

RxFFE Quantization Index Bug

COM Commit Request 4p14_3

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Summary

- ❑ Index error in function “adjust_Rx_noise_for_quantization” discovered by Randy Wolff
- ❑ Instead of using the cursor tap index, the last precursor tap index was used
- ❑ This will only have an impact on COM runs that enable Quantization

Code Change

- ❑ Small update to indexing in “adjust_Rx_noise_for_quantization”
- ❑ Reference cursor tap instead of last precursor tap

```
src/adjust_Rx_noise_for_quantization.m
↑ @@ -61,8 +61,9 @@ quantization_noise_pdf.y = zeros(size(quantization_noise_pdf.x));
61 61 quantization_noise_pdf.y(ind_center) = 1;
62 62 % Calculate quantization noise PDF after RxFFE
63 63 h_rxffe = fom_result.RxFFE(find(fom_result.RxFFE ~= 0));
64 + cursor_tap = param.ffe_pre_tap_len+1;
64 65 for irxffe = 1:length(h_rxffe)
65 - if irxffe ~= param.ffe_pre_tap_len
66 + if irxffe ~= cursor_tap
66 67     quantization_noise_in_pdf_scale = scalePDF(quantization_noise_in_pdf, abs(h_rxffe(irxffe)));
67 68     quantization_noise_pdf = conv_fct(quantization_noise_pdf, quantization_noise_in_pdf_scale);
```

Thank You!