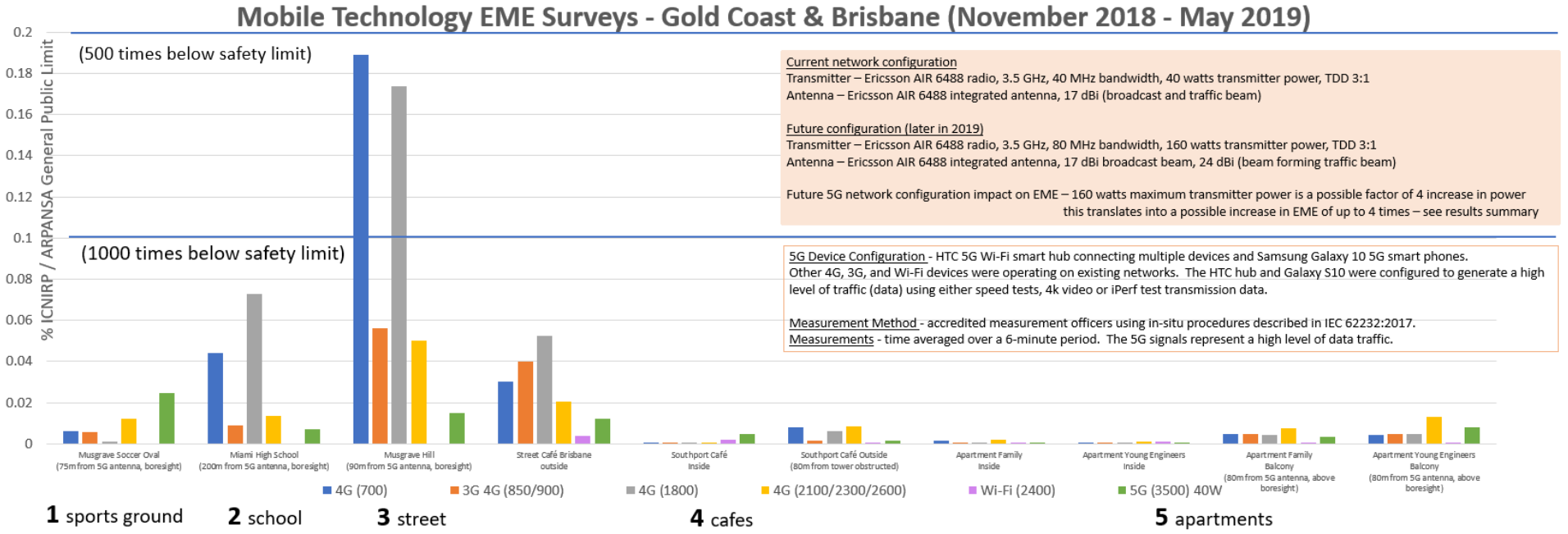
5 SURVEYS OF 5G

AIM: Undertake EME measurements from Telstra's new 5G network under typical use conditions and locations of public interest close to 5G base stations, including a sports ground, school, street, cafés and apartments.

PURPOSE: To show a comparison of EME levels from 5G, 4G, 3G and Wi-Fi in everyday use conditions to the public RF human exposure limits set by the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA).

RESULTS:

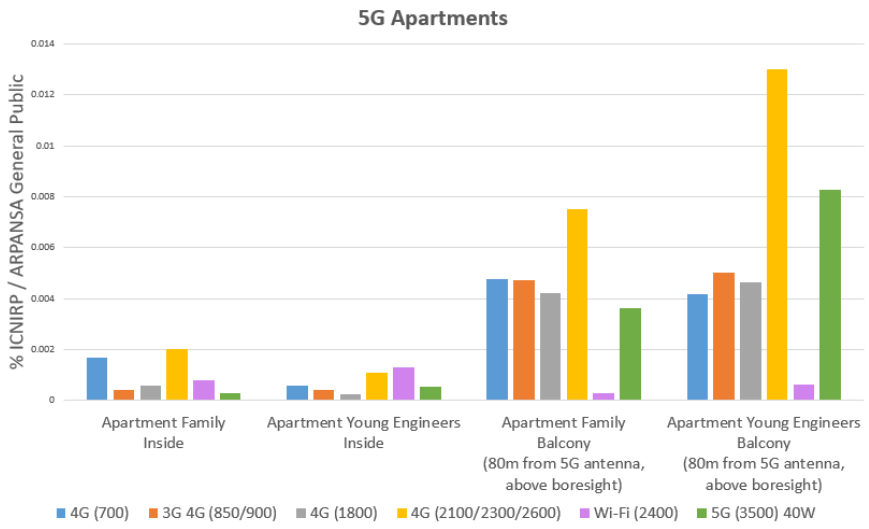


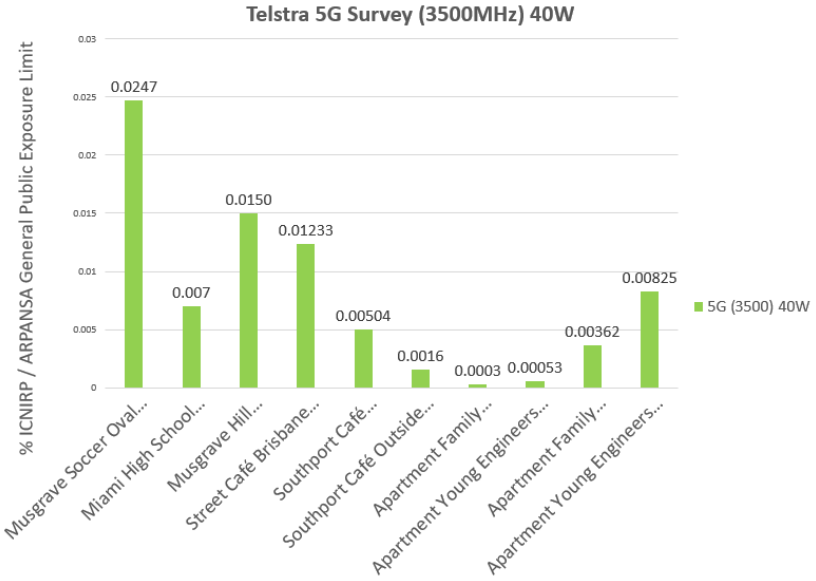
Public Areas:	➢ All of our testing has found 5G EME levels to be similar to 3G, 4G and Wi-Fi. ➢ 5G EME levels in public areas ranged from 0.0003 to 0.025 % of the ICNIRP / ARPANSA public limits If scaled by a factor of 4 to allow for maximum 80MHz Bandwidth and 160Watts power, the EME levels would range from 0.0012 to 0.1% ARPANSA public limit
Rooftop additional survey for maintenance workers	➢ 5G EME levels on a rooftop near a tower ranged from 0.019 to 0.8% of the ICNIRP / ARPANSA public limits If scaled by a factor of 4 to allow for a maximum 80MHz Bandwidth and 160Watts power, the EME levels would range from 0.076 to 3.2% ARPANSA public limit

5 SURVEYS OF 5G

5G Connected Smart Apartment – Young Engineers

5G Connected Smart Apartment – Young Family





CONCLUSION: 5G EME levels were found to be well below the safety limit, and in many cases over a thousand times lower.