US Tech Test Report: FCC Part 15 Certification/ RSS 247 FCC ID: 2AHFE-UFMT1000 IC: 21143-UFMT1000 Test Report Number: 16-0020 Issue Date: February 11, 2016 Customer: Soneter, Inc. UFMT-1000

MPE and SAR Threshold Requirements

Maximum Public Exposure to RF (MPE) CFR 1.1310(e)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm² at a distance, d, of 20 cm from the EUT.

Therefore, for: 2.4 GHz WIFI:

Model:

Highest Antenna = 3.8 dBi

Peak Power (Watts) = 0.035 (from UST Test Report 16-0020) Gain of Transmit Antenna = 3.8 dBi = 2.39, numeric (from UST Test Report 16-0020) d = Distance = 20 cm = 0.2 m

S = $(PG/4\pi d^2)$ = EIRP/4A = $0.035(2.39)/4^*\pi^*0.2^*0.2$ $= 0.08365/0.503 = 0.1663 \text{ W/m}^2$ $= (W/m^2) (1m^2/W) (0.1 \text{ mW/cm}^2)$ $= 0.01663 \text{ mW/cm}^2$

which is << less than 1.0 mW/cm²

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SAR Threshold Requirements

Based on limits from KDB 447498 D01 General 26 RF Exposure Guidance v05r01, Appendix A

Highest Gain Antenna (Trace Antenna) = 3.81 dBi

Peak Power (dBm) = 15.46 (highest measured output power level)
Gain of Transmit Antenna = 3.81 dBi
Distance = > 50 mm
time based average = Duty Cycle = 22% (see test report)

Total source based time average = (Pwr dBm) + (Ant gain dBi) * time based average

15.46 dBm + 3.81 dBi = 19.27 dBm (84.53 mW) * 0.22 = 18.5 mW

which is << less than 96 mW for FCC which is << less than 309 mW for IC

All calculations performed by:

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Date: 2/19/2016
Signature:_____

Note: validation of output power levels and antenna gain information please see the referenced test reports for this submittal.