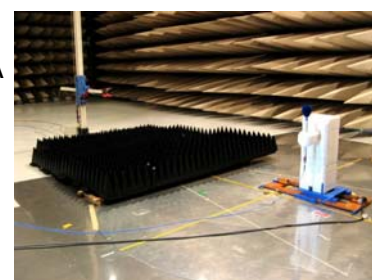


On-Site Calibration

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 to do this by business trip bases internationally for India, Thai, China, Korea and Taiwan etc.

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~18GHz FACNSA: CISPR16-1-4(2007) Sec 5.8 small Bi-con / LPA
 - 1GHz~40GHz FACNSA: ETSI TS 102 321(2004) Sec 6.4, 6.5, 6.6
 - FACTermination VSWR: Std for wireless products 300 328/EN301 895
 - 80MHz~18GHz Uniformity: Radiated immunity IEC61000-4-3(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 / PWHF / 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 traceable 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 Electric 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).

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