The Chinese government has developed GaoFen series of satellites to observe the Earth, with GaoFen-5 for air quality monitoring specially. There are four main instruments onboard GaoFen-5, Directional Polarization Camera (DPC), Environment Monitoring Instrument (EMI), Atmospheric Infrared Ultraspectral (AIUS), and Greenhouse-gases Monitoring Instrument (GMI). DPC is similar as PARASOL, which mainly measures scattering properties of aerosol and clouds with polarization. The EMI with spectrum range in 270-790 nm can obtain information of trace gases such as NO$_2$, SO$_2$, and O$_3$ as OMI. At the same time, AIUS can provide vertical profiles of trace gases such as O$_3$ with occultation observation. GMI measures information of greenhouse gases of CO$_2$ and CH$_4$ with shortwave infrared bands. The integrated observation of these instruments can provide a comprehensive insights into the air pollution in China. As all the instrument test and algorithms reached the end, the GaoFen-5 satellite is expected to be launched later in 2018.