



MilliBox

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PRESS RELEASE

FOR IMMEDIATE RELEASE

MilliBox with its partners shows 3D over the air capture of J-Band antenna array

SAN FRANCISCO, CA JUNE 14, 2025 --- MilliBox the leader in compact benchtop mmWave and sub-THz antenna test systems continues to show innovation for the 2025 edition of the IEEE MTT-S International Microwave Symposium in San Francisco CA, from June 15 to June 20, 2025.

MilliBox demonstrates the first **3D OTA live capture of a J-Band antenna array at 330GHz** with MBX32CTR. The test setup consists of a 5.5ft MBX32 chamber and a GIM04H-300E 3D positioner. The chamber is equipped with a parabolic reflector and feed horn designed by **Eravant**, eliminating the far field distance constraints. A vector network analyzer from **Copper Mountain Technologies** used with MilliBox software makes high resolution 3D radiation pattern data acquisition, through the WR-03 frequency extenders provided by Eravant.

The antenna under test designed by **Nokia Bell Labs** is an antenna array on a single-layer Glass substrate powered by **Mosaic Microsystems** and **Samtec** Glass Core Technology for internal research purposes laying the groundwork for 6G applications. The antenna array is an 8-element Antipodal Vivaldi Array covering the full J-band from 220 – 330 GHz. This demonstration can be found at **MilliBox booth 226**.

“This never seen before demonstration pushes design and test capabilities at the farthest frontier of the mmWave spectrum. It is not that it is only feasible, it shows that it is becoming accessible to many engineers who are developing next generation radio applications” says Michael Holyoak Department Head of EM Systems & Integration at Nokia Bell Labs.

About MilliBox

MilliBox is a product line of mmWave and THz antenna testing systems based in San Jose, California, launched by mmWave IC pioneers Chinh Doan and Jeanmarc Laurent in 2018. With over 350 setups installed worldwide, MilliBox established itself as the leader in affordable and modular benchtop over-the-air mmWave antenna test solutions. MilliBox products are carefully designed and responsibly manufactured in California. **OTA your way!**

For more information millibox@milliwavess.com

