

Attachment:
Basic Requirements for Designated Testing Laboratories for EMC Testing Categories

Testing Category	Standard	Basic Requirements	Reference
I. Industrial, Scientific and Medical Instruments	CNS 13803 (CISPR 11) CNS 13804 (CISPR 19)	1A. Class A equipment: A 10-meter or larger open area test site or semi-anechoic chamber is required. 1B. Class B equipment: A 10-meter open area test site or semi-anechoic chamber is required. 1C. On-site test: Mobility of testing equipment is required. (Note 1) 2. Conducted emission test site. 3. Documentation requirements: a. Introduction to the testing laboratory; b. Description of the test site; c. Geographic location and photographs; d. Equipment list; e. Data of test site attenuation characteristics; f. Shielding room layout and photographs; and g. Measurement data of the background noise. 4. Basic equipment: a. Test receiver and/or spectrum analyzer; b. Line impedance simulating network (LISN); c. Antenna; and d. Signal generator (for ERP test).	CNS 13306-1 (CISPR 16-1) CNS 13306-2 (CISPR 16-2) ANSI C63.4
II. Information Technology Equipment	CNS 13438 (CISPR 22)	1A. Class A equipment: A 10-meter open area test site or semi-anechoic chamber is required. 1B. Class B equipment: A 10-meter open area test site or semi-anechoic chamber is required. 1C. On-site test: Mobility of testing equipment is required. (Note 1) 2. Same as point 2 of Testing Category I.	CNS 13306-1 (CISPR 16-1) CNS 13306-2 (CISPR 16-2) ANSI C63.4

		3. Same as point 3 of Testing Category I. 4. Same as point 4 of Testing Category I. (except signal generator)	
III. Broadcast Receiver and Associated Equipment	CNS 13439 (CISPR 13) (TV set, Video recording or reproducing apparatus)	1. A 3-meter open area test site or semi-anechoic chamber is required. 2. Same as point 2 of Testing Category I. 3. Same as point 3 of Testing Category I. 4. Basic equipment: a. Test receiver (150KHz – 1.75GHz); b. Spectrum analyzer (30MHz – 1.75GHz); c. Line impedance simulating network; d. Antenna; e. TV pattern generator; and f. Matching network (50Ω/75Ω)	CNS 13306-1 (CISPR 16-1) CNS 13306-2 (CISPR 16-2) ANSI C63.4
	CNS 13439 (CISPR 13) (Radio receiver)	1. A 3-meter open area test site or semi-anechoic chamber is required. 2. Same as point 2 of Testing Category I. 3. Same as point 3 of Testing Category I. 4. Basic equipment: a. Test receiver (150KHz – 1GHz); b. Spectrum analyzer (30MHz – 1GHz); c. Line impedance simulating network; d. Antenna; e. Signal generator with function for AM/FM modulation; f. CW signal generator; and g. Matching network (50Ω/75Ω).	CNS 13306-1 (CISPR 16-1) CNS 13306-2 (CISPR 16-2) ANSI C63.4
IV. Household Electrical Appliances	CNS 13783-1 (CISPR 14-1)	1. Absorbing clamp test site. 2. Conducted emission test site. 3. Documentation requirements:	CNS 13306-1 (CISPR 16-1) CNS 13306-2 (CISPR 16-2)

		<ul style="list-style-type: none"> a. Introduction to the testing laboratory; b. Description of the test site; c. Geographic location and photographs; d. Equipment list; and e. Shielding room layout and photographs; 4. Basic equipment: <ul style="list-style-type: none"> a. Test receiver and spectrum analyzer; b. Line impedance simulating network; c. Discontinuous disturbance analyzer (optional); and d. Absorbing clamp. 	ANSI C63.4
V. Luminaries	CNS 14115 (CISPR 15)	<ul style="list-style-type: none"> 1. Conducted emission test site. 2. Magnetic field test site. 3. Same as point 3 of Testing Category IV. 4. Basic equipment: <ul style="list-style-type: none"> a. Test receiver and spectrum analyzer; b. Line impedance simulating network; and c. Triple-loop antenna. 	CNS 13306-1 (CISPR 16-1) CNS 13306-2 (CISPR 16-2) ANSI C63.4

Note 1: The scope of equipment to which on-site test is applicable will be determined by the EMC Technical Committee of the BSMI.