

Measured Waveform Penalties with new Ewen TP3 stressors for Extended Length Equalizers

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- Update of results presented in http://grouper.ieee.org/groups/802/3/aq/public/upload/TP2measuredwaveformpenalties_finiteEQsnewEwenTP3stressors.pdf
- Results for extended length equalizers to investigate the gap between NFFE=16/NDFE=6 and NFFE=100/NDFE=50
- Plots show expected behavior (Penalties decrease gracefully as the number of taps increase)

Plot Parameters

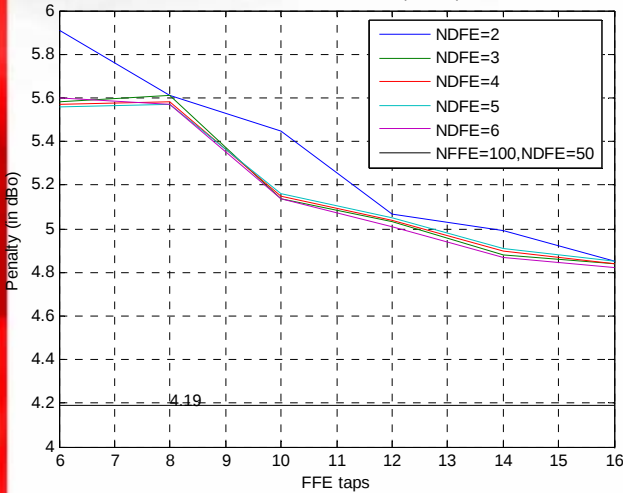
- Based on MATLAB code similar (but not identical) to TWDP core
- Each row is is the Finisar 1201-01 measured waveform
- Each column is from John Ewen's TP3 stressor Excel spreadsheet (4/7/05), with PIE-D approx. equal to 4.5 dB
 - channel 1 (pre, row 23), channel 2 (post, row 20), channel 3 (split symm, row 22)
 - Stress levels not final, but shows trends under 3 IPRs
- Each trace is #FB taps
- Y axis is power penalty, dBo

Finisar 1207-01: Short Eq

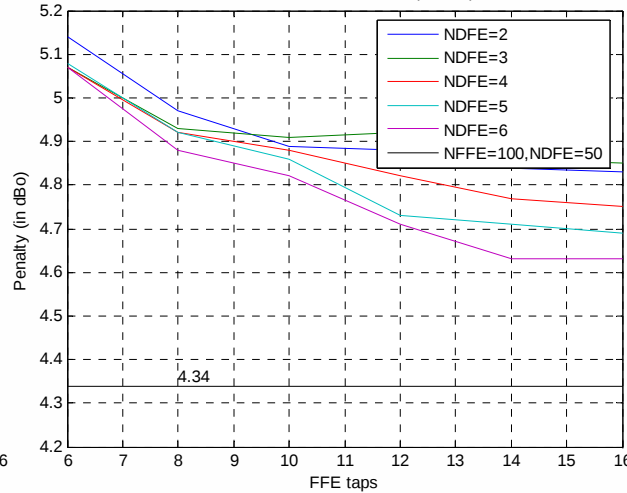
Finisar 1207-01: Ext. Length Eq

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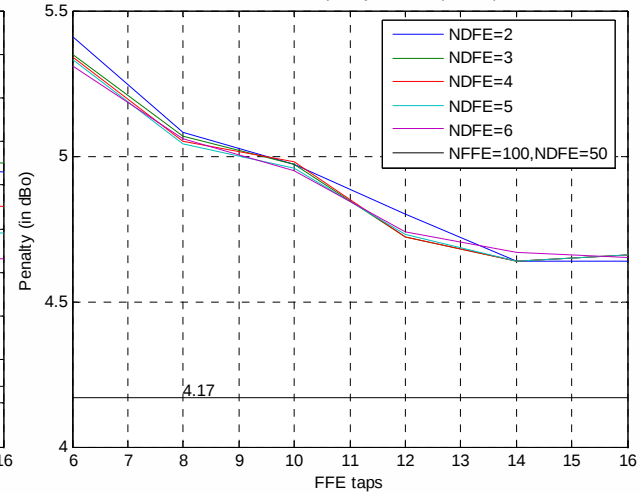
1207-01, Ewen Precursor (Row23)



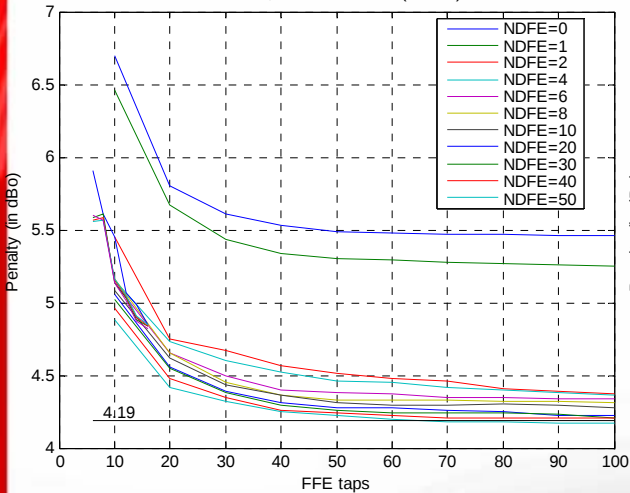
1207-01, Ewen Postcursor (Row20)



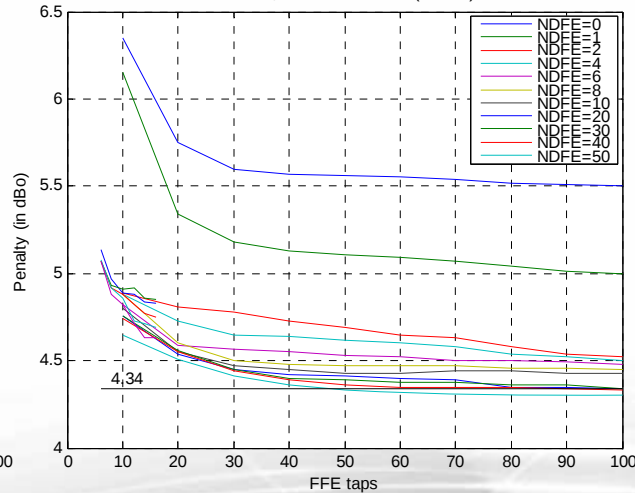
1207-01, Ewen Split Symmetric (Row22)



1207-01, Ewen Precursor (Row23)



1207-01, Ewen Postcursor (Row20)



1207-01, Ewen Split Symmetric (Row22)

