Signer:

(Manager / Tom Chen)

Winnie Huan

(Engineer / Winnie Huang)



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1. General Information

1.1. Client Information

	100	A. S.
Applicant	:	Shen Zhen JHC Technology Development Co., LTD
Address	:	B, 3rd Fl, A Block Junxiangda Bldg., No.9 Zhongshanyuan Rd. West, Tongle Village, Nanshan District, Shenzhen City, China, 518052
Manufacturer	:	Shen Zhen JHC Technology Development Co., LTD
Address	:	B, 3rd Fl, A Block Junxiangda Bldg., No.9 Zhongshanyuan Rd. West, Tongle Village, Nanshan District, Shenzhen City, China, 518052
Factory	:	Shen Zhen JHC Technology Development Co., LTD
Address	:	B, 3rd Fl, A Block Junxiangda Bldg., No.9 Zhongshanyuan Rd. West, Tongle Village, Nanshan District, Shenzhen City, China, 518052

1.2. Description of Device (EUT)

Product Name	Fanless In-Vehicle Computer
Model No.	: SIGM-2650/S002, SIGM-2650/S001, SIGM-2650/S003,SIGM-2650/S004, SIGM-2650/T001, SIGM-2650/T002, SIGM-2650/T003, SIGM-2650/T004 (Note: All samples are the same except the model number & S series belongs to full function, T series simplifies interface, so we prepare "SIGM-2650-S002" for test only.)
Trade Mark	: JHCTECH
Test Power Supply	: DC 110V
Test Sample No.	: 1-1-1Aribotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Product Description	: Adapter: N/A

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

	3.7	O *	DAY.	10 (25)		7 N.	1() *	1200
N/A		:	rek Anbotek	Anbo,	W. Potek	Anboten	Ann	

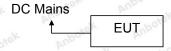


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1.4. Description of Test Mode

Pretest Mode	Description	
Mode 1	notek Anbotek Anbo Man potek	Aupoter Aug

For Mode 1 Block Diagram of Test Setup



1.5. Test Summary

Test Items	Test Mode	Status
Power Line Conducted Emission Test (150KHz To 30MHz)	Mode 1	Anbot P Ar
Radiated Emission Test (30MHz To 6GHz)	Mode 1	An Prek
Electrostatic Discharge immunity Test	Mode 1	hotek Anbotek
RF Field Strength susceptibility Test	Mode 1	Ambotek P Ambot
Electrical Fast Transient/Burst Immunity Test	Mode 1	Anbotek An
Surge Immunity Test	Mode 1	ek Photek
Injected Currents Susceptibility Test	Mode 1	botek P Anbotek
Magnetic Field Susceptibility Test	otek Antotek	Anbore N Ant
Voltage Dips and Interruptions Test	inpolek Aupore	Anb Nek
P) Indicates "PASS". N) Indicates "Not applicable".	Anbotek Anbot	ek Anbores

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1.6. Test Equipment List

Conducted Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
tel1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 04, 2019	1 Year
2.	L.I.S.N. Artificial Mains Network	Schwarzbeck	NSLK 8127	8127386	Nov. 04, 2019	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 04, 2019	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 04, 2019	1 Year
5.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A

Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Nov. 04, 2019	1 Year
2.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 01, 2019	1 Year
3.	Pre-amplifier	SONOMA	310N	186860	Nov. 04, 2019	1 Year
4.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	note N/A	N/A
5.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 04, 2019	1 Year
6.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 01, 2019	1 Year

Electrostatic Discharge Measurement

0	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
	1.	ESD Simulators	3Ctest	EDS-30T	ES0131505	Nov. 06, 2019	1 Year





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ALCO A	V 131.	W. W.	\$555	_20	W. E. J. V.	Also.
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1 Anbote	Signal Generator	Agilent	N5182A	MY4818065 6	Nov. 04, 2019	1 Year
2Ank	Amplifier	Micotoop	MPA-80-100 0-250	MPA190309 6	N/A	N/A Noote
×3	Amplifier	Micotoop	MPA-1000-6 000-100	MPA190312 2	N/A	N/A
ootek 4	Log-Periodic Antenna	Schwarzbeck	VULP9118E	00992	Aug. 17, 2018	3 Year
5 _{Anb}	Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 01, 2019	1 Year
6	Power Sensor	Agilent	E9301A	MY4149890 6	Nov. 04, 2019	1 Year
,o1 7 ^k	Power Sensor	Agilent	E9301A	MY4149808 8	Nov. 04, 2019	1 Year
8	Power Meter	Agilent	E4419B	GB4020290 9	Nov. 04, 2019	1 Year
9	Field Probe	ETS-Lindgren	HI-6006	00212747	Apr. 20, 2017	3 Year
10	software	EMtrace	EM 3	N/A	N/A	N/A

Electrical Fast Transient/Burst Immunity Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.9000	EFT Burst Simulator	PRIMA	EFT61004B	PR10114282	Nov. 04, 2019	1 Year
1.2	EFT-Clamp	PRIMA	EFT-Clamp	upo. K	Nov. 04, 2019	1 Year
2.1	EFT Burst Simulator	TESEQ	NSG 3060	1480	Nov. 04, 2019	1 Year
2.2	CDN	TESEQ	CDN 3061	1408	Nov. 04, 2019	1 Year

Surge Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Surge Generator	TESEQ	NSG 3060	1480	Nov. 04, 2019	1 Year
2.	CDN	TESEQ	CDN 3061	1408	Nov. 04, 2019	1 Year
nb 3.	Telecom port surge generator	PMI	TW101	190411	Apr.17,2019	1 Year

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Injected Currents Susceptibility Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Anbor 1. An	C/S Conducted Immunity Test System	FRANKONIA	CIT-10	126A1196/20 12	Nov. 04, 2019	1 Year
2.	CDN	FRANKONIA	CDN - M2+ M3	A2210178/20 12	Nov. 04, 2019	1 Year
3.	6dB Attenuator	FRANKONIA	DAM 26W	1172202	Nov. 04, 2019	1 Year
4.	CIT-10	FRANKONIA	Version1.1.7	N/A	N.A	N/A
5.	EM-Clamp	FRANKONIA	EMCL-20	18101728-01 03	May.19,2019	1 Year

1.7. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 27, 2019.

ISED-Registration No.: 8058A-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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1.8. EMS Performance Criteria

- $\sqrt{}$ A: Normal performance within the specification limits
- √ B: Temporary degradation or loss of function or performance which is self-recoverable
- √ C: Temporary degradation or loss of function or performance which requires operator intervention or system reset
- √ 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. Power Line Conducted Emission Test

2.1. Test Standard and Limit

Test Standard	EN 50155 (EN 50121-3-2)	Anbore	Ann	Anbotek	Vupe.
	The state of the s		- 6.7		

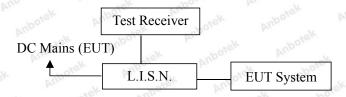
Limits for conducted emissions

	Frequency	At mains terminals (dBμV)				
To all leads	(MHz)	Quasi-peak Level				
Test Limit	0.15 ~ 0.50	99 rek				
	0.50 ~ 30.00	93				

Remark: (1) The lower limit shall apply at the transition frequencies.

(2) This requirement refers to the industrial limit values but considering they have been defined to protect radio and TV sets and as the objective is not the same here, the applicable limit for railway applications have been relaxed by 20 dB to be more representative of potential problems. This product may cause radio interference in which

2.2. Test Setup



2.3. EUT Configuration on Measurement

The following equipments are installed on conducted emission measurement to meet EN 50155 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

2.4. Operating Condition of EUT

- 2.4.1. Setup the EUT as shown in Section 2.2.
- 2.4.2. Turn on the power of all equipments.
- 2.4.3. Let the EUT work in test mode and measure it.

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2.5. Test Procedure

The EUT is put on the plane 0.8 m high above the ground by insulating support and connected to the DC mains through Line Impedance Stability Network(L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of DC line are investigated to find out the maximum conducted emission according to the EN 50121-3-2 regulations during conducted emission measurement.

The bandwidth of the field strength meter (R&S Test Receiver ESCI) is set at 9kHz in 150kHz~30MHz.

The frequency range from 150kHz to 30MHz is investigated for DC mains.

All the test results are listed in Section 2.6.

2.6. Test Results

PASS

The test curves are shown in the following pages.



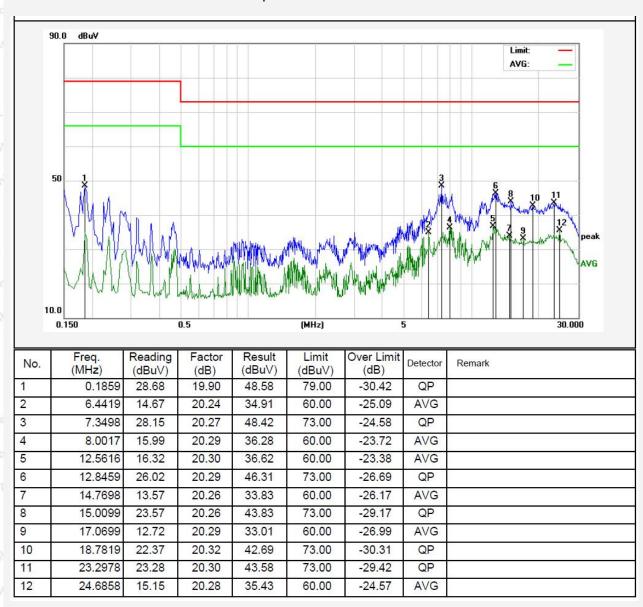
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Conducted Emission Test Data

Test Site: 1# Shielded Room

Test Specification: DC 110V
Comment: Positive

Temp.: 24.6° Hum.: 48%





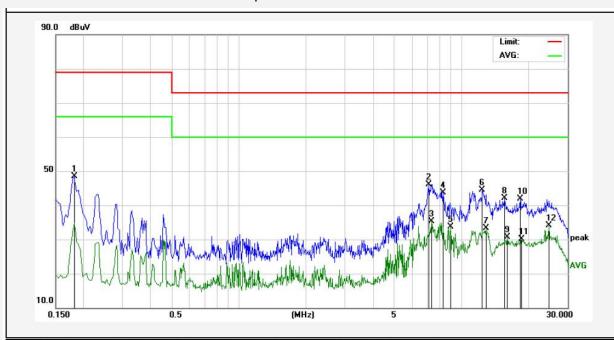
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Conducted Emission Test Data

Test Site: 1# Shielded Room

Test Specification: DC 110V
Comment: Negative

Temp.: 24.6℃ Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1819	28.69	19.90	48.59	79.00	-30.41	QP	
2	7.1740	25.78	20.26	46.04	73.00	-26.96	QP	
3	7.3498	14.94	20.27	35.21	60.00	-24.79	AVG	
4	8.2380	23.44	20.29	43.73	73.00	-29.27	QP	
5	8.9496	13.44	20.31	33.75	60.00	-26.25	AVG	
6	12.4300	24.28	20.30	44.58	73.00	-28.42	QP	
7	12.8619	13.00	20.29	33.29	60.00	-26.71	AVG	
8	15.5860	21.87	20.27	42.14	73.00	-30.86	QP	
9	16.1259	10.46	20.28	30.74	60.00	-29.26	AVG	
10	18.3580	21.61	20.31	41.92	73.00	-31.08	QP	
11	18.6339	9.74	20.32	30.06	60.00	-29.94	AVG	
12	24.7099	13.90	20.28	34.18	60.00	-25.82	AVG	



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3. Radiated Emission Test

3.1. Test Standard and Limit

Test Standard EN 50155 (EN 50121-3-2)				
---------------------------------------	--	--	--	--

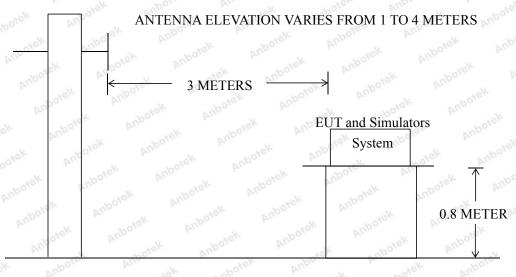
Radiated Emission Test Limit

30~1000MHz						
Test Limit	Frequency (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dBµV/m)			
root Emili	30 ~ 230	Anbote 3 And	5	O Anbo		
	230 ~ 1000	ak abo 3k Anbo	5	7ek Anbo		
	1~60	GHz				
	Frequency	DISTANCE	FIELD STRENGTHS LIMIT			
Test Limit	(GHz)	(Meters)	Average (dBμV/m)	Peak (dBμV/m)		
	matel 1 ~ 3 ambotion	And tek 3 abotek	56	76		
	3 ~ 6	Anbor 3	60	80		

Remark: (1)The smaller limit shall apply at the combination point between two frequency bands.

- (2) Distance r efers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.
- (3) 3M Limit=10M Limit+k k=20log(D1/D2)=10 3M Limit=10M Limit +10 (D1= 10M D2=3M)

3.2. Test Setup



GROUND PLANE



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3.3. EUT Configuration on Measurement

The EN 50155 regulations test method must be used to find the maximum emission during radiated emission measurement.

3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT as shown in Section 3.2.
- 3.4.2. Turn on the power of all equipments.
- 3.4.3. Let the EUT work in test mode and measure it.

3.5. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 10 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. Bilog antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the Receiver (ESCI) is set at 120kHz.

The EUT is tested in 9*6*6 Chamber.

The test results are listed in Section 3.6.

3.6. Test Results

PASS

The frequency range from 30MHz to 1000MHz is investigated.

The test curves are shown in the following pages.

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Test item: Radiation Test Polarization: Horizontal

Standard: (RE)EN 50121-3-2_Class
A_30~1000MHz Power Source: DC 110V

Distance: 3m Temp.(℃)/Hum.(%RH): 22.6(℃)/57%RH





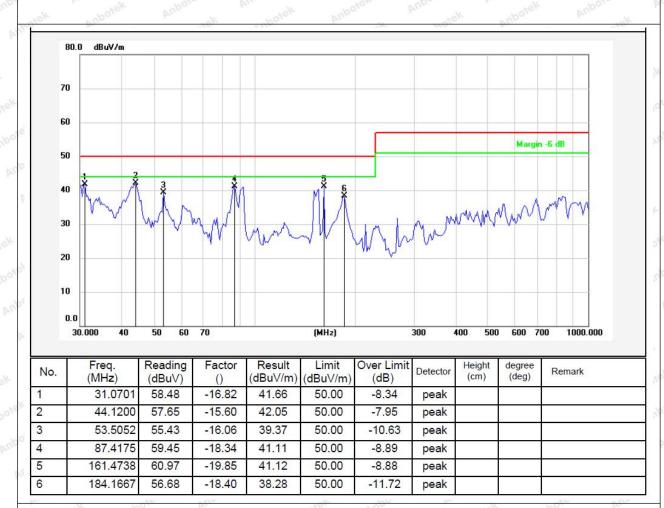
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Test item: Radiation Test Polarization: Vertical

(RE)EN 50121-3-2_Class
Standard: Power Source: DC 110V

A_30~1000MHz

Distance: 3m Temp.(℃)/Hum.(%RH): 22.6(℃)/57%RH



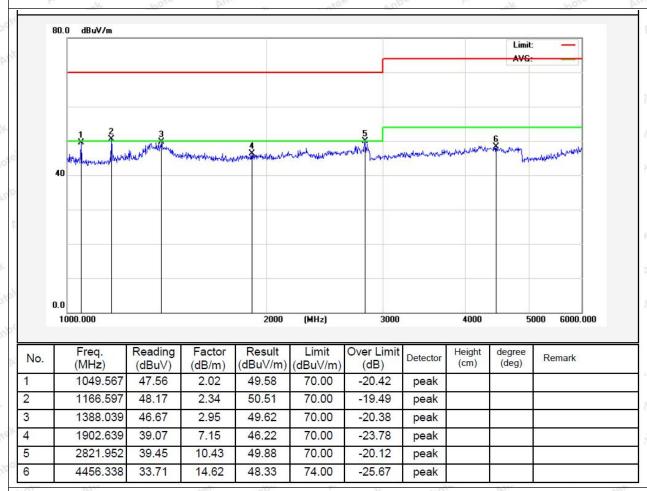


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Test item: Radiation Test Polarization: Horizontal

Standard: (RE)EN 50121-3-2_Class Power Source: DC 110V

Distance: 3m Temp.(℃)/Hum.(%RH): 23(℃)/54%RH





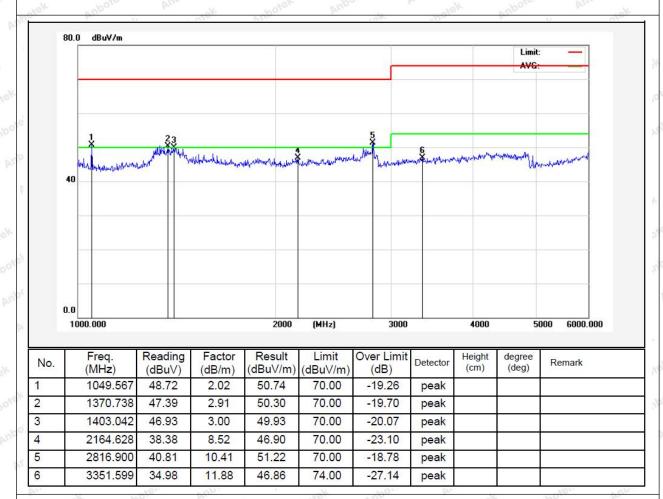
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Test item: Radiation Test Polarization: Vertical

Standard: (RE)EN 50121-3-2_Class Power Source: DC 110V

A_1-6GHz

Distance: 3m Temp.(℃)/Hum.(%RH): 23(℃)/54%RH





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4. Electrostatic Discharge Immunity Test

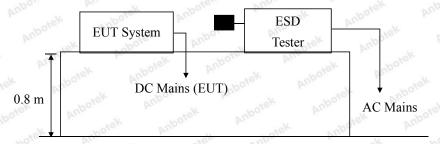
4.1. Test Standard and Level

Test Standard:	EN 5	50155 (IEC 6	1000-4-2)	Arr. botek	Anbotek	Aupo
Performance Criterion:	В	Anbotek	Anborn	Amabotek	Anboren	V PUD
Severity Level: 3 / Air Discharge: ±	8kV, Leve	el: 3 / Contac	t Discharge:	±6kV	Anbore	P

Test Level

Lovol		Test Voltage	Test Voltage
	Level	Contact Discharge (kV)	Air Discharge (kV)
. ek	1 Dotek	Anbores And Hotek	nbo tek nbotek ±2 Anbotek Ant
03	ek 2. nbotek	Anbore And +4 k	Ambore ±4 Ambore
100	otek 3. Anbote	k Anbout tek ±6otek Anb	And Lotek And ±8 Ando
Am	hotel4. And	otek Anbot tek ±8 nbotek A	tabel to the state of the state
	X.	Special	Special

4.2. Test Setup



4.3. EUT Configuration on Measurement

The following equipments are installed on electrostatic discharge immunity measurement to meet EN 50155 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT as shown on Section 4.2.
- 4.4.2. Turn on the power of all equipments.
- 4.4.3. After that, let the EUT work in test mode measure it.

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Code:AB-EMC-02-b



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4.5. Test Procedure

4.5.1. Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed

4.5.2. Contact Discharge:

All the procedure shall be same as Section 4.5.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

4.5.3. Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

4.5.4. Indirect discharge for vertical coupling plane

At least 20 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m × 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

4.6. Test Results

PASS

Please refer to the following page.

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400-003-0500
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Electrostatic Discharge Test Results

Air discharge :	±8.0k\	ok Anbore An	Temperature :	25℃	Anbotek
Contact discharge :	±6.0k\	Jores And	Humidity :	54%	Aupole
Power Supply : DC 110V			Criterion required :	B Anbor	otek Anb
Number of discharge :	10	Anborek Anbor	Test Result:	⊠ Pass	☐ Fail
Anbotek Anbotek	Anbore	Anbore And	unbotek Anbotek	Anbe	Anborek
Anbotek Anbotek	_ocatio	notek Anbotek	Kind A-Air Discharge C-Contact Discharge	V 100	sult Anbo
Slot of the EUT	obotek	10 points	Anbor A Anb	✓ A	□ B □ D
Others	Aupose	8 points	nbotek Anbotek	☑ A □ C	□ B □ D
HCP potek Anbote	k Pur	4 points	Anbotek C Anbotek	☑ A □ C	□ B
VCP of the front	otek otek	4 points	Anbotek C Anbo	⊠ A □ C	□ B □ D
VCP of the rear	Anborek	4 points	hoptek Ant Cek A	☑ A □ C	□ B □ D
VCP of the left	Aupo	4 points	Anbotek C Anbotek	☑ A □ C	□ B □ D
VCP of the right	yek A	4 points	Amborek C Amborek	☑ A □ C	□ B
hotek Anbotek Ar	hotek	Anbotek Anbot	ek Anbore Andrek Ar	loosek th	botek
Anbotek Anbotek	Anbo	iek Anborek An	potek Anbotek	Aupotek	Anbu
Remark: Discharge sho and Vertical Coupling Pla			and Air and Horizontal C	oupling Plane	e (HCP)



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5. RF Field Strength Susceptibility Test

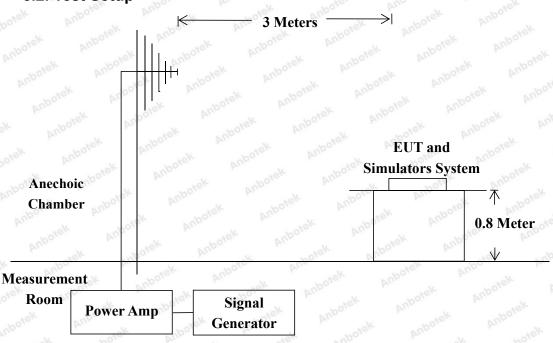
5.1. Test Standard and Level

Id ECVCI
EN 50155 (IEC 61000-4-3)
A An Lotek Anborek Anborek Anborek Anbore
80MHz to 1000MHz/ 1.4 to 2.0 GHz/ 2.0 to 2.7 GHz/ 5.1 to 6.0 GHz
10V/m & 10V/m & 5V/m & 3V/m
1kHz Sine Wave, 80%, AM Modulation
1 % of preceding frequency value
Horizontal and Vertical
3 m And tek Anborek Anborek Anborek Anborek Anborek
1.5 m Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
at least 0.5s

Test Level

	Level	Field Strength V/m					
	Level						
	Anbotek 1. anbotek Anb	and And Andrew Andrew Andrew Andrew Andrew					
NO.	Anbo ntek 2. Anbotek	upone Ambotek Anbotek 3 Anbo otek Anbotek Ar					
n'o	oter Anbotek	Anbor Anborek Anborek Anborek					
Δ.	hoote. X Anbotek	Special					

5.2. Test Setup



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5.3. EUT Configuration on Measurement

The following equipments are installed on RF Field Strength susceptibility Measurement to meet EN 50155 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

5.4. Operating Condition of EUT

- 5.4.1. Setup the EUT as shown on Section 5.2.
- 5.4.2. Turn on the power of all equipments.
- 5.4.3. After that, let the EUT work in test mode measure it.

5.5. 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) 80 MHz to 1000 MHz the field strength level was 10V/m, 1.4 GHz to 2.0 GHz the field strength level was 10V/m, 2.0 GHz to 2.7 GHz the field strength level was 5V/m, 5.1 GHz to 6.0 GHz the field strength level was 3V/m.
- 2) The frequency range is swept from 80 MHz to 1000 MHz, 1.4 GHz to 2.0 GHz,
- 2.0 GHz to 2.7 GHz, 5.1 GHz to 6.0 GHz with the signal 80% amplitude modulated with a 1kHz sine wave.
- 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.

5.6. Measuring Results

PASS

Please refer to the following page.





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RF Field Strength Susceptibility Test Results

Field Strength:	20V/m	Temperature :	25℃
Criterion required :	Ambores Anbores	Humidity:	54%
Power Supply :	DC 110V	Test Result :	⊠ Pass □ Fail
Dwell Time:	1s Anbotek Ar	boten And	Anbotek Anbotek An

Frequency Range	Antenna Polarity	R.F. Field Strength	Azimuth	Result
Anbore Ane	ak Anbotek	Anbotek Anbote	Front	hotek Anbo
00041 4000041	otek Anbotek	- A/A	Rear	☑A □B
80MHz~1000MHz	H/V	10 V/m (rms)	Left house	\Box C \Box D
botek Anbore		botek Anbo botek	Right	
Anbotek Anbo	Anbotek	Anbolto Ana abotek	Front	notek anbotek
4.4011- 0.0011-	k II Anbotek	40) (((Rear	ØA □B
1.4GHz~2.0GHz	H/V	10 V/m (rms)	Left	
ak Anboren unt		ek Aupo, atek	Right	
Dolek Aupor	abotek Ar	potek Anbotek	Anbotek Front Anbote	ek abotek
0.0011- 0.7011-	Ai.	V 13 m	Rear	ØA □B
2.0GHz~2.7GHz	H/V	5 V/m (rms)	Left	□C □D
Anbotek Anbote		Anbore. And	Right	
k Aupole, Aup	nbotek Anbot	ak Anbo. An	porek Front	And
0,		Johek Anbore Ar	Rear	☑A □B
5.1GHz~6.0GHz	H/V	3 V/m (rms)	Left Anbor	
Anbotek Anbote		Anbotek Anbu	Right	
Anbotek Anbote	tek Anbotek	Anbores Anbor	ek Anbotek	Anbotek Ant



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6. Electrical Fast Transient/Burst Immunity Test

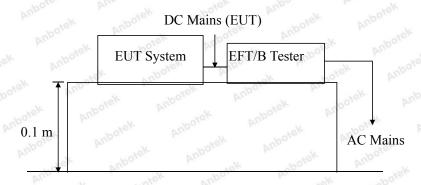
6.1. Test Standard and Level

Test Standard:	EN 8	50155 (IEC 610	00-4-4)	Anboic	Annabotek	Anbotek	Aupo
Performance criterion:	Α	Anbo	-otek	anbotek	Anboro	An abotek	Anbotek	V VIUD
DC Main: Severity Leve	1 3: 2.0	00kV	rojek	Anbotek	Anbo	ek abotek	Anbore	V P

Test Level

Ор	en Circuit Output Test Voltage ± 1	10%
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines
Am work! Ambotek	0.50 kV	0.25 kV
2. Antorek	1.00 kV	0.50 kV
Anboren And 3.	2.00 kV	1.00 kV
nnbotek A4.	4.00 kV	2.00 kV
X. 1000	Special	Special

6.2. Test Setup



6.3. EUT Configuration on Measurement

The following equipments are installed on electrical fast transient/burst immunity measurement to meet EN 50155 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

Code:AB-EMC-02-b
Hotline
400-003-0500
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6.4. Operating Condition of EUT

- 6.4.1. Setup the EUT as shown in Section 6.2.
- 6.4.2. Turn on the power of all equipments.
- 6.4.3. Let the EUT work in test mode and measure it.

6.5. Test Procedure

The EUT is put on the table which is 0.1 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

6.5.1. For input and output DC power ports:

The EUT is connected to the Power mains by using a coupling device which couples the EFT interference signal to DC Power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

6.5.2. For signal lines and control lines ports:

Select tests based on product characteristics.

6.5.3. For DC output line ports:

Select tests based on product characteristics.

6.6. Test Results

PASS

Please refer to the following page.





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Electrical Fast Transient/Burst Test Results

Ambient Condition: 2	4℃ / 55% RH	Criterion required : A	k Anbotek Anbotes
Power Supply .: DC 1	10V	Test Result : ⊠ Pass	☐ Fail
tek Anbotek Anb	nbotek Anbotek Ant	hotek Anbotek	nbotek Anbotek
Inject Line : DC N	Mains Inject Me	ethod: Direct	Inject Time(s): 120
Anbotek Line Anbotek	Polarity	Test Voltage (kV)	Result
AC Line	tek Anbotek Anbote	otek anbotek Anbr	lek Anbo Anbo
DC Line	botek Anbotek And	2.00kV	ØA □B □C □D
Signal Line	Anbotek Anbotek	Anbotek Anbotek	Anbotek Anbotek
Anbotek Anbotek Anbotek Anbotek	ek Anbotek Anbotek	Anbotek Anbotek Anbotek	botek Anbotek Anbotek



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7. Surge Immunity Test

7.1. Test Standard and Level

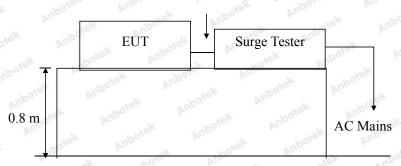
Test Standard:	EN 50155	(IEC 61000-	4-5)	prin potek	Anbotek	Aupe
Performance criterion:	Anbo otek	anbotek	Aupore	Anabotek	Anbotek	N AUD
Severity Level 2, Line to Lir	ne: 1.0kV; Severi	ty Level 3, L	ine to Earth:	2.0kV	k Anbore	, P

Test Level

Severity Level	Open-Circuit Test Voltage
Severity Level	(kV)
lek nbotek Anbote Anbo	Anboth Anboth
stek anbotek Ar 2. Anbotek Ar	botek Anbotek Anbotek
notek Anbotek 3. hootek	Anborek Anborek Anborek
And Lotek Anbotek 4. Anbot Anbotek	Amboret And Amborek Amborek
And Anborek X. Anbo tek Anborek	Special Annual A

7.2. Test Setup

DC Mains (EUT)



7.3. EUT Configuration on Measurement

The following equipments are installed on surge immunity measurement to meet EN 50155 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

7.4. Operating Condition of EUT

- 7.4.1. Setup the EUT as shown in Section 7.2.
- 7.4.2. Turn on the power of all equipments.
- 7.4.3. Let the EUT work in test mode and measure it.

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7.5. Test Procedure

- 7.5.1. Set up the EUT and test generator as shown on Section 7.2.
- 7.5.2. For line to line coupling mode, provide a 1.0 kV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.
- 7.5.3. For line to earth coupling mode, provide a 2.0 kV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.
- 7.5.4. At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 7.5.5. Different phase angles are done individually.
- 7.5.6. Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

7.6. Test Results

PASS

Please refer to the following page.

Code:AB-EMC-02-b
Hotline
400-003-0500
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Surge Immunity Test Results

Humidity :	55%	otek Anbotek	Temperature :	Aupo,	24 ℃
Power Supply:	DC 110V	inbotek Anbotel	Criterion requ	ired: Anbotek	A Anboren Anto
Test Result :	⊠ Pass □	Fail	hotek And	ntek Anboti	atek anbotek A
ibotek Anbus	Anbotek	Anborek A	Anbotek A	nbotek Ant	abotek Anbotek
Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltag (kV)	ge Result
Positive-Negative	Anborek± A	hotek / Anbore	rek 5 _{Anbotek}	1.0kV	ØA □B □C □D
Positive-PE	Anbotek botek	Anbote) Ar	botek 5 Anbo	2.0kV	ØA □B □C □D
Negative-PE	k ±nbotek	Anborek ek anborek	Anbo 5 k	2.0kV	ØA □B □C □D
Anbotek Ant	otek Anbo	botek Anbotek	Anbote	Anbotek	Anbotek Anbo
otek Anbotek	Anbotek Anbotek	Anbotek Anbot	botek Anbot	ek Anbotel	Anbotek An



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8. Injected Currents Susceptibility Test

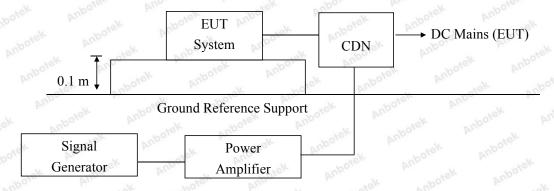
8.1. Test Standard and Level

Test Standard:	EN 50121-3-2 (IEC 61000-4-6)
Performance criterion:	Arbotek Anbotek Anbotek Anbotek Anbotek Anbotek A
Severity Level 3: 10V (r	ms), (0.15MHz ~80MHz)

Test Level

		Level				Fiel	d Strength	V	
olek	Anboier A	1. tek	Anbotek	Vupo.	*6K	nbotek	Anyoter	PUL.	iek M
obotek	Aupole	2. hotek	Anbotek	VEP	o rek	anborek	3,6010	ok Amer	hotek
Vupose	k Anbore	3. botek	Anbotek	P	Tupe ofek	Anbotel	10 Ambo	AT AT	botek
Ant	otek Anbore	X.	rek Anbo	101	Anbo	k anb	Special	por rek	Anabotek

8.2. Test Setup



8.3. EUT Configuration

The following equipments are installed on currents susceptibility measurement to meet EN 50155 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

8.4. Operating Condition of EUT

- 8.4.1. Setup the EUT as shown in Section 8.2.
- 8.4.2. Turn on the power of all equipments.
- 8.4.3. Let the EUT work in test mode and measure it.

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400-003-0500



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8.5. Test Procedure

1) Set up the EUT, CDN and test generators as shown on Section 8.2.

2) Let the EUT work in test mode and measure it.

3) The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).

4) The disturbance signal described below is injected to EUT through CDN.

 The EUT operates within its operational mode(s) under intended climatic conditions after power on.

6) The frequency range is swept from 150KHz to 80MHz using 10V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave.

7) The rate of sweep shall not exceed 1.5*10-3decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.

8) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

8.5.1. For signal lines and control lines ports:

Select tests based on product characteristics.

8.5.2. For DC output line ports:

Select tests based on product characteristics.

8.6. Test Results

PASS

Please refer to the following page.

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Injected Currents Susceptibility Test Results

Humidity : 53%	Temperature: 24℃
Power Supply : DC 110V	Criterion required: A
Test Result : ⊠ Pass □ Fail	Anbotek Anbotek Anbotek Anbotek
Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek Anbotek
Frequency Range (MHz) Injected Position	Strength (Unmodulated) Result
0.15 ~ 80 DC Mains	10V □ C □ D
botek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek Anbotek



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9. Magnetic Field Susceptibility Test

9.1. Test Standard and Level

Test Standard:	EN 50155 (IEC 61000-4-8)	otek Anbotek Anbotek Anbo
Performance Criterion:	Ack Anbotek Anbotek Anb	anbotek Anbotek Anbotek A
Severity Level 4: 30A /m Severity Level 4: 300A/m		Anbotek Anbotek Anbotek

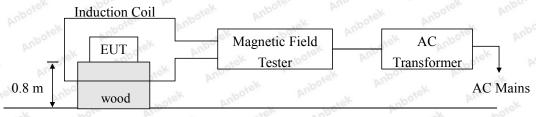
Test levels for continuous field

Level	Field Strength A/m	
lak abotek Antorek Anto	botek Anbor Anborek Anborek Ar	
tek nbotek 2 botek And	Amborek Amborek Amborek	
Anbo otek Anbotek 3. Anbote Ambotek	Anborek Anbound Anborek Anborek	
Anbotek Anbotek 4. Anbot All botek	Anborek Anborek Anborek	
Anbotek Anbotes Anbote	ek Anborek Anborek Anborek	
k hotek AnXiek Anbe	Special	

Test levels for short duration: 1 s to 3 s

P	1-0, 0, 0,	
Level	Field Strength A/m	
Anbotek Anbotek Anbotek Anbote	k Andrek Anbotek Anbo	
ek Anbotek Anbotek Anbotek Anbot	Anborek Anberek Anberek Anb	
Botek Anbotek And 3 otek Anbotek Ant	Por William Wooker Wungal	
abotek Anbotek 4. botek Anbotek	300	
Anbotek Anbotek 5 Anbotek Anbotek	1000	
Anborek Anbore X Anborek Anborek	Special	

9.2. Test Setup



Ground Reference Support

Code:AB-EMC-02-b



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9.3. EUT Configuration on Measurement

The following equipments are installed on magnetic field susceptibility measurement to meet EN 50155 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

9.4. Operating Condition of EUT

- 9.4.1. Setup the EUT as shown in Section 9.2.
- 9.4.2. Turn on the power of all equipments.
- 9.4.3. Let the EUT work in test mode and measure it.

9.5. Test Procedure

The EUT is placed in the middle of a induction coil (1*1m), under which is a 1*1*0.1m (high)table, this small table is also placed on a larger table, 0.8 m above the ground. Both horizontal and vertical polarization of the induction coil are set on test, so that each side of the EUT is affected by the magnetic field. Also can reach the same aim by change the position of the EUT.

9.6. Test Results

PASS

Please refer to the following page.



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Magnetic Field Immunity Test Results

16 AV		Der.	7	
Temperature : 24℃	Anbotes Anbotek	Humidity : 45%	otek br	Anbotek Anbote
Power Supply : DC 11	OV Anborek Anbo	Criterion required : A	nbotek	Anboten Anb
Test Result : ⊠ Pass	Fail Amodel A	hotek Anbotek	Anboten	ek anbotek
botek Anbu	Anbotek Anbote	Anbotek Anbotek	Anbo	potek Anbotek
Test Level (A/M)	Testing Duration	Coil Orientation	Jek W.	Result
30	5 mins	otek Anborek Ar	hootek	☑A □B □C □D
30	5 mins	Anbotek Ynbotek	Anbore Anbore	☑A □B □C □D
Anborek 30 mborek	5 mins	Anbotek Z Anbotek	an't	☑A □B □C □D
		k Anbotek Anbo	hotek	
anbotek Anb	otek Anbotek Ant	Jotek Anbore An	Anbotek	Anbotek Anbo
Test Level (A/M)	Testing Duration	Coil Orientation	Anbote	Result
300	Anborek 3s Anborek	Amborek X Amborek	ek Aup	☑A □B □C □D
Anno 300 Anno de	Anbote Anbote	tek Anbote And	otek	☑A □B □C □D
	nborek A3s And	nbotek Zootek	Auposek	☑A □B □C □D
nbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	otek Anbo	nbotek Anbotek Anbotek Anbotek



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APPENDIX I -- TEST SETUP PHOTOGRAPH





Photo of Radiated Emission Test (30~1000MHz)



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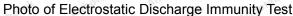
Code:AB-EMC-02-b
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Photo of Radiated Emission Test (1~6GHz)





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Photo of RF Field Strength susceptibility Test

Photo of Electrical Fast Transient/Burst Immunity Test





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Photo of Surge Immunity Test



Photo of Injected currents susceptibility Test



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Fax: (86) 755-26014772

Email: service@anbotek.com

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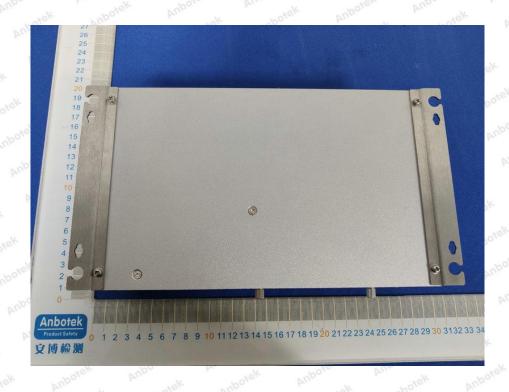
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APPENDIX II -- EXTERNAL PHOTOGRAPH





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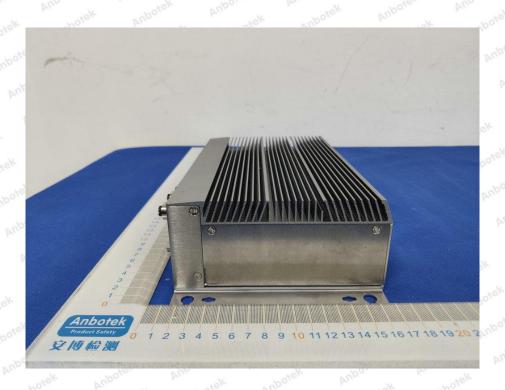


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CE Label

- The CE conformity marking must consist of the initials 'CE' taking the following form:
 If the CE marking is reduced or enlarged, the proportions given in the above graduated drawing must be respected.
- 2. The CE marking must have a height of at least 5 mm except where this is not possible on account of the nature of the apparatus.
- 3. The CE marking must be affixed to the product or to its data plate. Additionally it must be affixed to the packaging, if any, and to the accompanying documents.
- 4. The CE marking must be affixed visibly, legibly and indelibly.

 It must have the same height as the initials 'CE'.

- All	End of Repor	t