

Test Report

Prepared for: Thermaco Inc.

Model: Big Dipper

Serial Number: NA

FCC ID: 2BPIM0037031747

Project No: p2550002

Test Results: Pass

To

FCC Part 1.1310

Date of Issue: July 24, 2025

On the behalf of the applicant:

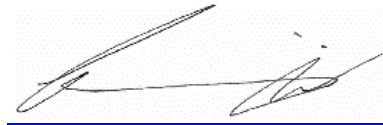
Thermaco Inc.
646 Greensboro St.
Asheboro, NC 27203

Attention of:

Jan Fischer
Ph: (336)629-4651
E-mail: janf@thermaco.com

Prepared By:

Compliance Testing, LLC
Mesa, AZ 85204
(480) 926-3100 phone / (480) 926-3598 fax
www.compliancetesting.com
ANAB Cert#: AT-2901
FCC Site Reg.750616
ISED Site Reg. #2044A-2



John Michalowicz
Project Test Engineer

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All results contained herein relate only to the sample tested

Test Report Revision History

Revision	Date	Revised By	Reason for Revision
Rev 1.0	July 23, 2025	John Michalowicz	Original Document

ANAB

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to the joint ISO-ILAC-IAF Communiqué dated January 2009).

The tests results contained within this test report all fall within our scope of accreditation, unless noted below.

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.



FCC Site Reg. #750616

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description

Model:	Big Dipper
Serial:	NA
Firmware:	NBGD-v1.0.27-wifiradiotest.hex.
Software:	NBGD-v1.0.27-wifiradiotest.hex
Description:	Commercial Grease Interceptor
Additional Information:	Radio Frequency Range and Operational Info: 5150 – 5250 WiFi 802.11n Usage: Fixed-Use/Mobile
Receipt of Sample(s):	June 10th 2025
EUT Condition:	Visual Damage No State of Development Production/Production Equivalent

MPE Evaluation

The EUT is a fixed device used in an Uncontrolled Exposure environment.

Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (ii)

0.3-1.34 MHz:	Limit [mW/cm ²] = 100
1.34-30 MHz:	Limit [mW/cm ²] = (180/f ²)
30-300 MHz:	Limit [mW/cm ²] = 0.2
300-1500 MHz:	Limit [mW/cm ²] = f/1500
1500-100,000 MHz	Limit [mW/cm ²] = 1.0

Test Data

Worst case RF exposure calculations were calculated using the highest gain antenna, the rated output power.

The frequency with the highest output power

MPE calculation

Test Frequency, MHz	2442
Power, EIRP mW (P)	47.97
Antenna Gain Isotropic	6 dBi
Antenna Gain Numeric (G)	3.98
Antenna Type	F type
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mW/cm ²

Power Density (S) = 0.0380 mW/cm ²
Limit = (from above table) = 1.0 mW/cm ²

The EUT Power Density of 0.038 mW/cm² is under the limit of 1.0 mW/cm² with a 6 dBi gain antenna at 20 cm distance.

END OF TEST REPORT