



2nd Floor, 63-66 Hatton Garden, London - EC1N 8LE
Tel: +44 (0) 203 745 5201

RF Exposure Analysis for the Elvie LIMA Pump EB01

FCC ID: 2AEHI-EB01

Analysis for FCC portable use

Standalone SAR test exclusion considerations are defined in KDB 447498D01 (v06) Chapter 4.3.1 where the 1-g head or body and 10-g extremity SAR exclusion threshold is defined by the following formula:

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

- $f(\text{GHz})$ 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 maximum specified conducted transmitter power is +4dBm (2.51mW)

Applying this value in the given KDB 447498 D01 formula, and minimum separation distance of 5mm, the following results:

$$(2.51\text{mW} / 5 \text{ mm}) \times \sqrt{2.4 \text{ GHz}} = 0.8$$

(i.e.: ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR)

Conclusion

This demonstrates that the Elvie LIMA Pump EB01 equipment meets the criteria for 1-g head/ body and 10-g extremity SAR test exemption at 5mm.

Signature: Alastair Traquair Date: 23/Aug/2021