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DESCRIPTORS: \*Frequency multipliers, \*Phase  
measurement, Frequency shift, Stability.

A method is proposed for investigating experimentally  
the phase stability of frequency multipliers. This tech-  
nique makes it possible to detect and measure the  
widening of spectrum lines resulting from fast random  
variations in multipliers and determine systematic  
phase losses resulting from slow variations of circuit  
parameters. Relative frequency shift of  $\pm 10^{-11}$  to  
 $\pm 5 \times 10^{-15}$  due to a slow variation of circuit param-  
eters was measured in preliminary experiments.  
(Author)

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