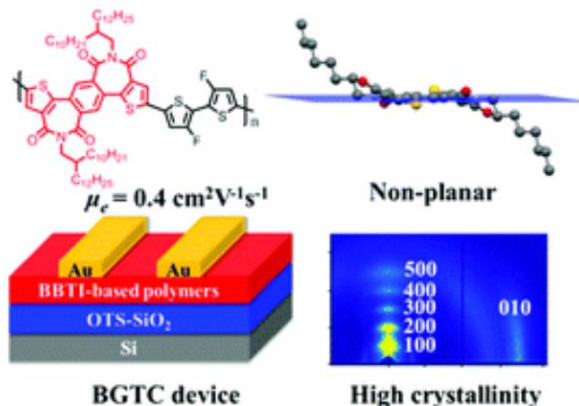
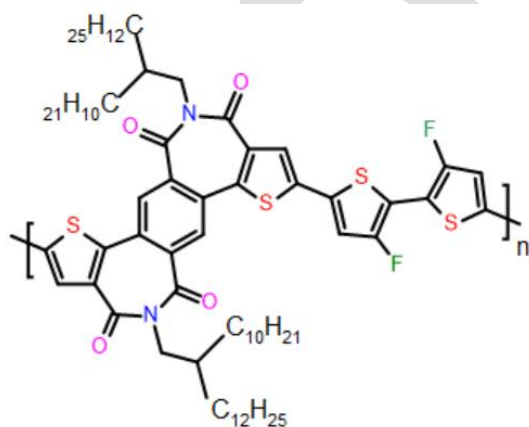


## CERTIFICATE OF ANALYSIS

1M Material: OS0985  
 Common Name: TBDI-DFBT  
 CAS: 2138496-98-5  
 Chemical Name: Poly[[5,12-bis(2-decyltetradecyl)-4,5,6,11,12,13-hexahydro-4,6,11,13-tetraoxodithieno[2,3-*e*:2',3'-*e'*]benzo[1,2-*c*:4,5-*c'*]bisazepine-2,9-diyl](3,3'-difluoro[2,2'-bithiophene]-5,5'-diyl)]



Lot No: YY17046CB  
 Appearance: Brown solid  
 NMR: Confirmed  
 Assay: 99+% (NMR)  
 Solubility: Soluble in chlorobenzene, and other selected organic solvents  
 GPC Analysis: Mw ~90K, PDI ~ 2.5 (PS standards)  
 Reference: J. Mater. Chem. C, 2017, 5, 9559--9569