

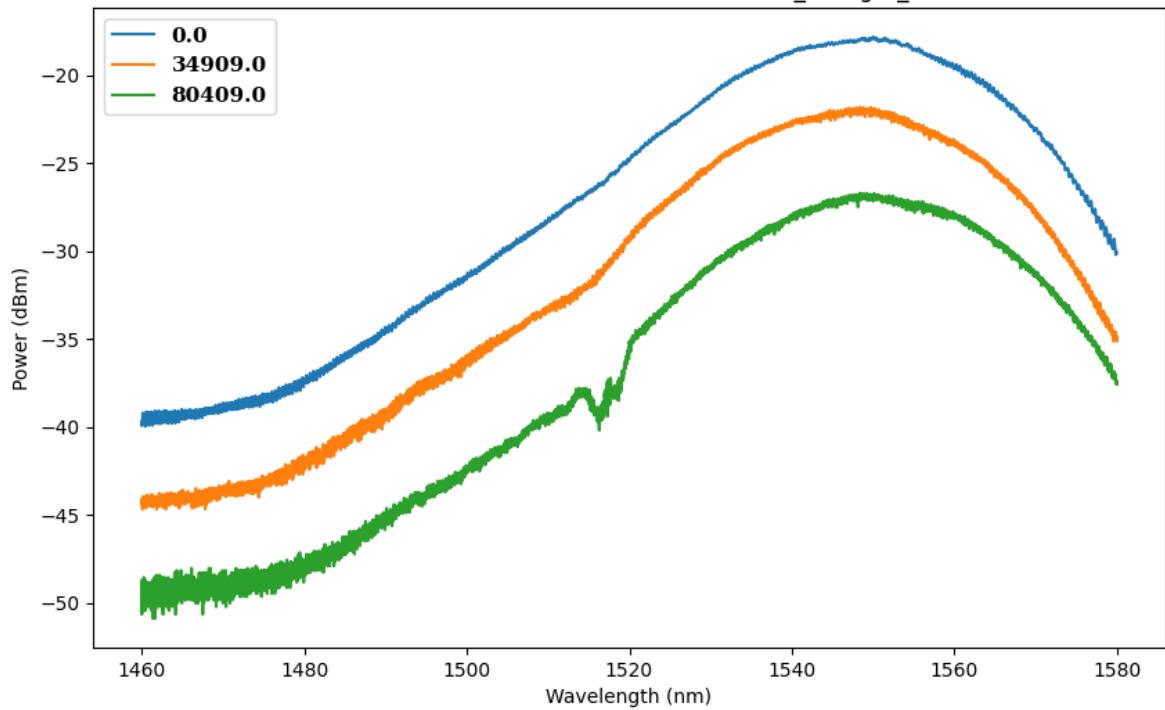
Analysis Report of EdX_May_2023_1550TE chip

Measurement date: 2023-08-28

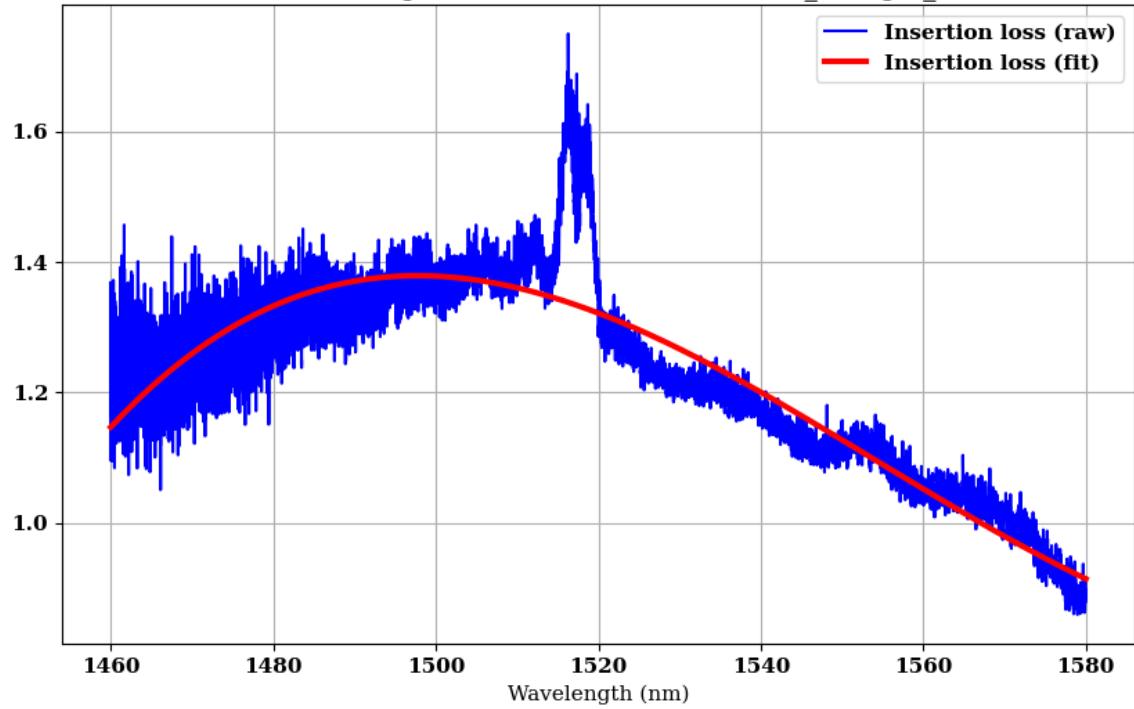
Process: ANT

| Name | Wavelength | Polarization | Data | Error | Analysis |
|------------------|------------|--------------|-------|-------|----------------------------|
| PCM_Straight | 1550nm | TE | 1.13 | 0.0 | Insertion Loss (dB/cm) |
| PCM_Spiral | 1550nm | TE | 4.34 | 0.65 | Insertion Loss (dB/cm) |
| PCM_SWG | 1550nm | TE | 1.56 | 0.22 | Insertion Loss (dB/cm) |
| PCM_YBranch | 1550nm | TE | 0.17 | 0.03 | Insertion Loss (dB/device) |
| PCM_ContraDC | 1550nm | TE | 0.09 | 0.03 | Insertion Loss (dB/device) |
| PCM_Bragg_Period | 1550nm | TE | -4.72 | N/A | Bragg Drift (nm) |
| PCM_Bragg_dW | 1550nm | TE | N/A | N/A | Bragg Drift (nm) |
| PCM_GIndex | 1550nm | TE | 4.15 | 0.09 | Group Index |

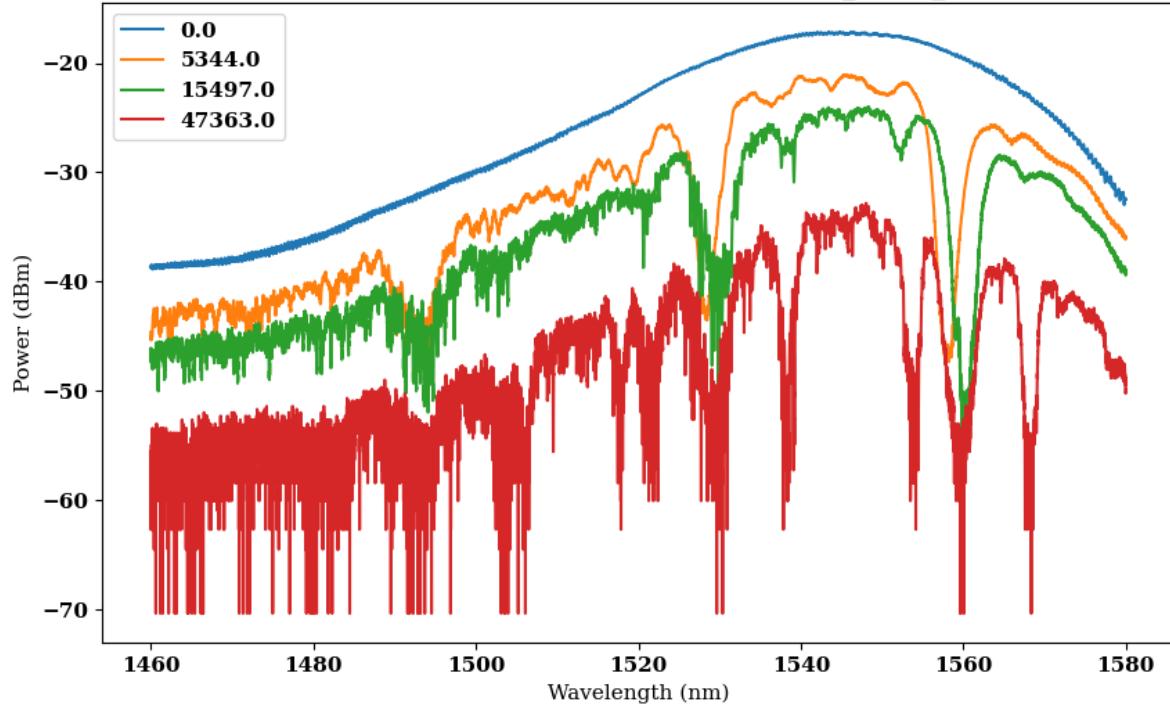
Raw Measurement of Cutback Structures for PCM_Straight_TE1550nm



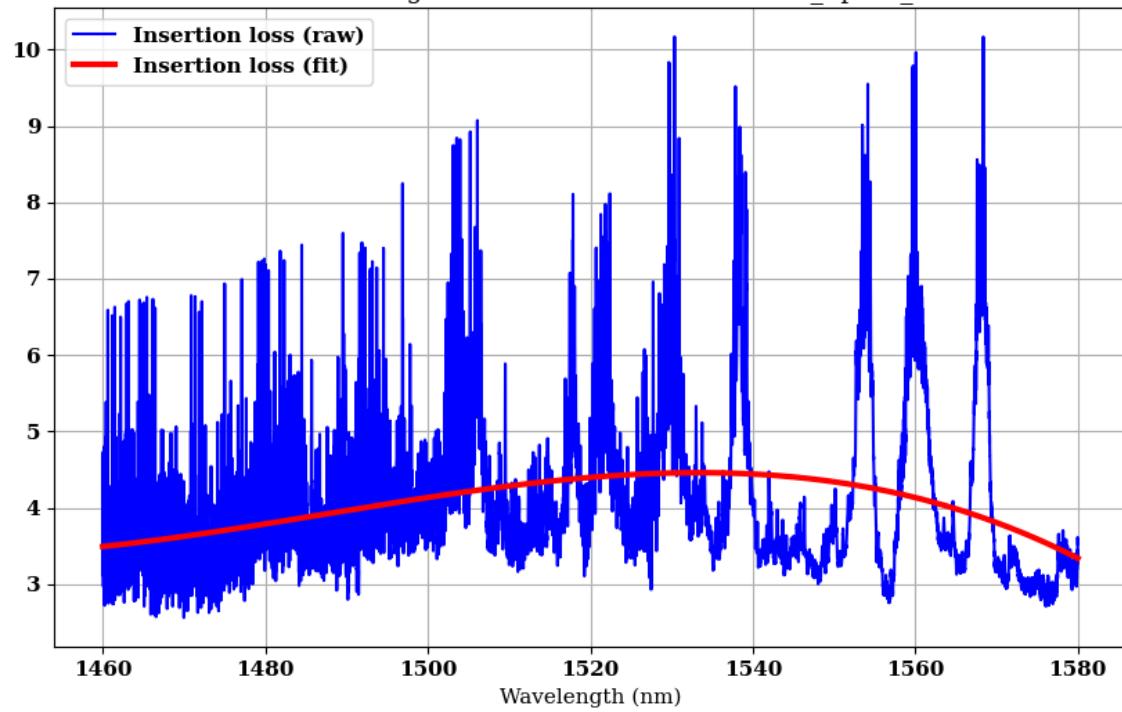
Insertion Losses Using the Cutback Method for PCM_Straight_TE1550nm



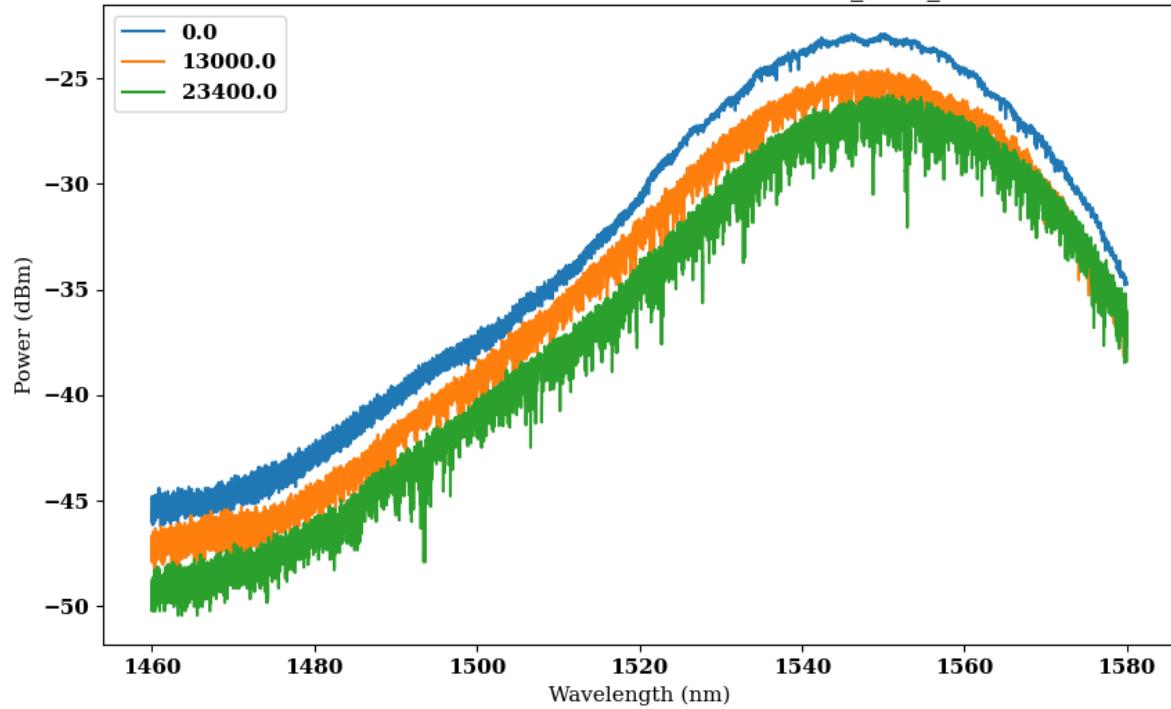
Raw Measurement of Cutback Structures for PCM_Spiral_TE1550nm



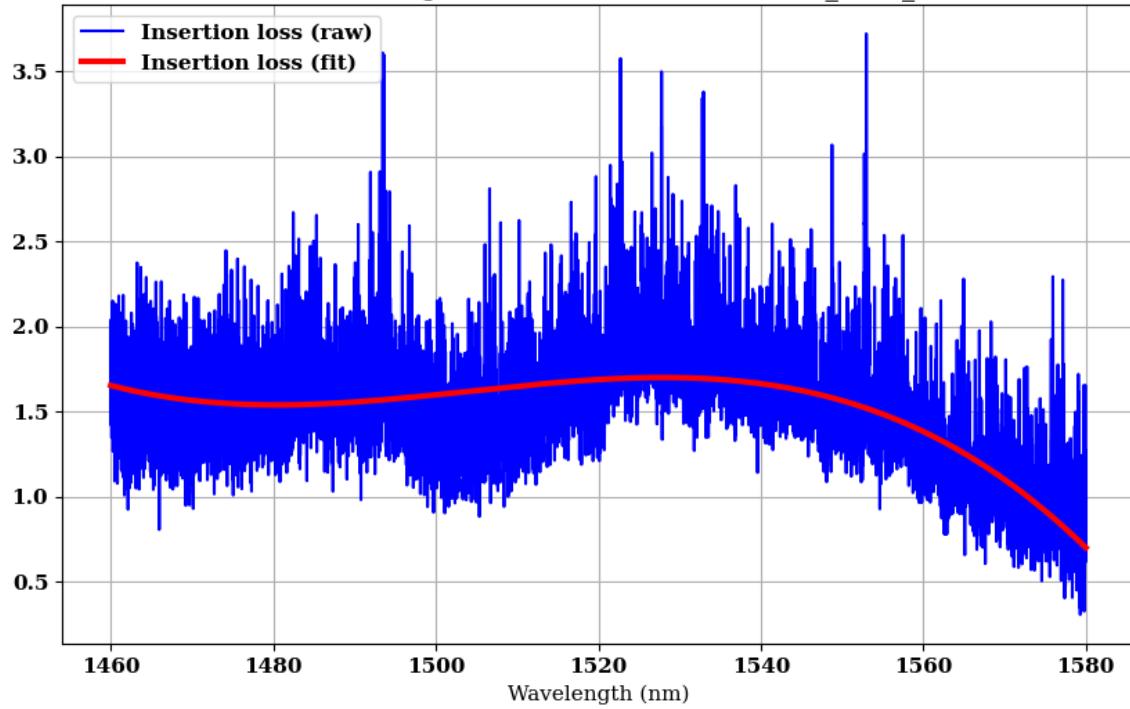
Insertion Losses Using the Cutback Method for PCM_Spiral_TE1550nm

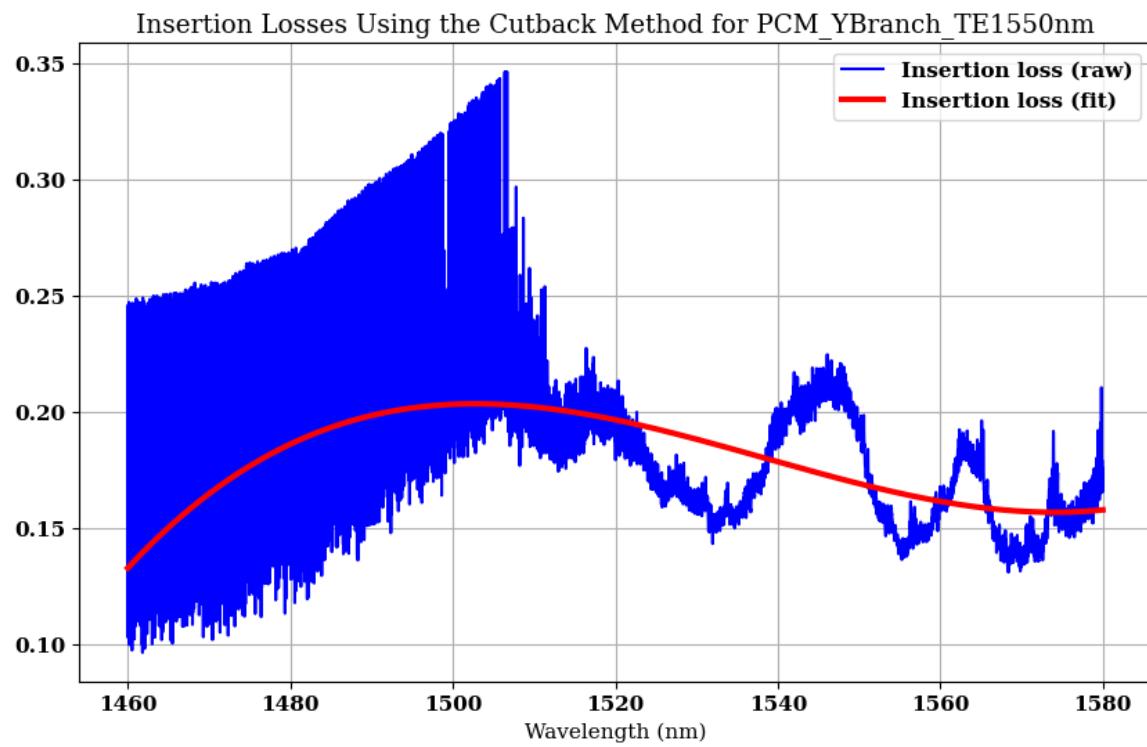
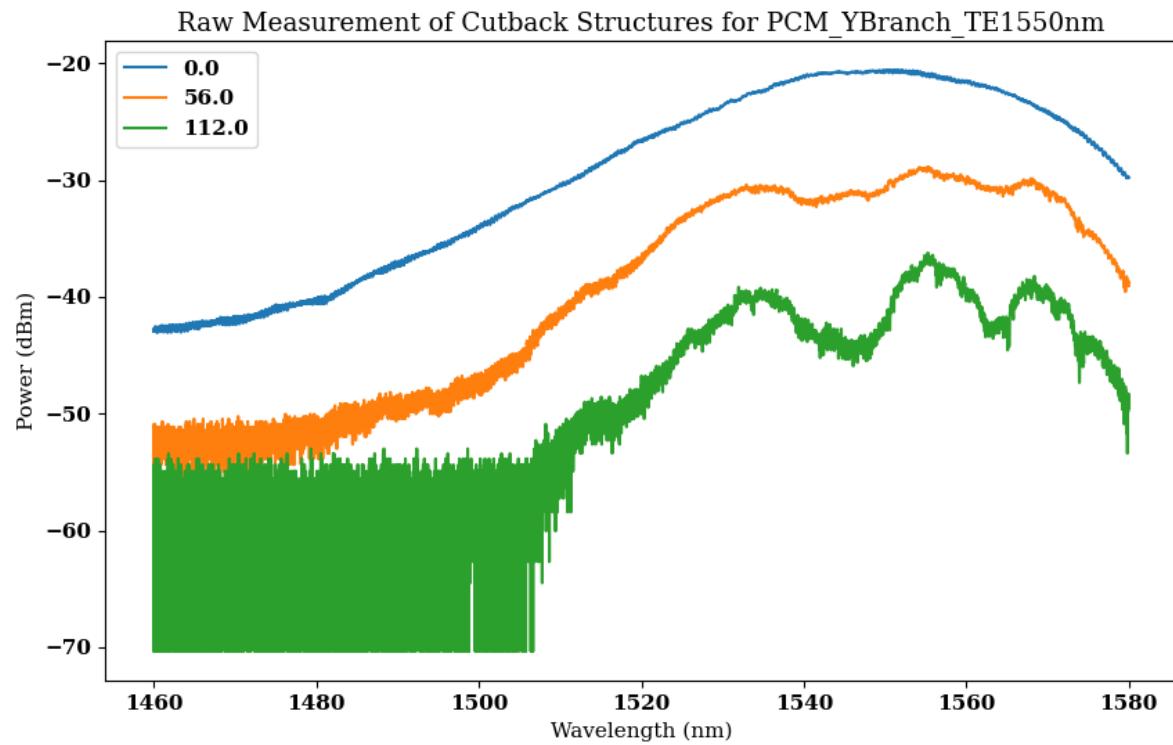


Raw Measurement of Cutback Structures for PCM_SWG_TE1550nm

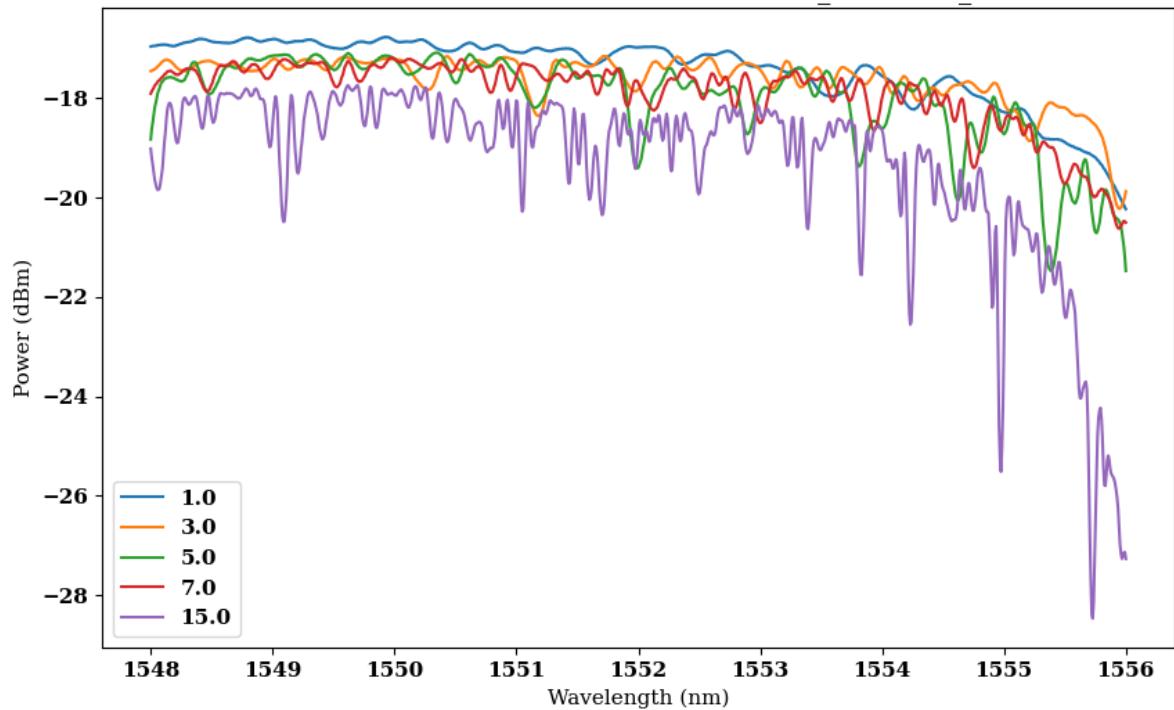


Insertion Losses Using the Cutback Method for PCM_SWG_TE1550nm

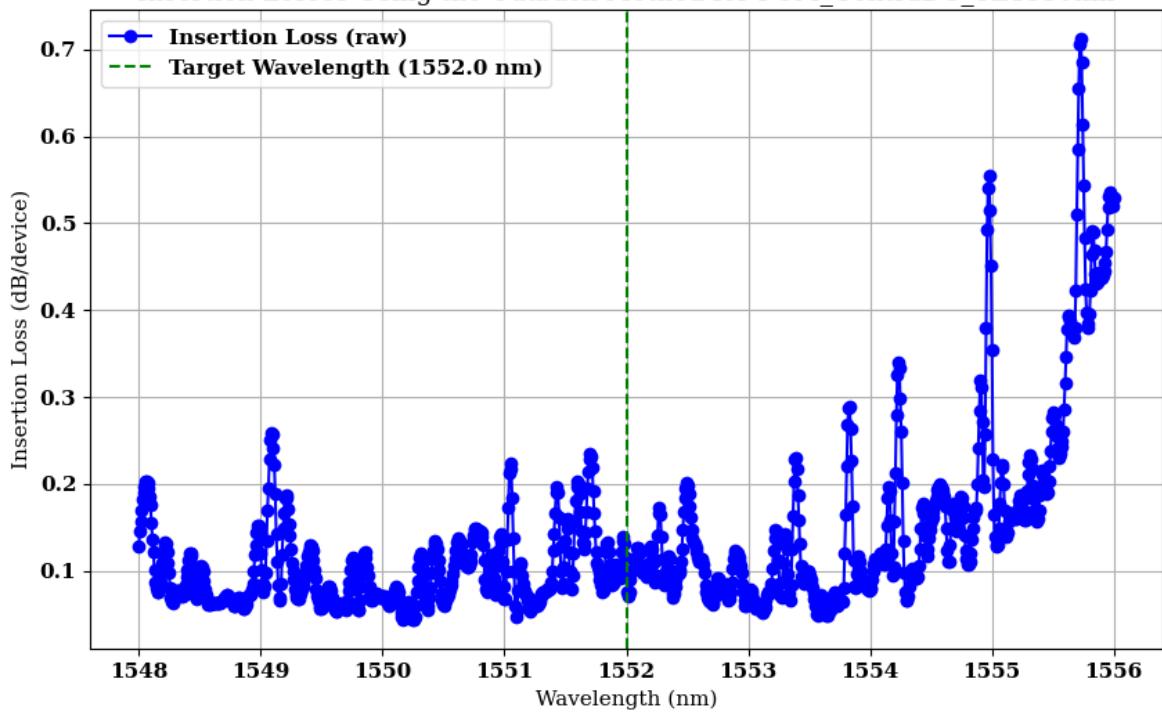




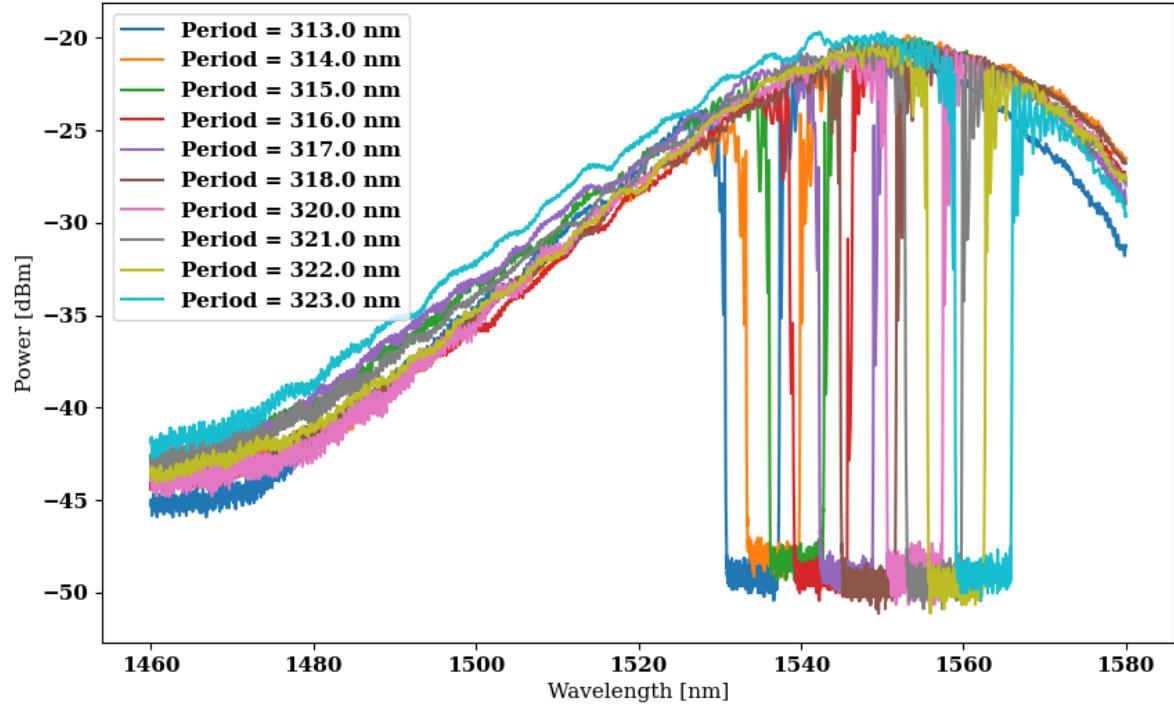
Raw Measurement of Cutback Structures for PCM_ContraDC_TE1550nm



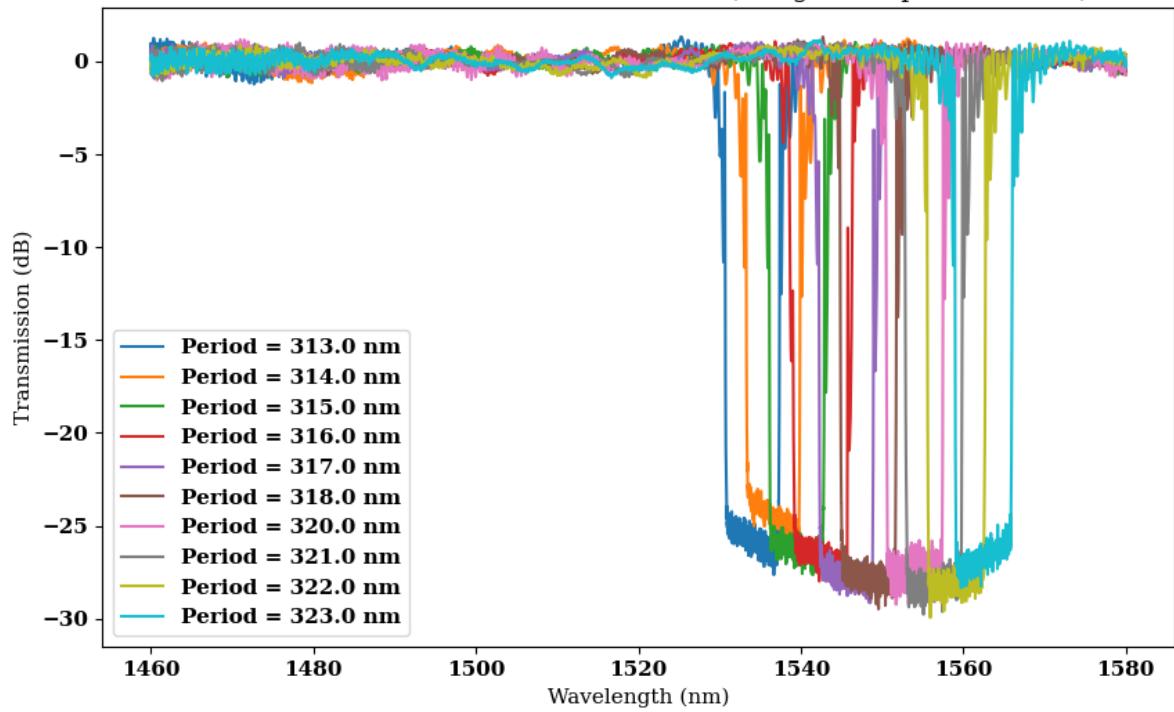
Insertion Losses Using the Cutback Method for PCM_ContraDC_TE1550nm



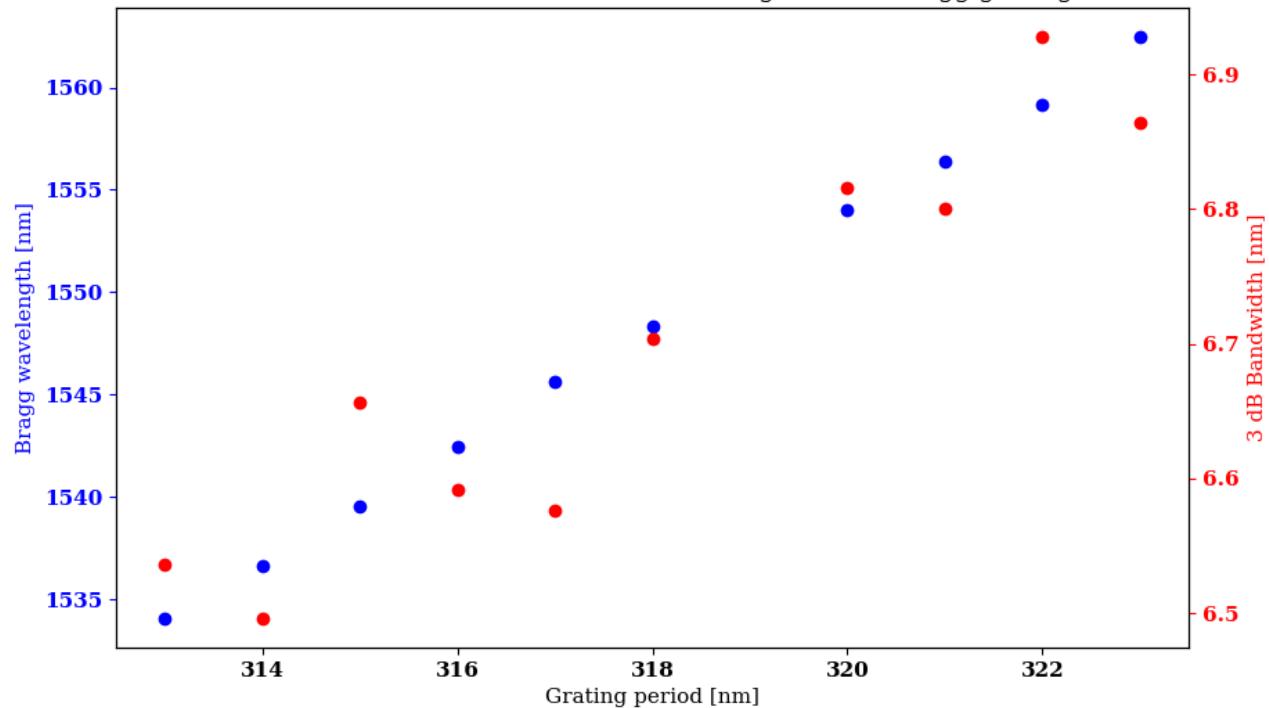
Raw measurement of all structures



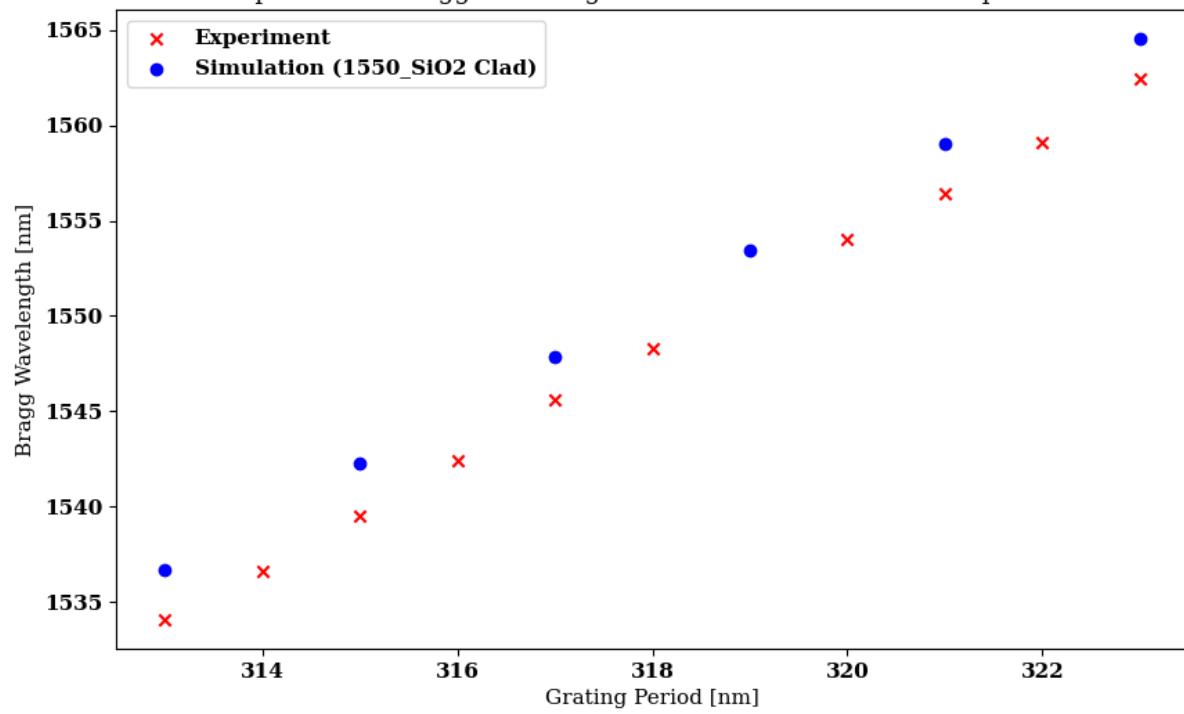
Calibrated measurement of all structures (using envelope calibration)



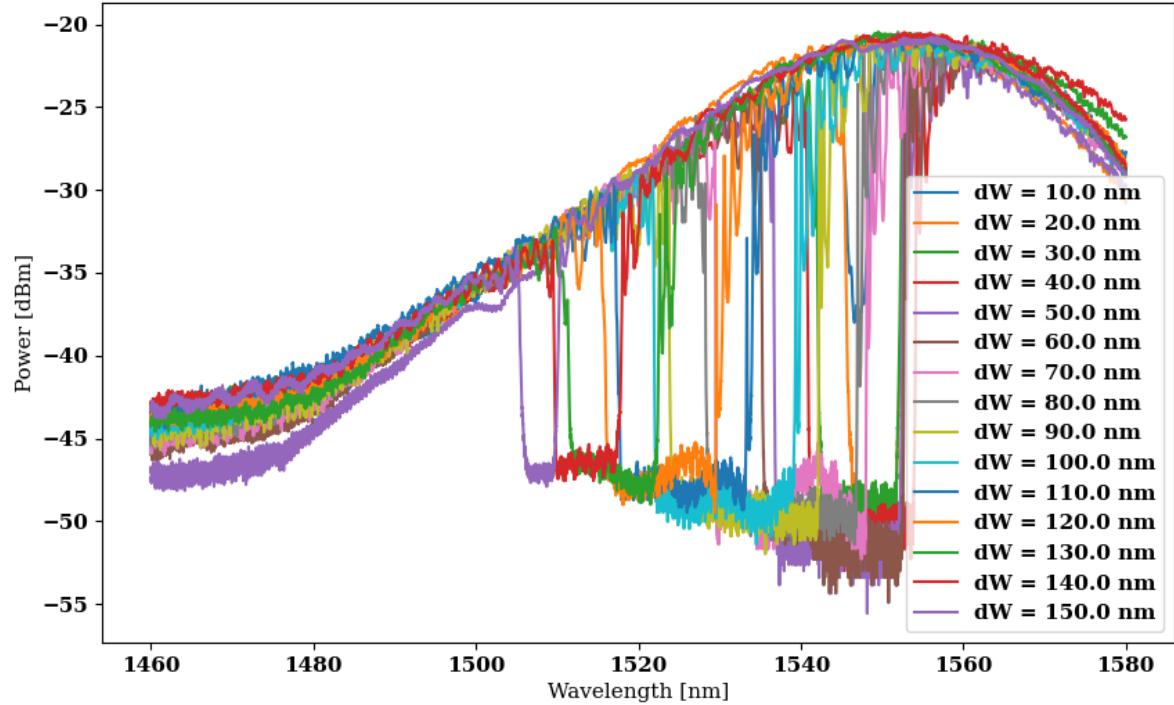
Extracted bandwidth and central wavelength of the Bragg gratings



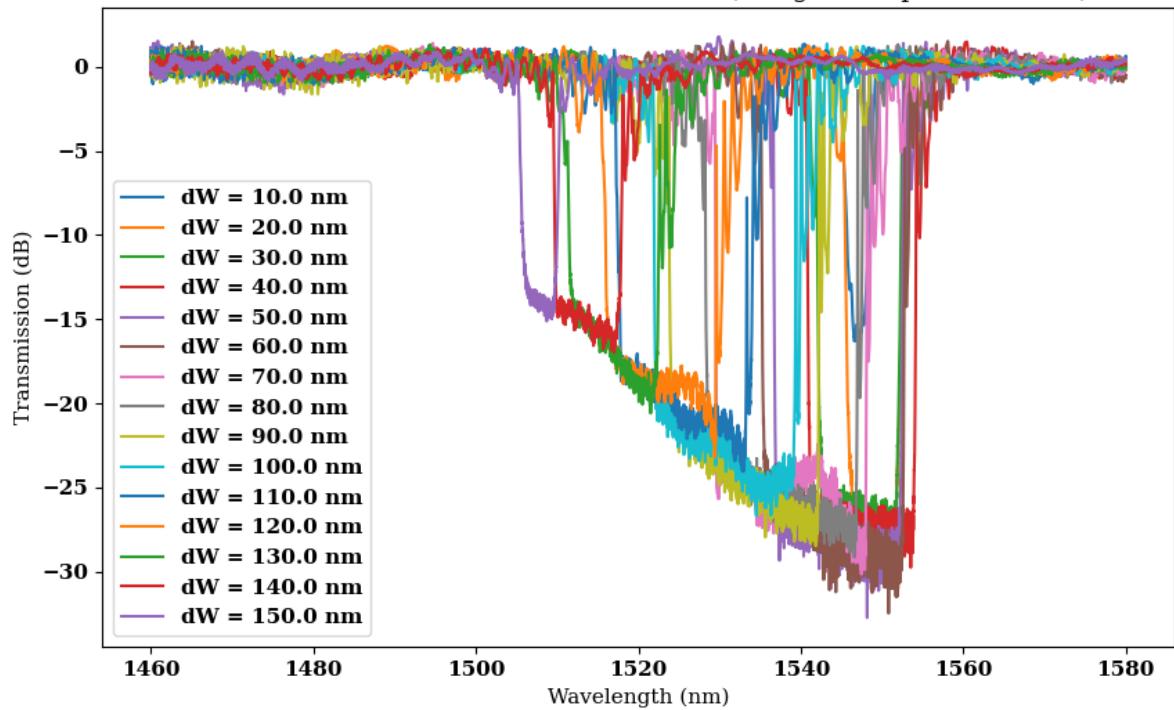
Comparison of Bragg wavelength between simulation and experiment.

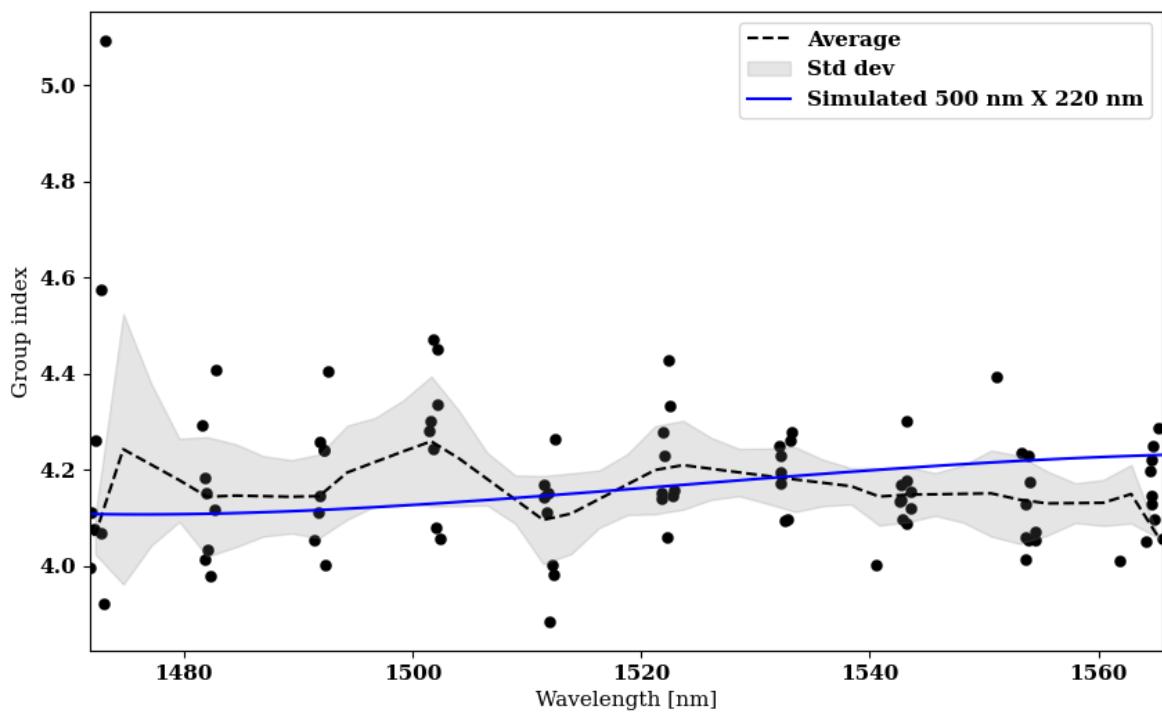
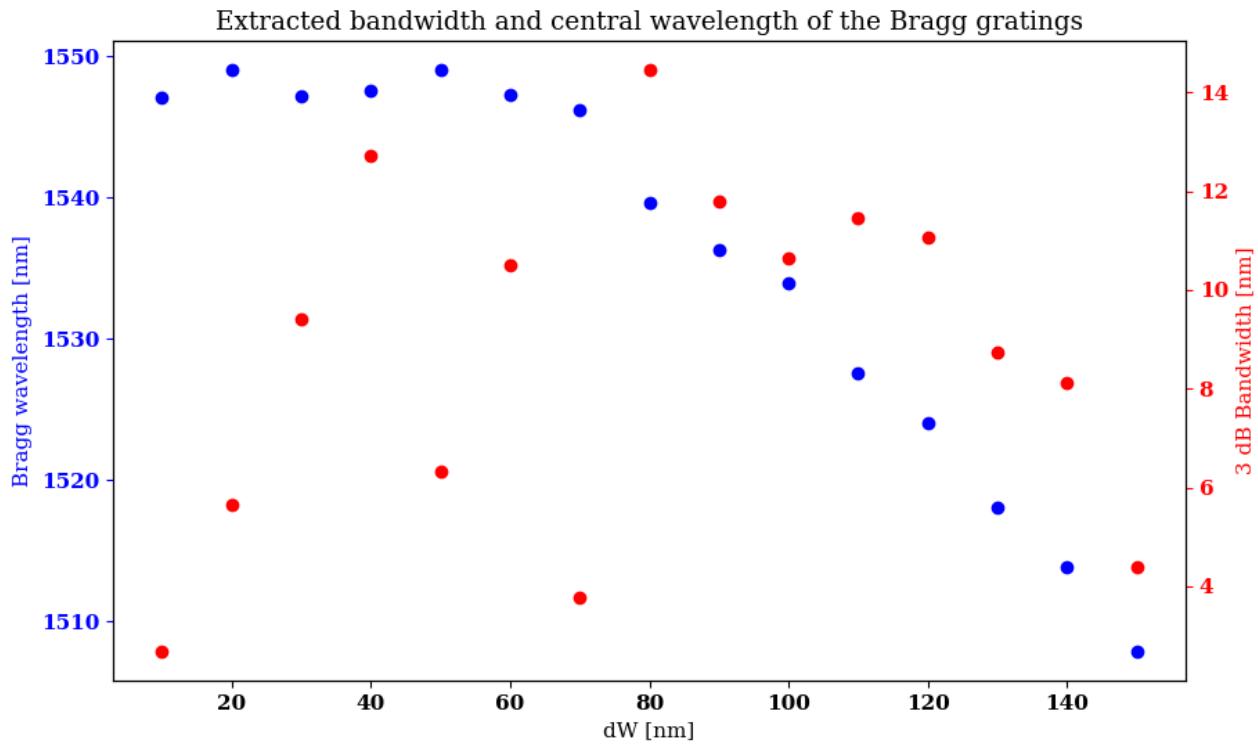


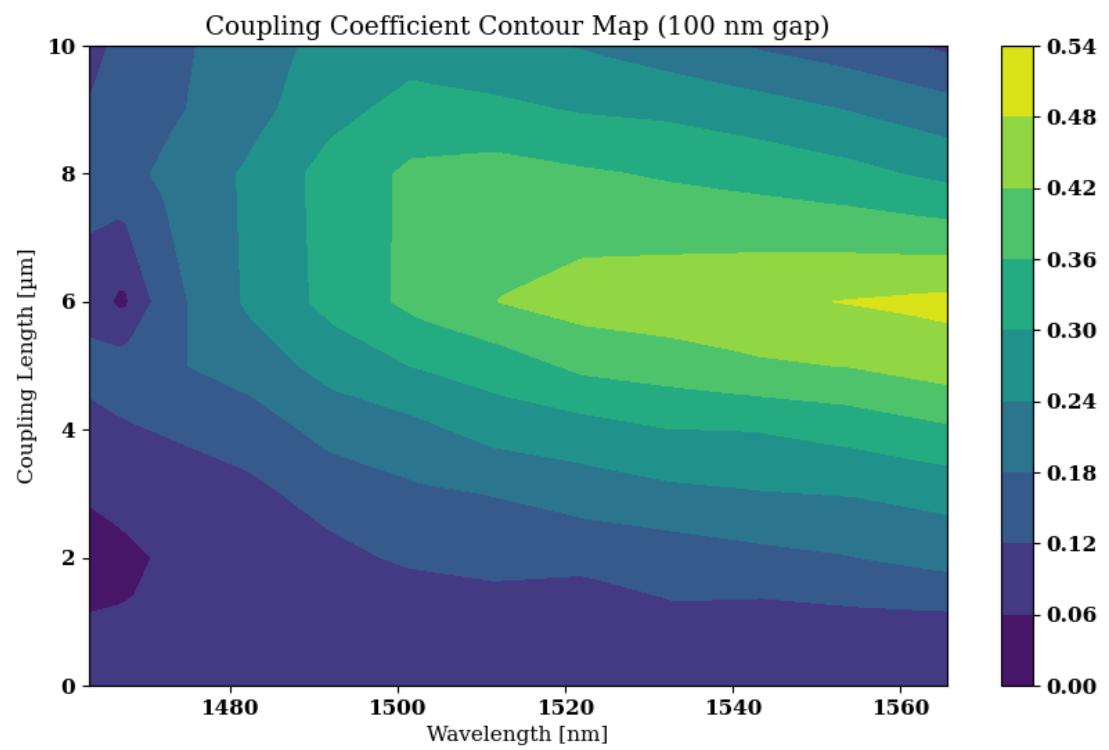
Raw measurement of all structures



Calibrated measurement of all structures (using envelope calibration)







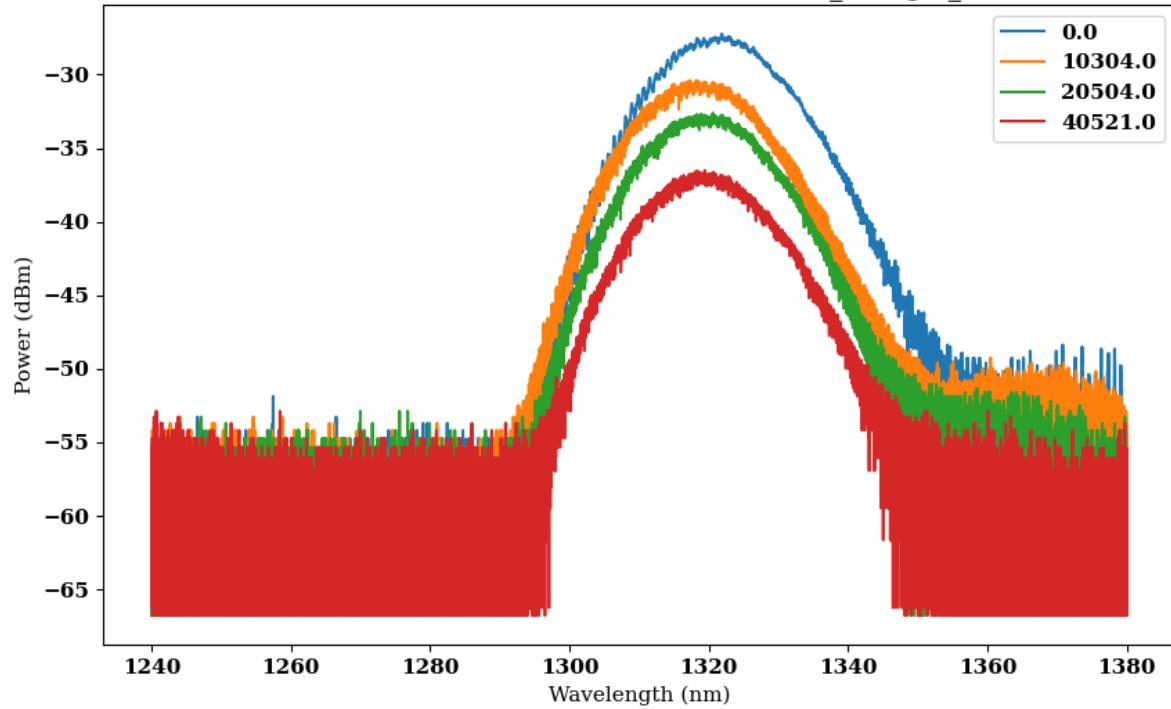
Analysis Report of EdX_May_2023_1310TE chip

Measurement date: 2023-08-28

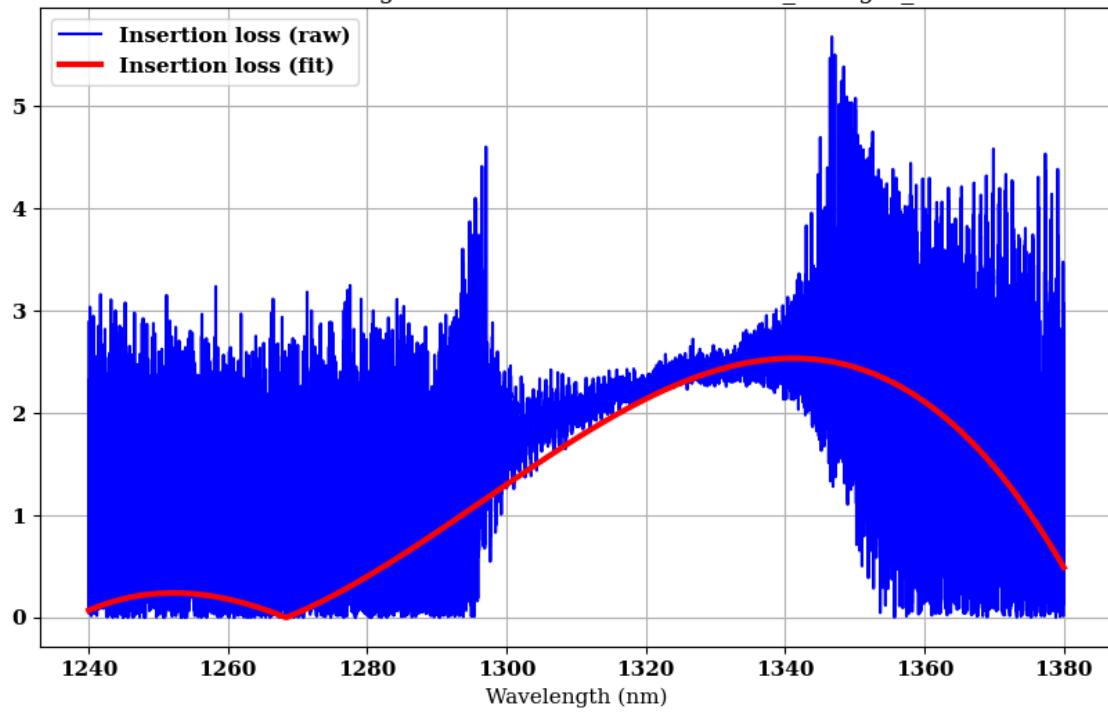
Process: ANT

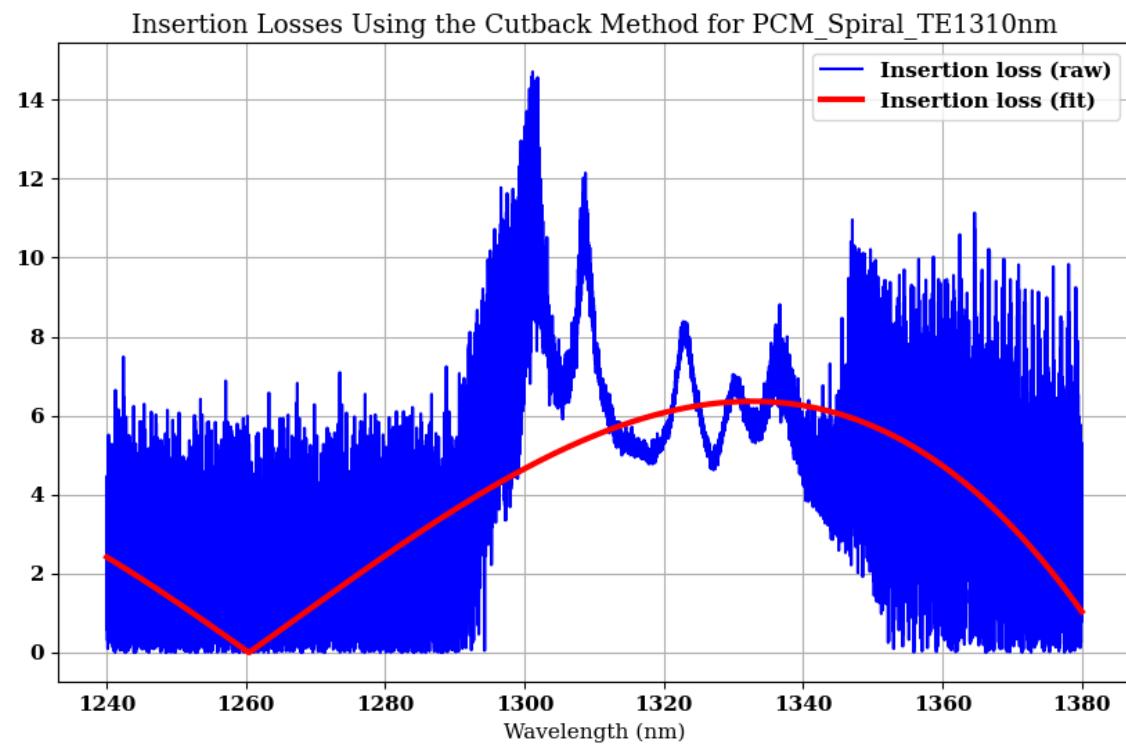
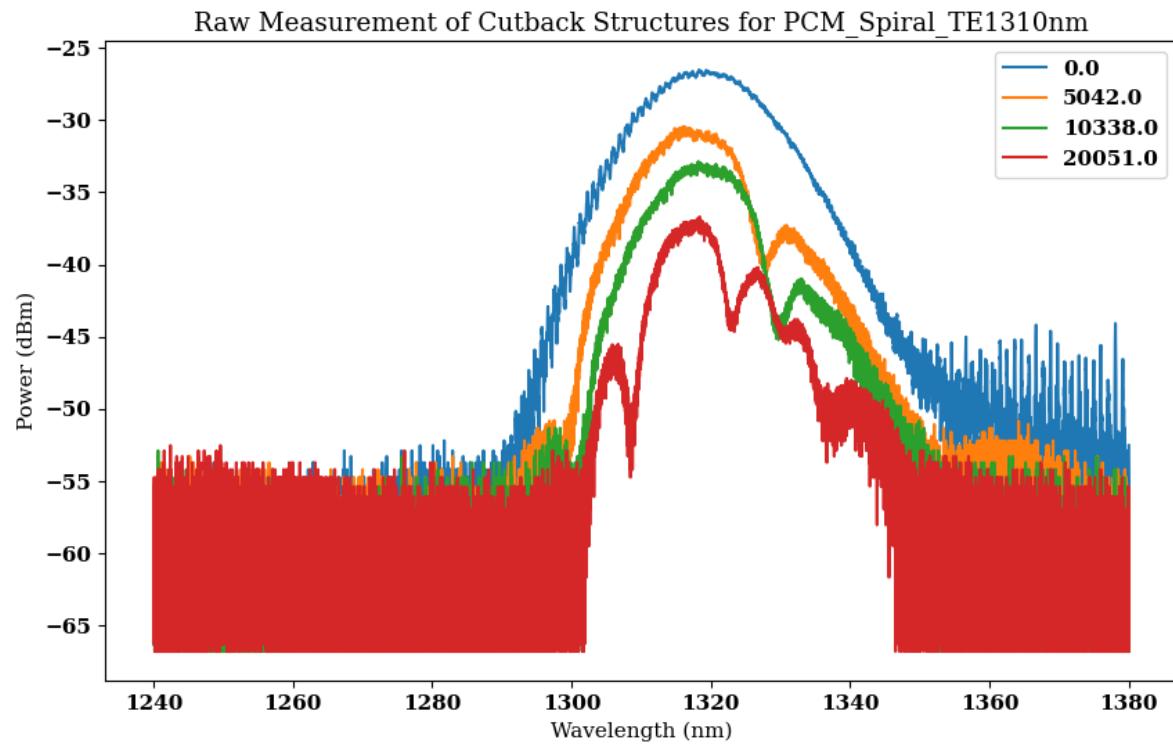
| Name | Wavelength | Polarization | Data | Error | Analysis |
|------------------|------------|--------------|-------|-------|----------------------------|
| PCM_Straight | 1310nm | TE | 1.75 | 0.24 | Insertion Loss (dB/cm) |
| PCM_Spiral | 1310nm | TE | 5.49 | 2.67 | Insertion Loss (dB/cm) |
| PCM_YBranch | 1310nm | TE | 0.1 | 0.11 | Insertion Loss (dB/device) |
| PCM_ContraDC | 1310nm | TE | 0.21 | 0.02 | Insertion Loss (dB/device) |
| PCM_Bragg_Period | 1310nm | TE | -0.71 | N/A | Bragg Drift (nm) |
| PCM_GIndex | 1310nm | TE | 4.12 | 0.8 | Group Index |

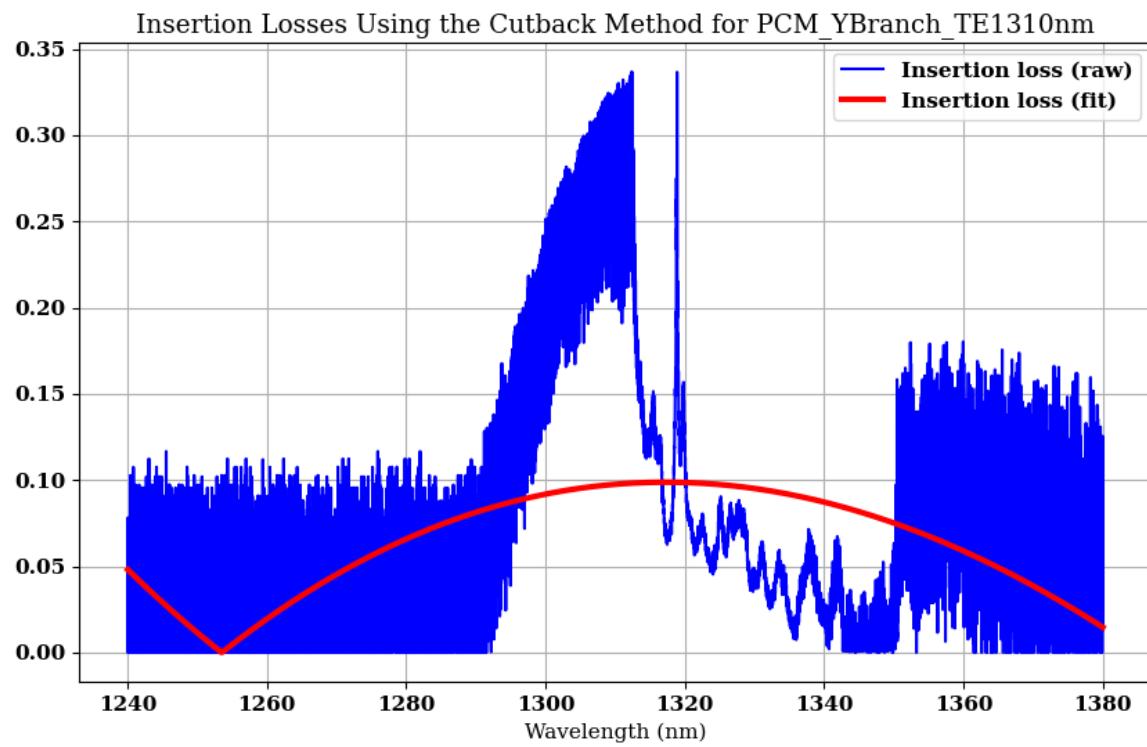
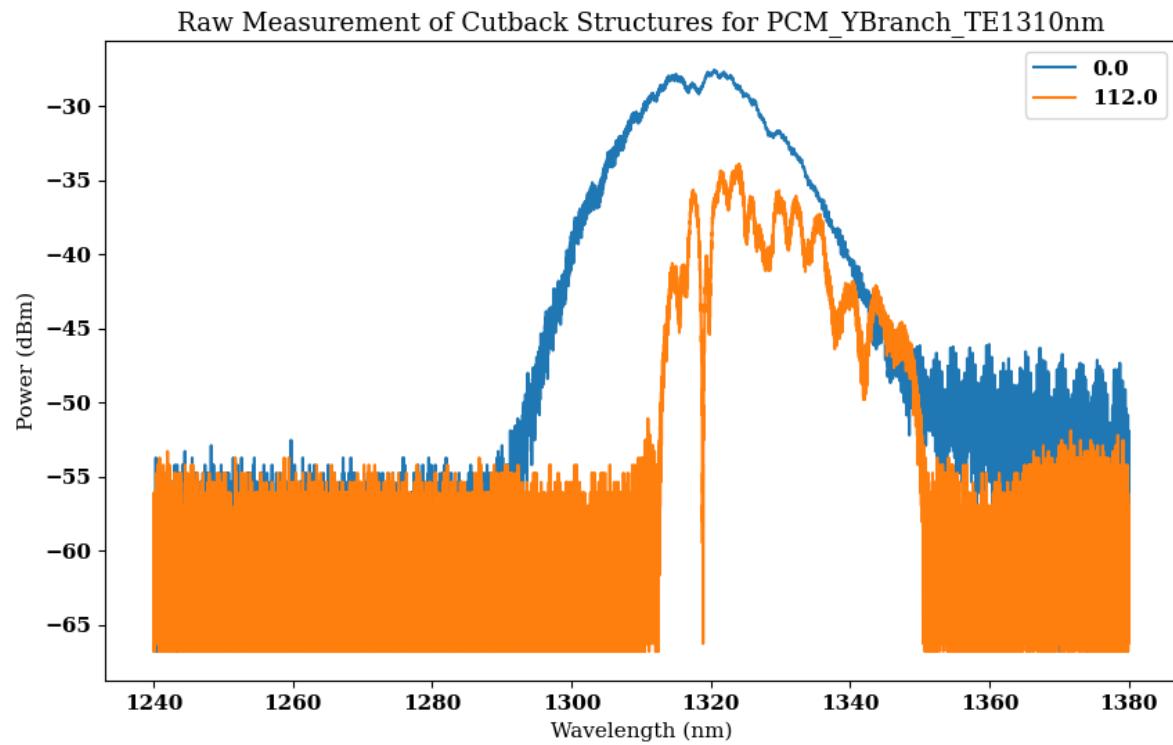
Raw Measurement of Cutback Structures for PCM_Straight_TE1310nm



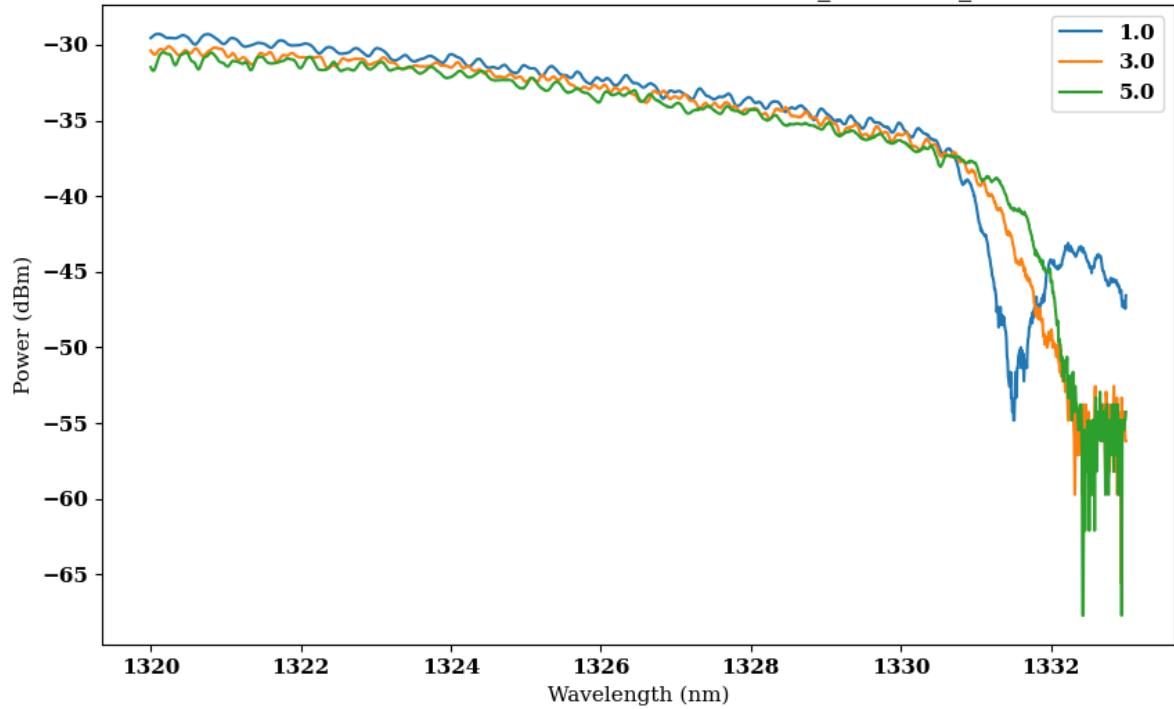
Insertion Losses Using the Cutback Method for PCM_Straight_TE1310nm



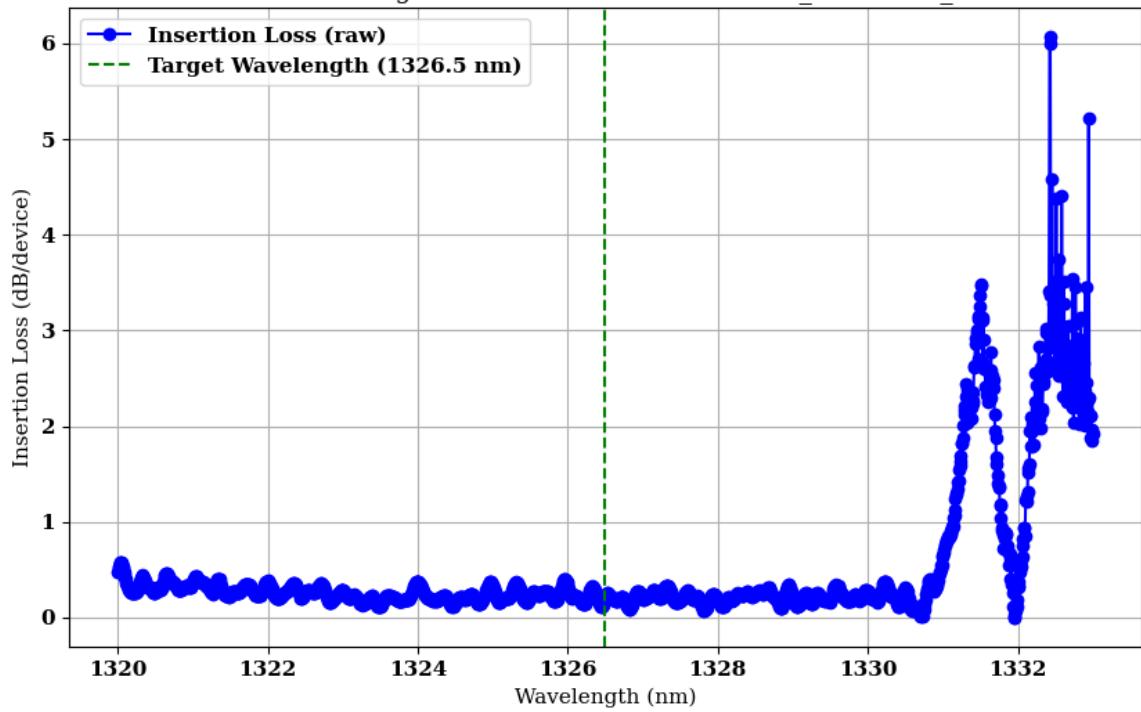




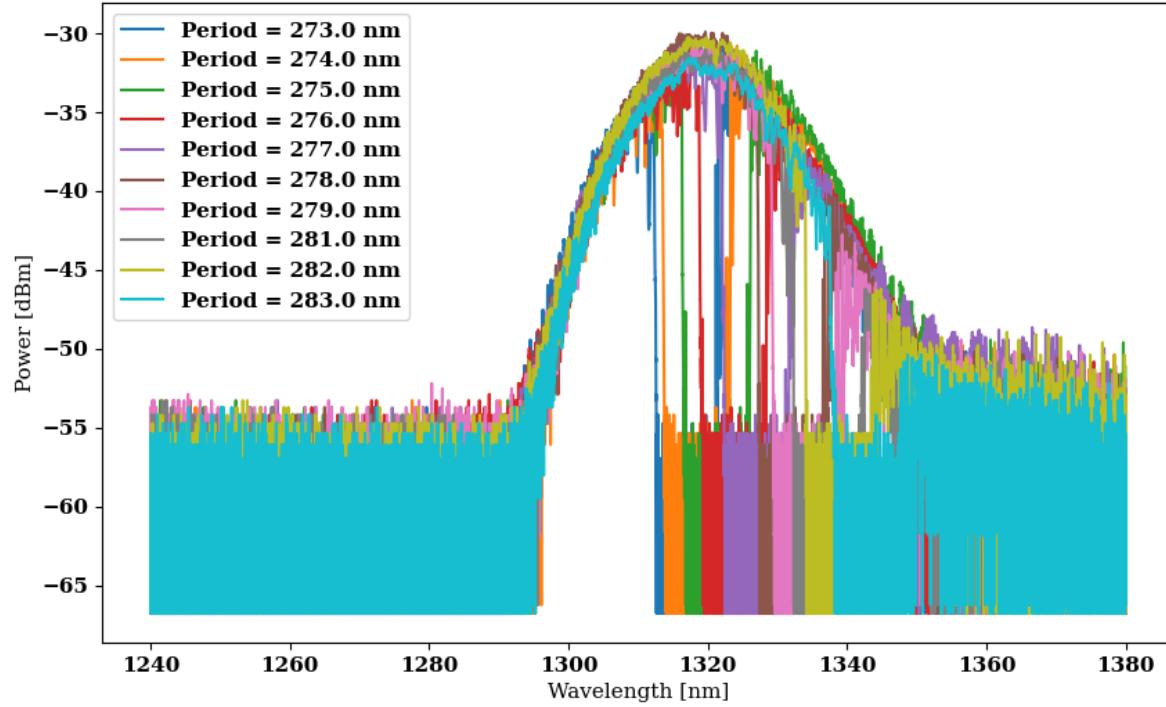
Raw Measurement of Cutback Structures for PCM_ContraDC_TE1310nm



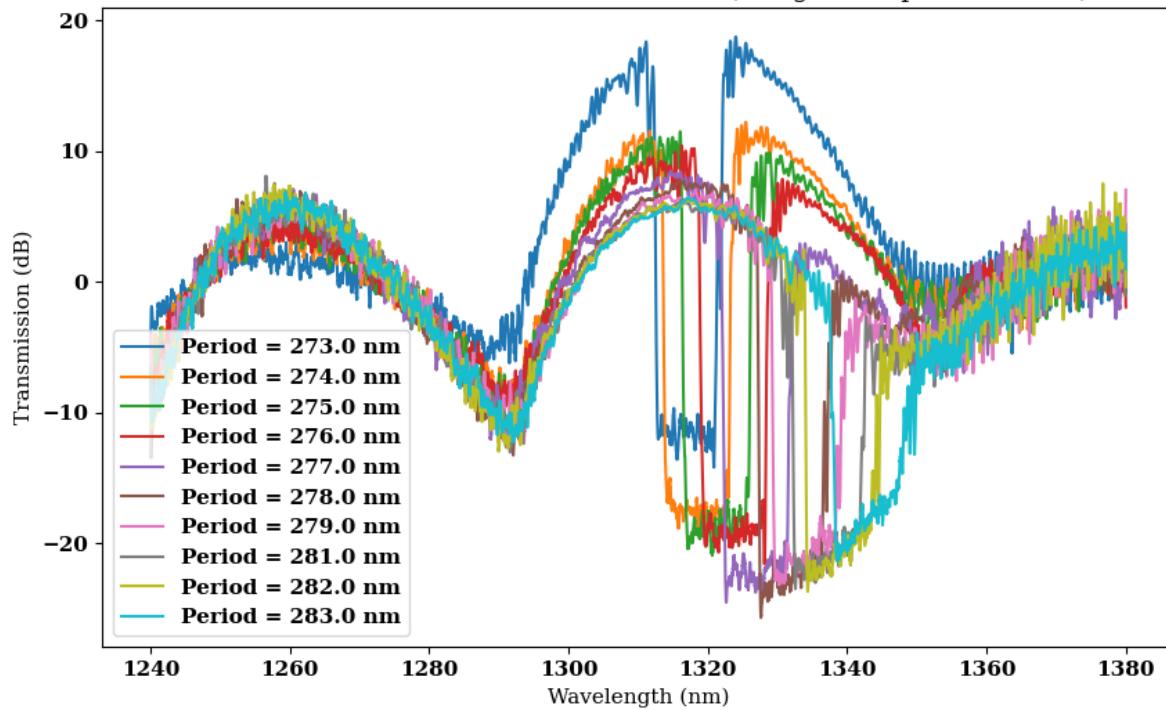
Insertion Losses Using the Cutback Method for PCM_ContraDC_TE1310nm



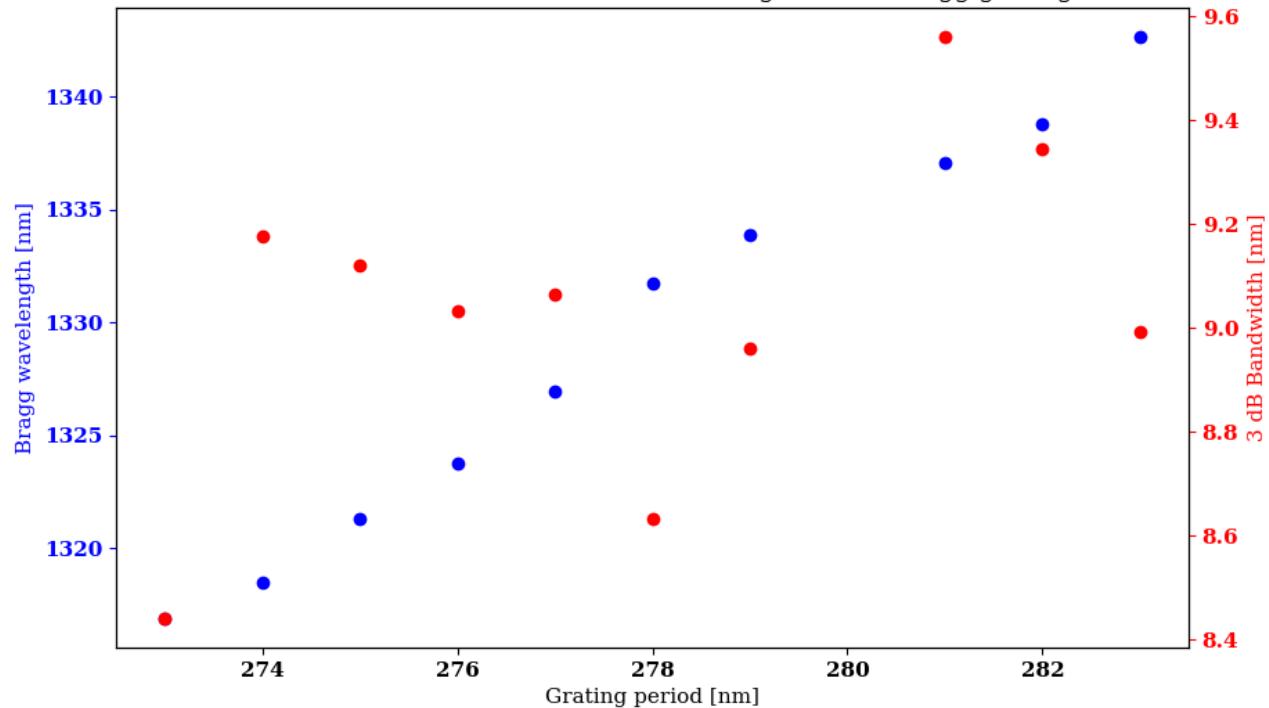
Raw measurement of all structures



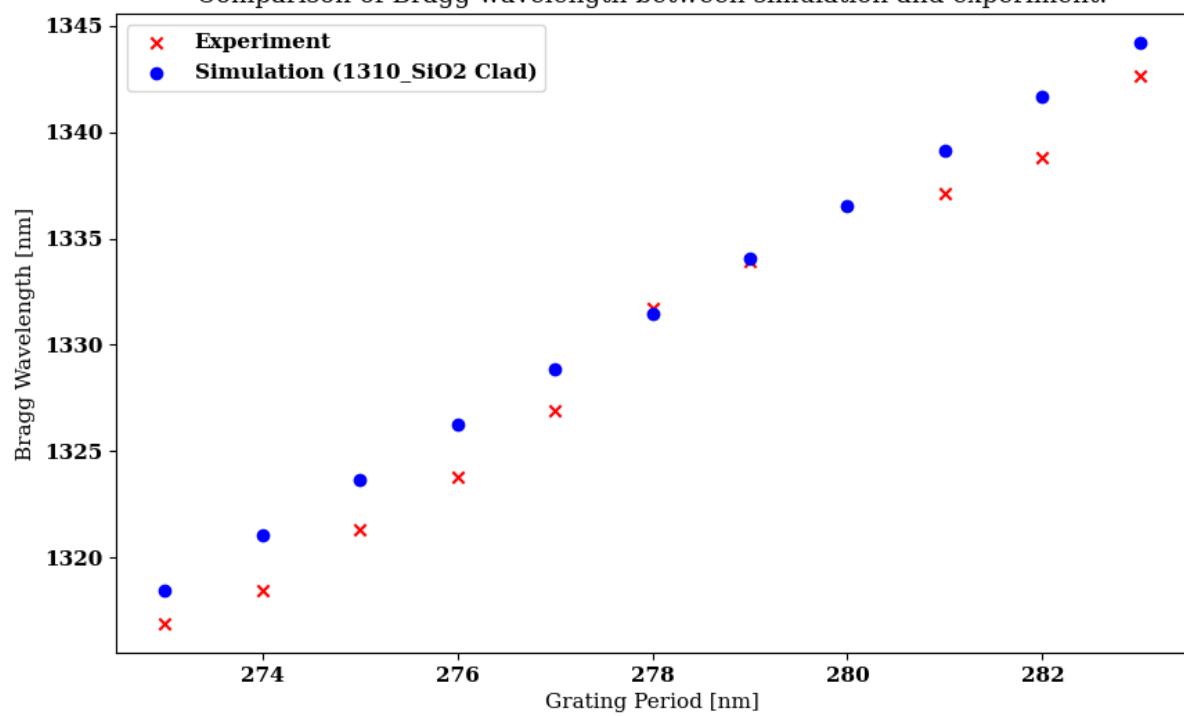
Calibrated measurement of all structures (using envelope calibration)

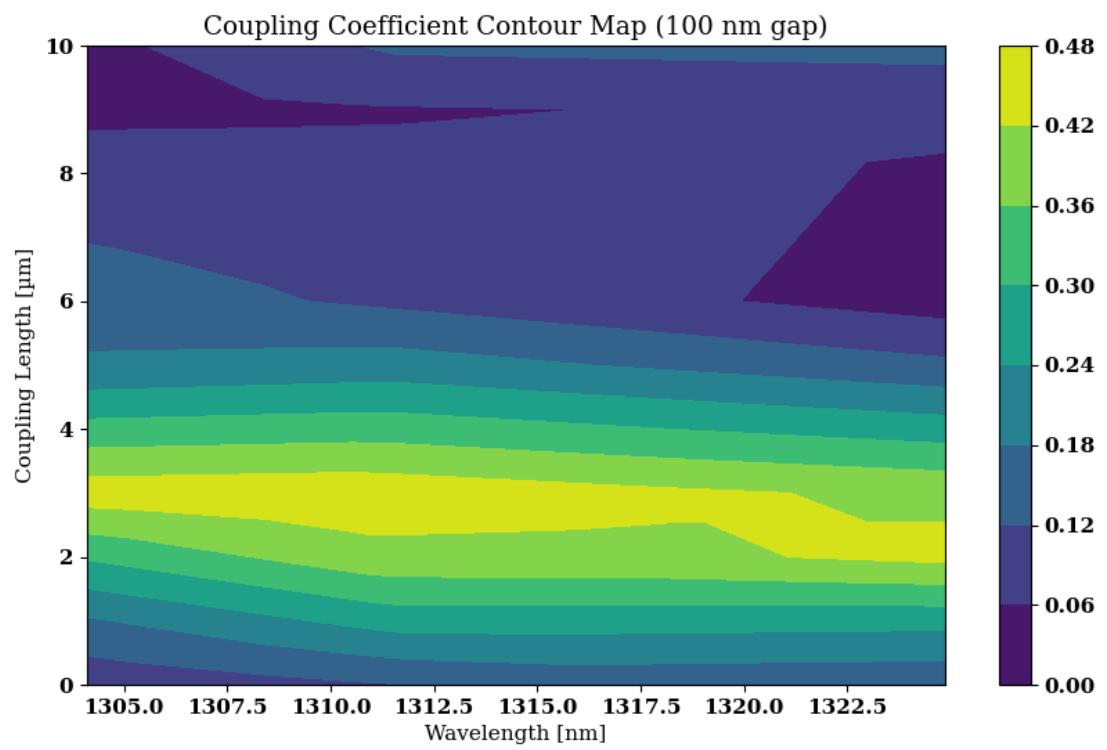
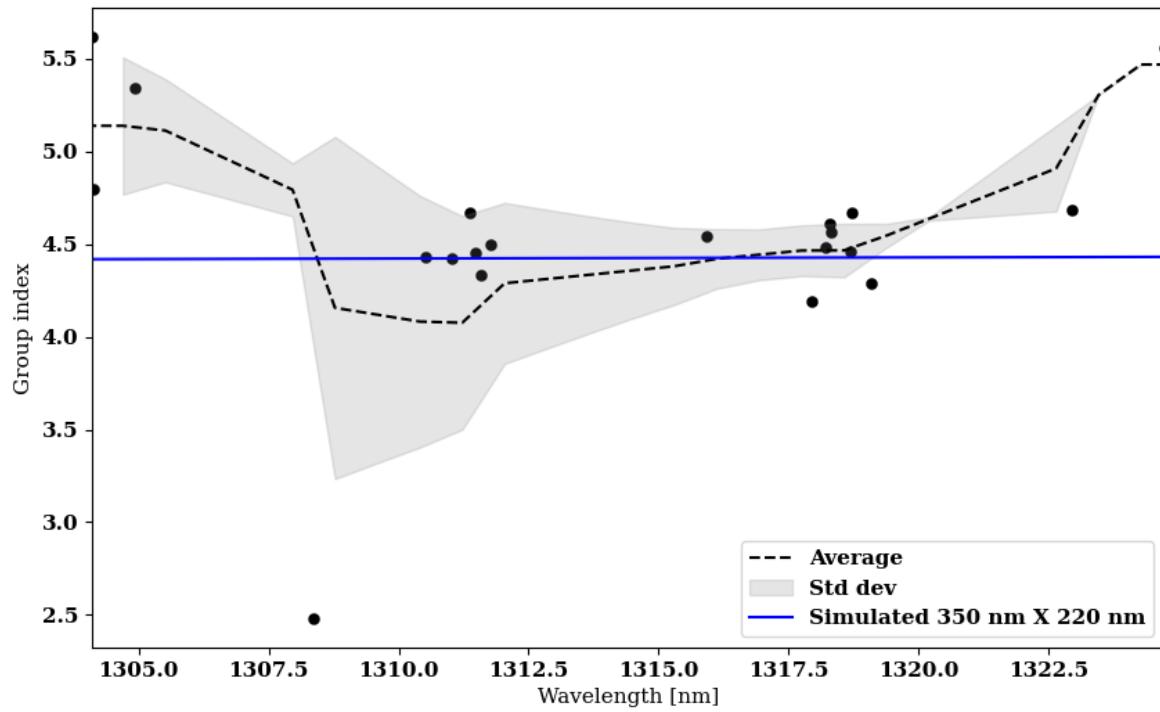


Extracted bandwidth and central wavelength of the Bragg gratings



Comparison of Bragg wavelength between simulation and experiment.



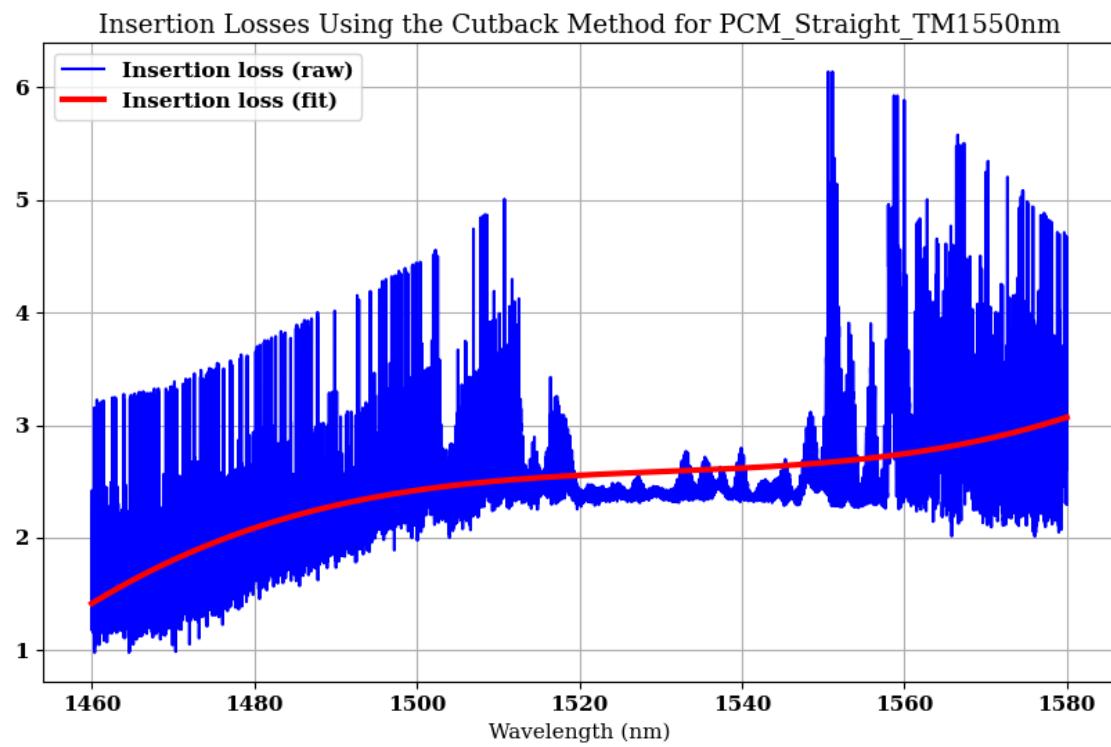
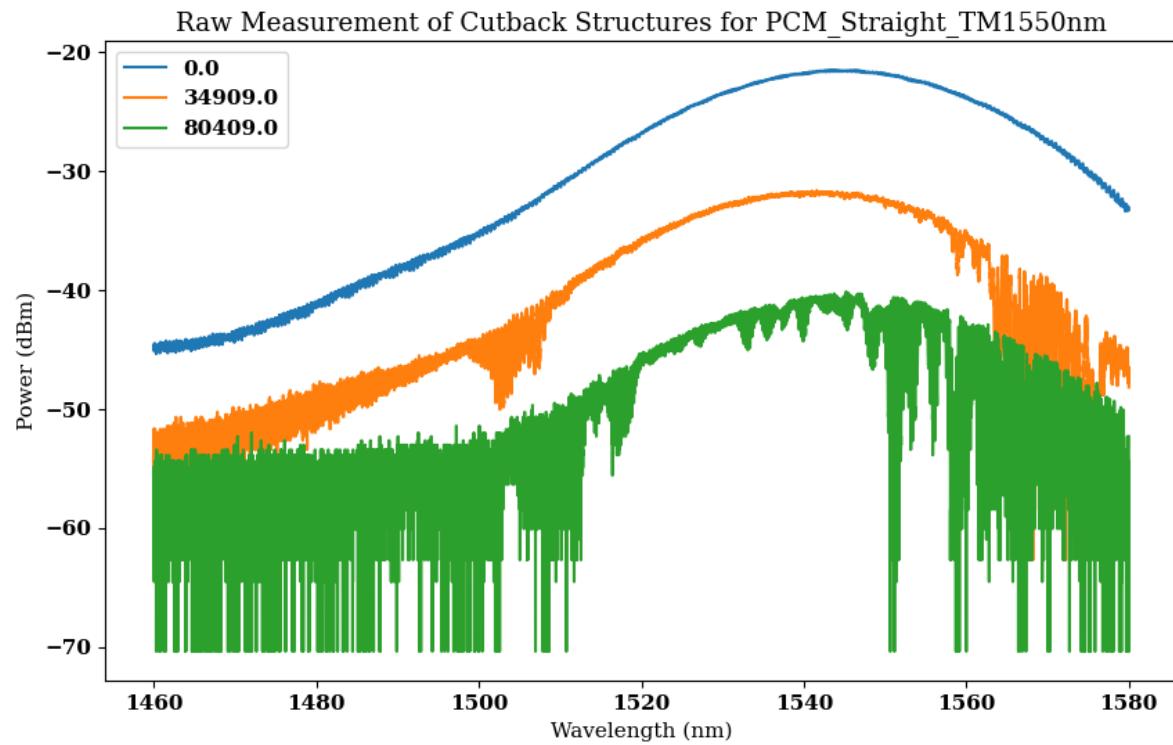


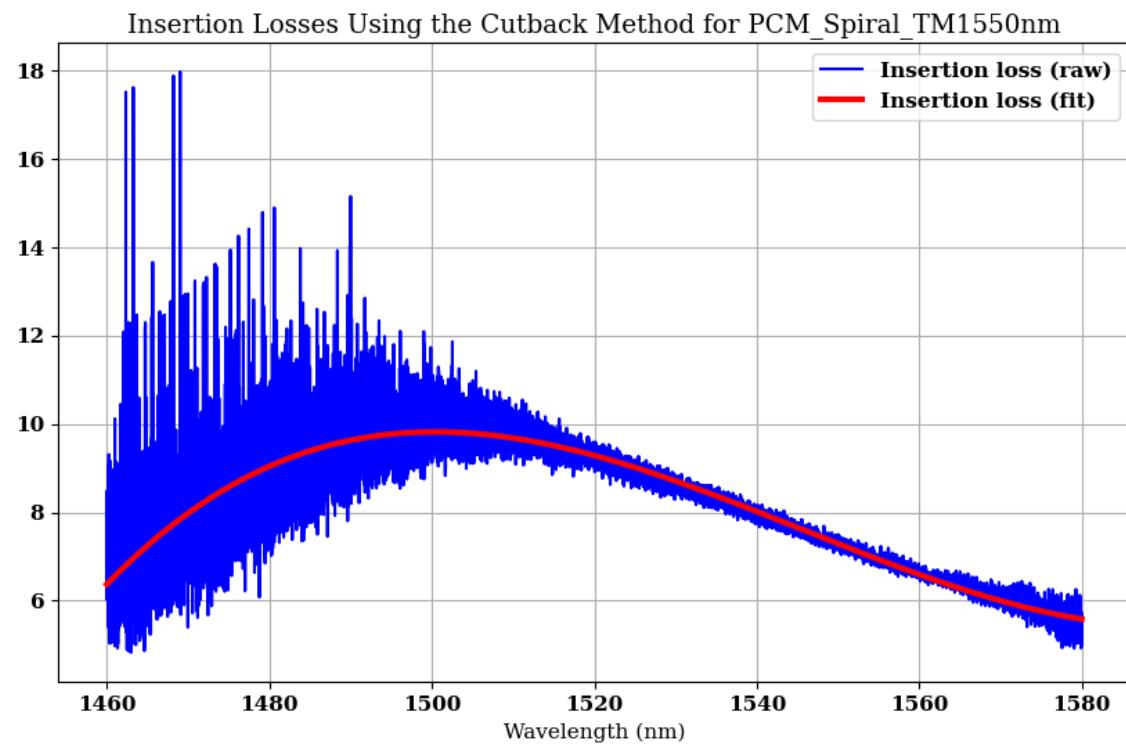
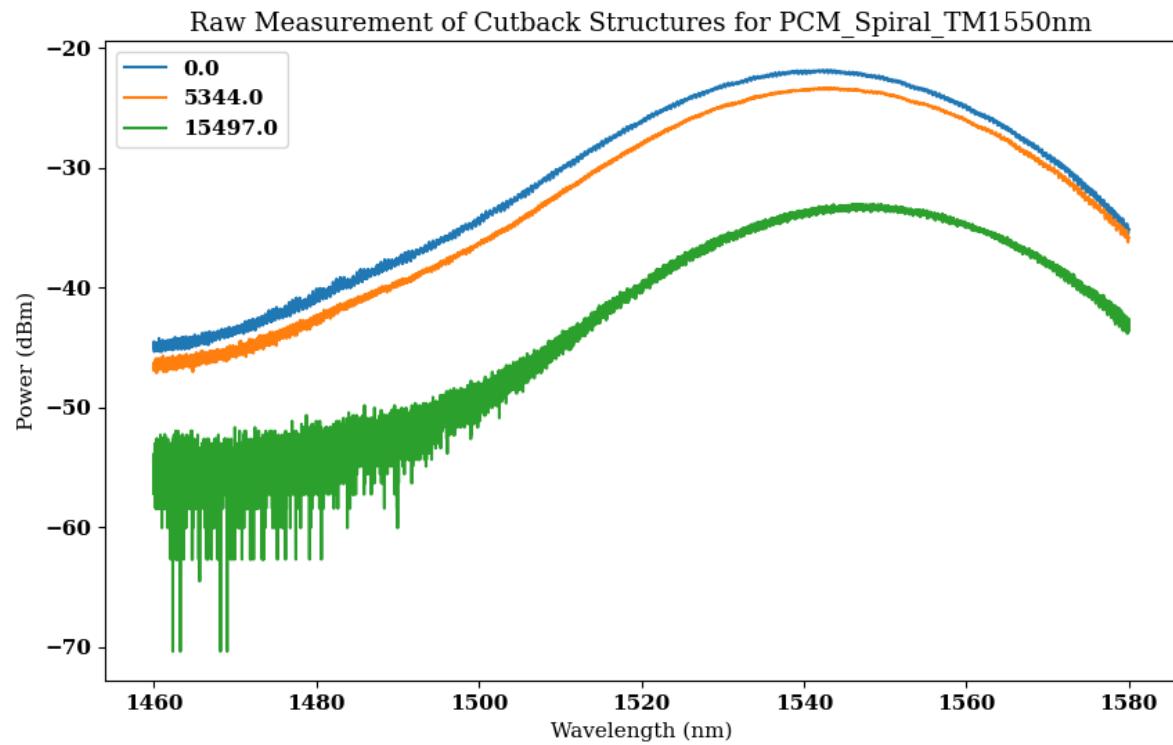
Analysis Report of EdX_May_2023_1550TM chip

Measurement date: 2023-08-28

Process: ANT

| Name | Wavelength | Polarization | Data | Error | Analysis |
|--------------|------------|--------------|------|-------|------------------------|
| PCM_Straight | 1550nm | TM | 2.67 | 0.21 | Insertion Loss (dB/cm) |
| PCM_Spiral | 1550nm | TM | 7.29 | 0.15 | Insertion Loss (dB/cm) |





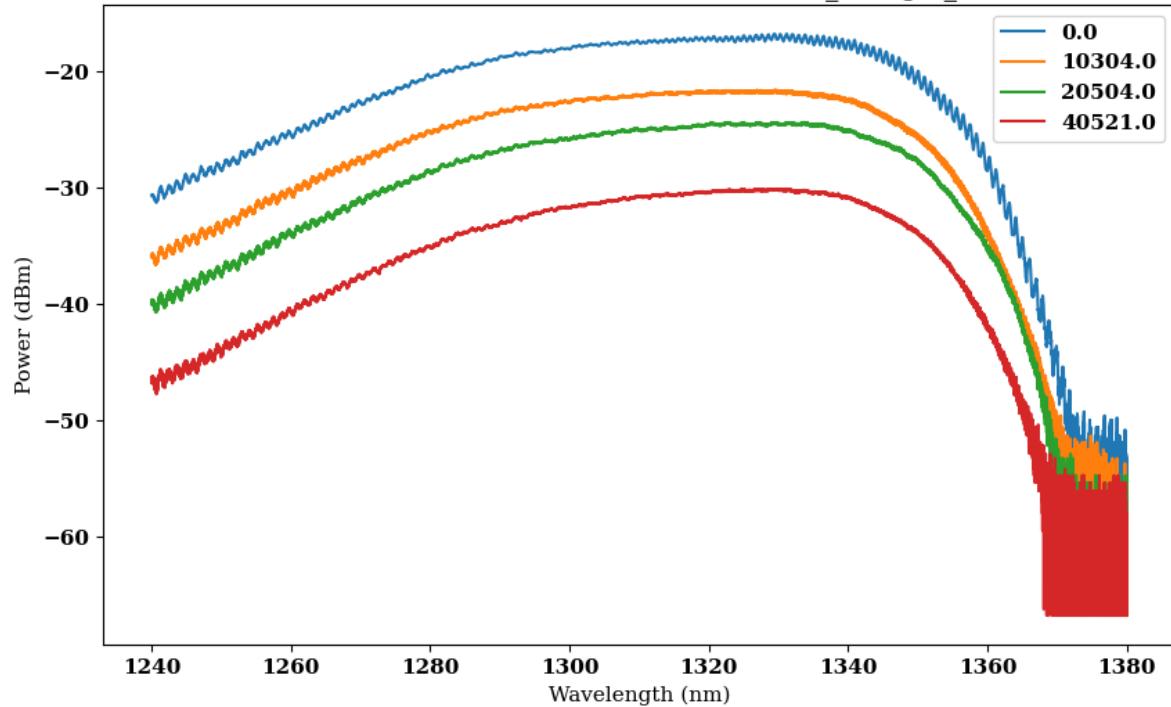
Analysis Report of EdX_May_2023_1310TM chip

Measurement date: 2023-08-28

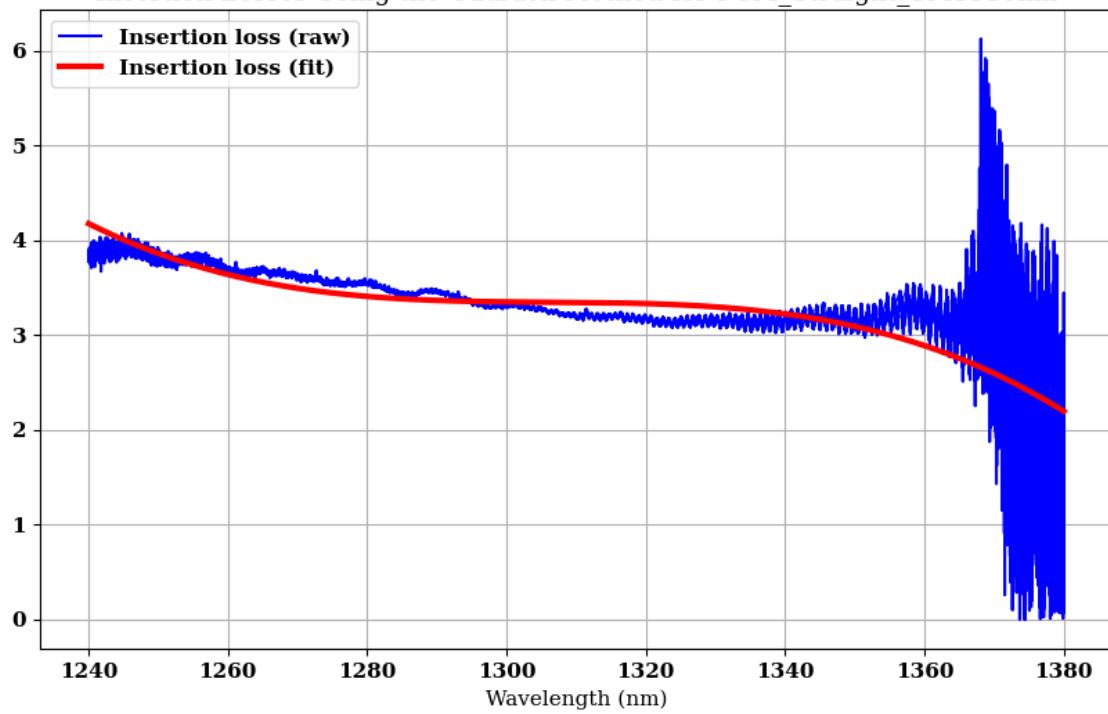
Process: ANT

| Name | Wavelength | Polarization | Data | Error | Analysis |
|--------------|------------|--------------|-------|-------|------------------------|
| PCM_Straight | 1310nm | TM | 3.35 | 0.16 | Insertion Loss (dB/cm) |
| PCM_Spiral | 1310nm | TM | 14.82 | 1.34 | Insertion Loss (dB/cm) |

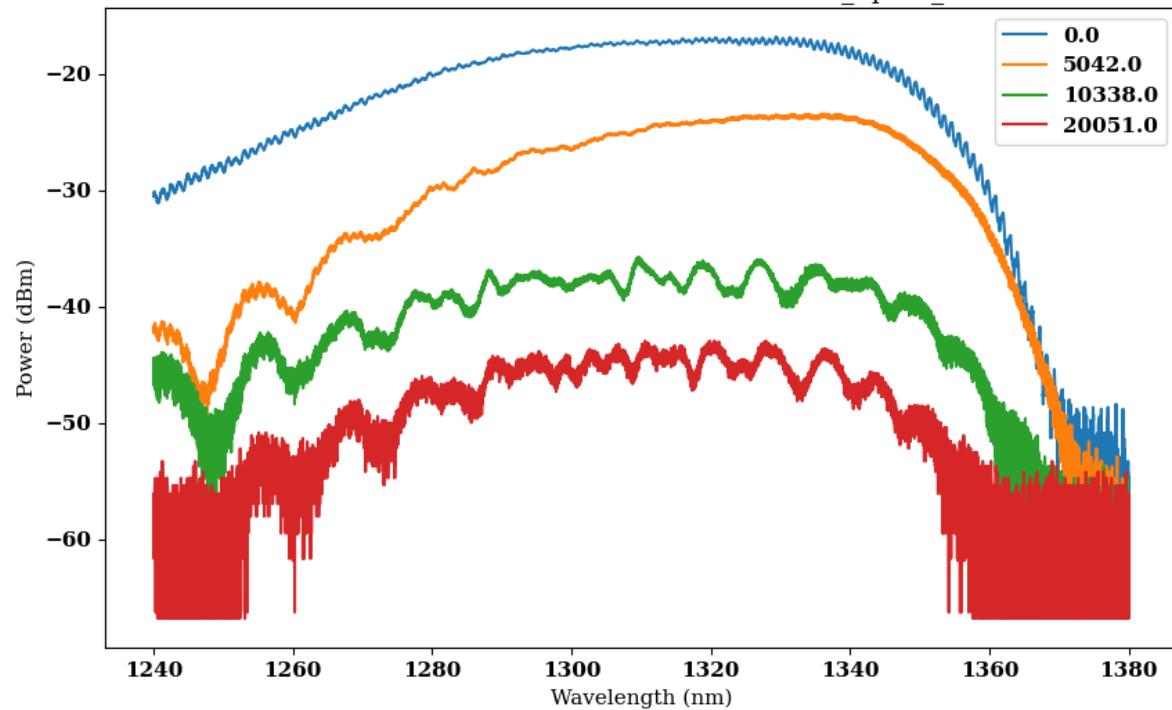
Raw Measurement of Cutback Structures for PCM_Straight_TM1310nm



Insertion Losses Using the Cutback Method for PCM_Straight_TM1310nm



Raw Measurement of Cutback Structures for PCM_Spiral_TM1310nm



Insertion Losses Using the Cutback Method for PCM_Spiral_TM1310nm

