





Calibration Laboratory

*On your side, HCT*


# HCT, Always with you





Length and related quantities 

Mass and related quantities 

Time & Frequency 

Temperature & Humidity 

Sound & Vibration 

Electricity & Magnetism 



## ISO 17025 Accreditation

Our ISO 17025 Scope of Accreditation is the most expansive in the market. Offering Accredited Calibration for a wide variety of equipment, including EMI Receivers, Spectrum Analyzers, Signal Generators, LISN's, CDN's, ESD Simulators, Radio Communication Test Sets, Power Meters, Current Probes, Scales, Calipers, Micrometers, Temp/Humidity Chambers, and much more.



## Unparalleled Service Excellence For Over 20 Years

With more than 20 years of service, we deliver Quality Service that satisfies customers from diverse business sectors throughout California, continually exceeding their requirements for Quality, Accuracy, and Integrity.



### Convenient Pick-up and Delivery Services

Reliable and secure transportation of equipment for the convenience of the customers.



### On-site Calibration Services

HCT offers on-site calibration not only in California but country-wide  
\* Consultation is required for out-of-state on-site calibration.



### Access to a Customer-only Website

Check the calibration progress of equipment, view and download calibration reports, and manage calibration history.



### Rapid Customer Response

We respond within 24 hours for inquiries and technical consultations.



### On-site Diagnostic Services

Experienced experts visit customer locations to analyze power quality / ESD issues and provide comprehensive solutions for your measurement environment.

Homepage : [www.hctcalibration.com](http://www.hctcalibration.com), [www.callab.us](http://www.callab.us)

Sales : [kent@hctamerica.com](mailto:kent@hctamerica.com) (669-263-6500)  
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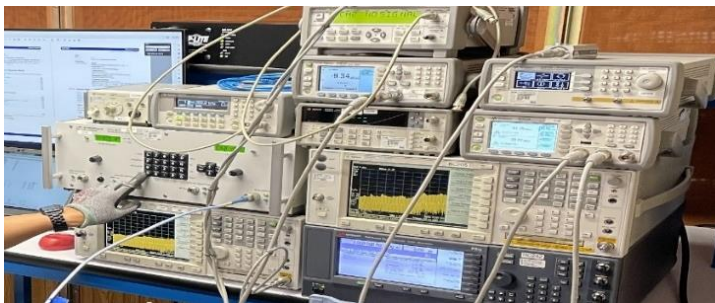
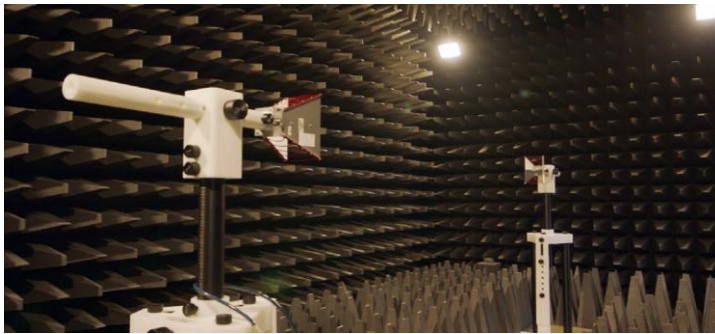
Sound & Vibration



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Calibration items	Equipment Name
Antenna	Dipole, Biconical, Log periodic, Hybrid, Horn, Loop, Monopole, etc.
RF / Electrical	Signal generator, Spectrum analyzer, Multifunction calibrator, Multimeter, etc.
EMS Equipment	Surge, Burst, Dip, ESD, etc.
Conduction Equipment	ISN, CDN, LISN, etc.
EMC Chamber	NSA, SVSWR, etc.
Harmonic / Flicker	Power meter, Power factor, etc.
Sound / Vibration	Microphone, Accelerometer, Sound / Vibration meters & calibrator, etc.
Temperature / Humidity	Temp & Hygrometers, Chamber & Oven, etc.




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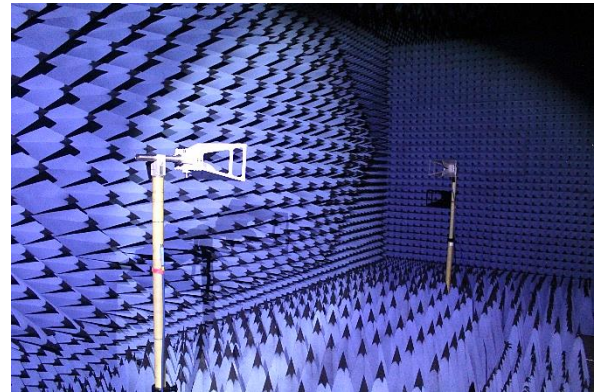
Electricity & Magnetism 

## ✓ Antenna Calibration

ANSI C63.5 / SAE ARP 958 / CISPR 16-1-6

### Antenna Chamber :

Type : Horn Antenna  
 Frequency : (0.7 to 40) GHz  
 Parameter- VSWR, Symmetry, Cross-polarization, etc.



### Open Area Test Site (OATS) :

Type : Dipole, Biconical, Log periodic, Hybrid, Horn Antenna  
 Frequency : (0.02 to 40) GHz  
 Parameter- VSWR, Symmetry, Cross-polarization, etc.

**\*\* NSA Calibration**  
 : Two identical antennas (Factor, Other location SA, GSCF)



### Other Antenna Calibration :

Type : Loop Antenna  
 Frequency : 9 kHz to 30 MHz





Type : Monopole(Rod) Antenna  
 Frequency : 9 kHz to 30 MHz




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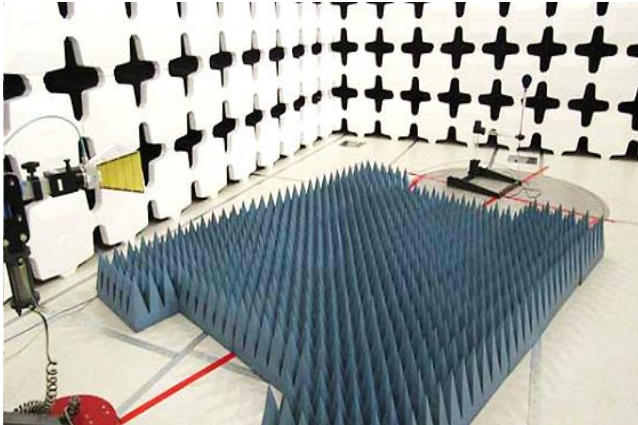
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## ✓ EMC Chamber Calibration



**Normalized Site Attenuation (NSA) : 30 MHz to 1 GHz**  
ANSI C63.4, CISPR 16-1-4

**Site Voltage Standing Wave Ratio (sVSWR) : 1 GHz to 18 GHz**  
ANSI C63.4, CISPR 16-1-4

**Field Uniformity : 80 MHz to 6 GHz**  
IEC 61000-4-3

**Shield Effectiveness : 9 kHz to 18 GHz**  
IEEE 299, MIL-STD-285, EN 50147-1

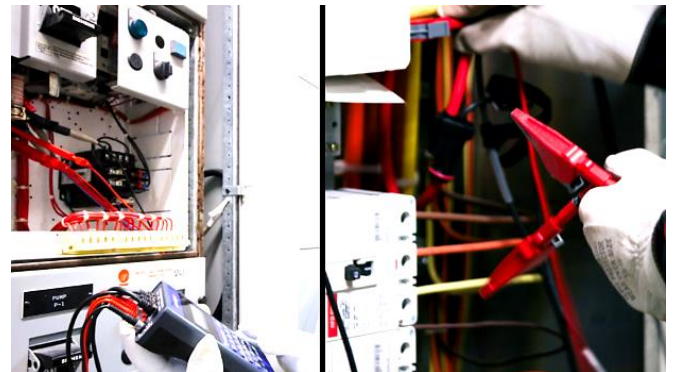
## ✓ On-site Diagnostic Services / Solutions

### Electric Power Quality :

Parameter : Voltage, Current, Power, Frequency, Sag, Notch, Impulse, Interruption, Harmonic, etc.



### Electrostatic Discharge



### Production Process





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## ✓ RF Calibration

### Microwave Equipment Calibration

Type : Spectrum Analyzer, Power meter / Sensor, Network Analyzer, Signal Generator, EMI/EMC Test Receiver, etc.

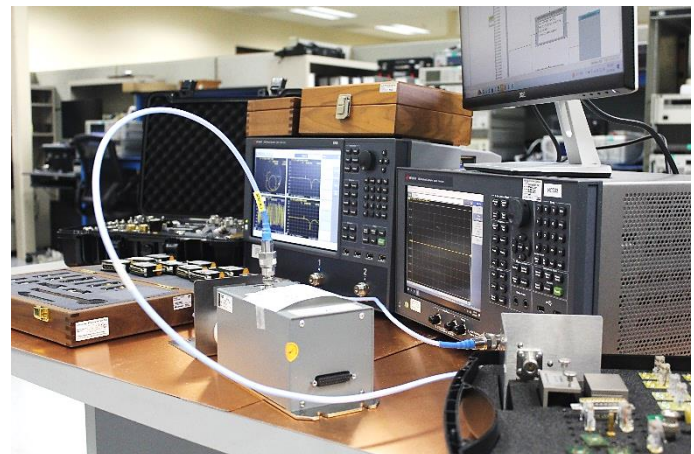
Frequency Range : 3 Hz to 50 GHz



### Impedance, Voltage Division Factor, Insertion Loss :

Type : ISN, CDN, LISN, Probe, EM clamp, etc.

Frequency Range : 3 Hz to 50 GHz







## Providing Tailored Services



As a professional calibrating agency for both testing and certification, we provide tailored services according to your needs. In addition to international standard requirements, our calibration team also accommodates customer specific requests.

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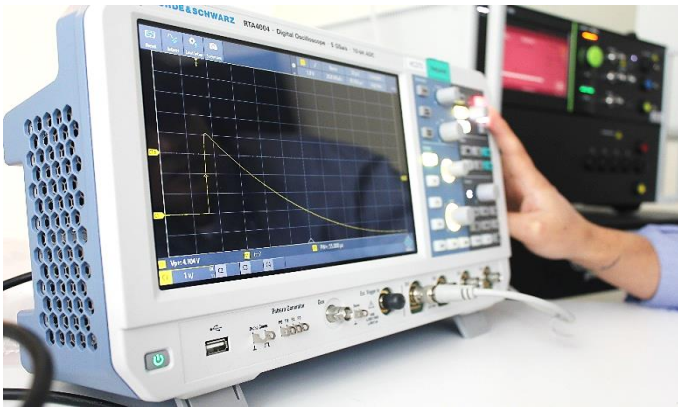


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## ✓ Electric Calibration



### EMS Test Equipment Calibration

Type : Burst, Surge, Dip, ESD, etc.

- Burst : IEC 61000-4-4, ISO 7637-2 to 3
- Surge : IEC 61000-4-5, ISO 7637-2 / 3  
: IEC 61000-4-8 / 9 / 10 / 12 / 18
- Dip : IEC 61000-4-11
- ESD : IEC 61000-4-2, ISO 10605

### Electrical Equipment Calibration


Type : Meter calibrator, Digital multimeter, Oscilloscope, Reference R.L.C, Electronic Load, Power supply, Clamp meter, Leakage tester, LCR meter, etc.


- Voltage Range : Up to 90 kV
- Current Range : Up to 2 kA
- Impedance Range : 1 m $\Omega$  to 1 T $\Omega$ , 1 pF to 1  $\mu$ F,  
100  $\mu$ H to 10 H
- Power Range : 0.01 W to 240 kW
- Harmonic : THD-V, THD-I (0.5 to 20) %
- Flicker :  $P_{st}$  (1 to 4000)cpm: (16 to 10) %
- 3 dB Bandwidth : 50 kHz to 40 GHz




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## ✓ Temperature / Humidity Calibration

### Temperature Measurement / Measuring Equipment

Type : Temperature generator(Dry-Block , Baths),  
Oven, Chamber, Temperature Indicators, etc.

Range : -40 °C to 450 °C

### Humidity Measurement / Measuring Equipment

Type : Relative humidity hygrometer, Transducers,  
Chamber, Hygrothermograph, etc.

Range : 5 %RH to 95 %RH



## ✓ Acoustic / Vibration Calibration

### Acoustics Calibration

Type : Microphones, Sound calibrators / Pistonphones,  
Sound level meters, etc.

Sensitivity : -50 dB to -20 dB (1V/Pa)

Frequency Range : 20 Hz to 16 kHz

Sound pressure Level : 94 dB to 134 dB

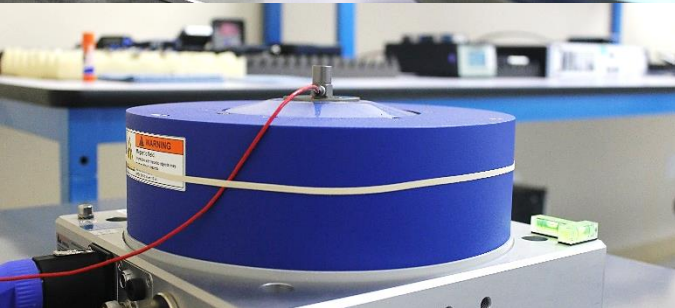
### Vibrations Calibration

Type : Accelerometers, Vibration meters,  
Vibration Measure & Measuring equipment

Sensitivity : (0.001 to 1000) mV/(m/s<sup>2</sup>)

Frequency Range : 3 Hz to 10 kHz


Parameter : Acceleration, Displacement, Velocity,  
Frequency, etc.




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## ✓ Dimensional Calibration

### Equipment Calibration

Type : Angle gauges / Bevel protractors  
Range : Up to 360 °

Type : Calipers / Caliper gauges, Height gauge /  
Measuring machines, Micrometers  
Range : Up to 40 in

Type : Cylinder / Bore gauges  
Range : Up to 32 in

Type : Depth gauges  
Range : Up to 24 in

Type : Dial / Test indicators / Digital indicators  
Range : Up to 4 in

Type : Feeler gauges  
Range : Up to 0.2 in



## ✓ Mechanical Calibration

### Equipment Calibration

Type : Pressure & Vacuum.  
Range : (-12 to 300) psi

Type : Torque – Measure  
Range : (0.1 to 2500) N·m

Type : Scales & Balances  
Range : 1 mg to 230 kg



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**HCT America, Inc.**

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