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Test Report

Prepared for: Interface, Inc.

Model: WTS-BS-1925-2

Description: Base Station

Serial Number: FCC#3

FCC ID: 27048-1925B1

To

FCC Part 1.1310

Date of Issue: March 29, 2021

On the behalf of the applicant:	**Interface, Inc.** **7418 East Helm Drive,** **Scottsdale, Arizona 85260**
Attention of:	**Ronan Reynolds** **Rreynolds@interfaceforce.com** **480-948-5555 x210**

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Poona Saber
Project Test Engineer

Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	3/29/2020	Poona Saber	Original Document
2.0	3/31/2020	Poona Saber	Updated Ronald to Ronan,page number formats Updated antenna gain and Power Spectral Density
3.0	4/5/2021	Poona Saber	Changed limit table from controlled to uncontrolled

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.

ANAB
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TESTING LABORATORY

FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description
Model: WTS-BS-1925-2
Description: Base Station
Firmware: NRF52840 processor: 0.14.6
NXP55S66 processor: 0.4.3

Serial Number: FCC#3
Additional Information: Base station is part of the system working with a remote load cell used in oil well pump jacks. It is located in the electronics cabinet around 100 ft away from the remote load cell and uses the data from the remote to calculate the load and position of the well string. It communicates on the 2.5 GHz frequency bands using Bluetooth low energy and enhanced shock burst protocols.

The base station comes with a power cable and a Signal Cable. The cables provided by Interface need to be used in order to comply with FCC regulations.
The signal cable is used in the final configuration of the device on site, and It contains analog outputs that are connected to our customer's electronics.

Base station is tested with a 2.15 dBi Omni directional antenna (SKU A2D2RAV3H) connected to a 13 ft long cable on low, mid and high channel with highest power and enhanced shock burst protocol.

MPE Evaluation

This is a mobile device used in Uncontrolled Exposure environment.

Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (B)	0.3-1.234 MHz:	Limit [mW/cm²] = 100
	1.34-30 MHz:	Limit [mW/cm²] = (180/f²)
	30-300 MHz:	Limit [mW/cm²] = 0.2
	300-1500 MHz:	Limit [mW/cm²] = f/1500
	1500-100,000 MHz	Limit [mW/cm²] = 1.0

Test Data

Test Frequency, MHz	2402
Power, Conducted, mW (P)	6.16
Antenna Gain Isotropic	2.15 dBi
Antenna Gain Numeric (G)	1.64
Antenna Type	Omni
Distance (R)	20 cm

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

Power Density (S) = 0.002
Limit = (from above table) = 1.0

Unit shall be installed at least 20 cm away from human body.

END OF TEST REPORT