

RF EXPOSURE REPORT

Applicant	ARTURIA SAS
Address	26, avenue Jean Kuntzmann, 38330 Montbonnot Saint Martin, France

Manufacturer or Supplier	ARTURIA SAS
Address	26, avenue Jean Kuntzmann, 38330 Montbonnot Saint Martin, France
Product	ASTROLAB
Brand Name	ARTURIA
Model	ASTROLAB 88
Additional Model & Model Difference	N/A
Date of tests	Mar. 11, 2025 ~ Mar. 19, 2025

☒ FCC Part 2 (Section 2.1093)

☒ KDB 447498 D01 V06

☒ IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

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	Date: May 26, 2025

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Test Report No.: FM2410WDG0258

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Test Report No.: FM2410WDG0258

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2410WDG0258	Original release	May 26, 2025

1. CERTIFICATION

FCC ID:	2BN6S-AL88
PRODUCT:	ASTROLAB
BRAND NAME:	ARTURIA
MODEL NO.:	ASTROLAB 88
ADDITIONAL NO.:	N/A
APPLICANT:	ARTURIA SAS
STANDARDS:	FCC Part 2 (Section 2.1093)
	KDB 447498 D01 V06
	IEEE C95.1

2. RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, 16 where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
- a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) $\cdot$ (f(MHz)/150)] mW, at 100MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) $\cdot$ 10] mW at > 1500 MHz and ≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
- a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by $[1 + \log(100/f(\text{MHz}))]$ for test separation distances > 50 mm and < 200 mm.
 - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$ for test separation distances ≤ 50 mm.
 - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

3. CLASSIFICATION

The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as **Portable Device**.

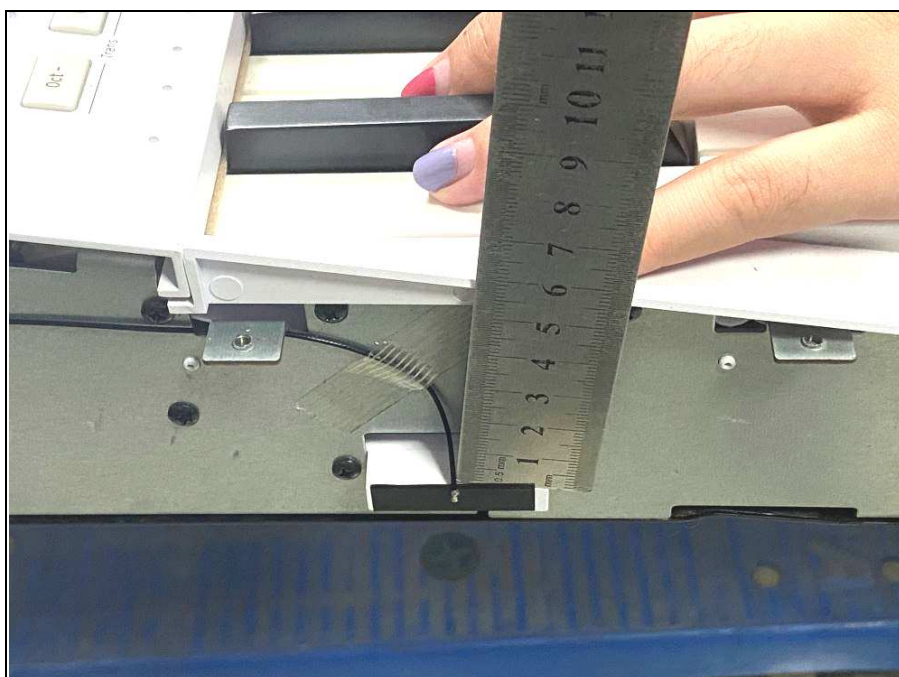
4. CALCULATED RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency Band (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BR/DER	2402 ~ 2480	3	+1	2	4
2.4GHz Wi-Fi	2412 ~ 2462	14	+2	12	16
5GHz Wi-Fi (U-NII-1)	5150 ~ 5250	15	+2	13	17

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BR/DER	2480	3.44
2.4GHz Wi-Fi	2437	14.45
5GHz Wi-Fi (U-NII-1)	5240	15.61



SAR Test Exclusion Thresholds

Mode	Frequency (MHz)	Maximum source-based time averaged conducted output power (dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
BR/DER	2402 ~ 2480	4	50	0.079	3.0	7.5	Exempt from SAR
2.4GHz Wi-Fi	2412 ~ 2462	16	50	1.249	3.0	7.5	Exempt from SAR
5GHz Wi-Fi (U-NII-1)	5150 ~ 5250	17	50	2.297	3.0	7.5	Exempt from SAR

CONCLUSION:

The WLAN 2.4GHz and 5GHz can not transmit simultaneously, the BT and WLAN can transmit simultaneously, the formula of calculated the MPE is:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})/x}] \text{ W/kg, where } x = 7.5$

BR/DER: $2.51189\text{mW}/50\text{mm} \cdot \sqrt{2.48/7.5} = 0.011 \text{ W/kg}$

5GHz Wi-Fi: $50.11872\text{mW}/50\text{mm} \cdot \sqrt{5.25/7.5} = 0.306 \text{ W/kg}$

$0.011 + 0.306 = 0.317 < 0.4 \text{ W/kg}$

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.