Hi Simone,

did you make sure, that all your Lambdas decay to p pi- in your decay file?

What you can do is to make the truth match 'by hand'. Since you have the McTruth list, you should be able to find the proper indices of the p and the pi- from the true Lambda and check, whether there are particles in your reco list with corresponding McIndex.

You can then also check the properties of the true candidates, which don't get a reco match. Maybe they have very small transverse momenta or whatsoever, so that they don't get reconstructed properly.

Best regards,
Klaus