August 30, 2013

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

Attention: Director of Certification
RE: Prediction of MPE limit at a given distance as per KDB 447498 D01 Mobile Portable RF Exposure
v05r01

FCC ID R5Q-TOBYL100
IC: 8595B-TOBYL100

Equation for Power Density:

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

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

	LTE Band 4	LTE Band 13	
Maximum peak output power at antenna input terminal:	23.13	23.39	dBm
Maximum peak output power at antenna input terminal:	205.59	218.27	mW
Antenna gain (max):	6.57	10.7	dBi
Maximum antenna gain:	4.539	11.749	numeric
Prediction distance:	20	20	cm
Source Based Time Average Duty Cycle:	100	100	%
Prediction frequency:	1732.5	782	MHz
MPE limit for uncontrolled exposure at prediction frequency:	1.000	0.521	mW/cm^2
Power density at prediction frequency:	0.1857	0.5102	mW/cm^2
Power density at prediction frequency:	1.857	5.102	W/m^2
Margin of Compliance:	-7.31	-0.09	dB

Sincerely,

Ferdie S. Custodio
Name
Authorized Signatory
Title: EMC/Wireless Test Engineer