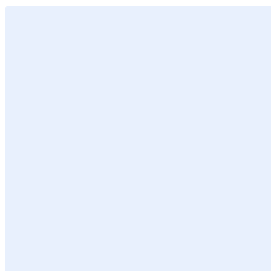


Prüfbericht-Nr.: <i>Test report no.:</i>	IN24FO3U 001/IN24WR8Y 001	Auftrags-Nr.: <i>Order no.:</i>	146912000 010	Seite 1 von 4 Page 1 of 4
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	2133653	Auftragsdatum: <i>Order date:</i>	03-05-2024	
Auftraggeber: <i>Client:</i>	Halsa Baby Inc 2626 Cole Avenue, Suite 429, Dallas, TX 75204 USA			
Prüfgegenstand: <i>Test item:</i>	Hälsa Baby All-In-One Wellness Monitor			
Bezeichnung <i>Identification</i>	HB2.0	Serien -Nr.: <i>Serial no.:</i>	Engineering Samples	
Auftrags-Inhalt: <i>Order content:</i>	Testing and issue of Test Report with Grant Certificate			
Prüfgrundlage: <i>Test specification:</i>	FCC 1.1310 & KDB 447498 D01 RSS 102 Issue 6			
Wareneingangsdatum: <i>Date of sample receipt:</i>	03-05-2024			
Prüfmuster-Nr.: <i>Test sample no:</i>	A003649514-001 Engineering Sample			
Prüfzeitraum: <i>Testing period:</i>	03-05-2024 - 01-06-2024			
Ort der Prüfung: <i>Place of testing:</i>	Wireless laboratory, Bangalore			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (India) Pvt. Ltd. 27/B,2nd cross road, Electronic city Phase1, Bangalore-560100, India FCC Test Site Registration No: 496599 IC Test Site Registration No: 27711			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2024-07-19	Ausstellatum: <i>Issue date:</i> 2024-07-19			
Stellung / Position:	M.V.Naveen Kumar Senior Engineer	Stellung / Position:	Madhu K.N Assistant Manager	
Sonstiges / Other:	FCC ID: 2BCMF-HALSAV02 IC: 32365-HALSAV02 HVIN: HBV10			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
5 = mangelhaft N/T = nicht getestet				
5 = poor N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

1 Maximum Permissible Exposure

1.1 RF Exposure Measurement

The limit for Maximum Permissible Exposure (MPE) specified in FCC Part 1 Subpart I 1.1310 is followed. The gain of the antennas used in the product are extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

1.2 Test Reference Limits

According to FCC Part 1 Subpart I 1.1310 The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Table 1: Limits for Maximum Permissible Exposure (MPE) as per FCC

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1500 – 100000	--	--	1.0

F or f = Frequency in MHz

Table 2: Limits for Maximum Permissible Exposure (MPE) as per ISED Canada

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m ²)
Limits for Occupational / controlled Exposures			
100-6000	$15.60 f^{0.25}$	$0.04138 f^{0.25}$	$0.6455 f^{0.5}$
Limits for General population / Uncontrolled Exposure			
300-6000	$3.142 f^{0.3417}$	$0.008335 f^{0.3417}$	$0.02619 f^{0.6834}$

F or f = Frequency in MHz

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Friss Formula

Friss Transmission Formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where,

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation.

Test Results:

Antenna details:

Protocol	Antenna Type	Antenna Gain (dBi)
Wi-Fi 2.4GHz	Chip Antenna	2.2
Wi-Fi 5GHz	Chip Antenna	5.2
BLE	PCB Antenna	0.41

Radio Protocol	Frequency (MHz)	Maximum measured RF output power with tune-up procedure (dBm)	Max power Including tune-up tolerance * (mW)	Antenna Gain in linear	Min Separation distance (CM)	Power Density (Pd)(mW/cm ²)	Limit (mW/cm ²)
Wi-Fi 2.4GHz	2462	17.92	61.9441	1.6596	20	0.0205	1
Wi-Fi 5GHz	5825	16.35	43.1519	3.3113	20	0.0284	1
BLE	2442	8.48	7.0469	1.0990	20	0.0015	1

Test Results for ISED:

Radio Protocol	Frequency (MHz)	Maximum measured RF output power with tune-up procedure (dBm)	Max power Including tune-up tolerance * (mW)	Antenna Gain in linear	Min Separation distance (Mtr)	Power Density (Pd)(W/m ²)	Limit (W/m ²)
Wi-Fi 2.4GHz	2462	17.92	61.9441	1.6596	0.2	0.2050	5.4417
Wi-Fi 5GHz	5825	16.35	43.1519	3.3113	0.2	0.2840	9.0825
BLE	2442	8.48	7.0469	1.0990	0.2	0.0150	5.1154

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Simultaneous Operation:

Radio Protocol	Frequency (MHz)	Max power Including tune-up tolerance* (mW)	Antenna Gain in linear	Min Separation distance (CM)	Power Density (Pd)(mW/cm²)	Limit (mW/cm²)
Wi-Fi 2.4GHz & BLE	2462 & 2442	68.9910	1.6596	20	0.0227	1

1.3 Conclusion

The Power density of the EUT is less than defined limit as shown above. Hence, it's meeting the RF Exposure evaluation.