

The Outline of Proposed Amendment to Ministerial Ordinance

1 Item

Partial amendment of Regulations for Enforcement of the Radio Law

2 Amendment to ministerial ordinance

Regulations for Enforcement of the Radio Law

Regulations for Radio Equipment

Concerning Technical Regulations Conformity Certification of Specified Radio Equipment

3 Reasons for amendment

There is an increasing demand in 920MHz band for use of existing high power type passive electronic tag systems outside the factory, and review of transmission time limit for advanced active low power systems.

To meet the demand, we make amendments of technical regulations such as transmission time and establish of land mobile stations are required to promote the development of low power radio systems of 920 MHz band.

4 Outline of the amendment

Technical requirements of radio equipment (Red underlined character is amended)

○Technical requirements of Passive tag system 【Excerpt】

	<u>Land mobile station (Licensed Radio Station)</u>	<u>Land mobile station (Registered Radio Station)</u>
<u>Frequency band</u>	<u>916.7~920.9MHz</u>	
<u>Unit channel</u>	<u>916.8、918.0、919.2、920.4MHz</u>	<u>916.8、918.0、919.2、920.4、920.6、920.8MHz</u>
<u>Tolerable occupied bandwidth</u>	<u>200kHz</u>	<u>200kHz×n (n=1~3)</u>
<u>Equivalent</u>	<u>36dBm</u>	

<u>Isotropic Radiated Power</u>		
<u>Antenna Power</u>	<u>1W(max)</u>	
<u>Antenna gain</u>	<u>6dBi or less (When EIRP is less than 36dBm, antenna gain is able to make up for that gain.)</u>	
<u>Carrier sense level</u>	—	<u>-74dBm</u>
<u>Carrier sense time</u>		<u>5ms or more</u>
<u>Transmission time</u>		<u>4 s</u>
<u>Stop time after transmission time</u>		<u>50ms or more</u>
<u>Allowable deviation of frequency</u>	<u>$\pm 20 \times 10^{-6}$ or less</u>	

○Technical requirements of Active tag system 【Excerpt】

	20mW(max)
Transmission time	<p>【Carrier sense time : 5ms or more】</p> <p>Transmission time : 4s or less</p> <p>Stop time after transmission time : 50ms or more</p> <p>【Carrier sense time : 128μs~less than 5ms】</p> <p>Transmission time : 400ms or less</p>

	<p>Stop time after transmission time : 2ms or more</p> <p>Transmission time (total) : 360s/h or less</p> <p><u>※Only when switching multiple channels, Transmission time is less than 720s/h per a sending device and 360s/h per a unit channel.</u></p> <p>※The time for ACK which is the time when the system starts the transmission within 2ms after receiving the requirement and finishes the transmission within 5ms (50ms for systems using one unit channel) after receiving requirement is not included the total transmission time.</p>
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5 Proposed date of entry into force

November, 2018