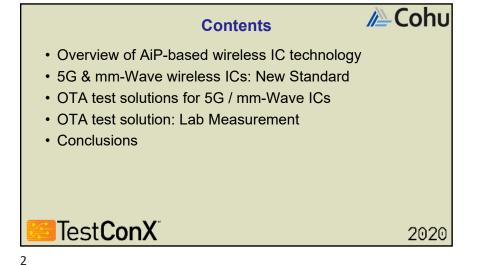
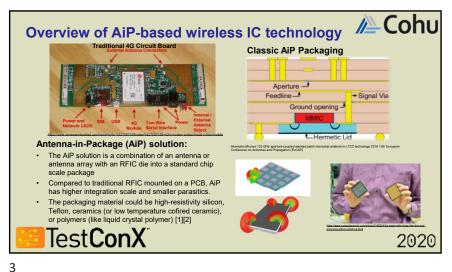
1

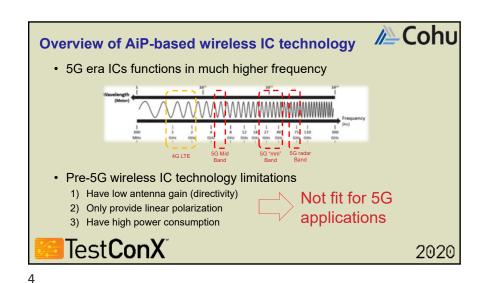
Cohu, Inc.

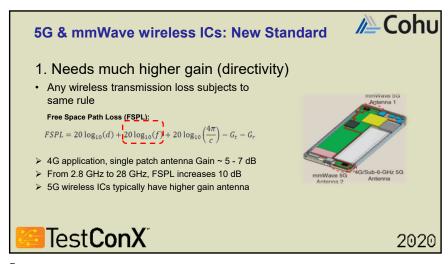


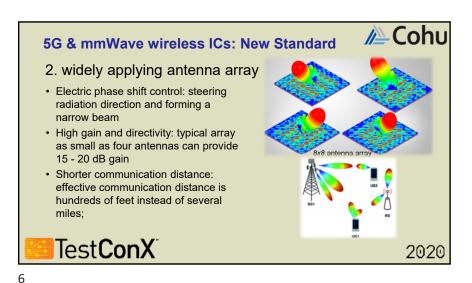


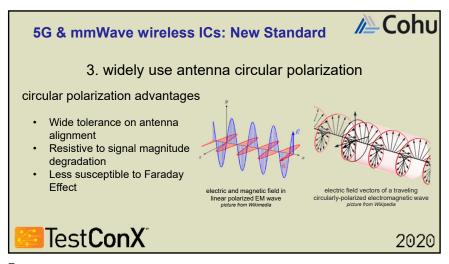
TestConX Workshop March 1-4, 2020 www.testconx.org

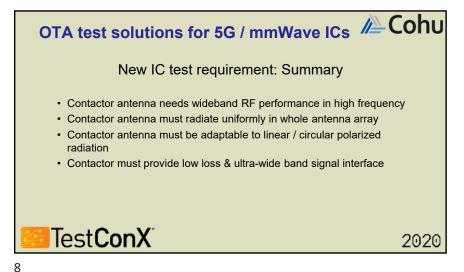


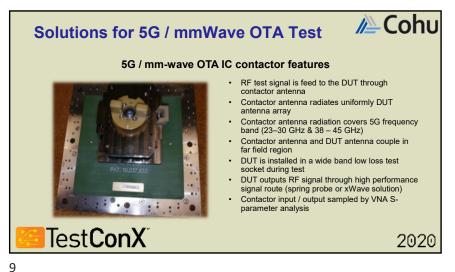


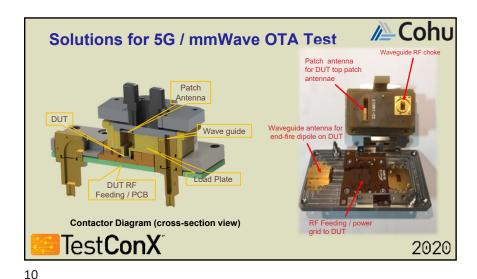


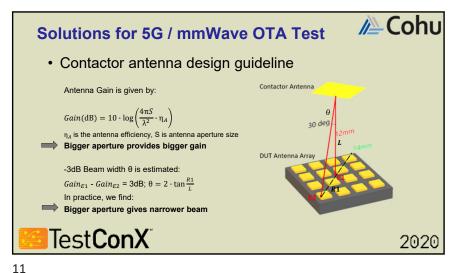


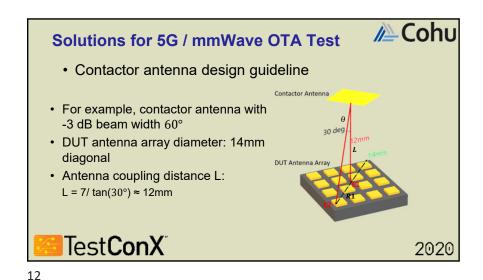


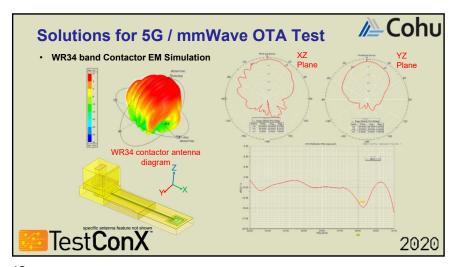


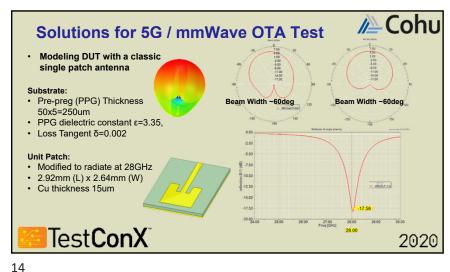


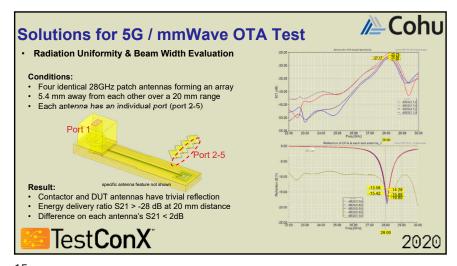


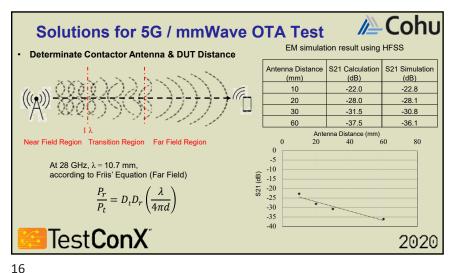




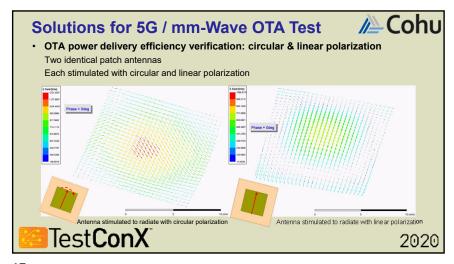


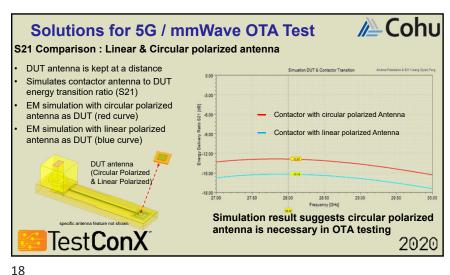


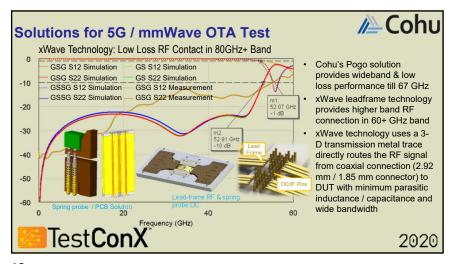


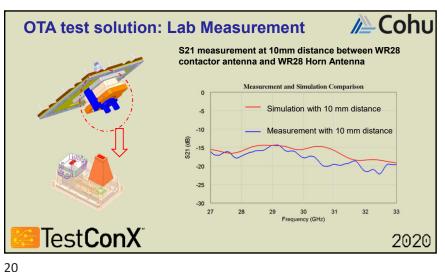


Cohu, Inc.









Session # Presentation #

TestConX 2020

Cohu, Inc.

Conclusions



- In 5G & mmWave Era, wireless ICs work in much higher band, which requires higher antenna gain and electrical beam steering.
- Phase array has became a new standard in wireless IC design
- To test 5G wireless ICs, contactor antenna needs to provide wide beam width and uniform radiation
- To coordinate widely used circular polarization DUT antenna array, the contactor antenna must be able to radiate with circular polarization
- This research suggests the DUTs should be kept in transition region or further distance from contactor antenna
- Low-loss wideband RF feed is also a necessary in the OTA test



2020

Reference



- [1] Y. P. Zhang, D. Liu, Antenna-on-Chip and Antenna-in-Package Solutions to Highly Integrated Millimeter-Wave Devices for Wireless Communications IEEE Transactions on Antennas and Propagation, Volume: 57, Issue: 10, Oct. 2009
- [2] D. Kam, D. Liu, A. Natarajan, Low-Cost Antenna-in-Package Solutions for 60-GHz Phased-Array Systems 19th Topical Meeting on Electrical Performance of Electronic Packaging and Systems, 25-27 Oct. 2010



22

2020

21

TestConX Workshop www.testconx.org March 1-4, 2020

Cohu, Inc.



