

Appendix E

Test Results of RF Exposure

🛕 TÜVRheinland® Appendix E 17045684 002 Produkte Page 2 of 2 Products Appendix E.1: RF Exposure Compliance **Radio Frequency Exposure Compliance RESULT:** Passed Test standard FCC 1.1310 : RSS-102 Issue 5 FCC KDB publication 447498 D01 v05 This device is mobile device, and the applicant declares that the minimum separation distance is greater than 20cm. Therefore MPE measurement or computational modeling should be used to determine compliance. MPE Calculation According to the formula $Pd = \frac{Pout * G}{4R^2\pi}$ Where $Pd = power density in mW/cm^2 or W/m2$ Pout = output power to antenna in mW or W G = Antenna gain in numeric $\pi = 3.14159$ R = Distance between observation point and the center of radiator in cm or m In here Pout = 17.53dBm = 56.62mW G = 1.35 dBi = 1.36 (numeric) R = 20cmFor Wi-Fi operation: $Pd = \frac{Pout * G}{4R^2 \pi} = \frac{56.62 * 1.36}{4 * 20^2 * 3.14159} = 0.0153 mW / cm^2 < 1 mW/cm^2 \text{ for FCC limit}$ $Pd = \frac{Pout * G}{4R^2 \pi} = \frac{0.05662 * 1.36}{4 * 0.2^2 * 3.14159} = 0.153W / m^2 < 5.4W/m^2 \text{ for IC limit}$ The summed maximum permissible exposure (MPE) level is 0.0153mW/cm² and 0.153W/m². It is less than MPE limit 1mW/cm² for FCC and 5.4W/m² for IC, therefore the device compliance with MPE limit.