

Attachment:

Basic Requirements for Designated Testing Laboratories for EMC Testing Categories

Testing Category	Standard	Basic Requirements	Reference
<p>I. Industrial, Scientific and Medical Instruments</p>	<p>CNS 13803 (CISPR 11) CNS 13804 (CISPR 19)</p>	<p>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).</p>	<p>CNS 13306-1 (CISPR 16-1) CNS 13306-2 (CISPR 16-2) ANSI C63.4</p>
<p>II. Information Technology Equipment</p>	<p>CNS 13438 (CISPR 22)</p>	<p>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.</p>	<p>CNS 13306-1 (CISPR 16-1) CNS 13306-2 (CISPR 16-2) ANSI C63.4</p>

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

		<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.