



## *Measured waveforms*

### *Penalties vs. EQ configuration vs. D1.1 IPRs*

Work in progress! This work has not yet been analyzed, so no conclusions are drawn. I offer these results for TP2 in hopes that it may provide some initial assessment of how measured waveforms may perform, relative to the Gaussian waveform, across a range of equalizer structures.

Thanks to Finisar and Intel for providing the waveforms.

Tom Lindsay 3/23/05

3/30/05

# *Plots*

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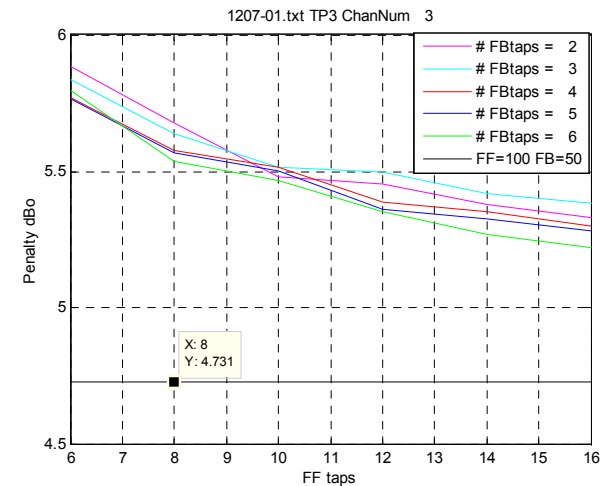
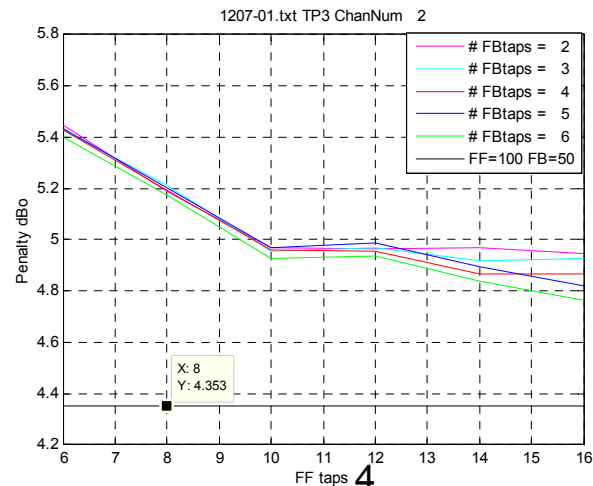
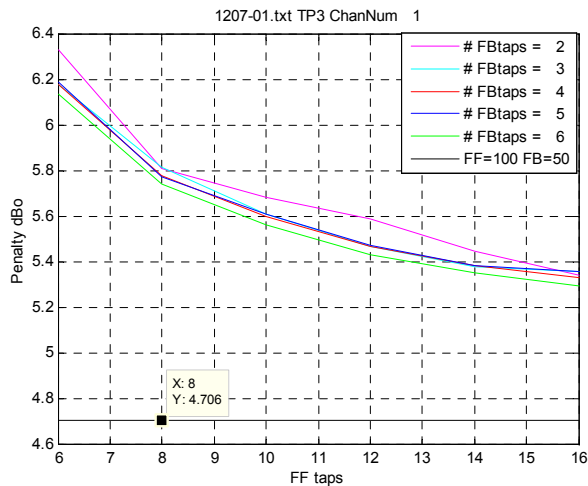
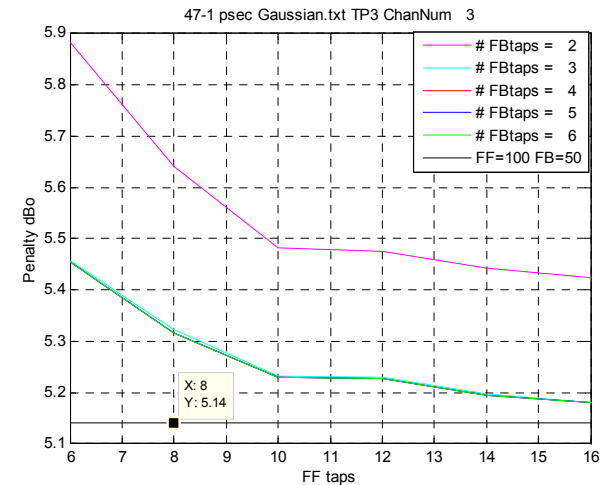
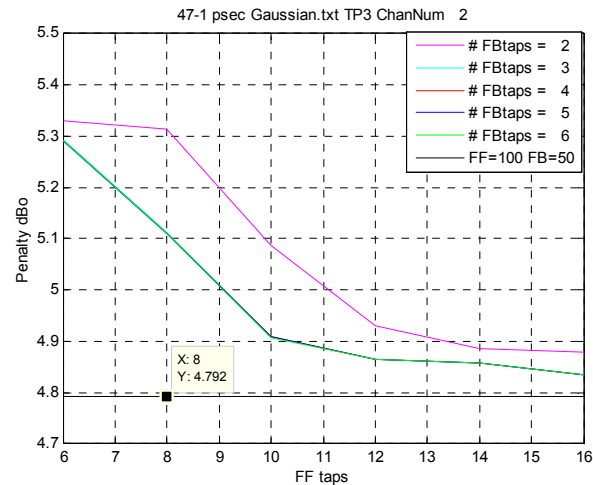
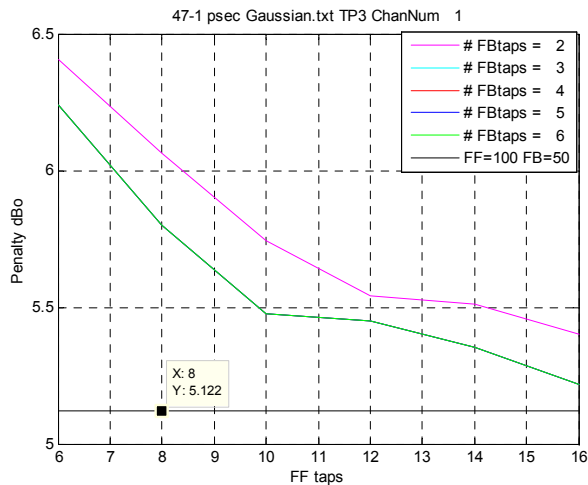
- Based on TWDP core
- Each row is same measured waveform
- Each column is per D1.1 TP3 stressors
  - channel 1 (pre), channel 2 (split sym), channel 3 (post)
  - Stress levels not final, but shows trends under 3 IPRs
- Each trace is #FB taps
  - 30 DFE combinations (per Ewen <6.5 dB total penalty)
  - Long EQ also shown
- Y axis is power penalty, dBo



# *Group 1*

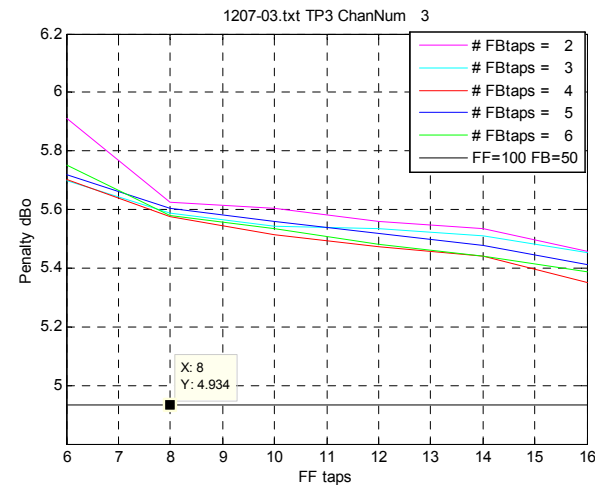
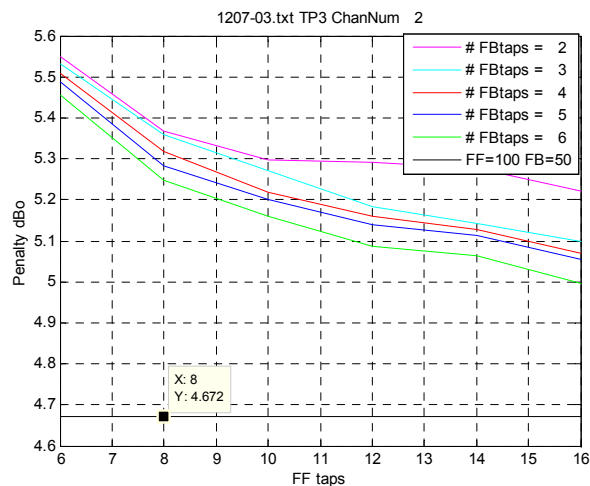
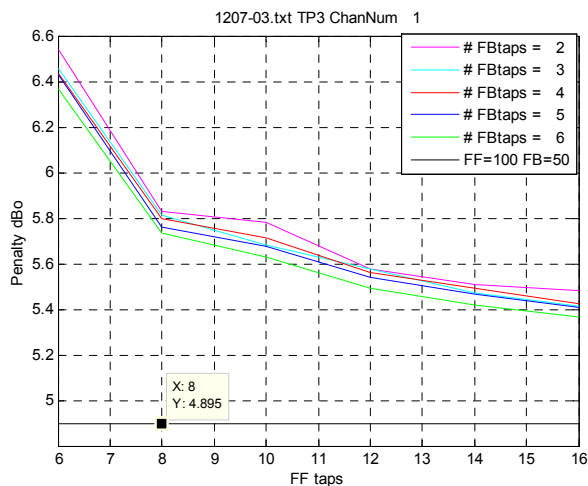
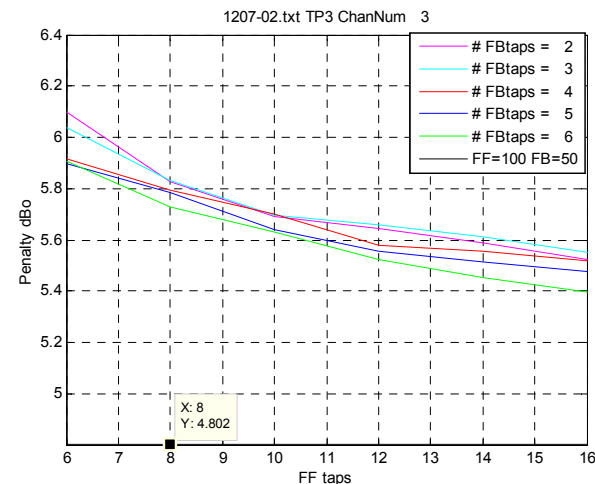
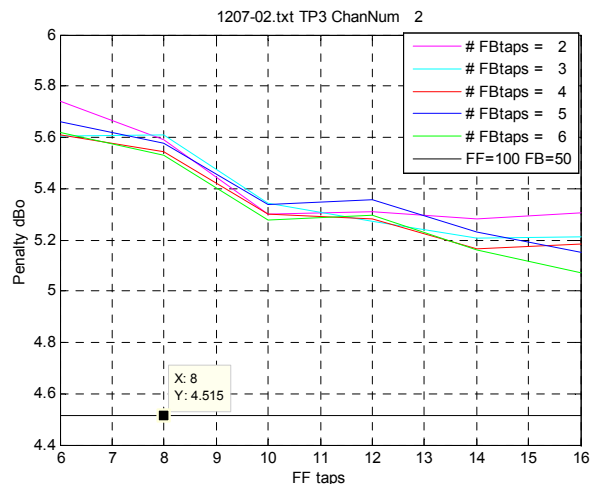
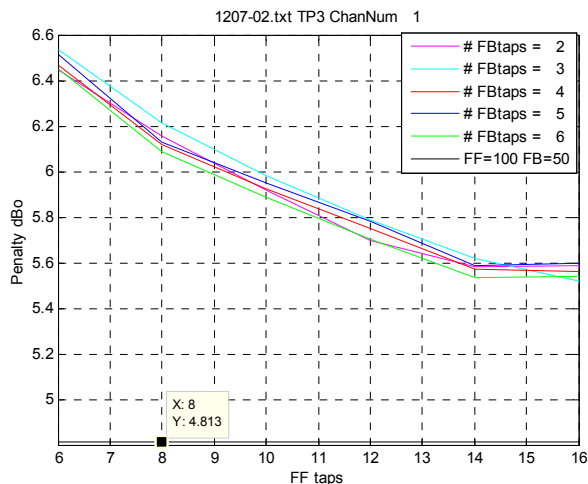
Power penalties

# 47.1 ps Gaussian Finisar 1207-01

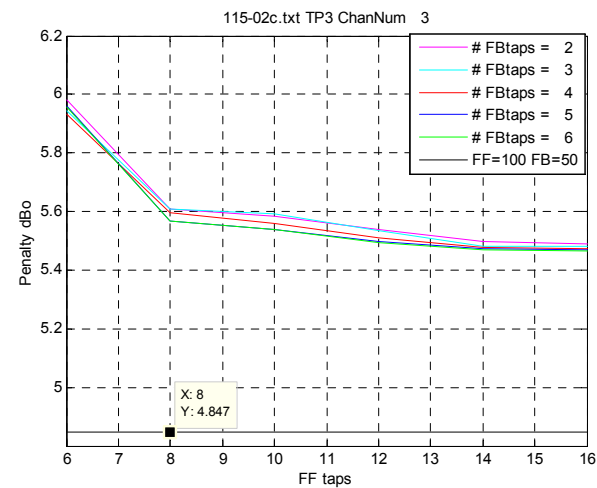
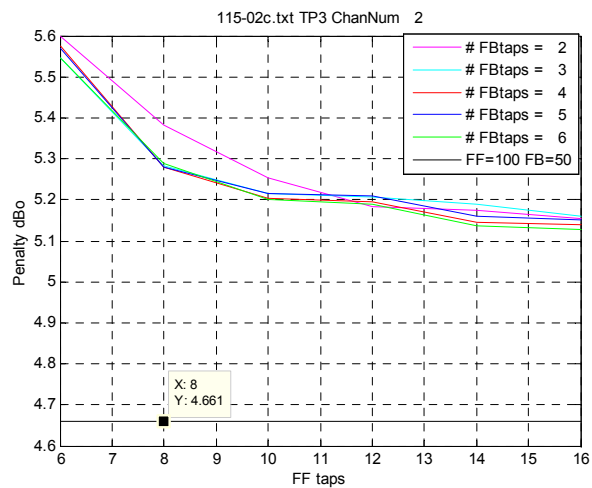
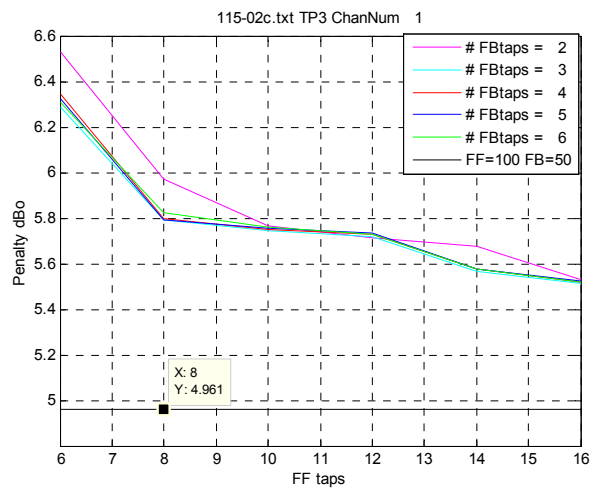


# 3/30 - Finisar 1207-02

## 3/30 - Finisar 1207-03

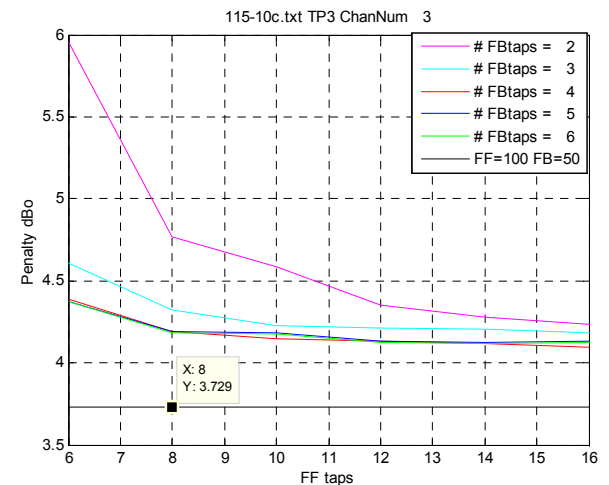
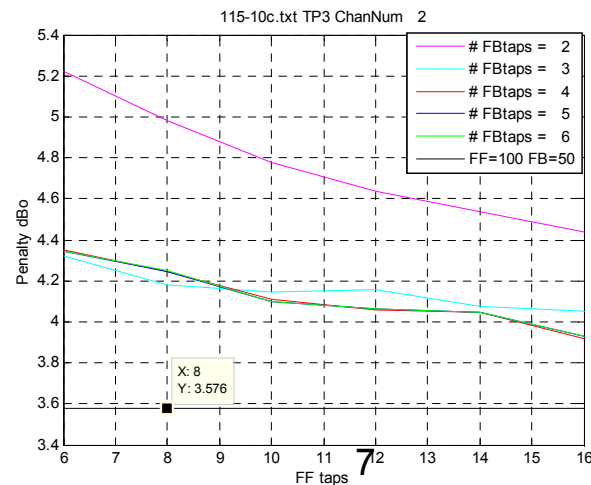
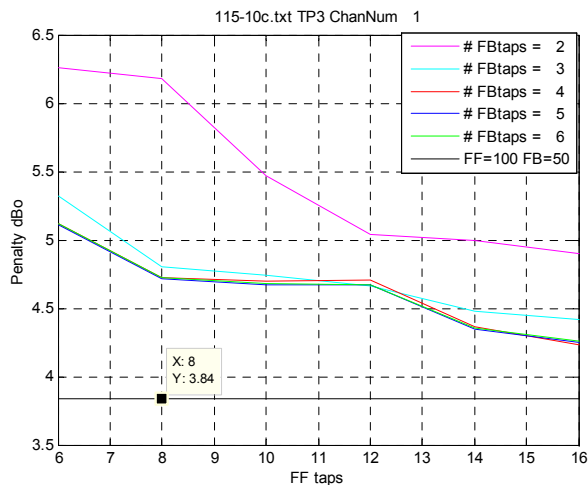
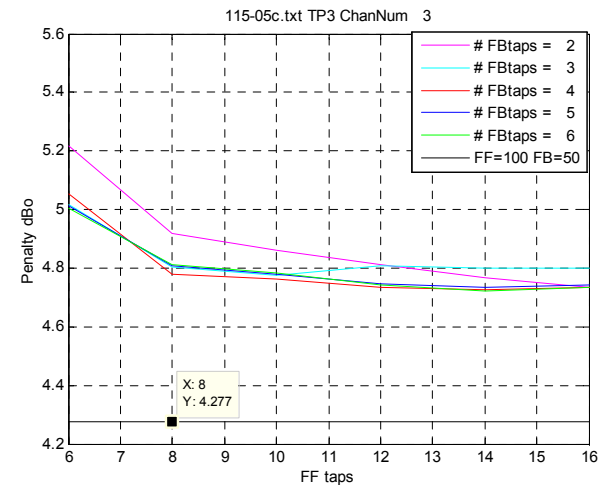
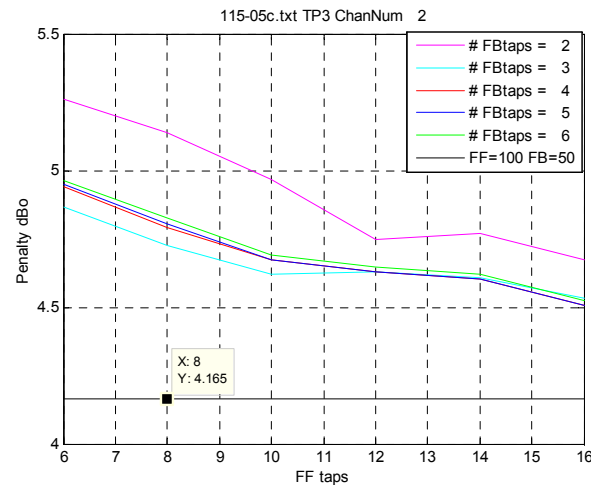
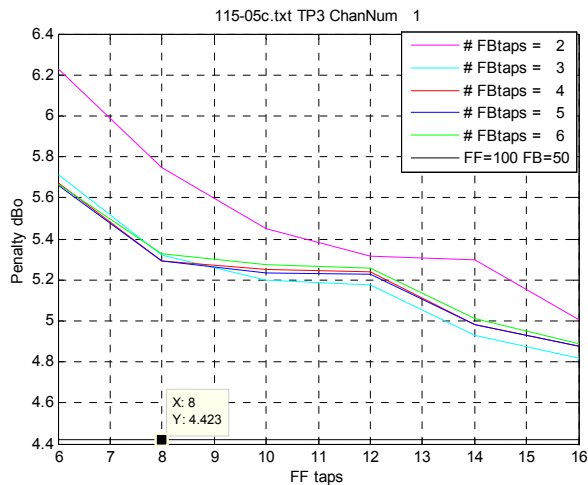


# 3/30 - Finisar 115-02c



# Finisar 115-05c

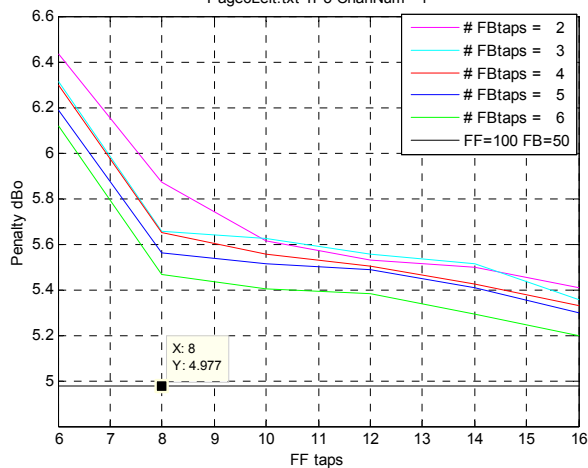
# Finisar 115-10c



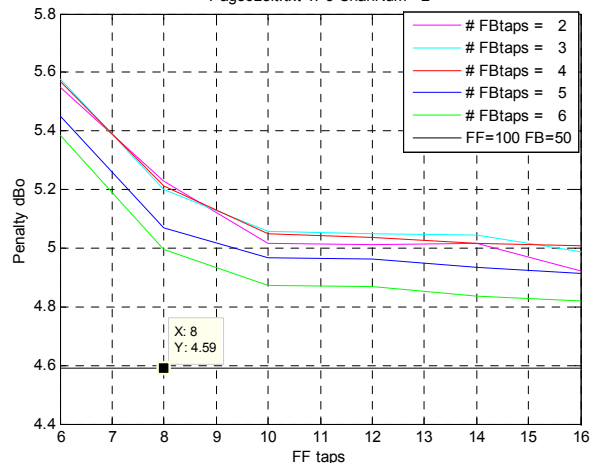
# Intel Page6left

# Intel Page7left

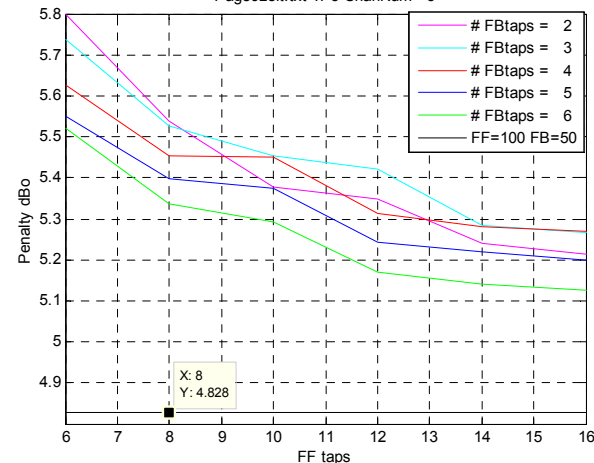
Page6Left.txt TP3 ChanNum 1



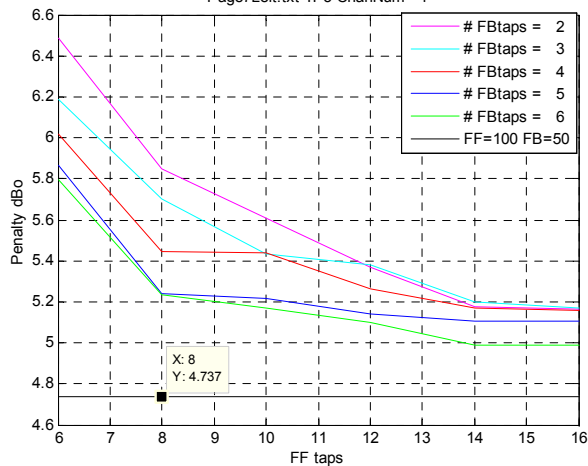
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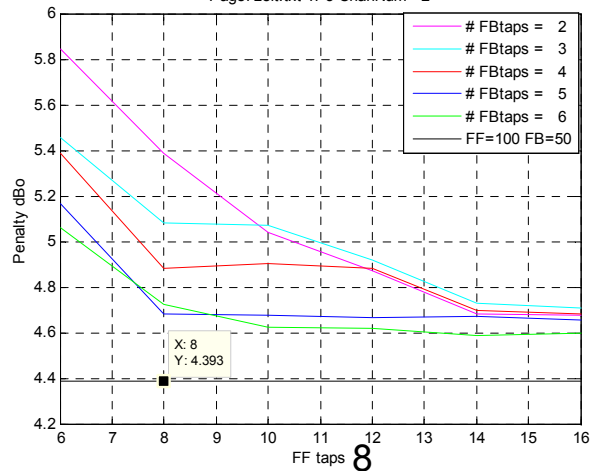
Page6Left.txt TP3 ChanNum 3



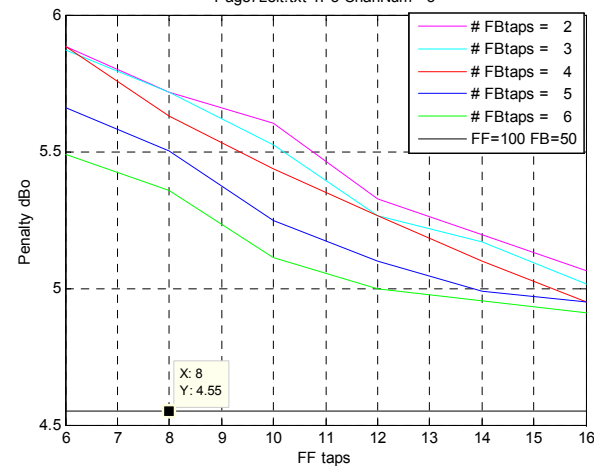
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Page7Left.txt TP3 ChanNum 2



Page7Left.txt TP3 ChanNum 3

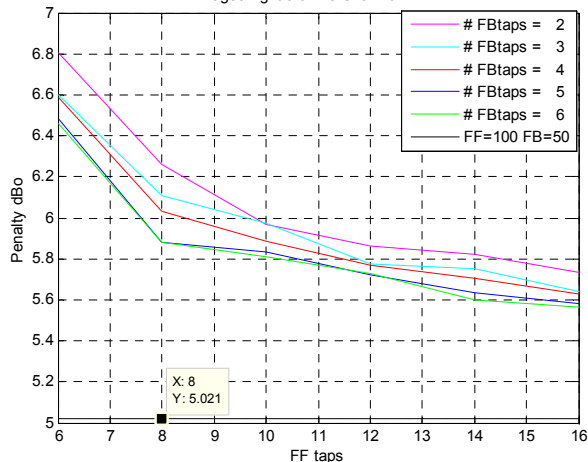




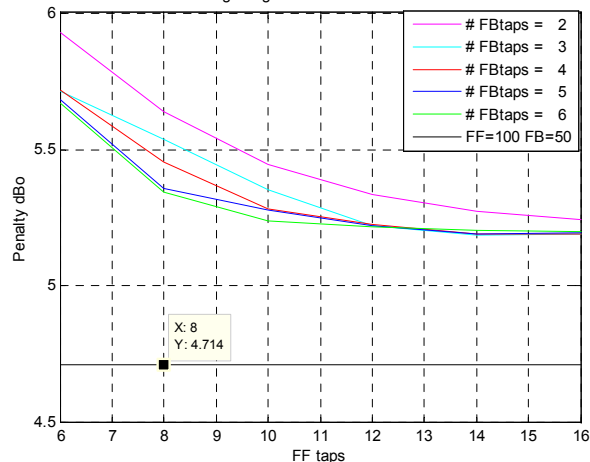
# 3/30 - Intel Page6right

# 3/30 - Intel Page7right

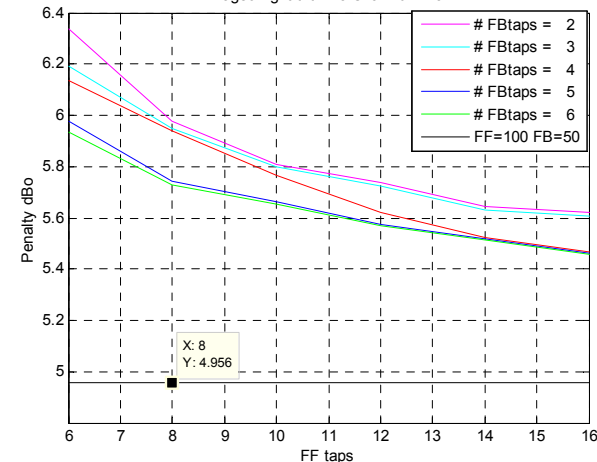
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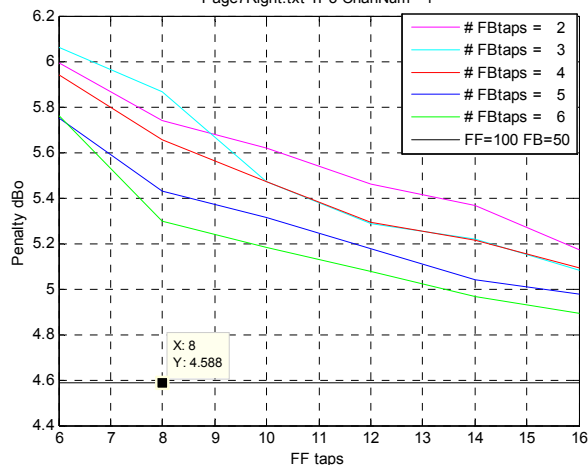
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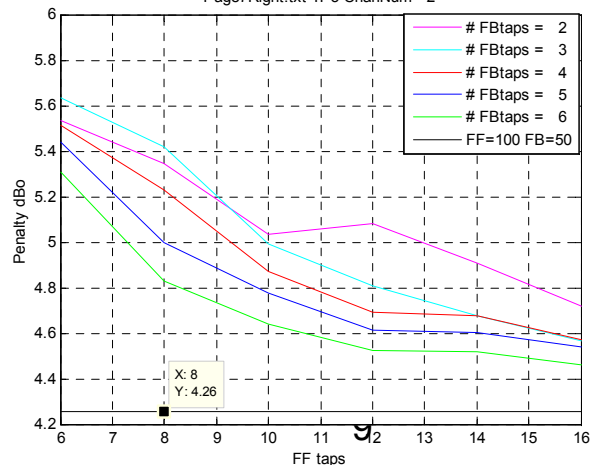
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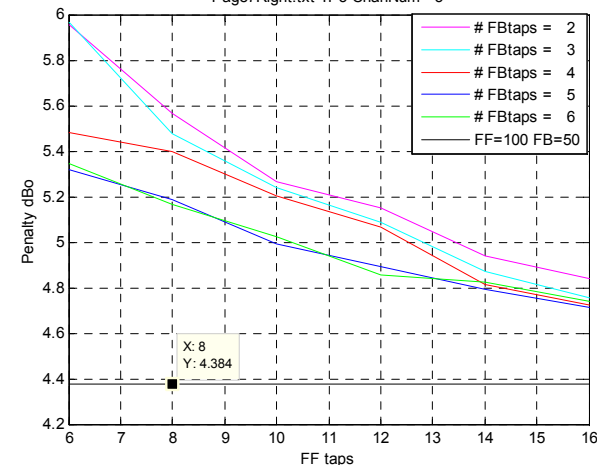
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Page7Right.txt TP3 ChanNum 2



Page7Right.txt TP3 ChanNum 3



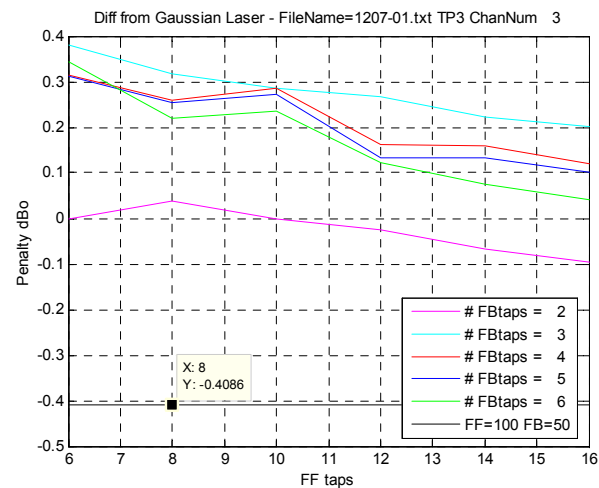
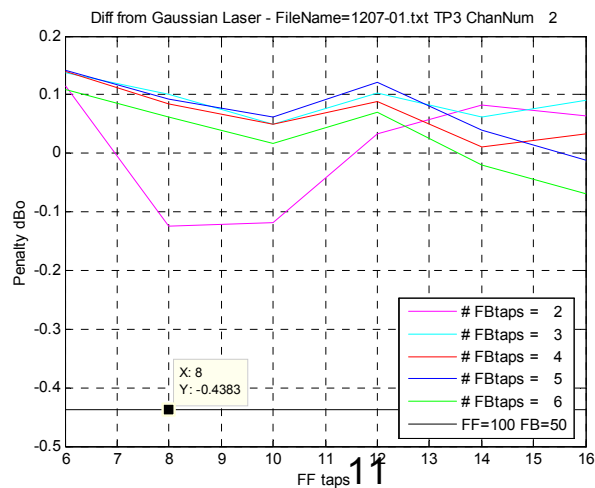
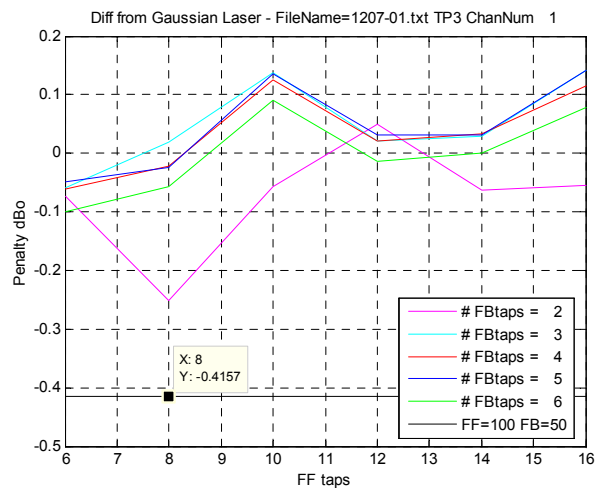


## *Group 2*

Same as Group 1, but Gaussian-case  
penalties subtracted on a point by  
point basis

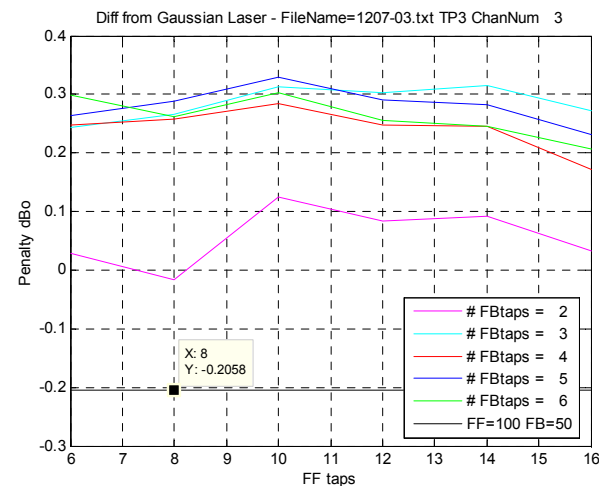
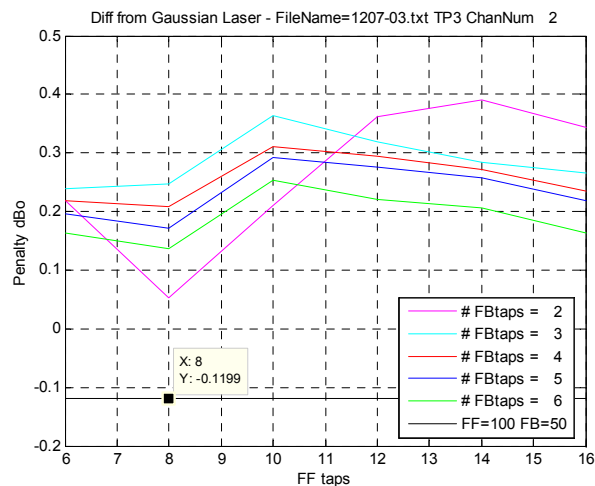
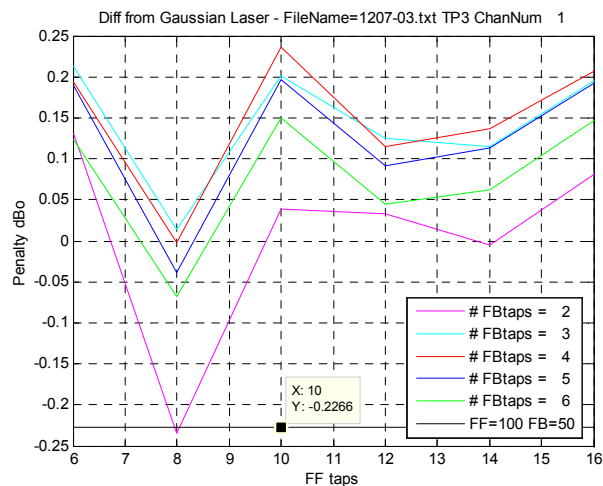
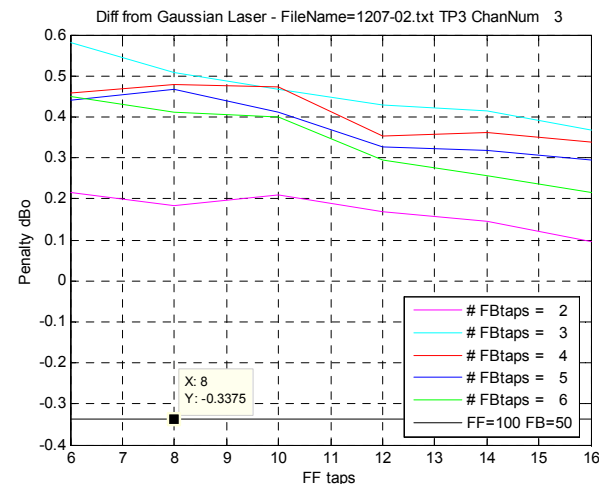
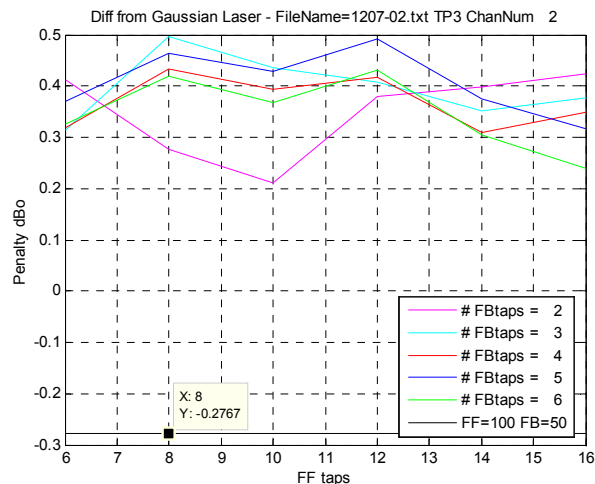
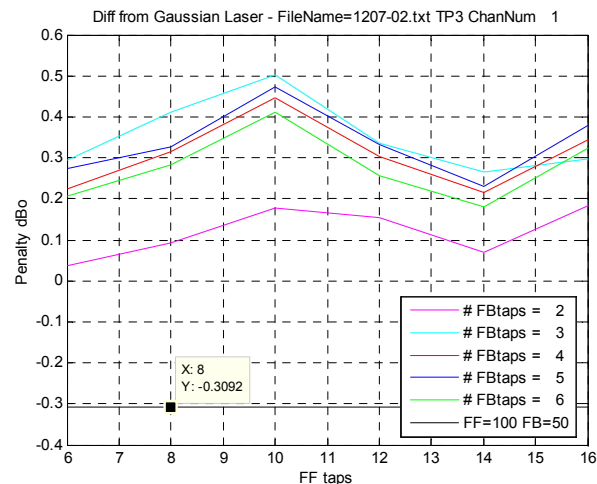
Y axis is **relative** penalty

# *Finisar 1207-01 relative*

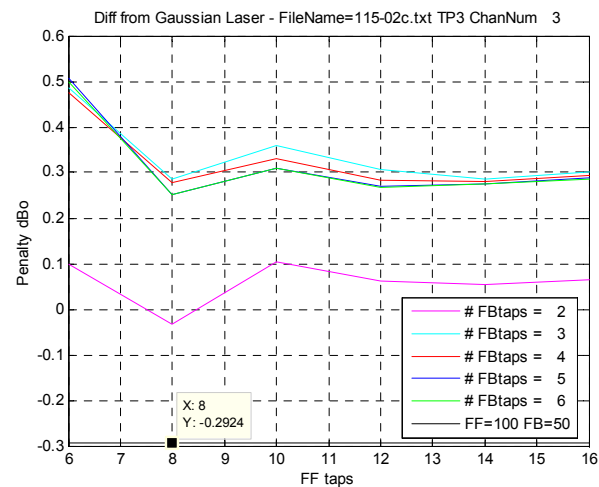
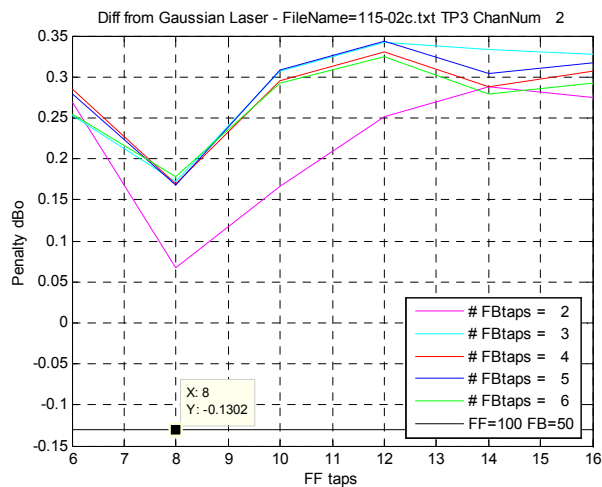
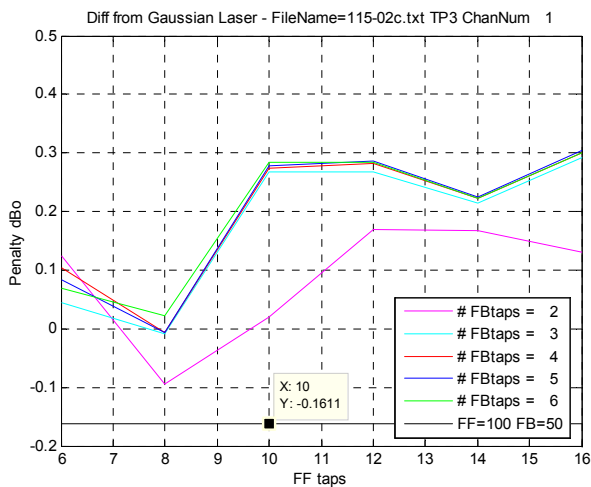


# 3/30 – 1207-01 relative

## 3/30 – 1207-02 relative

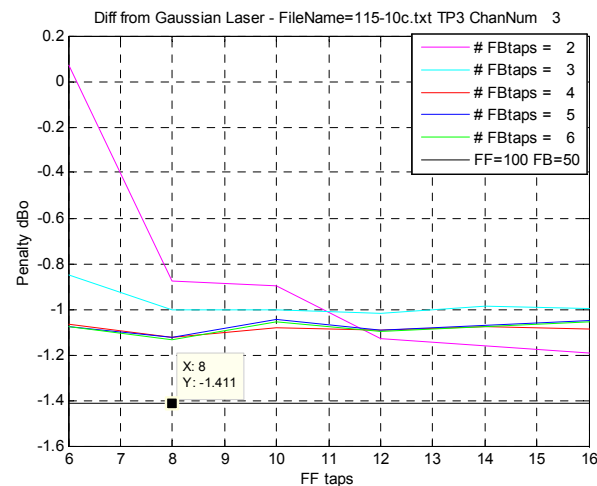
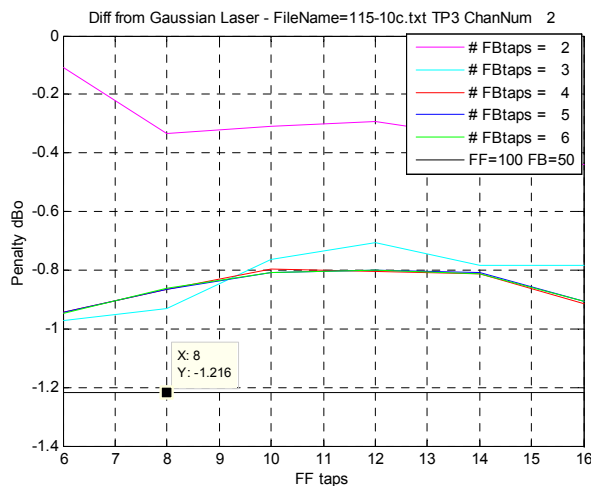
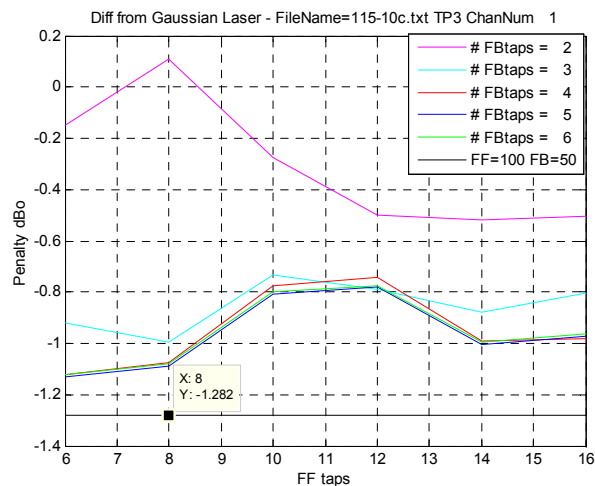
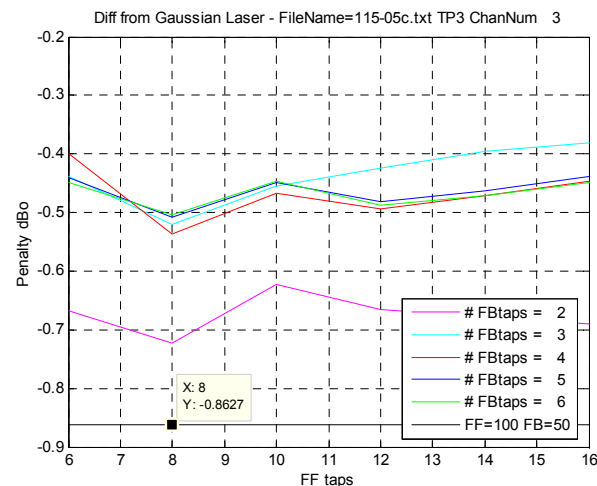
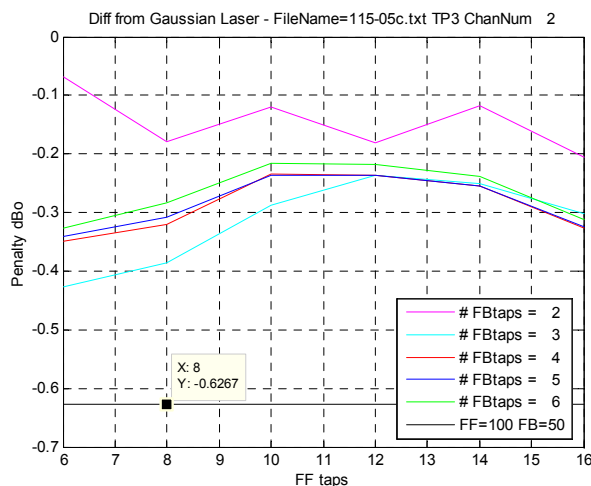
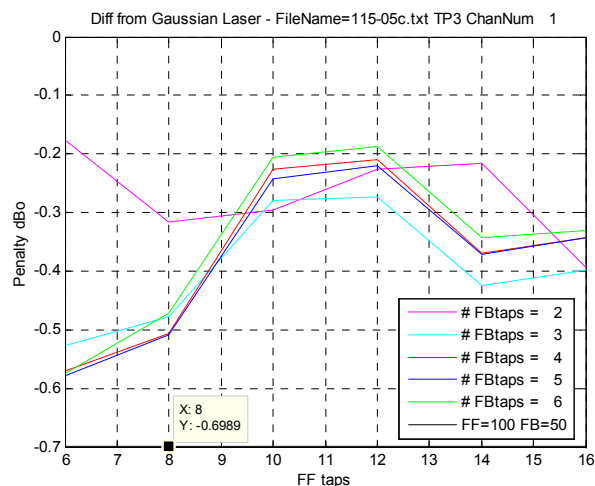


# 3/30 - 115-02c relative

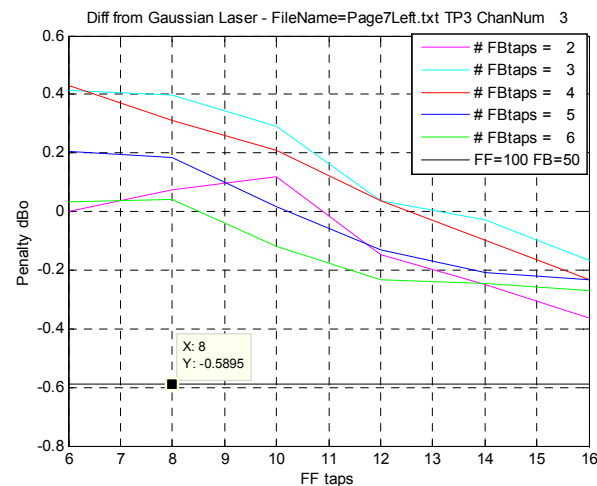
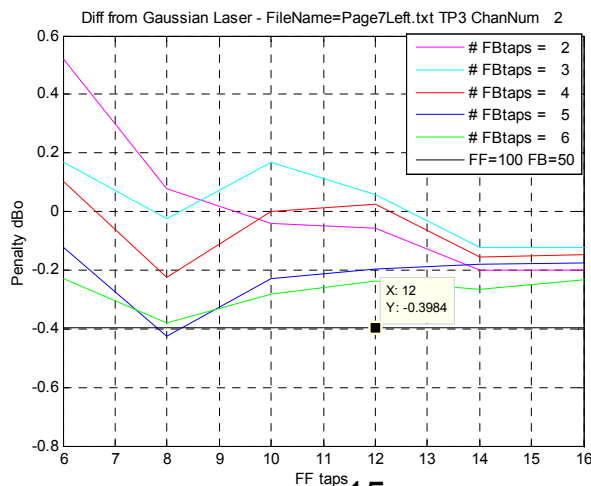
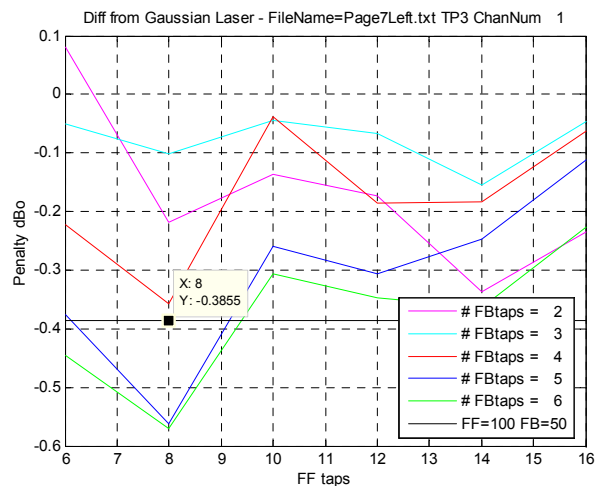
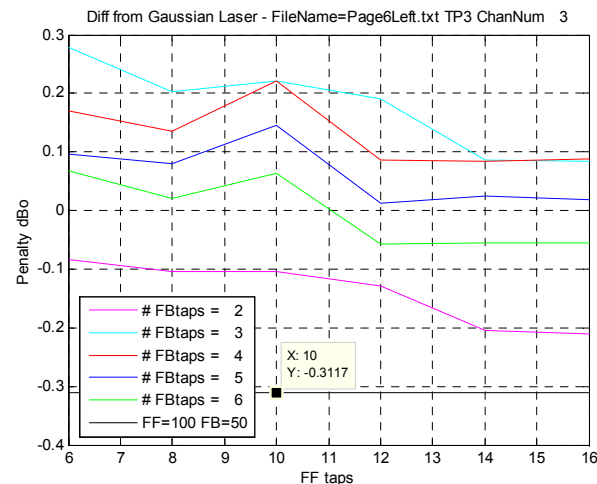
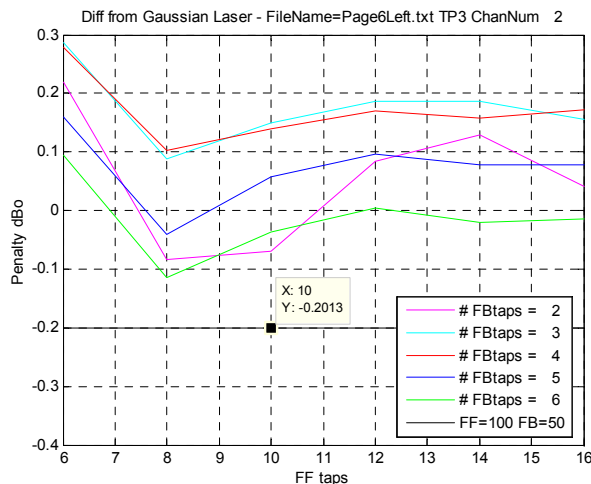
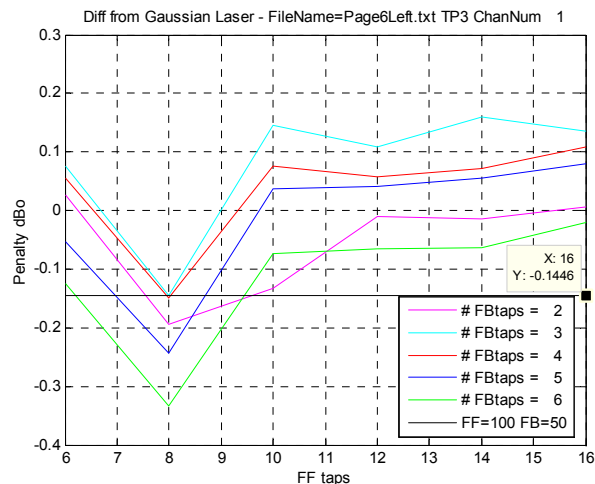


# Finisar 115-05c relative

## Finisar 115-10c relative



# Intel Page6left relative Intel Page7left relative



# 3/30 - Page6right relative

## 3/30 - Page7right relative

