

EDARE LLC

SAR EXCLUSION TEST REPORT

SCOPE OF WORK

SAR EXCLUSION CALCULATION on WAHTS Audiometer

REPORT NUMBER

105406683BOX-022.1_R1

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08/23/2023

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Non-Specific Radio Report Shell Rev. October 2022
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SAR EXCLUSION TEST REPORT

(FULL COMPLIANCE)

Report Number: 105406683BOX-022.1_R1**Project Number:** G105406683**Report Issue Date:** 08/23/2023**Report Revision Date:** 10/25/2023**Model(s) Tested:** AC**Model(s) Partially Tested:** None**Model(s) Not Tested but declared equivalent by the client:** None**Standards:** FCC Part 1 Subpart I, April 2021

Procedures Implementing the National Environmental Policy Act of 1969

*§1.1307 Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.***ISED RSS-102 Issue 5, March 19, 2015**Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus
(All Frequency Bands)

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1 Introduction and Conclusion

The tests indicated in section 2.0 were performed on the product constructed as described in section 4.0. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested **complies** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

2 Test Summary

Section	Test full name	Result
1	SAR Exclusion Evaluation (FCC §1.1310; ISED RSS-102 Issue 5)	Pass
2	Revision History	--

3 SAR Exclusion Evaluation

FCC SAR Test Exclusion Thresholds (FCC KDB Publication 447498 D01 v06):

For $100 \text{ MHz} \leq f \leq 6 \text{ GHz}$ and $d_{\min} \leq 50 \text{ mm}$:

$$\frac{P_{\max}}{d_{\min}} \cdot [vf_{(\text{GHz})}] \leq 3.0 \quad \text{for 1-g SAR, and}$$

$$\leq 7.5 \quad \text{for 10-g extremity SAR}$$

where P_{\max} = max. power of channel in mW
 d_{\min} = minimum test separation distance in mm
 f = RF channel transmit frequency

Calculation:

Type of TX	Frequency, f (GHz)	Minimum Separation Distance, dmin (mm)	Power*, Pmax (dBm eirp)	Peak Antenna Gain (dBi)	Pmax (dBm cond.)	Pmax (mW)	(Pmax/dmin)* SQRT(f)	SAR Test Exclusion Threshold (Extremity)	Result
BLE	2480	5	-3.33	2.75	-6.07	0.46452	0.014631	3.0	Compliant

*: data was taken from Intertek 105295733BOX-022 test report

Evaluation Results, FCC: Complies

ISED RSS-102 Issue 5 §2.5.2 Exemption:

Table 1: SAR evaluation — Exemption limits for routine evaluation based on frequency and separation distance^{4,5}

Frequency (MHz)	Exemption Limits (mW)				
	At separation distance of ≤5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm
≤300	71 mW	101 mW	132 mW	162 mW	193 mW
450	52 mW	70 mW	88 mW	106 mW	123 mW
835	17 mW	30 mW	42 mW	55 mW	67 mW
1900	7 mW	10 mW	18 mW	34 mW	60 mW
2450	4 mW	7 mW	15 mW	30 mW	52 mW
3500	2 mW	6 mW	16 mW	32 mW	55 mW
5800	1 mW	6 mW	15 mW	27 mW	41 mW

SAR evaluation is not required when the maximum of the conducted output power or EIRP is less than the exemption limits given in RSS-102 Issue 5 Table 1, above.

Type of TX	Frequency, f (GHz)	Minimum Separation Distance, dmin (mm)	Power*, Pmax (dBm eirp)	Peak Antenna Gain (dBi)	Pmax (dBm cond.)	Pmax (mW)	SAR Test Exclusion Threshold EIRP (mW)	Result
BLE	2480	5	-3.33	2.75	-6.07	0.46452	2	Compliant

*: data was taken from Intertek 105406683BOX-022 test report

Note: The separation distance between a radio's antenna structure to the user is less than 5mm.

Evaluation Results, RSS-102: Complies

4 Revision History

Revision Level	Date	Report Number	Prepared By	Reviewed By	Notes
0	08/23/2023	105406683BOX-022.1	VFV <i>VFV</i>	KPS <i>KPS</i>	Original Issue
1	10/25/2023	105406683BOX-022.1_R1	VFV <i>VFV</i>	KPS <i>KPS</i>	Addressed TCB reviewer's comments