If you want your I/O in functional mode, then don’t use clamp_hold persistence while running PRBS.

However, when PRBS is running and 1000 other pins are randomly (via mission mode functions) toggling, power-drop, cross-talk, noise sources are difficult if not impossible to isolate from high-value PRBS errors.

(This is MODE when CH is not on)
PRBS

CH-Mode

(This is MODE when CH is not on)

Functional

Mode = 1 = Test

400 pairs in PRBS
1000 other pins need to be in clamp-hold with mode = 1

If you want your I/O in functional mode, then don’t use clamp_hold persistence while running PRBS

MyBIST TDR

Update FF Set input

MyBIST = 1

MyBIST = 1
Or
RESET*
(Slightly less desirable)

TDI

C/S

Upd

TDO

Mode = 1 = Test

400 pairs in PRBS
1000 other pins need to be in clamp-hold with mode = 1

If you want your I/O in functional mode, then don’t use clamp_hold persistence while running PRBS

MyBIST = 1
Or
RESET*
(Slightly less desirable)

CH-Mode

(TThis is MODE when CH is not on)