



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China
Telephone: +86 (0) 21 6191 5666
Fax: +86 (0) 21 6191 5678
ee.shanghai@sgs.com

Report No.: SHEM160100016401
Page: 1 of 15

1 Cover Page

TEST REPORT

Application No.:	SHEM1601000164HS
Applicant:	REK-MAN LTD
Equipment Under Test (EUT):	NOTE: The following sample(s) submitted was/were identified on behalf of the client as
EUT Name:	Massage Pillow
Model No.:	MYK-211
Trade mark:	REK-MAN
Standards:	EN 55014-1:2006+A1:2009+A2:2011 EN 55014-2:2015
Date of Receipt:	2016-01-14
Date of Test:	2016-01-26
Date of Issue:	2016-02-04
Test Result :	Pass*

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.



Parlam Zhan
E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only



2 Test Summary

Item	Standard	Method	Class	Result
ELECTROMAGNETIC INTERFERENCE (EMI)				
RE(30M-1G)	EN 55014-1:2006+A1:2009+A2:2011	CISPR 16-2-3	N/A	Pass
Electromagnetic Susceptibility(EMS)				
Immunity	EN 55014-2:2015	N/A	N/A	N/A*
N/A Not applicable, Note:** Please refer to Section 7 of this report for details.				



3 Contents

	Page
1 COVER PAGE.....	1
2 TEST SUMMARY	2
3 CONTENTS	3
4 GENERAL INFORMATION.....	4
4.1 CLIENT INFORMATION.....	4
4.2 DETAILS OF E.U.T.	4
4.3 E.U.T OPERATION MODE	4
4.4 DESCRIPTION OF SUPPORT UNITS.....	4
4.5 STANDARDS APPLICABLE FOR TESTING	4
4.6 TEST LOCATION	6
4.7 TEST FACILITY	6
4.8 DEVIATION FROM STANDARDS.....	6
4.9 ABNORMALITIES FROM STANDARD CONDITIONS	6
4.10 MONITORING OF EUT FOR ALL IMMUNITY TEST	6
4.11 MEASUREMENT UNCERTAINTY	7
5 EQUIPMENT LIST.....	8
6 EMISSION TEST RESULTS.....	9
6.1 RE(30M-1G).....	9
6.1.1 E.U.T. Operation.....	9
6.1.2 Test Setup.....	9
6.1.3 Measurement Data.....	10
7 PHOTOGRAPHS.....	13
7.1 RE(30M-1G) TEST SETUP	13
7.2 EUT CONSTRUCTIONAL DETAILS	14

4 General Information

4.1 Client Information

Applicant: REK-MAN LTD
 Address of Applicant: Kucusu Cad. No:111, D Blok, Kat: 4 Daire:15 Zip: 34768
 Manufacturer: Dongyang Mainyer Home Textile Co., Ltd
 Address of Manufacturer: #8 Heshan Rd, Garment Industrial Park, Dongyang, Zhejiang
 Factory: Dongyang Mainyer Home Textile Co., Ltd
 Address of Factory: #8 Heshan Rd, Garment Industrial Park, Dongyang, Zhejiang

4.2 Details of E.U.T.

Power supply: 2*1.5V "AA" Battery Size DC 3V
 Cable: N/A

4.3 E.U.T Operation Mode

Detail description of the Test mode
 a:Running mode: Keep the motor of EUT running.

4.4 Description of Support Units

The EUT has been tested as an independent unit.

4.5 Standards Applicable for Testing

Table 1 : Tests Carried Out Under EN 55014-1:2006+A1:2009+A2:2011

Method	Item	Status
CISPR 16-2-1	Conducted Disturbance at Mains Terminals(150KHz-30MHz)	×
CISPR 16-2-1	Conducted Disturbance at Load Terminals and Additional Terminals	×
EN 55014-1:2006+A1:2009+A2:2011	Discontinuous Disturbance(150KHz-30MHz)	×
CISPR 16-2-2	Disturbance Power	×
CISPR 16-2-3	Radiated Disturbance(30MHz-1GHz)	√
CISPR 16-2-3	Radiated Disturbance (Magnetic field Induced Current)(9KHz-30MHz)	×

× Indicates that the test is not applicable
 √ Indicates that the test is applicable



Table 2 : Tests Carried Out Under EN 55014-2:2015

Method	Item	Status
EN 61000-4-2:2009	Electrostatic Discharge	×
EN 61000-4-3:2006+A1:2008+A2:2010	Radiated Immunity(80MHz-1GHz)	×
EN 61000-4-4:2012	Electrical Fast Transients/Burst at Power Port	×
EN 61000-4-4:2012	Electrical Fast Transients/Burst at Signal Port	×
EN 61000-4-5:2014	Surge at Power Port	×
EN 61000-4-6:2014	Conducted Immunity at Power Port(150kHz-80MHz)	×
EN 61000-4-6:2014	Conducted Immunity at Signal Port(150kHz-80MHz)	×
EN 61000-4-11:2004	Voltage Dips and Interruptions	×
EN 61000-4-6:2014	Conducted Immunity at Power Port(150kHz-230MHz)	×
EN 61000-4-6:2014	Conducted Immunity at Signal Port(150kHz-230MHz)	×

× Indicates that the test is not applicable

√ Indicates that the test is applicable

4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

4.7 Test Facility

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868,C-4336,T-2221,G-830 respectively.

4.8 Deviation from Standards

N/A

4.9 Abnormalities from Standard Conditions

None

4.10 Monitoring of EUT for All Immunity Test

Visual: N/A

Audio: N/A



4.11 Measurement Uncertainty

According to CISPR 16-4-2.

Test Item	Frequency Range	Measurement Uncertainty	U _{cispr}
Conducted Emission at mains port using AMN	9kHz-150kHz	3.2 dB	3.8 dB
Conducted Emission at mains port using AMN	150kHz-30MHz	3.0 dB	3.4 dB
Conducted Emission at mains port using VP	9kHz-30MHz	1.9 dB	3.9 dB
Conducted Emission at telecommunication port using AAN	150kHz-30MHz	2.4 dB	5.0 dB
Radiated Emission	30MHz-1000MHz	4.4 dB	6.3 dB
Radiated Emission	1GHz-6GHz	4.6 dB	5.2 dB (1GHz-6GHz)
Radiated Emission	6GHz-18GHz	4.6 dB	5.5 dB (6GHz-18GHz)
Disturbance Power	30MHz-300MHz	3.5 dB	4.5 dB
Remark: AMN – Artificial Mains Network VP – Voltage Probe ANN – Asymmetric Artificial Network			

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

5 Equipment List

RE(30M-1G)					
Item	Equipment	Manufacturer	Model No	Inventory No	Cal Due Date
1	EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2016-08-04
2	Antenna	SCHWARZBECK	VUBA9117	SHEM008-1	2016-02-06
3	Ultra Antenna	Rohde & Schwarz	HL562	SHEM010-1	2016-02-06
4	Pre Amplifier	Agilent	8447D	SHEM143-1	2016-08-09
5	New Low Amplifier	CLAVIO	BDLNA-0001-412010	SHEM164-1	2016-10-09
6	High Frequency Filter	LORCH	9BRX-875/X150-SR	SHEM156-1	N/A
7	Multi-device controller	ETS	2090	SHEM005-1	N/A

General used equipment					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Due date
1	Digital pressure meter	YONGZHI	DYM3-01	101012	2016-04-12
2	Temperature& humidity recorder	ShangHai weather meter work	ZJ 1-2B	84320600 803136, F304020153,201 01201FS100A6K ,201106117	2016-08-02
3	Digital Multimeter	FLUKE	17B	19720439	2017-01-13
4	Autoformer regulator	Guangzhou bao de	TDGC2-5KVA-	/	/
5	CLAMP METER	FLUKE	316	2503030971	2017-01-13

6 Emission Test Results

6.1 RE(30M-1G)

Test Requirement:	EN 55014-1:2006+A1:2009+A2:2011
Test Method:	CISPR 16-2-3
Frequency Range:	30MHz to 1GHz
Limit:	
30MHz-230MHz	40 dB(μ V/m) quasi-peak
230MHz-1GHz	47 dB(μ V/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz

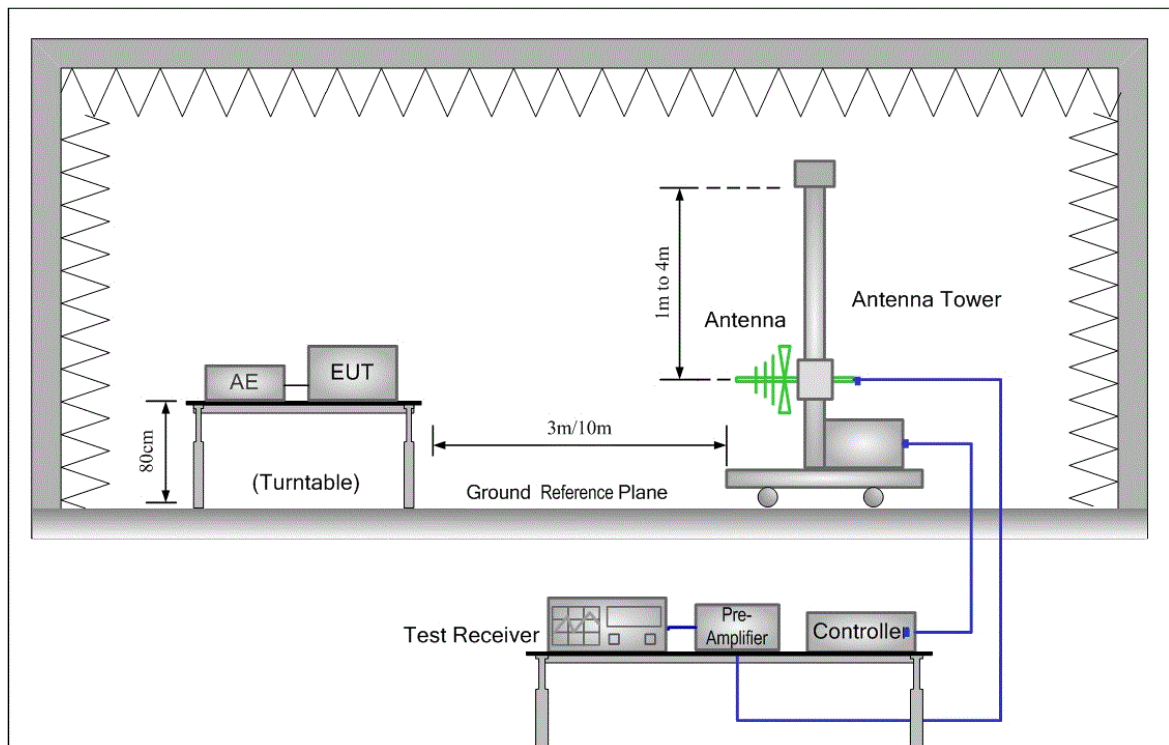
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity:53 % RH Atmospheric Pressure: 1010 mbar

Test mode a:Running mode: Keep the motor of EUT running.

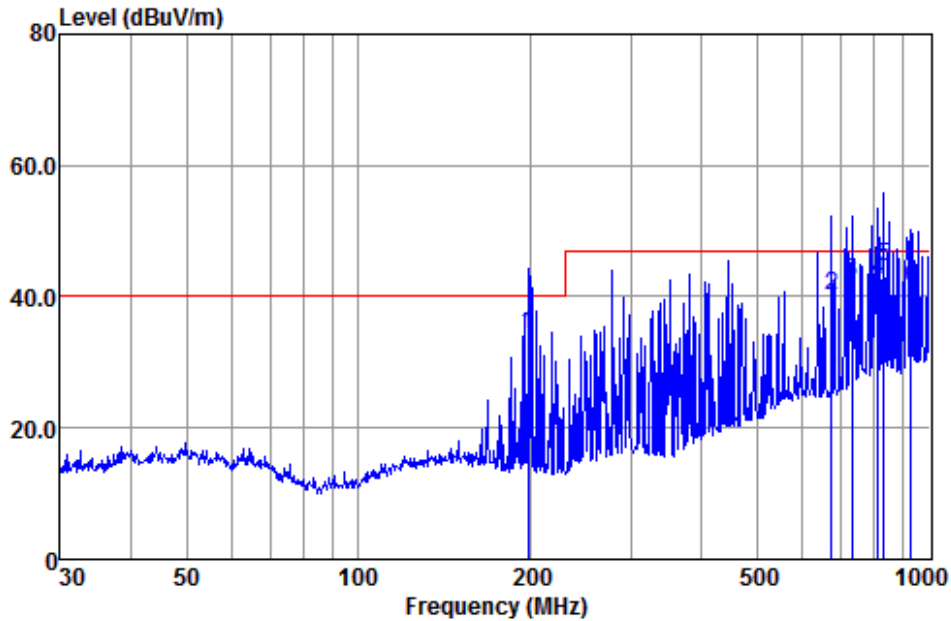
6.1.2 Test Setup



6.1.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Mode:a;Polarization:Horizontal



Condition : HORIZONTAL

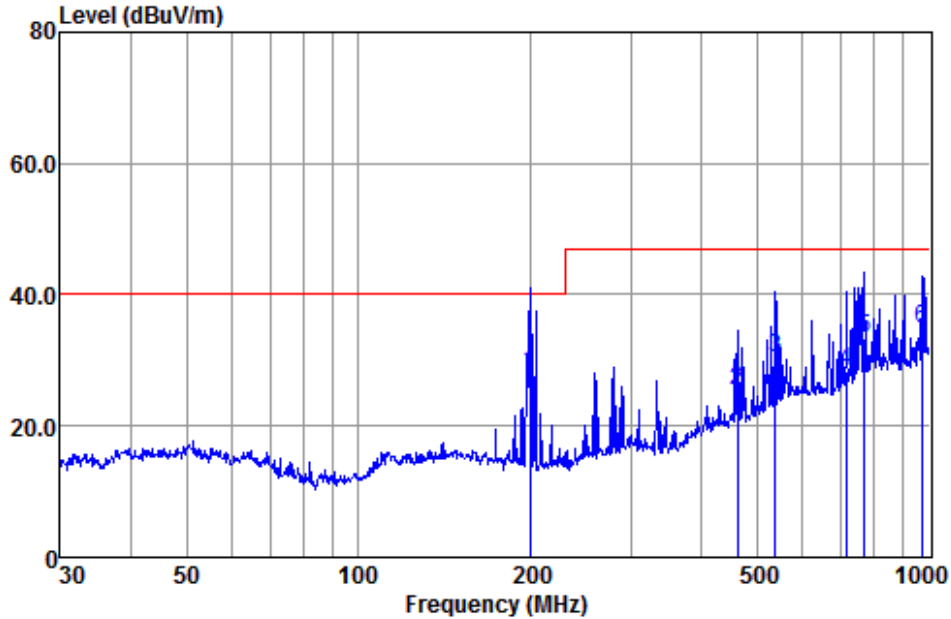
EUT/Project: 0164HS

Test Mode : Running mode

	ReadAntenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	198.59	46.42	10.84	1.59	24.50	34.35	40.00	-5.65 QP
2	675.21	41.14	19.81	3.28	24.07	40.16	47.00	-6.84 QP
3	731.92	41.55	21.36	3.45	24.03	42.33	47.00	-4.67 QP
4	813.11	39.18	23.63	3.66	23.99	42.48	47.00	-4.52 QP
5 q	833.32	41.16	23.76	3.72	23.98	44.66	47.00	-2.34 QP
6	929.01	37.85	23.40	3.94	23.92	41.27	47.00	-5.73 QP



Mode:a;Polarization:Vertical



Condition : VERTICAL
EUT/Project: 0164HS
Test Mode : Running mode

	ReadAntenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 q	199.99	40.14	10.80	1.59	24.50	28.03	40.00	-11.97 QP
2	460.73	30.55	16.49	2.60	24.24	25.40	47.00	-21.60 QP
3	537.59	32.88	18.77	2.86	24.17	30.34	47.00	-16.66 QP
4	716.68	27.84	21.12	3.40	24.04	28.32	47.00	-18.68 QP
5	771.45	30.77	23.02	3.56	24.01	33.34	47.00	-13.66 QP
6	968.93	30.31	24.19	4.05	23.85	34.70	47.00	-12.30 QP

7 Electromagnetic Susceptibility Test Results

Test Requirement: EN 55014-2

Test Method: Hence the EUT is defined as category I of EN 55014-2 and see the below

Category I: apparatus containing no electronic control circuitry.

All appliances having no electronic control circuitry are considered to be category I.

Electric circuits consisting of passive components (such as radio interference suppression capacitors or inductors, mains transformers, mains frequency rectifiers and heating elements) are not considered to be electronic control circuitry. EXAMPLES Appliances operated with a motor and mechanical switch only; lighting toys with a battery and a LED or incandescent lamp without additional electronic control circuitry; track sets without electronic control circuitry; heating or cooling appliances without electronic control circuitry; tools without electronic controls and all other apparatus containing only electromechanical components (e. g. switches or thermostats)

8 Photographs

8.1 RE(30M-1G) Test Setup



8.2 EUT Constructional Details





--End of the Report--