

## NTS Facility Spotlight: Silicon Valley, California

Specialists in EMC | Wireless | Product Safety | Environmental Services



Radiated Emissions testing conducted in our 10-meter semi-anechoic chamber.



Our Product Safety experts help manufacturers minimize the time requirements for product listings with UL, TUV, and CSA.



As a Verizon-certified ITL, NTS Silicon Valley is highly experienced in NEBS compliance testing.

### About NTS Silicon Valley (formerly Elliott Laboratories)

NTS Silicon Valley encompasses two compliance testing laboratories in the San Francisco Bay Area. These two state-of-the-art facilities represent the model for today's modern compliance laboratory, equipped with every amenity a client might need. Our 27,000 square foot testing center in Fremont, CA, completed in 2003, boasts one 10-meter and three 5-meter anechoic chambers and a full suite of immunity labs, work areas, equipment storage lockers and supporting facilities. Our 30,000 square foot testing center in Newark, CA is a Climatic, Environmental and Dynamics Product Testing Laboratory that houses a wide range of state-of-the-art testing equipment and services such as shock and vibration testing, thermal stress and extreme environment simulation. The facility caters to many different industries ranging from Aerospace and Defense to Telecom and Medical.

### Engineering Services

NTS Silicon Valley is a world-class product compliance laboratory providing a full range of services, including Electromagnetic Compatibility (EMC), Product Safety and Wireless testing and consulting. With over 25 years of experience servicing the needs of product designers and manufacturers, we help our clients save time and money by achieving their compliance requirements quickly and efficiently, enabling them to bring products to market without costly delays. From design-level consultation, to pre-compliance testing, formal qualification testing services, finished product modifications, production sampling, international approvals management, field problem resolution and more. NTS Silicon Valley is the "one stop shop" for all of your compliance needs.

### Approvals & Accreditations

NTS Silicon Valley is internationally accredited to ISO/IEC 17025 by A2LA for an enormous list of standards for EMC, Product Safety, Wireless, NEBS/Bellcore, Environmental and Dynamics. Our EMC testing and certification services cover North America, the EU, Japan, Australia, Taiwan and South Korea. We also provide a wide range of Product Safety testing and approvals services for manufacturers seeking CE certifications, CB reports and listings with UL, TUV and CSA. Wireless services include RF and DFS testing and certifications for North America via our TCB/CCB status. We also provide radio testing & approvals services for the EU, South Korea, Australia and Taiwan. As a Verizon-certified Independent Test Lab, NTS Silicon Valley provides the highest quality NEBS testing services to manufacturers of Telecom/ITE equipment.

### About NTS

National Technical Systems is a trusted partner that helps organizations to access domestic and international markets. We are your single source for a full range of integrated engineering solutions, product testing, standards compliance, project management, and managed services. Globally accredited by leading regulatory agencies, NTS can provide cost-effective programs to meet your requirements – at your site, or at one of our many US or international facilities. NTS is the nation's largest independent standards compliance and product testing company, serving companies within the aerospace, defense, automotive, wireless and telecommunications, electronics, energy, medical device, software, and hardware markets.



Temperature testing conducted in our Environmental and Dynamics laboratory



Our walk-in temperature and humidity chamber can accommodate larger product dimensions



The NTS Silicon Valley staff is ready to help you achieve your compliance objectives!



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## Highlights and Primary Test Specifications

### EMC / EMI

- ▶ 10-meter, 5-meter and 3-meter anechoic and semi-anechoic test chambers
- ▶ 40GHz radiated emissions testing capabilities
- ▶ Full suite of Immunity testing labs: RF Immunity, Surge, Electrical Fast Transient (EFT), ESD, Surge, Magnetic Immunity, VDI
- ▶ 24-hour testing capabilities for high throughput
- ▶ Dedicated Project Managers and Project Engineers
- ▶ Approvals held for ITE, Telecom, Radio, Medical, Test and Measurement, Audio/Video and Consumer Electronics product types
- ▶ International Certification services to help manufacturers acquire product approvals

### Product Safety

- ▶ Strategic relationships with UL, TUV and CSA
- ▶ In-house Product Safety lab for agency-witnessed testing programs
- ▶ Preliminary construction review and testing services
- ▶ Ability to issue CE certification reports
- ▶ Approvals held for ITE, Test and Measurement, Audio/Video, Radio, Telecom, Consumer Electronics and certain Medical device types

### Wireless

- ▶ RF regulatory testing
- ▶ Dynamic Frequency Selection (DFS) testing
- ▶ FCC-designated Telecommunications Certification Body
- ▶ Wi-Fi, RFID, Bluetooth, ZigBee and other wireless capabilities
- ▶ Extensive Wireless Consulting Capabilities
- ▶ Approvals held for a wide range of domestic/international wireless testing standards

### NEBS Testing

- ▶ Verizon-certified Independent Test Lab
- ▶ NEBS test report templates to meet all RBOC requirements
- ▶ Telcordia Telecom Related GR-XX-CORE testing
- ▶ Full range of NEBS testing capabilities coast-to-coast through NTS network

### Environmental

- ▶ Large selection of temperature/humidity chambers from 2' x 2' x 2' to 18' x 12' x 12' walk-in chambers
- ▶ Specialty chambers include: temperature/altitude up to 80,000 ft, acoustic noise, salt fog, corrosion, fire resistance, HALT/HASS, and T-Shock
- ▶ Testing to MIL-STD 810, MIL-STD 202, RTCA DO 160, ISTA, ASTM, NEMA, GR 13-CORE, GR 49-CORE, GR 63-CORE, GR 487-CORE, GR 937-CORE, GR 3115-CORE, UL 50, UL 94, ETSI 300-019-xx, IEC 60068-2-xx

### Dynamics

- ▶ GR 63-CORE, UL 50, ETSI 300-019-xx, IEC 60068-2-xx
- ▶ Electrodynamics shaker systems: up to 2" stroke, 9,000–12,000 force pounds, 5Hz–2,000Hz, Mechanical Shock
- ▶ Seismic system: 10.5" stroke, 15,000 force pounds, 0.6Hz–500Hz
- ▶ Seismic testing to GR 63-CORE Zones 1–4
- ▶ Up to 14 channels response, data acquisition, and analysis; Static and dynamic load
- ▶ Testing to MIL-STD 810, MIL-STD 202, RTCA DO 160, ISTA, ASTM, GR 13-CORE, GR 63-CORE, GR 487-CORE, UL 50, ETSI 300-019-xx, IEC 60068-2-xx