

The proposed method for monitoring the serviceability of the phase scanning channel of a phased antenna array consists in short-circuiting all the oscillators in the antenna aperture, applying a control signal to the input of the transmission channel, measuring the amplitude of the corresponding reflected signal at the input of the receiver, changing the phase of the control signal by 90 degrees, again measuring the amplitude of the reflected signal, comparing the said two amplitudes of the reflected control signals, and determining the serviceability of the phase scanning channel by the comparison results. The present invention provides a possibility to enhance the monitoring reliability due to the use of a single short-circuiter in the phase scanning channel as well as the operations of changing the phase of the control signal and comparing the amplitudes of the corresponding reflected signals.