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PRESS RELEASE

FOR IMMEDIATE RELEASE

MilliBox extends radar testing options with integrated target simulator

SAN FRANCISCO, CA JUNE 14, 2025 --- MilliBox the leader in compact benchtop mmWave anechoic chambers and antenna positioners announces continues to innovate for the 2025 edition of the IEEE MTT-S International Microwave Symposium in San Francisco CA, from June 15 to June 20, 2025. Several demonstrations are shown at **MilliBox booth 226**.

MilliBox demonstrates the usage of **MBX32R with fixed, moving and simulated radar targets** illustrating practical radar performance testing scenarios. This setup consists of MBX32 compact benchtop anechoic chamber with WLL09 instrumented wall, GIM04H-300X, 3 Axis antenna positioner, LIN04 programmable linear actuator and Eravant STR-793-12-DI 77GHz radar target simulator. This demonstration highlights the versatility and modularity of MilliBox Radar Test Systems for everyday radar characterization and tuning in mmWave and sub-THz domain.

Radar Target Simulator or RTS, can electronically transform the incoming radar signal such that the resulting echo appears like a virtual moving object. This technique is widely used for radar characterization. MilliBox integrates this with its MBX32R anechoic test system featuring a 3 Axis radar positioner. This way the doppler capability of the radar under test is evaluated at every angle in space such that impairments like signal-to-noise ratio (SNR), sensitivity, and blind spots can be uncovered easily.

"Nowadays, mmWave and sub-THz radars have integrated phased arrays, so getting a clear 3D view of the radar detection capabilities is fundamental for performance evaluation. Using MilliBox MBX32R with RTS is an attractive solution to do this," stated Jeanmarc Laurent Vice President of MilliBox.

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 the USA. **OTA your way!**

For more information millibox@milliwavess.com

