



August 7, 2017

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

Attention: Director of Certification

FCC ID: LTQB3TR
IC: 3659A-B3TR

RE: *Minimum separation distance calculation per guidance from KDB 447498 D01 Mobile Portable RF Exposure v06 and RSS-102 Issue 5 March 2015.*

<i>EUT</i>	B3TR 76-77 GHz Vehicular Radar
<i>EIRP</i>	396.28 mW (measured worst-case Peak EIRP of the EUT)
<i>Frequency</i>	76.0925 GHz
<i>FCC Limit (§1.1310 (d)(4))</i>	1.0 mW/cm ² @ 76.0925 GHz
<i>ISED Limit (RSS-102 (4) Table 4)</i>	10 W/m ² @ 76.0925 GHz

Equation for predicting RF field was used to determine the minimum distance that will comply with the requirements:

$$S = \frac{EIRP}{4\pi r^2}$$

Where: EIRP = equivalent isotropically radiated power
 r = distance from the antenna to the point of investigation



From this formula, using 1.0 mW/cm^2 as S , the distance r is then calculated. This is the minimum distance of compliance with the power density requirements.

$$r = \sqrt{\frac{EIRP}{4\pi S}}$$

$$r = \sqrt{\frac{396.28 \text{ mW}}{12.566 \frac{\text{mW}}{\text{cm}^2}}}$$

Therefore $r = 5.6$ centimeters from the EUT antenna surface.

Sincerely,

A handwritten signature in black ink, appearing to be 'Nikolay Shtin', written over a horizontal line.

Nikolay Shtin

Name

Authorized Signatory

Title: EMC/Wireless Engineer