FCC §15. 319 (i) & §2.1093 - RF EXPOSURE

Applicable Standard

According to FCC §15.319 (i) Unlicensed PCS devices are subject to the radiofrequency radiation exposure requirements specified in § 1.1307(b), 2.1091 and 2.1093 of this chapter, as appropriate. All equipment shall be considered to operate in a "general population/uncontrolled" environment. Applications for equipment authorization of devices operating under this section must contain a statement confirming compliance with these requirements for both fundamental emissions and unwanted emissions. Technical information showing the basis for this statement must be submitted to the Commission upon request.

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According to KDB 447498 D01 Mobile Portable RF Exposure v041) c): Unless excluded by specific FCC test procedures, portable devices with output power is $\leq 60/f(GHz)$ mW shall include SAR data for equipment approval.

RF Exposure Evaluation

Maximum conducted peak output power: 18.91 dBm = 77.80 mWAntenna Gain: -4.0 dBiDuty Cycle=Ton/Tp=3.86 %The time base average power=77.80 mWx 3.86 % = 3.003 mW60/f(GHz) = 60/1.924992 = 31.17 mWThe source-base average power is less than 60/f(GHz)

So, the SAR evaluation can be exempted.

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