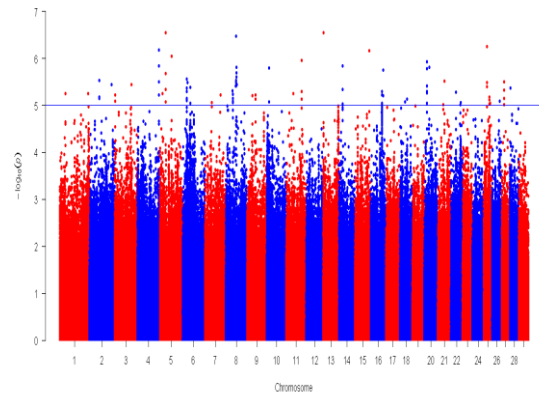
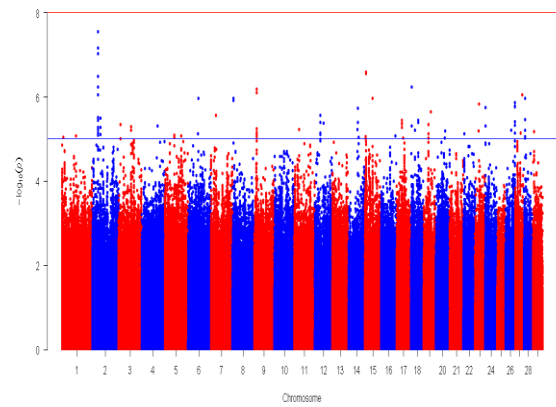


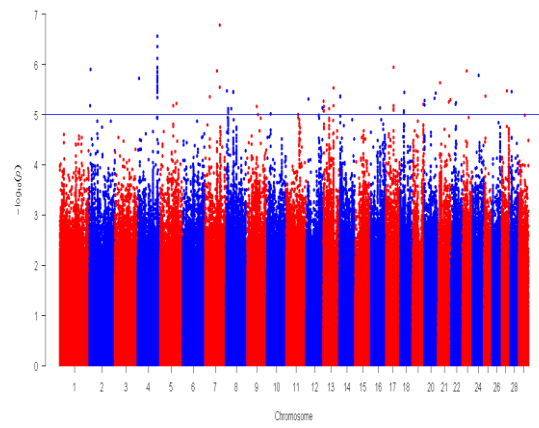
a)



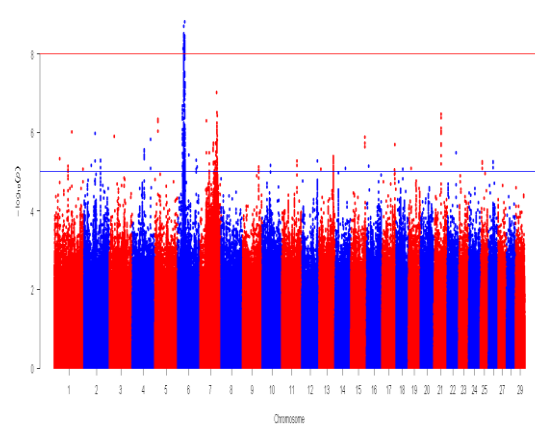
b)



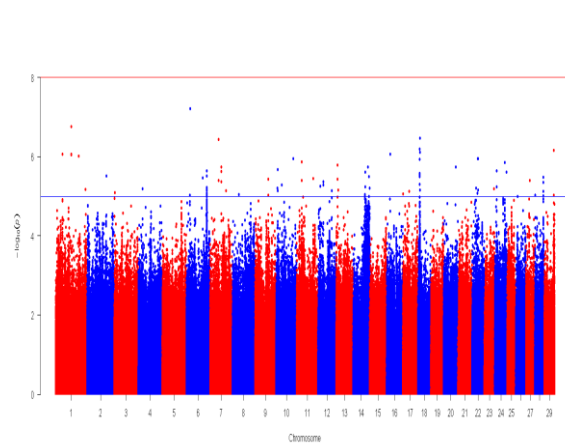
c)



d)



e)



f)

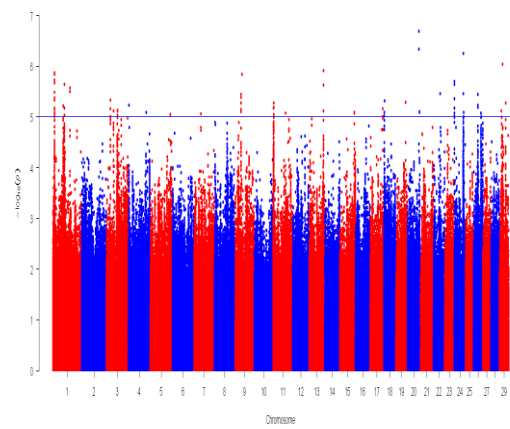


Figure S4:Manhattan plots for hip width in a) Angus, b) Charolais, c) Hereford, d) Limousin, e) Simmental, and f) rump width in Holstein-Friesian.