The Ethertronics® ETH-MMW-1000 is a fully anechoic millimeter measurement system capable of testing wireless devices from 18 to 75GHz. The system is self-contained, moveable, and compact enough to fit into any laboratory or production environment.

The Chamber dimensions are: 2.38m (93.7in) x 1.70m (67in) x 1.24m (48.8in).

**Measurement Capabilities (Passive & Active)**

- Gain
- Directivity
- Efficiency
- Beam Width
- Cross Polar Discrimination
- Side Lobe Levels
- 3D Radiation Pattern
- Radiation Pattern in any Polarization
- TRP, TIS, EIRP & EIS
- Max DUT dimensions: 45 cm.
- Max DUT weight: 10 Kg.
- Total equipment weight: 430 Kg without VNA.
- Positioners 0-180deg and 0-360deg, accuracy 0.01deg.
- Chamber Frame: Aluminium
• **Compact, Low Noise, 5G** Anechoic Chamber from **18 to 75GHz**, 0.01deg step rotational mast.

• 2 Horns per frequency band (VP, HP), Maximum 12 Horns per Chamber.
  - Up to 6 sets of probes for the same frequency band to reduce measurement time
  - Or 3 bands (2 Horns each)

• **Passive and Active** measurements enabled.

• **No up/down conversion** for measurements. Measurements are done at the frequency from the source.

• **Main chamber construction based on waveguides (not cables)**
  - No noise generation during active measurements (TIS level more stable)
  - No need for power amplifier for active measurements
  - Low RF path losses due to optimized amount of cables

• **100% phase integrity from Source**
  - No phase errors added due to conversion
5G CHAMBER | BENEFITS (2/2)

• Quiet Zone +/- 150mm (+/- 6in)
• No reflection interferences due to hemispherical shape range
• Built-In Slip Ring for all digital cables (6 to 18pcs) to monitor and power DUT
• 5G Far Field chamber
  o No additional post processing computing time
  o No phase information loss as in Near Field chambers
  o Can be custom designed for bigger Quiet zone needs.
• 1 week max for chamber Installation & Training
  o Easy to move Around, through door opening
  o Easy to install
  o Delivery lead-time 16 weeks
• Measurement Equipment Agnostic (VNA, Emulator, Spectrum Analyzer) using preferably Anritsu, Keysight, R&S.
• Most User Friendly Post Processing Software / Easy Reporting using saving features to clipboard
5G CHAMBER | TESTING SERVICES (1/2)

• **Passive Testing:** $5,000 USD / Day (8 hours)
  o Includes 1 technician performing the measurements
  o Includes access to lab (welder, VNA),
  o Isolated room for confidentiality
  o Includes Technical Report of all performed measurements

• **Discount applies** based on number of testing hours per region: 10% off daily fee after 40hrs recorded measurement.

• **Select your region** for measurement session based on availability
  o Nice, France
  o Suwon, South Korea
  o San Diego, CA, USA
5G CHAMBER | TESTING SERVICES (2/2)

• PASSIVE MEASUREMENTS
  o VNA available on site

• ACTIVE MEASUREMENTS
  o NON 5G SIGNALLING ACTIVE TESTING
    • Spectrum Analyzer and CW testing possible for power radiation patterns
  o 5G SIGNALLING ACTIVE TESTING
    • Based upon Emulator availability in the region (Pricing varies based on availability)
    • Bring your own Emulator
      o You can ship your Emulator to the Ethertronics facility to perform 5G measurements
      o Customer is responsible for equipment packaging opening, repackaging and logistics

• RENT YOUR OWN 5G CHAMBER for 4 WEEKS
  o Pricing $150,000 USD w/o VAT
  o Includes logistics freight, customs
  o Includes 2 day Installation, Training & Setup and Teardown
THANK YOU

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