



LS RESEARCH
Wireless Product Development

Exemption from SAR evaluation

Tandem Diabetes
CWO-TWM001

FCC OET KDB 447498 D01 states that unlicensed intentional radiators that meet the output power requirements as stated in section 2(a)(i) may be used in a portable exposure condition with no restrictions on host platform.

Output Power Evaluation.

Evaluation Frequency = 2402MHz

Device Operation separation distance: ≤20cm

Maximum Effective Isotropic Radiated Power (dBm) = 5.3 dBm + 0.5dBi = 5.8dBm

Maximum Effective Isotropic Radiated Power (mW) = $\log^{-1}(\text{EIRP(dBm)}/10)$ = 3.388mW

Section 2(a)(i) general public use limit:

$P_{\text{out}} \leq 60/f(\text{GHz})$

Limit = $60/2.4 = \underline{25.0\text{mW}}$

Conclusion:

Since the maximum effective isotropic radiated power (EIRP) is less than the applicable limit of 25.0mW, the Product is exempt from SAR Evaluation.