



# mmWave Compliance Measurements

Office of Engineering and  
Technology  
Laboratory Division  
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# mmWave Panel Members

- Steve Jones, FCC Lab
  - Panel Moderator
  - C63.26 WG Chair
- Robert Paxman, Intel
  - C63.10/.26 JTG Chair
- Mike Heckrotte, UL
- Steve Majkowski, Nokia
- Daniel Pino, PCTest
- Reza Biazaran, FCC Lab
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# Panel Discussion Topics

- Near Field/Far Field Considerations, particularly w.r.t. mmWave base stations
  - EIRP vs. TRP
  - Measurement of individual sub-array with subsequent combination
  - Other possibilities
- TRP Measurements of unwanted emission levels
  - Two step approach – measure EIRP first, and then TRP when necessary, only at identified problematic frequencies
  - Trade off between minimizing uncertainties and measurement time and effort
- Pre-scan procedures with downconverters at far-field distances
- Conversion of radiated power measurement (EIRP) to equivalent conducted power
- Methods for characterizing maximum antenna gain and directivity of a MIMO antenna array
  - Measurement, modeling, attestation
  - Responsibilities for accuracy