

IR spectrum showing %T (Y-axis, 61 to 99) versus cm^{-1} (X-axis, 4000 to 450). The spectrum displays two traces: a black trace (original polymer) and a red trace (polymer after 100% deuteration). The red trace shows significant shifts in the C-H stretching region (around 3000 cm^{-1}) and the C-D stretching region (around 2100 cm^{-1}), as well as shifts in the fingerprint region (below 1500 cm^{-1}).

Key labeled peaks (Wavenumber in cm^{-1}):

- 3308.37
- 2857.36
- 2857.82
- 1647.64
- 1575.77
- 1469.68
- 1595.34
- 1509.43
- 1424.80
- 1445.04
- 1328.65
- 1256.29
- 1255.60
- 1183.70
- 1161.79
- 1116.18
- 1094.87
- 1064.46
- 1038.52
- 890.98
- 889.98
- 777.05
- 754.60
- 754.15
- 701.66
- 662.70
- 623.81
- 603.10
- 583.25
- 553.45
- 534.45
- 534.12
- 503.10
- 503.12
- 549.72
- 549.47
- 520.29

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