



October 5, 2016

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

Attention: Director of Certification

**FCC ID:** LTQR3TR  
**IC:** 3659A-R3TR

**RE: *Minimum separation distance calculation per guidance from KDB 447498 D01 Mobile Portable RF Exposure v05r02 and RSS-102 Issue 5 March 2015.***

<b>EUT</b>	R3TR 76-77 GHz Vehicular Radar
<b>EIRP</b>	382.82 mW (measured worst-case Peak EIRP of the EUT)
<b>Frequency</b>	76.0925 GHz
<b>FCC Limit (§1.1310 (d)(4))</b>	1.0 mW/cm <sup>2</sup> @ 76.0925 GHz
<b>ISED Limit (RSS-102 (4) Table 4)</b>	10 W/m <sup>2</sup> @ 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  $1.0 \text{ mW/cm}^2$  as  $S$ , the distance  $r$  is then calculated. This is the minimum distance of compliance with the power density requirements.

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

$$r = \sqrt{\frac{382.82 \text{ mW}}{12.566 \frac{\text{mW}}{\text{cm}^2}}}$$

**Therefore  $r = 5.5$  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