The powder diffraction spectrum was compared with standard crystallographic data retrieved from the International Centre for Diffraction Data (ICDD) database using the PDF-4+ 2019 program. Because of the amorphous nature of the sample, several phases were observed. The highly probable match for most of the peaks was carbon (C) with reference number 00-026-1077 with 2θ values of 26.76, 42.94, 44.04, 45.76, 62.82, 66.96 and 77.72o as shown in the figure below. Other phases corresponding to C60 (00-044-0558), C70 (00-048-1206) and graphite (00-056-0159) were also observed. These are different allotropes of carbon.

