Hanano Materials Co., Ltd, Suzhou

TEST REPORT

SCOPE OF WORK:
EN 62233 – EMF report



Model:
NT2-230CP

REPORT NUMBER
190800740SHA-EMF01

ISSUE DATE
August 16, 2019

DOCUMENT CONTROL NUMBER
TTRF62233_V1
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Report no. 190800740SHA-EMF01

Applicant	:	**Hanano Materials Co., Ltd, Suzhou** **NW07, Nanopolis Suzhou, No.99 Jinji Lake Avenue, SIP, Suzhou, China**
Manufacturer	:	**Same as applicant**
Manufacturing site	:	**Hawer Optoelectronic Co., Ltd., Chuzhou** **No.27, Weier Road, Quanjiao Economic Development Zone, Chuzhou, Anhui Province, China**

Summary

The equipment complies with the requirements according to the following standard(s) or Specification:
EN 62233:2008: Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure

PREPARED BY:	**REVIEWED BY:**
Andy Chen	Star Guo
Project Engineer	Reviewer

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Revision History

Report No.	Version	Description	Issued Date
190800740SHA-EMF01	Rev. 01	Initial issue of report	August 16, 2019

TEST REPORT EN62233: 2008 Household and similar electrical appliances Electromagnetic fields-methods for evaluation and measurement	
Testing Laboratory name ..... :	Intertek Testing Services Shanghai Limited
Address ..... :	Building No. 86, 1198 Qinzhou Road (North), Shanghai 200233, China
Testing location..... :	Same as above
Test specification:	
Standard..... :	EN 62233: 2008
Non-standard test method ..... :	N/A
Test Report Form No..... :	TTRF62233
Test Report Form(s) Originator..... :	Intertek
Master TRF..... :	Dated 2018-07
Test Item description ..... :	Carbon nanotubes electric heating film
Trade Mark ..... :	Nabo
Model / Type reference..... :	NT2-230CP
Ratings ..... :	220V~, 230W/㎡
Remark..... :	See general remarks
Summary of testing: All tests are carried out in according to the EN 62233. The test results meet the requirements specified in the above-mentioned standard.	

Possible test case verdicts:

- test case does not apply to the test object ..... : N/A(Not Applicable)

- test object does meet the requirement ..... : P (Pass)

- test object does not meet the requirement..... : F (Fail)

Testing ..... :

Date of receipt of test item ..... : August 09, 2018

Date(s) of performance of tests..... : August 16, 2018

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.
Throughout this report a ☒ comma / ☐ point is used as the decimal separator.

Determination of the test results includes consideration of measurement uncertainty from the test equipment and methods.

General product information:

We tested it and listed the worst test data as representative.

EN 62233			
Clause	**Requirement + Test**	**Result - Remark**	**Verdict**
	Measuring method 5.5.2: (time domain evaluation)		P
	Measuring method 5.5.3: (line spectrum evaluation)		N/A
	Measuring method 5.5.4: (Alternative test methods)		N/A
	Measuring distance (cm)..... :	**30**	--
	Sensor location..... :	**Top**	--
	Operation conditions ..... :	**Spread out and laid on a sheet of thermal insulation**	--
	Magnetic flux density (maximum) (µT) ..... :	**0.346**	--
	If the measured value exceeds the reference level, the value is weighted with coupling factor:		N/A
	Weighted result, W ..... :		N/A
	Coupling factor..... :		N/A
	Limit =100%	100 µT	--
	Test result..... :	Value of measured max <10%	P

EQUIPMENT USED DURING TEST				
Equipment	Manufacturer	Type	EC No.	Cal. Due Date
EMF test head	Narda	ELT-400	EC 2928	2019-9-12

Appendix photo

Photo of test setup



END of the report