ANNEX A - 15.209 Conducted (30MHz-26GHz)

Naming Convention:

Frequency (MHz)_Measured Range (30-1000MHz, 1-26GHz, Band Edge)_Measurement (Avg, Peak)

Note: below measurements are in units of dBuV/m at 3meters. These measurements are performed conducted in lieu of radiated as permitted by ANSI C63.10-2013. The following formula was used in making such conversions:

Above 1GHz: $E[dB\mu V/m] = EIRP[dBm] - 20 \log (d[m]) + 104.77$, where E is field strength and d is

distance at which the field strength limit is specified in the applicable requirements. $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for d = 3 m. Straight conversion between E[dBuV/m] and EIRP[dBm] = 107. Thus offset for dBuV/m at 3 meters is 95.2-107+ antenna gain.

Below 1GHz: above is true in addition to adding ground plane contribution of 4.7dB. Thus offset for dBuV/m at 3meters is 95.2-107+4.7+antenna gain.

Note: the antenna gain of the EUT is -0.68 dBi(Per ANSI C63.10, no less than 2dBi should be used). The following equation are followed in order to input offset value into the PSA:

For 30-1000MHz -11.8 + 4.7dB + 2dBi = -5.1dB

For above 1GHz - 11.8 + 2dBi = -9.8dB

Note: as can be seen in below plots' offsets, higher corrections were used. Thus, compliance is shown under worse-case circumstances (i.e. higher offset than necessary)





