

Bureau Veritas Consumer Product Services, Inc.	Test Report Number:
One Distribution Center Circle #1, Littleton, MA 01460	EV1931-11 Issue 1



CFR Title 47 FCC Part 2.1091

Report Exhibit

Prepared for Onset Computer Corporation

This report presents the environmental impact of human exposure to radiofrequency radiation for

MX2306, MX2307

HOBO MX Soil Moisture (MX2306) and MX Soil Moisture and Temperature (MX2307) Data Logger

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Wireless Manager

Issue date: 2022-08-18

Report No: EV1931-11 Issue 1



This test result relates only to the described test object.

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The test is traceable to national standard or related international standard

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1 Device Under Test Information

1.1 Product Information

Project Number:	EV1931
Applicant Information:	Onset Computer Corporation
	470 MacArthur Blvd. Bourne, MA 02532
Test Item Description:	HOBO MX Soil Moisture Data Logger (MX2306) HOBO MX Soil Moisture and Temperature Data Logger (MX2307)
Model Number:	MX2306, MX2307
DUT Sample Number:	N/A
Hardware Version of DUT:	A
Software Version of DUT:	169.5
Exposure Category of DUT:	Mobile
Multiple Simultaneous RF Sources:	No
Type of Test:	FCC RF Exposure Exemption Evaluation
Test Method:	CFR Title 47 FCC Part 1.1307(b)(3)
Deviations from Standard:	None
Sample Receipt Date:	2022-02-14
Evaluation Date:	2022-08-18

1.2 Technical Information

FCC ID:	WXF-ONST12
Exposure Category of Transmitter:	Mobile
Maximum Conducted Output Power (dBm):	-2.38 dBm
Maximum Tune-up Tolerance (dB):	N/A
Maximum Antenna Gain (dBi):	2.0 dBi

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2 Test Laboratory Information

Location of Test Lab:	One Distribution Center Circle #1 Littleton, MA 01460 (978) 486-8880
Key Contact:	Yunus Faziloglu Yunus.faziloglu@bureauveritas.com
Laboratory Accreditations:	BUREAU VERITAS CONSUMER PRODUCTS SERVICES, INC is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
ISO/IEC 17025:2017:	1627-01
FCC Test Site Number:	US1028

3 RF Exposure – Determination of Exemption – FCC Section 1.1307(b)(3)(i)

3.1 Single RF Source 1 mW Exemption – 1.1307(b)(3)(i)(A)

3.1.1 Definition

A single RF source is exempt if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

3.1.2 Exemption Calculation

$$P_{out} \leq 1 \text{ mW}$$

Field strength values can be converted to conducted power before comparing to the exemption threshold using the following equations.

$$EIRP \text{ (dBm)} = E \text{ (dBuV/m)} + 20 \times \log d \text{ (m)} - 104.8 \text{ (dB)}$$

AND

$$P_{out} \text{ (mW)} = 10^{\frac{(EIRP \text{ (dBm)} - G \text{ (dBi)})}{10}}$$

3.1.3 Single RF Source Exemption Results

Radio	Radio Power* (dBm)	Radio Field Strength* (dBuV/m)	Test Distance* (m)	Radio Power (mW)	Threshold Power (mW)
A	-2.38			0.58	1
B					
C					
D					
E					

* If applicable, otherwise leave blank.

3.1.4 Conclusion

The MX2306 and MX2307 manufactured by Onset Computer Corporation meets the exemption criteria for the environmental impact of human exposure to radiofrequency radiation using the calculations performed herein.

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Document Revisions

Version	Date	Modifier	Changes
1.0	2022-08-18	HX	Initial release

End of Report