

RF Exposure Exhibit

EUT Name: Glucose Monitoring System

Model Nos.: Apollo

CFR Part 1.1310, RSS 102 and KDB 447498 D01

Prepared for:

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1 RF Exposure

1.1 Test Methodology

In this document, we try to prove the safety of radiation harmfulness to the human body for our product and the EUT is excluded from SAR test.

1.2 RF Exposure limit

General SAR test reduction and exclusion guidance of KDB 447498 D01 General RF Exposure Guidance v05r02 was used for determination of SAR test exclusion.

As per above KDB,

At frequencies below 100 MHz, the following may be considered for SAR test exclusion, and as illustrated in Appendix C

- a) The power 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 power 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 100MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

As per table in Appendix C power limit at 100MHz and distance < 50 mm is 237mWatts

Device operates at 13.56 MHz

Further application for correction of operating frequency

$$\begin{aligned} &237 \times [1 + \log (100/f (\text{MHz}))] \\ &237 \times [1+\log (100/13.56)] \\ &237 \times 1.8677 = 442.644\text{mWatts} \end{aligned}$$

The limit is 442 mWatts

Manufacturer also declared that max input power to the antenna is 23dBm = **199mWatts**

EUT Power input to antenna is 199mWatts $<$ the limit, hence qualifies for SAR test exclusion.

As stated, the EUT was found to be compliant to the requirements of the test standard(s).