



सत्यमेव जयते



## टेस्ट रिपोर्ट / TEST REPORT

सं / No. R/1615.....

### इलेक्ट्रॉनिकी क्षेत्रीय परीक्षण प्रयोगशाला (दक्षिण) ELECTRONICS REGIONAL TEST LABORATORY (SOUTH)

मानकीकरण परीक्षा तथा गुणवत्ता प्रमाणीकरण निदेशालय  
STANDARDISATION TESTING & QUALITY CERTIFICATION DIRECTORATE  
इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी मंत्रालय  
MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY  
भारत सरकार / GOVERNMENT OF INDIA

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ELECTRONICS REGIONAL TEST LABORATORY (SOUTH)  
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY  
THIRUVANANTHAPURAM

TEST REPORT ON: Respiratory Humidifier Packaging

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1. Indenter (Name & address of the organisation) : M/S. Heka Medicals India Pvt. Ltd.  
First Floor, SH  
Monippilly P.O  
Kottayam - 686636
2. Indenter's Reference : SRF No.1615 dt: 26-09-2022
3. Description & Identification of the item : Respiratory Humidifier Packaging (Refer Annexure I)
4. Applicable Specification : Customer's specification
5. Test done : (i) Initial performance check  
(ii) Random Vibration test  
(iii) Final performance check
6. Equipment used :

Sl.No.	Name	Model	Traceability	Validity
1.	Electro Dynamic Vibration Shaker System	SEV 300	ERTL(S)	23-06-2023



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7. Test Results:

Sl. No	Test & Test condition	Specification	Qty tested	Results	Remarks
1.	<u>Initial performance check</u>	The display of respiratory humidifier shall be in power On condition and air flow should come out from heated breathing circuit.	01 No.	Complied	Refer general remarks 8.3
2.	<u>Random Vibration Test</u> 05 Hz -20 Hz : +3db/octave PSD 20Hz-350Hz : 0.006 g <sup>2</sup> /Hz 350 Hz -1000 Hz : -3db/octave Duration: 4 hours /axis Axes: all the three axis (X,Y,Z)	Shall be Conditioned	01 No. (Annexure I)	Conditioned	Refer general remarks 8.4
3.	<u>Final performance check</u>	The display of respiratory humidifier shall be in power On condition and air flow should come out from heated breathing circuit.	01 No.	Complied	Refer general remarks 8.3



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8. General remarks:

- 8.1. This test report is applicable only to the samples identified at Sl.No.3.
- 8.2. Test graphs of the random vibration are attached.
- 8.3. The performance check was carried out only for respiratory humidifier HEKA FLO 500 (DEVICE) MODEL-HM-P-500 SL NO.- BC6399AF before and after the vibration .
- 8.4 Random Vibration test was carried out for the whole carton packet containing items mentioned in Annexure 1.

ISSUED BY



HEAD, C S C



अरुण जी नायर / ARUN G NAIR  
वैज्ञानिक 'से' / Scientist 'C'  
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ERTL (South), STQC Directorate  
माइटी, भारत सरकार / MeitY, Govt. of India  
आक्कुलम, श्रीकायम, तिरुवनंतपुरम - 17  
Akkulam, Sreekariyam, Thiruvananthapuram-17.

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Annexure-I

LIST OF ITEMS FOR RANDOM VIBRATION TESTING

SI No.	Name of the item	QTY
01.	<p style="text-align: center;">Respiratory humidifier packaging</p> <p style="text-align: center;"><u>List of items inside carton</u></p> <ol style="list-style-type: none"> <li>1. HEKAFLO 500 (DEVICE) MODEL-HM-P-500 SL NO.- BC6399AF</li> <li>2. EXTERNAL FLOW METER *</li> <li>3. AIR FILTER*</li> <li>4. PULSE OXIMETER *</li> <li>5. OXYGEN TUBE *</li> <li>6. CONNECTOR FOR FLOWMETER *</li> <li>7. POWER CORD BLACK IEC 884 *</li> <li>8. H-CONNECTOR-ASSEMBLY *</li> <li>9. HEATED BREATHING CIRCUIT *</li> <li>10. AUTOFEED HUMIDIFIER CHAMBER- *</li> <li>11. HIGH FLO NASAL CANNULA, MEDIUM *</li> <li>12. INFANT HIGH FLOW NASAL CANNULA *</li> <li>13. HEKAFLO-500-USER MANUAL 2.6- *</li> <li>14. HEKAFLO-500 QUICK SETUP *</li> </ol>	01

\*No serial no. or Model no was mentioned for the given items.

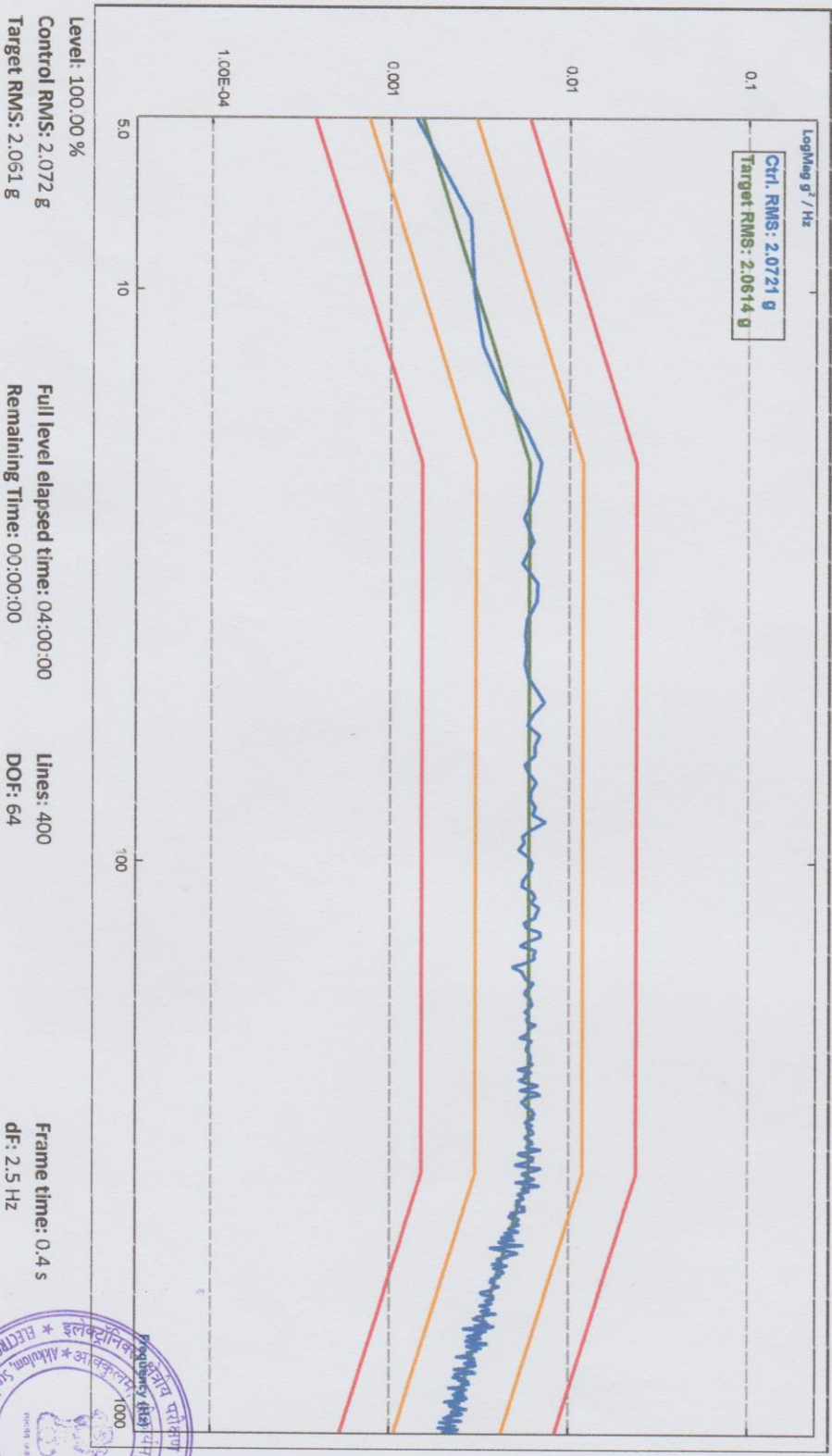




ERTIL(S)  
Govt. Of India

DUT:- RESPIRATORY HUMIDIFIER CARTON PACKAGE, X AXIS, R/1615  
Test name: Random29  
Test type: VCS(Random)

Run folder: Run1 Sep 26, 2022 10-49-17



Level: 100.00 %  
Control RMS: 2.072 g  
Target RMS: 2.061 g

Full level elapsed time: 04:00:00  
Remaining Time: 00:00:00

Lines: 400  
DOF: 64

Frame time: 0.4 s  
df: 2.5 Hz





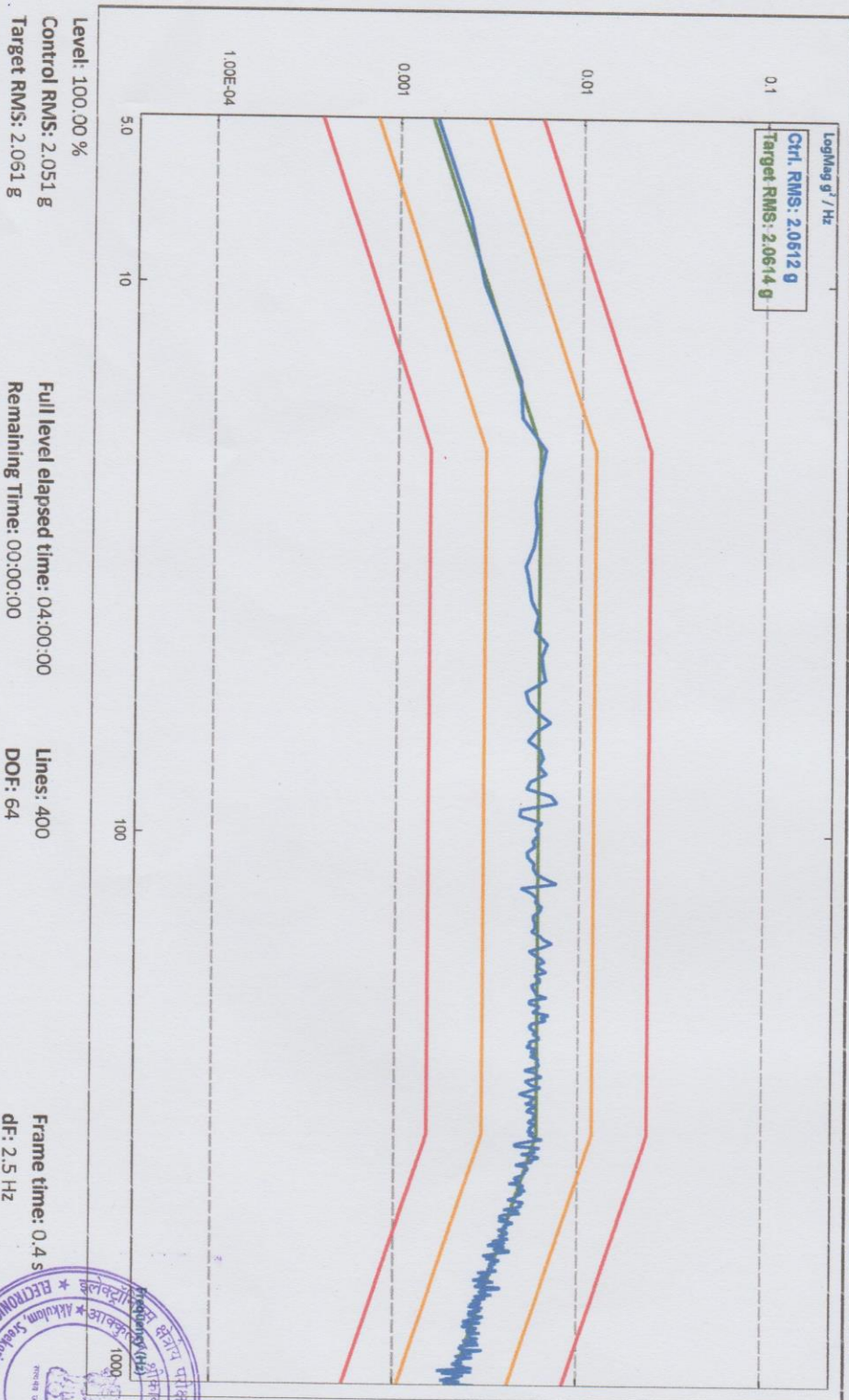
ERTL(S)  
Govt. Of India

DUT: RESPIRATORY HUMIDIFIER CARTON PACKAGE, Y AXIS, R/1615

Test name: Random29

Test type: VCS(Random)

Run folder: Run3 Sep 27, 2022 11-13-49





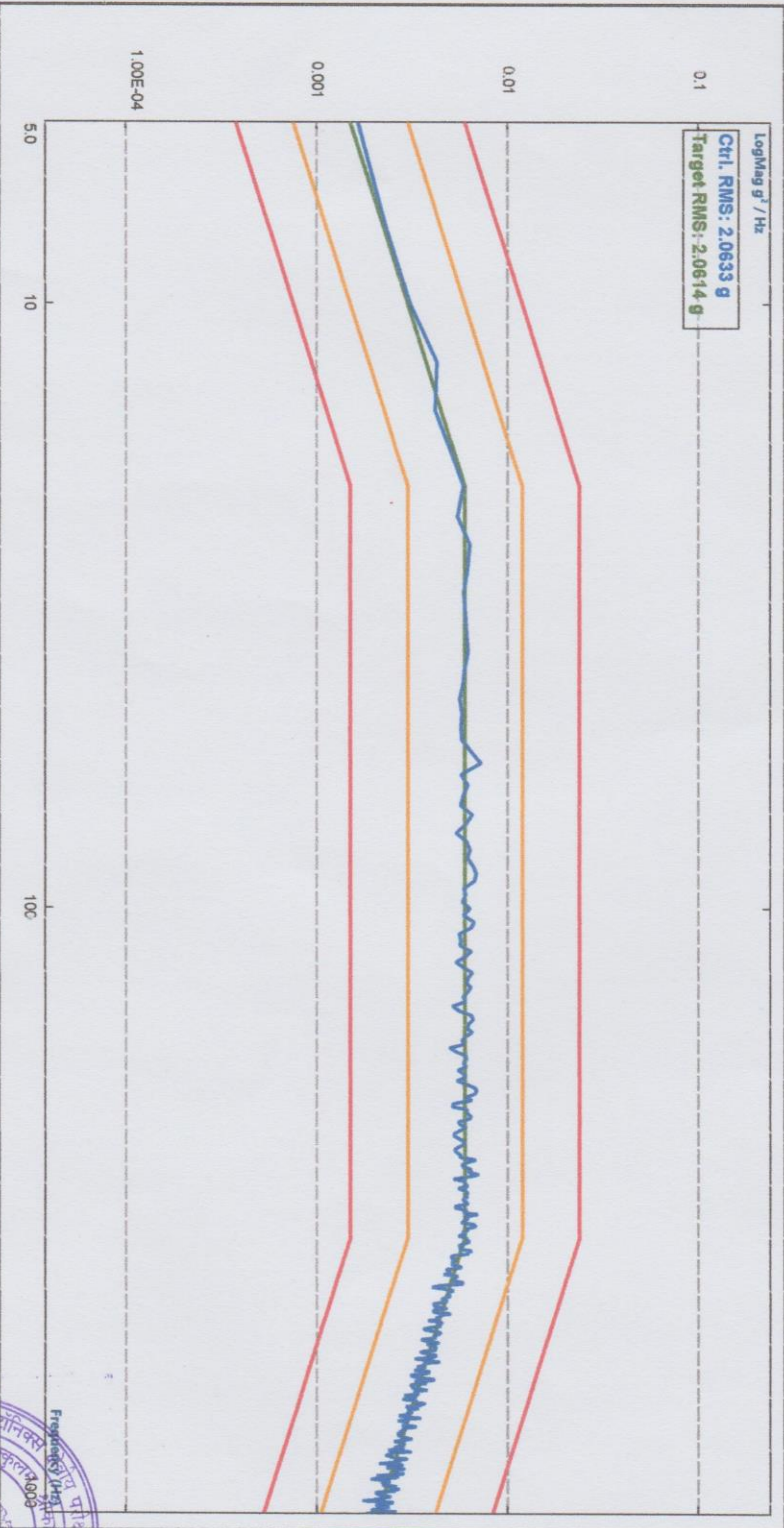
ERTL(S)  
Govt. Of India

DUT:- RESPIRATORY HUMIDIFIER CARTON PACKAGE,Z AXIS,R/1615

Test name: Random29

Test type: VCS(Random)

Run folder: Run2 Sep 27, 2022 07-03-34



Level: 100.00 %  
Control RMS: 2.063 g  
Target RMS: 2.061 g

Full level elapsed time: 04:00:00  
Remaining Time: 00:00:00

Lines: 400  
DOF: 64

Frame time: 0.4 s  
df: 2.5 Hz

