

EMC Test Report

Report No.: AGC03507200602EE01

PRODUCT DESIGNATION: Drawstring bag with detachable COB light

BRAND NAME : N/A

MODEL NAME : MO9970

APPLICANT: MID OCEAN BRANDS B.V

DATE OF ISSUE : Jun. 15, 2020

STANDARD(S) : EN 55015:2019 EN 61547:2009

REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	Jun. 15, 2020	Valid	Initial release



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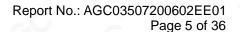




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1 VERIFICATION OF CONFORMITY

Applicant	MID OCEAN BRANDS B.V
Address	7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer	MID OCEAN BRANDS B.V
Address	7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Factory	MID OCEAN BRANDS B.V
Address	7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Product Designation	Drawstring bag with detachable COB light
Brand Name	N/A
Test Model	MO9970
Date of test	Jun. 09, 2020 to Jun. 10, 2020
Deviation	None any deviation from the test method.
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-EC-LT/AC(2013-03-01)

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements. The test results of this report relate only to the tested sample identified in this report.

Prepared By	Jack bri	
	Jack Gui(Gui Jiafeng) Project Engineer	Jun. 10, 2020
Reviewed By	ZVK. Jong	
	Erik Yang(Yang Jianmin) Reviewer	Jun. 15, 2020
Approved By	Formesticis	
	Forrest Lei(Lei Yonggang) Authorized Officer	Jun. 15, 2020



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2 SYSTEM DESCRIPTION

	TEST MODE DESCRIPTION	1		
NO.	TEST MODE DESCRIPTION		WORST	
1	Lighting	8	V	
Note:	Lighting		V	_

3 MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by ISO.

- Uncertainty of Radiated Emission, Uc = ±4.0dB





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4 PRODUCT INFORMATION

Housing Type	Plastic and metal	CO	c.C		
EUT Input Rating	DC 6V by battery			GU	

I/O Port Information (☐Applicable ☐Not Applicable)

I/O Port of EUT						
I/O Port Type	Number	Cable Description	Tested With			
20- 2°	<u> </u>	2.C-				





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5 SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
		7.6			3 - (

Note:

1. "-- "means no any support device during testing.



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6 TEST FACILITY

Site Attestation of Global Compliance (Shenzhen) Co., Ltd				
Locatio	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China	30		

7 TEST EQUIPMENT LIST

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Jun.12, 2019	Jun. 11, 2020
Antenna	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ_EMC (Ver.RA-03A)	N/A	N/A	N/A

TEST EQUIPMENT OF ESD TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
ESD Simulator	EM Test	dito	P1527160053	Oct. 24, 2019	Oct. 23, 2020

RADIATED ELECTROMAGNETIC DISTURBANCE TEST

Equipment	Manufacturer	Manufacturer Model S/N		Cal. Date	Cal. Due	
TEST RECEIVER	R&S	ESPI	101206	Jun.12, 2019	Jun.11, 2020	
Triple Loop Antenna	riple Loop Antenna LAPLACE		N/A	Feb.19,2019	Feb.18, 2020	

TEST EQUIPMENT OF RS IMMUNITY TEST

Description	Description Manufacturer		S/N	Cal. Date	Cal. Due	
Signal Generator	R&S	E4421B	MY43351603	Jun. 12, 2019	Jun. 11, 2020	
Power Sensor	R&S	URV5-Z4	100124	May 16, 2020	May 15, 2021	
Power Meter	R&S	NRVD	8323781027	May 16, 2020	May 15, 2021	
Power Amplifier	KALMUS	7100LC	04-02/17-06-00 1	Jun.12, 2019	Jun.11, 2020	
Broadband Preamplifier	SCHWARZBEC K	VULB9168	D69250	Jan. 09, 2019	Jan. 08, 2021	



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TEST EQUIPMENT OF SURGE/EFT/DIPSTEST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
EFT、Surge Generator	Schaffner	Modula 6150	34437	Aug. 26, 2019	Aug. 25, 2020

TEST EQUIPMENT OF CS IMMUNITY TEST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Power Amplifier	AR	75A250	18464	Jun. 12, 2019	Jun. 11, 2020
CDN	ZHINAN	ZN3751	15004	Sep. 09, 2019	Sep. 08, 2020
6dB attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Power Sensor	R&S	URV5-Z4	100124	May 16, 2020	May 15, 2021
Power Meter	R&S	NRVD	8323781027	May 16, 2020	May 15, 2021
Signal Generator	R&S	E4421B	MY43351603	Jun. 12, 2019	Jun. 11, 2020



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8 TEST ITEMS AND THE RESULTS

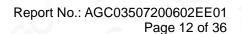
Test item	Test Requirement	Test Method	Class/Severity	Result
CONDUCTED EMISSION	EN 55015	EN 55015	0.009MHz -30MHz	N/A
RADIATED EMISSION	EN 55015	EN 55015	30MHz -300MHz	Pass
RADIATED ELECTROMAGNETIC DISTURBANCE	EN 55015	EN 55015	0.009MHz -30MHz	Pass
Harmonic current emission	EN 61000-3-2	EN 61000-3-2	Class C	N/A
Voltage fluctuations & flicker	EN 61000-3-3	EN 61000-3-3	§5 of EN 61000-3-3	N/A
Electrostatic Discharge Immunity	EN 61547	EN 61000-4-2	± 8.0 kV (Air Discharge) ± 4.0 kV (Contact Discharge) ± 4.0 kV (Indirect Discharge)	Pass
Radiated RF Electromagnetic	EN 61547	EN 61000-4-3	3V/m with 80% AM. 1kHz Modulation.	Pass
Electrical fast transient/burst Immunity	EN 61547	EN 61000-4-4	+/- 0.5kV for d.c. Power Port	N/A
SURGE IMMUNITY	EN 61547	EN 61000-4-5	>25W +/-1kV (Line to Line) +/-2kV (Line to Ground) <25W +/-0.5kV (Line to Line) +/-1kV (Line to Ground)	N/A
Immunity to Conducted Disturbances Induced by RF fields	EN 61547	EN 61000-4-6	3V with 80% AM. 1 kHz Modulation	N/A
Power Frequency Magnetic Fields	EN 61547	EN 61000-4-8	50/60 Hz, 3A/m	Pass
Voltage dips and short interruptions immunity	EN 61547	EN 61000-4-11	PHASE ANGLE 0, 45, 90, 135, 180, 225, 270, 315 degrees	N/A

Note: N/A means not applicable.



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9 EN 55015 RADIATED EMISSION TEST

9.1. LIMITS OF RADIATED DISTURBANCES

AT 10M DISTANCES

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m Q.P.)
30-230	10	30.00
230-300	10	37.00

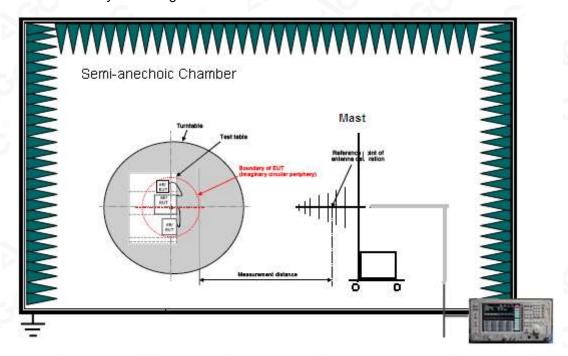
AT 3M DISTANCES

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m Q.P.)
30-230	3	40.00
230-300	3	47.00

Note: The lower limit shall apply at the transition frequency.

9.2. BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators





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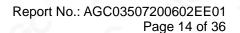


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9.3. PROCEDURE OF RADIATED EMISSION TEST

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per EN 55015 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 10cm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per EN 55015.
- (3) All I/O cables were positioned to simulate typical actual usage as per EN 55015.
- (4) The EUT was turned on.
- (5) The antenna was placed at 3 meters away from the EUT as stated in EN 55015. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- (6) The Analyzer / Receiver quickly scanned from 30MHz to 300MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- (7) The test mode(s) were scanned during the test:
- (8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented.

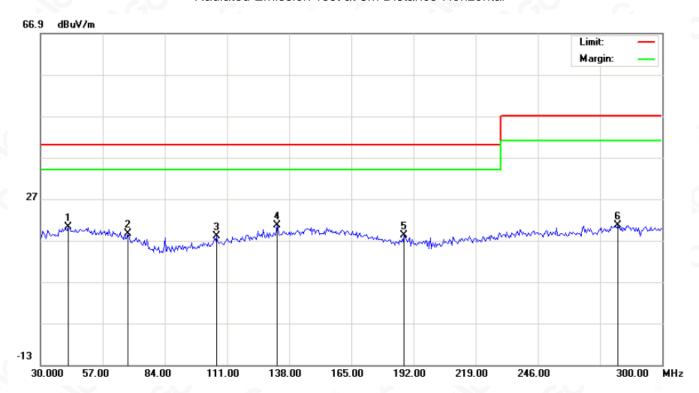






9.4. TEST RESULT OF RADIATED EMISSION TEST

Radiated Emission Test at 3m Distance-Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		42.1500	0.17	20.01	20.18	40.00	-19.82	peak			
2		67.8000	1.10	17.50	18.60	40.00	-21.40	peak			
3		106.5000	1.43	16.65	18.08	40.00	-21.92	peak			
4	*	132.6000	1.87	18.76	20.63	40.00	-19.37	peak			
5		187.9500	1.46	16.70	18.16	40.00	-21.84	peak			
6		280.6500	0.63	19.92	20.55	47.00	-26.45	peak			

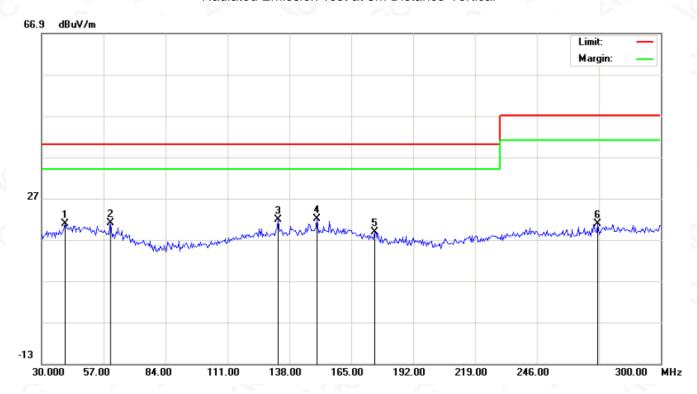
RESULT: PASS



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Radiated Emission Test at 3m Distance-Vertical



ı	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	1		40.3500	0.68	20.08	20.76	40.00	-19.24	peak			
	2		60.1500	2.13	18.84	20.97	40.00	-19.03	peak			
	3		133.0500	2.94	18.79	21.73	40.00	-18.27	peak			
ſ	4	*	150.1500	2.79	19.21	22.00	40.00	-18.00	peak			
Γ	5		175.3500	1.10	17.61	18.71	40.00	-21.29	peak			
	6		272.5500	1.40	19.33	20.73	47.00	-26.27	peak			

RESULT: PASS



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10 EN 55015 RADIATED ELECTROMAGNETIC DISTURBANCE TEST

10.1. LIMITS OF RADIATED ELECTROMAGNETIC DISTURBANCE

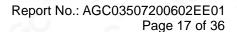
In The Range 9 KHz to 30 MHz

Frequency Range	L	Limits for Loop Diameter dB(uA) *					
. requeries realige	2m	3m	4m				
9 KHz-70 KHz	88 *	81 *	75 *				
70 KHz-150 KHz	88 to 58 * *	81 to 51 * *	75 to 45 * *				
150 kHz-3.0 MHz	58 to 22 * *	51 to 15 * *	45 to 9 * *				
3.0 MHz-30 MHz	22 * * *	15 to 16 * * *	9 to 12 * * *				

Note:

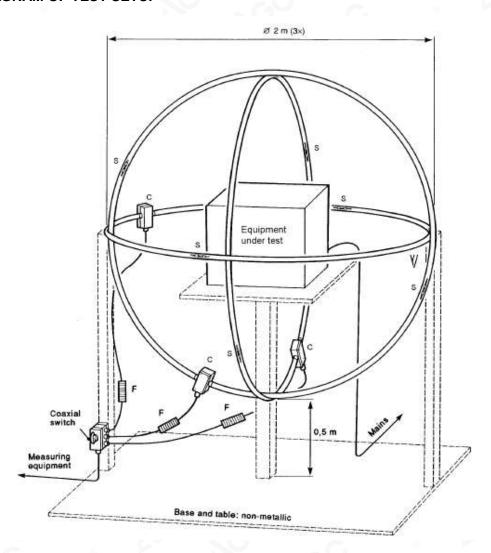
- * At the transition frequency, the lower limit applies.
- * Decreasing linearly with the logarithm of the frequency. For electrode less lamps and luminaries, the limit in the frequency range of 2.2 MHz to 3.0 MHz is 58 dB(uA) for 2m, 51 dB(uA) for 3m and 45 dB(uA) for 4m loop diameter.
- * * * Increasing linearly with the logarithm of the frequency.







10.2. BLOCK DIAGRAM OF TEST SETUP



10.3. TEST PROCEDURE

The magnetic component shall be measured by means of a loop antenna as described in EN 55015. The lighting equipment shall be placed in the centre of the antenna, and the position is not critical.

The test object was operated at its upper limit of its rated voltage and its rated frequency. The induced current in the loop antenna is measured by means of a current probe(1V/A) and the CISPR measuring receiver. By means of a coaxial switch the three field directions can be measured in sequence. Each value shall fulfill the requirements given.

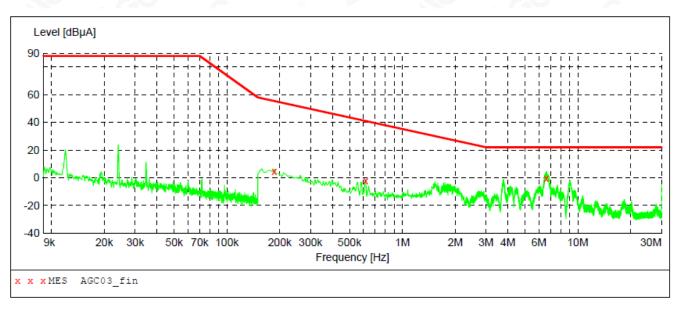


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10.4. TEST RESULTS OF RADIATED ELECTROMAGNETIC DISTURBANCE

Χ



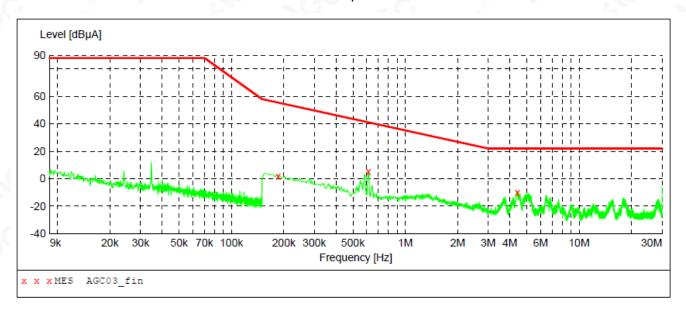
MEASUREMENT RESULT: "AGC03 fin"

2020/6/10 1	7:41						
Frequency MHz	_		Limit dBµA	_		Loop	Azimuth deg
0.186000	4.80	-12.9	55	50.6	PK	Х	0.00
0.618000	-2.00	-20.9	41	43.0	PK	X	0.00
6.606000	-0.20	-23.0	22	22.2	PK	X	0.00





Υ



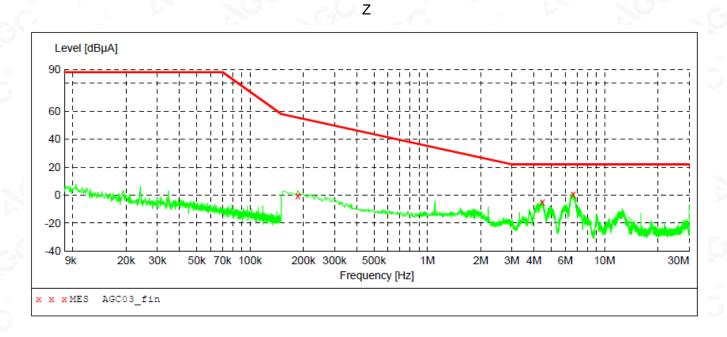
MEASUREMENT RESULT: "AGC03_fin"

2020/6/10 17:18

_	Frequency MHz	Level dBµA		Limit dBµA	_		Loop	Azimuth deg
	0.186000	1.90	-12.9	55	53.5	PK	Y	0.00
	0.614000	5.30	-20.9	41	35.8	PK	Y	0.00
	4.414000	-10.20	-23.7	22	32.2	PK	Y	0.00







MEASUREMENT RESULT: "AGC03_fin"

2020/6/10 17:02

Frequency MHz	Level dBµA		Limit dBµA	_		Loop	Azimuth deg
0.186000	-0.30	-12.9	55	55.7	PK	Z	0.00
4.454000	-5.20	-23.7	22	27.2	PK	Z	0.00
6.646000	0.80	-23.0	22	21.2	PK	Z	0.00

RESULT: PASS





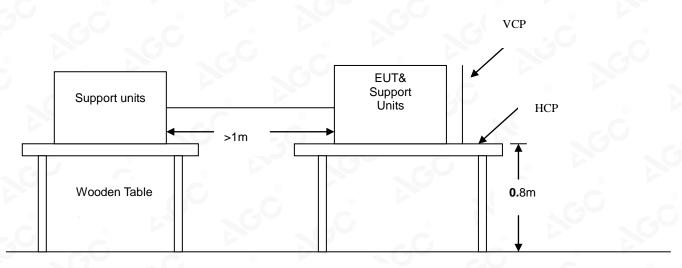
11 EN 61000-4-2 ESD IMMUNITY TEST

ELECTROSTATIC DISCHARGE (ESD) IMMUNITY TEST

Port	Enclosure
Basic Standard	EN 61000-4-2
Test Level	± 8.0 kV (Air Discharge) ± 4.0 kV (Contact Discharge) ± 4.0 kV (Indirect Discharge)
Standard require	В
Temperature	24.8℃
Humidity	56.7%

11.1. BLOCK DIAGRAM OF TEST SETUP

(The 470 k ohm resistors are installed per standard requirement)



Ground Reference Plane



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11.2. TEST PROCEDURE

The EUT was located 0.1 m minimum from all side of the HCP.

The support units were located 1 m minimum away from the EUT.

EUT worked with resistance load, and make sure EUT worked normally.

Actives the communication function if the EUT with such port(s).

As per the requirement of EN 61547: Contact discharge is the preferred test method, twenty discharges (10 with positive and 10 with negative polarity) shall be applied on each accessible metallic part of the enclosure, terminals are excluded. Air discharges shall be used where contact discharges cannot be applied. Discharges shall be applied on the horizontal or vertical coupling planes as specified in EN 61000-4-2.

The following test condition was followed during the tests.

Note: As per the A2 to EN 61000-4-2, a bleed resistor cable is connected between the EUT and HCP during the test.

The electrostatic discharges were applied as follows:

Voltage	Coupling	Test Performance	Result
±4kV	Contact Discharge	No function loss	A
±4kV	Indirect Discharge HCP (Front)	No function loss	Α
±4kV	Indirect Discharge HCP (Left)	No function loss	A
±4kV	Indirect Discharge HCP (Right)	No function loss	Α
±4kV	Indirect Discharge HCP (Back)	No function loss	Α
±4kV	Indirect Discharge VCP (Front)	No function loss	A
±4kV	Indirect Discharge VCP (Left)	No function loss	Α
±4kV	Indirect Discharge VCP (Back)	No function loss	A
±4kV	Indirect Discharge VCP (Right)	No function loss	Α
±8kV	Air Discharge	No function loss	A





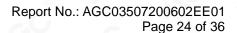
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11.3. PERFORMANCE & RESULT

Criteria A:	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
Criteria B:	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
Criteria C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

$oxed{oxed}$ PASS $oxed{oxed}$ FAIL





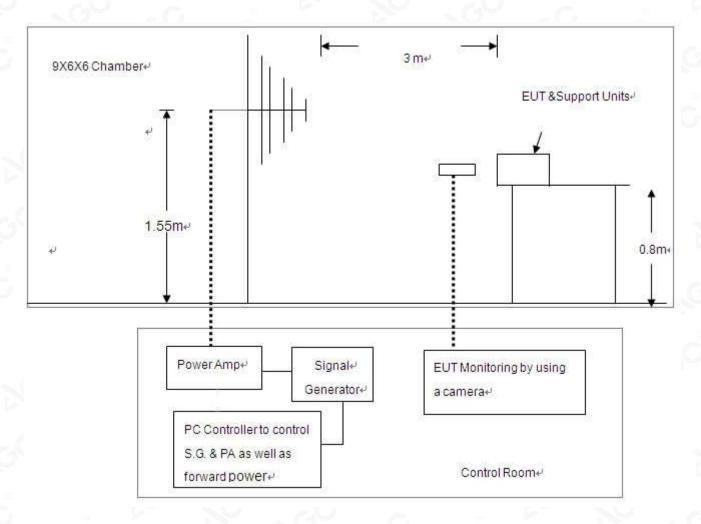


12 EN 61000-4-3 RS IMMUNITY TEST

RADIATED ELECTROMAGNETIC FIELD IMMUNITY TEST

Port	Enclosure
Basic Standard	EN 61000-4-3
Test Level:	3V/m with 80% AM. 1kHz Modulation.
Standard require	A
Temperature	23.4℃
Humidity	58%

12.1. BLOCK DIAGRAM OF TEST SETUP





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12.2. TEST PROCEDURE

The EUT was located at the edge of supporting table keep 3 meter away from transmitting antenna, it just the calibrated square area of field uniformity. The support units were located outside of the uniformity area, but the cable(s) connected with EUT were exposed to the calibrated field as per EN 61000-4-3.

EUT worked with resistance load, and make sure EUT worked normally.

Setting the testing parameters of RS test software per EN 61000-4-3.

Performing the test at each side of with specified level (3V/m) at 1% steps and test frequency from 80MHz to 1000MHz

Recording the test result in following table.

EN 61000-4-3 Final test conditions:

Test level: 3V/m

Steps: 1 % of fundamental

Dwell Time: 1 sec

Range (MHz)	Field	Modulation	Polarity	Position	Test Performance	Result
80-1000	3V/m	AM	Н	Front	No function loss	Α
80-1000	3V/m	AM	H ®	Left	No function loss	Α
80-1000	3V/m	AM	нО	Back	No function loss	Α
80-1000	3V/m	AM	Н	Right	No function loss	Α
80-1000	3V/m	AM	V	Front	No function loss	Α
80-1000	3V/m	AM	V	Left	No function loss	Α
80-1000	3V/m	AM	V	Back	No function loss	Α
80-1000	3V/m	AM	V	Right	No function loss	A





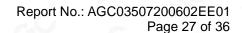
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12.3. PERFORMANCE & RESULT

Criteria A:	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
Criteria B:	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
Criteria C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

ı				
	⊠ PASS	□ <i>FAIL</i>		





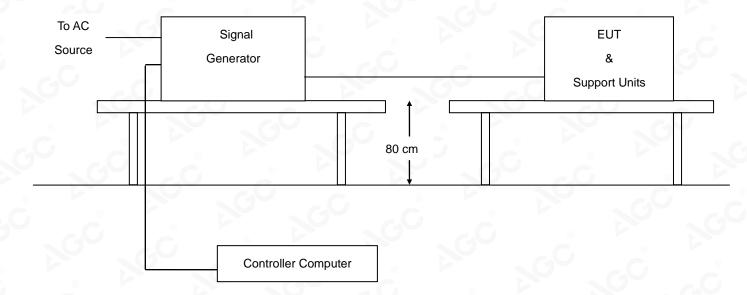


13 EN 61000-4-8 PFMF TEST

POWER FREQUENCY MAGNETIC FIELDS IMMUNITY TEST

1011211111240211	OT INVOCATE TO FILE DO INMINISTRATIFICATION
Port	Enclosure
Basic Standard	EN 61000-4-8
Requirements	50/60 Hz, 3A/m
Standard require	A
Temperature	23.5℃
Humidity	56%

13.1 BLOCK DIAGRAM OF TEST SETUP







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13.2 TEST PROCEDURE

The EUT shall be subjected to the test magnetic field by using the induction coil of standard dimensions $(1m \times 1m)$. The induction coil shall then be rotated by 90° in order to expose the EUT to the test field with different orientations.

Test Conditions:

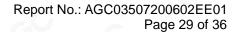
Frequency	Polarity	Level	Test Performance	Performance Result
50 Hz	X	3 A/m	No function loss	Α
50 Hz	Υ	3 A/m	No function loss	_ A _ ®
50 Hz	Z	3 A/m	No function loss	Α

13.3 PERFORMANCE & RESULT

Criteria A:	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
Criteria B:	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
Criteria C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

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	Ľ	 ,) <i>i ^iL</i>	







APPENDIX A: PHOTOGRAPHS OF TEST SETUP

EN 55015 RADIATED EMISSION TEST SETUP

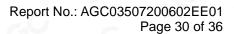


EN 55015 RADIATED ELECTROMAGNETIC DISTURBANCE TEST





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EN 61000-4-2 ESD IMMUNITY TEST SETUP

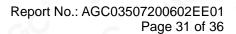


EN 61000-4-3 RS IMMUNITY TEST SETUP





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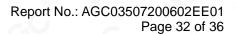


EN 61000-4-8PFMF IMMUNITY TEST SETUP





E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/





APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT

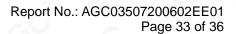


BOTTOM VIEW OF EUT





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FRONT VIEW OF EUT

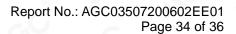


BACK VIEW OF EUT



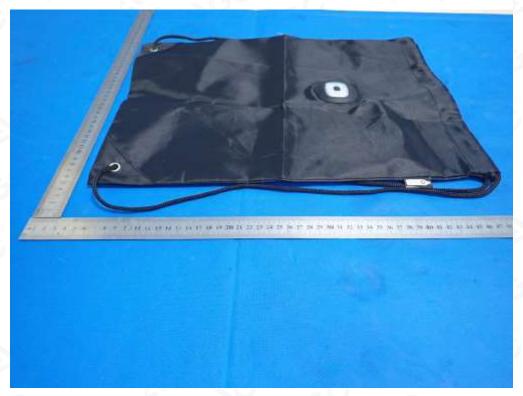


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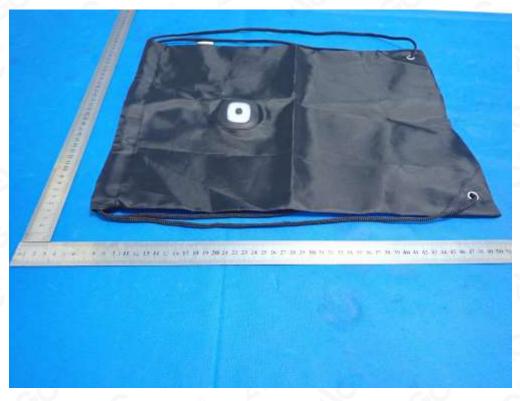




LEFT VIEW OF EUT

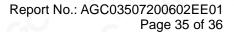


RIGHT VIEW OF EUT





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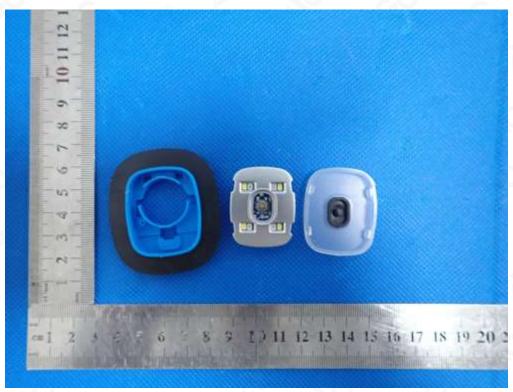




OPEN VIEW OF EUT-1

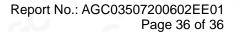


OPEN VIEW OF EUT-2



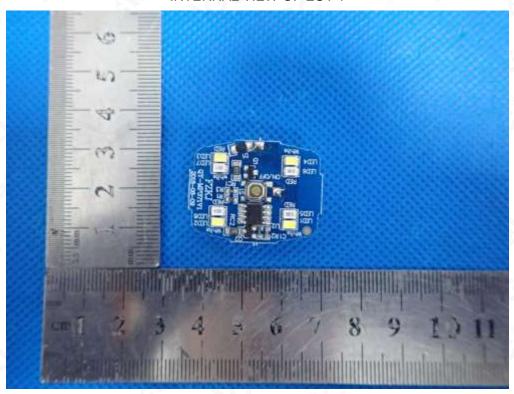


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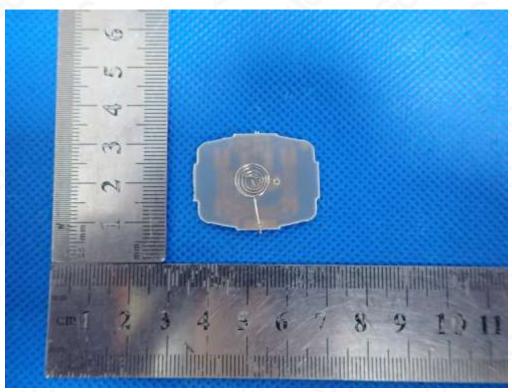




INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



----END OF REPORT----



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