

SIL-SK63100

1. Tune-up procedure containing a list of maximum conducted power levels in all operation modes, including tolerance for component variations. This information is important for us to determine whether the design is capable of staying compliant in terms of EMC and RF exposure performance in a production unit. Please also move the antenna specification file currently in the tune-up procedure exhibit to operational description which seems to be a better fit.

There is no tune-up procedure that is done by the manufacturer. Below is an excerpt from the Sil6310 datasheet specifying a +2/-3dB variation in the average output power when the chip is operating in HRP full-rate. Manufacturing differences of the CMOS power amplifiers, printing and fabrication of the integrated antennas, and mounting of the IC to the 60GHz package all contribute to this variation and are independent of the mode of system operation. The output power was set such that the measurement passes the MPE limit with margin to accommodate for this process variation.

RF Specifications

Symbol	Parameter	Condition	Min	Typ	Max	Units
P _{HREIRP}	HRP Radiated Power (EIRP) ^{2,3}	—	23	26	28	dBm
P _{LREIRP}	LRP Radiated Power (EIRP) ²	—	18	21	31	dBm
G _{HRTX}	HRP Transmit Antenna Gain ²	—	—	16	18	dBi
G _{LRTX}	LRP Transmit Antenna Gain ²	—	—	6	16	dBi

2. Per 2.1033(b)(11), demonstration of compliance to 15.255(i) is required for a 59-64 GHz transmitter.

Per section 7.11 of the test report, the Transmitter Identification requirement is not applicable. The EUT is part of a WVAN. All components of the WVAN are for indoor operation only. There are no outdoor units therefore no transmissions are directed outside the building."