

US location:

Mobile Mark, Inc.
1140 W. Thorndale Ave.
Itasca, IL 60143, USA

- Global Headquarters
- Engineering design center
- Environmental testing facilities
- Expanded manufacturing space

Toll free: 1-800-648-2800 (US & Canada)
Phone: 1-847-671-6690
Fax: 1-847-250-5120
Email: info@mobilemark.com

UK location:

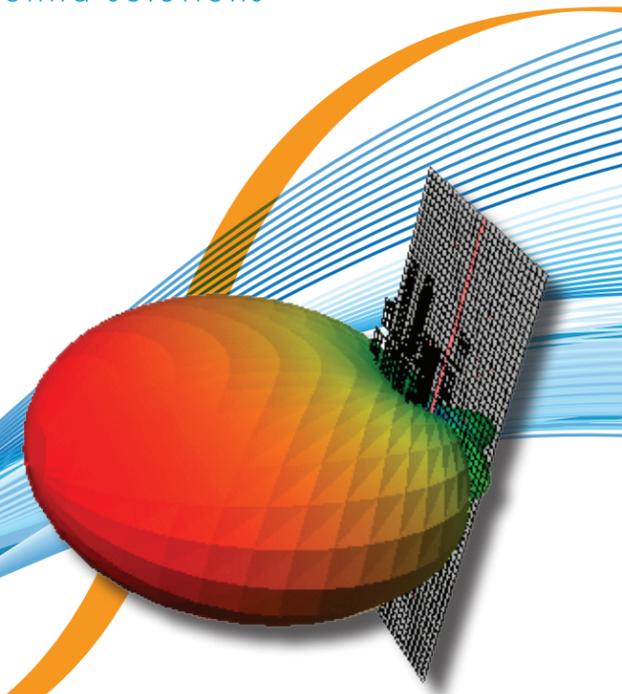
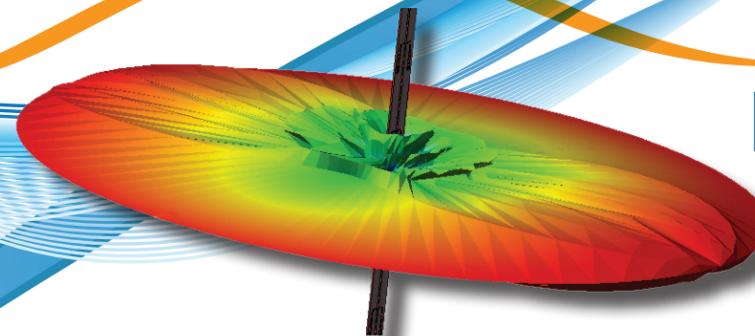
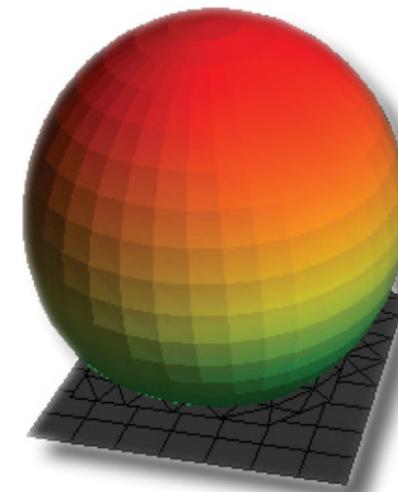
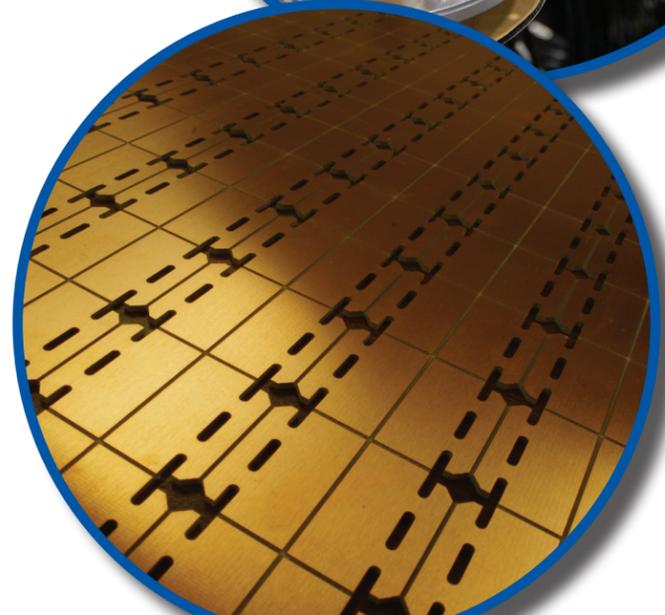
Mobile Mark Europe, Ltd.
8 Miras Business Park
Hednesford, Staffordshire, WS12 2FS, UK

- European production facility
- Expanded manufacturing space
- ISO-9001 certified

Phone: +44 1543 459555
Fax: +44 1543 459545
Email: enquiries@mobilemarkeurope.co.uk

Distributors:

For a complete listing, visit:
www.MobileMark.com



Electrical, Mechanical
and Environmental
Testing for Antenna Systems

Engineering Technical Center

Mobile Mark Engineering Technical Center

Electrical, Mechanical and Environmental Testing for Antenna Systems

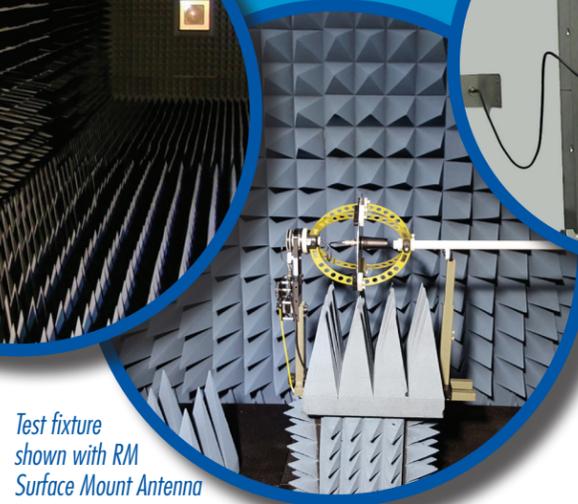
Mobile Mark has years of experience designing unique antenna solutions, and is now offering its services to customers who have their own testing requirements.

Mobile Mark's Engineering Technical Center provides a wide range of Electrical, Mechanical and Environmental testing services. Typical projects include evaluating the performance matching between an antenna and modem, or running the unit through a series of environmental tests. The fully equipped testing facility includes an enhanced Anechoic Chamber.

Computer workstation where patterns are generated after testing



Anechoic Chamber seen from entryway



Test fixture shown with RM Surface Mount Antenna

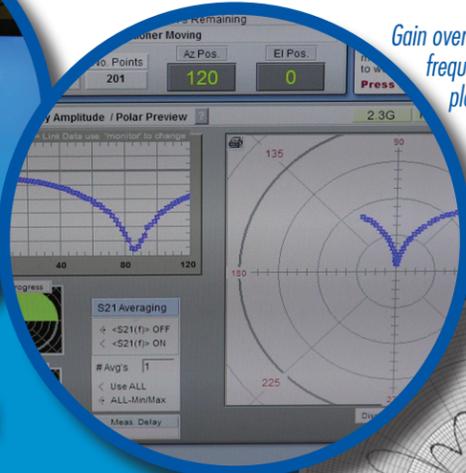


Swappable Antenna Horns from 450 MHz to 6.0 GHz shown on the outside wall

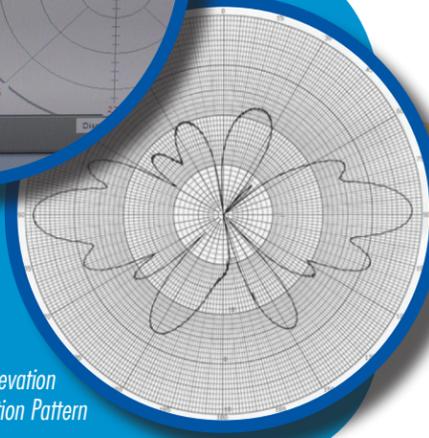
Anechoic Chamber

The fully equipped testing facility includes a new, enlarged, anechoic chamber that measures 10' x 10' x 40' (3m x 3m x 12m)'. The chamber rotator can handle up to 250 lbs. and can accommodate antennas up to 6-feet long. For unusual sizes, custom test fixtures can be built. The chamber is covered wall to wall in foam cones to absorb RF energy that can interfere with testing. There is also the capability to switch out the antenna horns inside the chamber for frequencies ranging from 450 MHz to 6.0 GHz.

Gain over frequency plot being generated



2-D Elevation Radiation Pattern



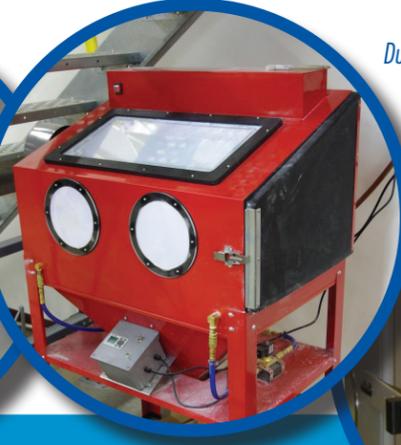
Antenna Characterization Data and Reports

Mobile Mark's Engineering Technical Center gives customers the ability to test any of their existing antenna and radio combinations, and generate data and reports from those tests. Antenna Characterization data and reports include: impedance testing, radiation patterns, gain over frequency plots, and VSWR charts to measure return loss. Mobile Mark Engineers have the ability to generate both 2D and 3D Elevation/Azimuth plots using data retrieved from our Anechoic Chamber. Our Engineers are also available for consultation during and after testing.

Water Immersion Test



Dust Ingress Test Chamber



Hot & Cold Temperature Cycling

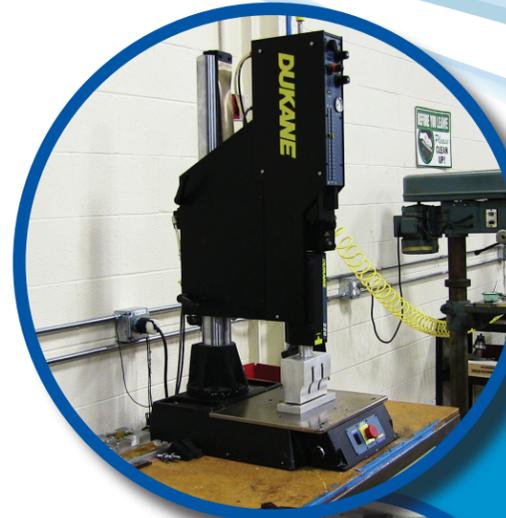
Environmental & Mechanical Testing

Mobile Mark has the ability to do a wide range of environmental & mechanical testing based on Industrial & Military standards. Our equipment can be used to test for Shock & Vibration standards including: IEC61010-1, EN61373, EN300-019, MIL-810G, TIA 329.2-C, IEC 60068, and SAE J1455. We also have the ability to test for Water, Salt, Fog and Dust Ingress standards that fall within the full range of Ingress Protection (IP) ratings. IP67 is one of the more common ratings that we test for.

Over-molding machine with capability for custom designs



Sonic welder for solid state plastic binding



Production of Prototypes

Mobile Mark can also help with product modifications or custom-designs. Samples are generated in our fully equipped Machine Shop that includes a CNC Machine, over-molding machine, sonic welding machine, and embedded board etching machine. We also have in-house capabilities for injection molding.

In house CNC machine ready for production

