

Bureau Veritas Consumer Product Services, Inc.	Test Report Number:
One Distribution Center Circle #1, Littleton, MA 01460	EX0275-3 Issue 2



CFR Title 47 FCC Part 2.1091

Report Exhibit

Prepared for Yardi Systems Inc.

This report presents the environmental impact of human exposure to radiofrequency radiation for
YDI210P32

Prepared by

Ryan M. Brown

Ryan Brown

Sr. EMC/Wireless Engineer

Approved by

Y. E. Faziloglu

Yunus Faziloglu

Wireless Manager

Issue date: Nov 21, 2023



This test result relates only to the described test object.

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Customer must not use this test report as the product certification of each accreditation body or each national organization.
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:	X0275
Applicant Information:	Yardi Systems Inc.
	430 South Fairview Ave Goleata, CA 93117
Test Item Description:	Wireless Gecko Multi-Protocol Connectivity Module
Model Number:	YDI210P32
Separation Distance:	20cm
Exposure Category of DUT:	Mobile
Multiple Simultaneous RF Sources:	No
Type of Evaluation:	MPE Calculation
Evaluation Method:	447498 D01 General RF Exposure Guidance v06
Deviations from Standard:	None

1.2 Technical Information

Radio Function 1: Zigbee	
FCC ID:	2BAL9YDITRZB
Exposure Category of Transmitter:	Mobile
Maximum Conducted Output Power (mW):	104mW (based on original grant)
Maximum Tune-up Tolerance (dB):	N/A
Maximum Antenna Gain (dBi):	2.5

Radio Function 2: BLE	
FCC ID:	2BAL9YDITRZB
Exposure Category of Transmitter:	Mobile
Maximum Conducted Output Power (mW):	99mW (based on original grant)
Maximum Tune-up Tolerance (dB):	N/A
Maximum Antenna Gain (dBi):	2.5

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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

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3 RF Exposure – Determination of Exemption

MPE based Exemption per 447498 D01 General RF Exposure Guidance v06

Radio Function 1: Zigbee

Equation from page 18 of OET Bulletin 65, Edition 97-01					
	$S = \frac{PG}{4\pi R^2}$				
where:	S = power density				
	P = power input to the antenna				
	G = power gain of the antenna in the direction of interest relative to an isotropic radiator				
	R = distance to the center of radiation of the antenna				
	Maximum peak output power at the antenna terminal:	20.17	(dBm)		
	Maximum peak output power at the antenna terminal:	104.0	(mW)		
	Antenna gain(typical):	2.5	(dBi)		
	Maximum antenna gain:	1.77827941	(numeric)		
	Prediction distance:	20	(cm)		
	Prediction frequency:	2450	(MHz)		
	MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)		
	Power density at prediction frequency:	0.036790	(mW/cm^2)		

Radio Function 2: BLE

	Prediction of MPE limit at a given distance				
Equation from page 18 of OET Bulletin 65, Edition 97-01					
	$S = \frac{PG}{4\pi R^2}$				
where:	S = power density				
	P = power input to the antenna				
	G = power gain of the antenna in the direction of interest relative to an isotropic radiator				
	R = distance to the center of radiation of the antenna				
	Maximum peak output power at the antenna terminal:	19.96	(dBm)		
	Maximum peak output power at the antenna terminal:	99.0	(mW)		
	Antenna gain(typical):	2.5	(dBi)		
	Maximum antenna gain:	1.77827941	(numeric)		
	Prediction distance:	20	(cm)		
	Prediction frequency:	2450	(MHz)		
	MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)		
	Power density at prediction frequency:	0.035024	(mW/cm^2)		

Radio functions cannot operate simultaneously, therefore simultaneous transmission calculations are not required.

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4 Conclusion

EUT meets the FCC RF exposure limits for general population as a mobile device.

Document Revisions

Issue No.	Summary of Changes	Date Issued	Prepared by	Approved by
1	Original Release	Oct 21, 2023	RMB	YF
2	Corrected "Radio Function 2" description to "BLE" in Section 1.2	Nov 21, 2023	RMB	YF

End of Report