



November 08, 2017

TUV SUD BABT
Octagon House, Concorde Way
Segensworth Rd N, Fareham
PO15 5RL

Attention: Director of Certification

RE: Analysis of RF Exposure for Portable and Mobile use per KDB 447498 D01 Mobile Portable RF Exposure v06.

FCC ID: 2AN64-9087
IC: 23348-9087

1. Mobile MPE Calculation Summary using a 20cm separation distance:

Mode	Output Power	Power Density (mW/cm ²)
128 kHz Transmitter	96.5 dBμV/m @ 3 meters	0.26659463

2. Mobile MPE Calculation using a 20cm separation distance:

Using Power Density formula:

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to isotropic

R = distance to the center of radiation of the antenna

Measured Field Strength --Radiated:	96.5	(dBuV/m)
Maximum peak output power --Radiated:	0.00134005	(W)
Antenna gain(typical):	0.00	(dBi)
Maximum antenna gain:	1.00	(numeric)
Prediction distance:	20.00	(cm)
Prediction frequency:	125 kHz	(MHz)
Applied Limit:	100	(mW/cm ²)
Power density at prediction frequency:	0.26659463	(mW/cm ²)
Margin of Compliance:	-30.04	(dB)



America

No MPE limits exist under §1.1310 for 125 kHz transmitter. The lowest frequency covered by Table 1 (§1.1310 (e)) is 300 kHz. Limit used in the calculation presented is based from 300 kHz (100 mW/cm²).

Sincerely,

Ferdie S. Custodio

Name

Authorized Signatory

Title: Senior EMC/Wireless Test Engineer