

## **Tune up procedure**

To set up transmit power before shipping. GSM module uses a manufacturing Process which is called “Calibration of Rx and Tx power over the dynamic range, temperature and frequency”.

GSM technical standard requires GSM module to transmit more than +31dBm output power when it is require to transmit its maximum power. Therefore, GSM module sets the maximum power of the module to +33dBm(+2dB,-2dB)

By adjusting Tx AGC Amplifier built in the GSM module, transmit power can be limited to +33dBm(+2dB,-2dB)

Transmit power calibration consists of transmit linearizer calibration, and power compensation calibration over the temperature and frequency.

To prevent the variation in maximum power over the frequency, the transmit circuit is calibrated over the frequency and compensation values are found. These values are also used to limit the maximum output power to +33dBm(+2dB,-2dB)

Also to prevent the variation in maximum power over the temperature, the transmit circuit is calibrated over the temperature and compensation values are found. These are also used to limit the maximum output power to + +33dBm(+2dB,-2dB) when there is variation in temperature.