

Test Report Number: 5185096EMC05 Rev: 0 Cognosos, Inc. / RT-400 Page: 1 of 7

RF Exposure Report

Project Number: 5185096 Proposal: SUW-202405006418 Report Number: 5185096EMC05 **Revision Level: 0** Client: Cognosos, Inc. Equipment Under Test: Wearable Model: RT-400 FCC ID: 2AKFQRT400 Applicable Standards: 47 CFR §§ 2.1093 (Portable) FCC KDB 447498 D01 General RF Exposure Guidance v06

Report issued on: 18 October 2024

Test Result: Compliant



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1 General Information

1.1 Client Information

Name:Cognosos, Inc.Address:1100 Spring Street NW, Suite 300ACity, State, Zip, Country:Atlanta, Georgia 30309

1.1 **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 FCC Designation Number: US1126

1.2 General Information of EUT

Equipment Under Test: Model Number: Serial Number:	
Frequency Range:	BLE / 2402 – 2480 MHz
Modulation:	GFSK / 2M PHY
Antenna*:	Internal Flag Antenna; +3.30 dBi*
Max. Transmit Power:	1.68 dBm
Frequency Range:	Proprietary / 902-928 MHz
Modulation:	FHSS / 7.5kHz
Antenna*:	Internal PCB Trace; +0.6 dBi*
Max. Transmit Power:	15.3 dBm
Rated Voltage:	3Vdc (Lithium Manganese Dioxide Battery)
Test Voltage:	3Vdc (Lithium Manganese Dioxide Battery)
Sample Received Date:	05 June 2024
Dates of testing:	05 June 2024– 07 June 2024

*Data was not measured; therefore, the lab is not responsible for accuracy. Data was obtained via customer, specification sheet, previous regulatory filing, or other means.



2 RF Exposure

2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 SAR Exclusion Calculations

The highest conducted output power in conjunction with the Upper and Lower frequency boundaries have been used to demonstrate compliance for both BLE and Proprietary transmission modes.

Power levels were referenced from measurements captured in report number 5185096EMC03 Rev.0

The EUT was considered for body application.



Bluetooth LE:

447498 D01 General RF Exposure Guidance v06 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:	1.12	dBm	
Duty Cycle:	100.0%		<== Source based time average duty cycle
Min separation distance:	5	mm	
Frequency, f:	2402	MHz	

Value reference	for Calculation 1.000 mW		Reference number definition
Number			
v1			[max. power of channel, including tune-up tolerance, mW] 'Rounded to nearest mW
v2			[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 \leq 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

((max. power of channel, including tune-up tolerance, mw) / (min. test separation distance, mm)] · [√f(GHZ)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,				
Exclusion Calculation(1g):	0.3100	number	<==	[v2 / v3] must be less than 3
Exclusion Calculation(10g):	0.3100	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

447498 D01 General RF Exposure Guidance v06

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

	Input	Select Units	
		011113	
Max Power:	1.68	dBm	
Duty Cycle:	100.0%		<== Source based time average duty cycle
Min separation distance:	5	mm	
Frequency, f:	2480	MHz	

Value reference Number			Reference number definition
v1	1.000 mW		[max. power of channel, including tune-up tolerance, mW] 'Rounded to nearest mW
v2	5 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: [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,

Exclusion Calculation(1g):	0.3150	number	<==	[v2 / v3] must be less than 3
Exclusion Calculation(10g):	0.3150	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



Proprietary:

447498 D01 General RF Exposure Guidance v06 SAR test exclusion calculations

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

	Input	Select	
	input	Units	
Max Power:	15.28	dBm	
Duty Cycle:	26.6%		<== Source based time average duty cycle
Min separation distance:	5	mm	
Frequency, f:	902.075	MHz	

Value reference	Values use	ed	Reference number definition	
Number	for Calculat	ion		
v1			[max. power of channel, including tune-up tolerance, mW] 'Rounded to nearest mW	
v2			[min. test separation distance, mm] 'Rounded to nearest mm	
v3	0.950		[\f(GHz)]	

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

[(max. power of channel, inc	$[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [\sqrt{f}(GHZ)] \leq 3.0 for 1-g SAR, and \leq 7.5 for 10-g extremity SA$			
Exclusion Calculation(1g):	1.7096	number	<==	[v2 / v3] must be less than 3
Exclusion Calculation(10g):	1.7096	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

447498 D01 General RF Exposure Guidance v06

SAR test exclusion calculations

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

	Input	Select	
input		Units	
Max Power:	15.3	dBm	
Duty Cycle:	26.6%		<== Source based time average duty cycle
Min separation distance:	5	mm	
Frequency, f:	903.3	MHz	

Value reference	Values use	ed	Reference number definition
Number	for Calculat	ion	
v1	9.000	mW	[max. power of channel, including tune-up tolerance, mW] 'Rounded to nearest mW
v2	5	mm	[min. test separation distance, mm] 'Rounded to nearest mm
v3	0.950		[[\] 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:

[(max. power of channel, incl	cluding tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,					
Exclusion Calculation(1g):	1.7108	number	<==	[v2 / v3] must be less than 3		
Exclusion Calculation(10g):	1.7108	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



3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	18 October 2024