

On-Site Calibration

Anechoic chamber evaluation (NSA / SVSWR), consulting, countermeasure and calibration for measurement equipments (Receiver / Spectrum Analyzer / AMN, etc) on site total evaluation / calibration service by third party. We have many experiences of these services by visiting actual client's places internationally.

1. Periodic Calibration for Site characteristic and Countermeasure / Consulting

- ① High repeatability and High accurate Ref data by antenna setting by laser marker and Double antenna mast
- ② High speed/precision sweep measurement by high performance equipments, expert engineer and technical knowledge
- ③ Consulting for optimum floor absorber layout/antenna/reflection material for each measurement
 - 30~1000MHz NSA: CISPR16-1-4(2007) Sec 5.7/CISPR 22(2005), ANSI C63.4(2003), VCCI(2010)
 - 1~18GHz SVSWR: CISPR16-1-4(2007) Sec 8, VCCI(2009)
 - 30MHz~18GHzFACNSA: CISPR16-1-4(2007) Sec 5.8 small Bi-con / LPA
 - 1GHz~40GHzFACNSA: ETSI TS 102 321(2004) Sec 6.4, 6.5, 6.6
 - FACTermination VSWR: Std for wireless products300 328/EN301 895
 - 80MHz~18GHz Uniformity: Radiated immunityIEC61000-4-3(2006)



SVSWR Measurement
Low reflection:0.2dB
Mobile antenna styrene foam
basement

2. Measurement equipments calibration

- ① High performance calibration by A2LA approved calibration system for ISN with the latest VCCI spec, Power analyzer including Pst / PWH / inter harmonic.
 - ISN(CISPR22 Ed.5), AMN(CISPR/MIL), CDN, EFT Burst / Surge
 - Power analyzer : Pst / Harmonic current / Power / PF, RIN, CVCF
 - Test receiver / Spectrum analyzer / Network analyzer complying to CISPR
 - Oscilloscope, SG, multi meter, Power / pre amp, Current probe / Injection probe, etc
- ② NIST tracable antenna calibration (cooperated with Liberty Lab) with high accurate antenna setting in high repeatability 10m chamber, and providing multi frequency points data by sweep method.
 - Antenna factor for EMI measurement : 30MHz~2GHz
ANSI C63.5(2006) Free space factor, NSA factor, SAE factor for Auto motive equipments : Bi-con / LPA / Bi-Log
 - Horn antenna : 1~18~40GHz, MIL loop sensor / loop antenna : 10Hz~30MHz
 - Radiation pattern for Each antenna / POD / special antenna
30MHz~18GHz / Auto sweep measurement with $\geq 1^\circ$ step, Providing CSV data and Excel Chart for proper frequency points 1 ~ 4m Height pattern measurement with proper angle
 - Each Electriv sensor : 10kHz~18GHz 200V/m, Isotropic Pattern
 - EMI clamp, ESD test equipment(Ed.2)

3. Calibration for measurement system and Countermeasure / Consulting

- Cable loss / Pre amp calibration together with measurement system calibration
- Consulting for cable / pre amp best choice and setting in order to reducing floor noise
- Shield characteristic evaluation and consulting for conduction noise

Calibration Report with 17025 comments is issued.

In case Report with A2LA Logo is requested, it will be issued through S&A ltd (Tel. +81-45-500-1280).