



SAR exemption evaluation

Applicant	ID TECH
FCC ID	WQJ-KIIISREDB
Product	ViVOpay Kiosk III SRED
Brand	ViVOpay
Model	ViVOpay Kiosk III SRED
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**Conducted Power**

Carrier frequency (MHz)	worst-case peak radiated emission (dBμV/m)
13.558	80.318

The worst-case peak radiated emission for the EUT is 80.318 dBμV/m at 3m in the frequency 13.558MHz

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = -14.882 \text{ dBm}$$

$$\text{ERP} = \text{EIRP} - 2.15 = -17.032 \text{ dBm, Gain}=0\text{dBi}$$

So

$$\text{Maximum Output Power} = -16.25 \text{ dBm}$$

Test result

Per KDB 447498 D01, the 1-g SAR test exclusion thresholds for frequencies below 100 MHz and test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \cdot 0.5 \leq 3.0$$
 for 1-g SAR

where

- The test separation distance at 50mm
- The test frequency at 100 MHz

Frequency (MHz)	Distance (mm)	MAX Power (dBm)	Ratio	Evaluation
13.558	50	-17.032	0.000063	No