



March 4, 2019

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

Attention: Director of Certification

RE: Analysis of RF Exposure per KDB 653005 for 76-81 Ghz Radars v01.

FCC ID: LTQJ4TR
IC: 3659A-J4TR

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

Mode	Output Power	Power Density (mW/cm ²)	Power Density (μW/cm ²)
J4TR 76-81 GHz Vehicular Short-Range Radar	119.43 dBμV/m @ 3 meters	0.05234213	52.34213

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:	119.43	(dBuV/m)
Maximum peak output power --Radiated:	263.1002463	(mW)
Antenna gain(typical):	0.00	(dBi)
Maximum antenna gain:	1	(numeric)
Prediction distance:	20.00	(cm)
Prediction frequency:	76000	(MHz)
Applied Limit:	1	(mW/cm ²)
Power density at prediction frequency:	0.05234213	(mW/cm ²)
Margin of Compliance:	-12.81	(dB)



Sincerely,

Sandipan Basu.

Sandipan Basu

Name

Authorized Signatory

Title: EMC/Wireless Test Engineer