Variable	Requirement
Downstream-track selection	
Each π-track momentum	> 2 GeV/c
Each π-track transverse momentum	> 0.05 GeV/c
Each track fit χ^2/ndf	< 25
Distance of closest approach of each π-track to the z axis	> 3 mm
K_S^0 decay vertex fit χ^2/ndf	< 25
z of K_S^0 decay vertex	< 2200 mm
$|z|$ of pseudo-PV	< 150 mm
$\cos\theta_{\text{pointing}}$	> 0.99995
K_S^0 proper time ($c\tau$)	> 5 mm
Long-track selection	
$|z|$ of associated PV	< 200 mm
Each track fit χ^2/ndf	< 25
K_S^0 decay vertex χ^2/ndf	< 100
$z(K_S^0) - z(\text{PV})$	> 0 mm
Variable ν related to impact parameters	> 2