



**Figure 2: Pre-treatment digital casts.** Pre-treatment digital casts show the patient's occlusal relation when the mandible shifts forward allowing posterior teeth to occlude. Cast analysis shows a Class III canine and molar occlusal relation, an anterior crossbite on the maxillary incisors, a negative overjet (-2.6 mm) and overbite (5.1 mm). Severe maxillary crowding and mild mandibular crowding were observed, with the maxillary right lateral incisor and canine blocked out of the arch. The maxillary inter-canine and inter-molar widths were 38.2 mm, 51.5 mm, respectively, and the mandibular inter-canine and inter-molar widths were 27.5 mm, 43.9 mm, respectively. The patient's maxillary right second molar was not present in the arch, while the maxillary left second molar was partially erupted and the mandibular second molars were erupting.