

RF Exposure Report

Project Number: 5455680 **Proposal:** SUW-202605010097
Report Number: SUW5455680EMC03R1 **Revision Level:** 1
Client: Ergotron, Inc.

Equipment Under Test: Wireless Medical Cart (Host)
Product Marketing Name (PMN): Mosaic
Model Number: MSC-AC100
Referenced Model(s): MSC-DC100
HVIN: MC20-CMACLCD, MC20-CMACLPT, MC20-CMDCLCD, MC20-CMDCLPT
FCC ID: 2AVU2-917542CM

Applicable Standards: 47 CFR §§ 2.1093 (Portable)
FCC KDB 447498 D01 General RF Exposure Guidance v06

Report issued on: 03 June 2026
Report revised on: 16 June 2026
Result: Exempt from SAR evaluation



FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

Report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

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1 General Information

1.1 Client Information

Name: Ergotron Inc.
Address: 1181 Trapp Rd.
City, State, Zip, Country: Eagan, MN 55121, USA

1.2 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01

1.3 General Information of EUT

Type of Product: Wireless Medical Cart
Product Marketing Name (PMN): Mosaic
Model Number: MSC-AC100
HVIN: MC20-CMACLCD, MC20-CMACLPT, MC20-CMDCLCD, MC20-CMDCLPT
Serial Number: 001
Module Model: Nordic Semiconductor nRF52832
FCC ID: 2AVU2-917542CM

Frequency Ranges: 2402-2480MHz
Data Modes: Bluetooth Low Energy (BLE) – GFSK (1Mbps & 2Mbps)
Antenna*: FPC Antenna – Ethertronics 1003893FT, 3.3dBi
Max Conducted Output Power: Bluetooth LE: 2.44 dBm

**Data was not measured by SGS laboratory and therefore not responsible for accuracy. Data obtained via customer, specification sheet, previous regulatory filing or other.*

1.4 Referenced Model(s)

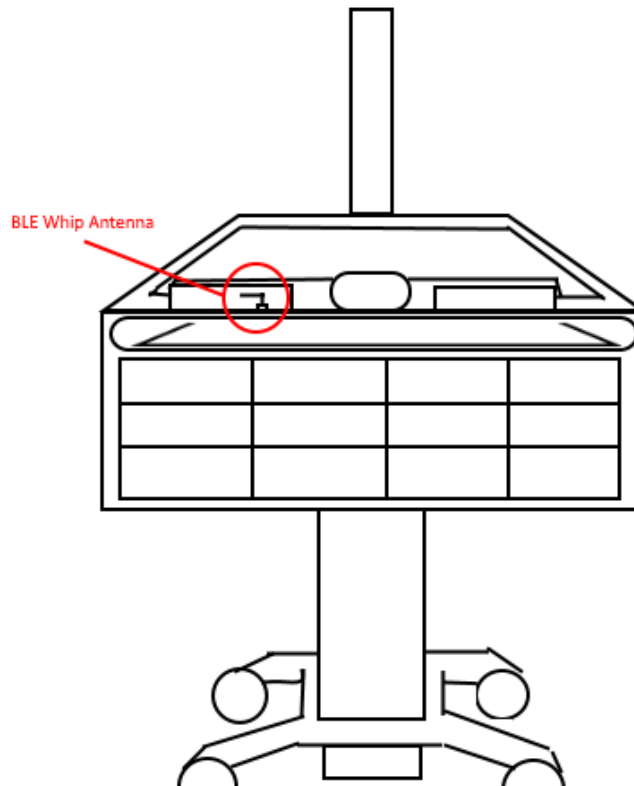
The following referenced models were not tested but are deemed by the manufacturer to be similar or depopulated versions in make and construction as the test sample that was tested:

- MSC-DC100

1.5 Separation Distance

The closest exposure distance occurs when a user places his or her hand on the top flat surface of the device. See mechanical drawings for reference.

The closest exposure distance for the BLE external whip antenna occurs when a user places their hand on top of the work surface directly above the antenna. The shortest separation distance from the BLE antenna to the closest touchpoint on the housing of the cart is 8.5mm.



1.6 Operating Modes and Conditions

Maximum power levels were utilized for all calculations. BLE.

2 SAR Exclusion Calculations

The highest conducted output power in conjunction with the Upper and Lower frequency boundaries have been used to demonstrate compliance for Bluetooth transmission mode.

The EUT is considered an extremity application.

Nordic External Bluetooth LE (2AVU2-917542CM)

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SAR test exclusion calculations

Section 4.3: General SAR test exclusion guidance / Section 4.3.1: Standalone SAR test exclusion considerations

	Input	Select Units	
Max Power:	2.21	dBm	
Duty Cycle:	100.0%		<== Source based time average duty cycle
Min separation distance:	8.5	mm	
Frequency, f:	2402	MHz	

Value reference Number	Values used for Calculation	Reference number definition
v1	2.000	mW [max. power of channel, including tune-up tolerance, mW] 'Rounded to nearest mW
v2	9	mm [min. test separation distance, mm] 'Rounded to nearest mm
v3	1.550	[√f(GHz)]

- a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR,}$$

Exclusion Calculation(1g):	0.3444	number	<== [v2 / v3] must be less than 3
Exclusion Calculation(10g):	0.3444	number	<== [v2 / v3] must be less than 7.5

Conclusions (Body):	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Body applications
Conclusions (Extremity):	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Extremity applications

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SAR test exclusion calculations

Section 4.3: General SAR test exclusion guidance / Section 4.3.1: Standalone SAR test exclusion considerations

	Input	Select Units	
Max Power:	2.44	dBm	
Duty Cycle:	100.0%		<== Source based time average duty cycle
Min separation distance:	8.5	mm	
Frequency, f:	2480	MHz	

Value reference Number	Values used for Calculation		Reference number definition
v1	2.000	mW	[max. power of channel, including tune-up tolerance, mW] 'Rounded to nearest mW
v2	9	mm	[min. test separation distance, mm] 'Rounded to nearest mm
v3	1.575		[√f(GHz)]

- a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f}(\text{GHz})] \leq 3.0$$
for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,

Exclusion Calculation(1g):	0.3500	number	<== [v2 / v3] must be less than 3
Exclusion Calculation(10g):	0.3500	number	<== [v2 / v3] must be less than 7.5

Conclusions (Body):	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Body applications
Conclusions (Extremity):	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Extremity applications

Results: Exempt from SAR evaluation

2.1 Simultaneous Conditions

N/A

3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial Release	03 June 2026
1	Updated to reference HVINs and to better identify the PMN	16 June 2026