

ABSTRACT

A non-invasive detection method, device, system and wearable apparatus for tissue element are provided. The method includes: emitting incident light of multiple
5 predetermined wavelengths to a detected site, respectively; for each predetermined wavelength, obtaining light intensity values emitted from a surface of the detected site based on multiple photosensitive surfaces, wherein multiple photosensitive surfaces are at predetermined distances from a center of the incident light; and determining a concentration of the tissue element to be detected according to light intensity values in
10 multiple predetermined wavelengths.