

# RF Exposure Compliance Report

Model : M2700TP-  
FCC ID : 2AEBL-M2700TP  
Product Type : Standalone Transponder module  
Applicant : ABB Xiamen Smart Technology Co., Ltd.  
Production Facility : ABB Xiamen Smart Technology Co., Ltd.  
Address : NO.7 Fangshan South Road, Torch High Technology Development Zone (Xiang An) Industrial Zone, Xiamen S.E.Z, Fujian Province, P.R. China

## RF Exposure Compliance Requirement

According to ANSI C63.10:2013 clause 12.7.3 d):  
 $EIRP = (E \times d)^2 / 30$

EIRP is power in W  
E is the electric field strength in V/m  
d is the measurement distance in meters (m)  
when d is 3m,  $EIRP[dBm] = E[dB\mu V/m] - 95.2$

maximum field strength of 13.56MHz is 49.3dB $\mu$ V/m at 3m,  
 $EIRP[dBm] = 49.3[dB\mu V/m] - 95.2 = -45.9dBm$   
 $EIRP = 2.57 \times 10^{-5}mW$

SAR exclusion justification in accordance to KDB 447498 D01 Section 4.3.1:

$EIRP \text{ power} = 0.0000257mW$   
 $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$   
 $[(0.0000257, mW) / (5, mm)] \cdot \sqrt{0.01356(\text{GHz})} \leq 3.0$   
 $5.96 \times 10^{-7} \leq 3.0$

Therefore the device meets the FCC SAR exemption requirements

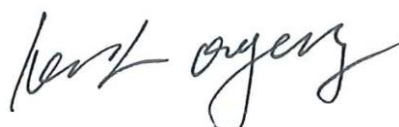
--TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch--

Reviewed by:



Tony Liu / Project Reviewer  
Date: 2020-05-21

Prepared by:



Kevin Ouyang / Project Handler  
Date: 2020-05-21