

METHODS OF DETECTING DEFECTS IN RADIO ELECTRONIC DEVICES

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Annotation:

With the increase in the number of electronic devices, their tasks became more complex, and the range of services provided increased. Many radio tools must work together to provide one or more services. Accordingly, interference in the radiation radio receiver interferes with the correct reception of the signal, affects the circuit of the radio receiver, and also violates the signals during transmission of radio waves. The article discusses the causes and causes of problems arising from electromagnetic interference in most communication facilities, industry and industry of the republic

Keywords: *electromagnetic conditions, electronic devices, industrial radio interference, high-frequency devices, ferrites, permalods, shielding.*

Introduction.

In recent days in the country, including in Samarkand region, a lot of work is carried out to improve the quality of mobile communications and mobile Internet. Certain work is being carried out to improve coverage of all generations of mobile communications (2G, 3G, 4G), from densely populated urban areas to remote regions, in order to provide quality communication services to the population. As in any industry, this industry has its own problems and challenges, which are difficult to solve

Main part.

Due to the high demand for mobile communications of the population, especially our entrepreneurs, the production facilities of most entrepreneurs work in the basement or the first floors of multi-storey modern houses, i.e. in rooms with bars on the outside windows, preventing the penetration of mobile signals. That is why the installation of repeaters that amplify cellular signals, imported by most of our entrepreneurs, not having a certificate of compliance (often made in China), creates interference to the antennas of mobile operators, leading to a deterioration of mobile and mobile Internet quality

Such faulty repeater devices interfere with the connection of other mobile devices by generating negative emissions on all mobile phone channels without amplifying the signal of the required working channel

“MobiUz” Limited has received several complaints about this. Based on the complaints received, a joint investigation was conducted to determine the operability of the repeater devices. As a result, warnings were issued to owners of repeaters that negatively affected the quality of mobile communications.

Despite the warnings, some of our entrepreneurs say: "I bought and installed this device with my own money, I'm not going to turn it off, if I have to turn it off, bring another device instead"



Picture-1. Repeated devices that emit radiation that has an adverse effect on the practice.

In order to positively address the issue and improve the quality of mobile communications, mobile Internet, together with the Samarkand regional office of the State Inspectorate for Information and Telecommunication Control, raids were carried out to suppress the work of relay devices that negatively affect the quality of communication. In this connection, we would like to appeal to our people!



Pictures 2. Incorrect retransmission system in the antenna installed

With the smart home system, you can control all types of lighting in on/off or dimming mode, choosing the interface that is most convenient for you (a simple button or a remote interface, such as a smartphone or remote control). You can specify which lights or groups of lights should be turned on or off, as well as at what time of day the lights should be turned on. You can also set different "scenes" (the first light at 100% brightness, the second at 50% and the third at 20%) or lighting profiles (light at 70% for an hour, then at 40% for 25 minutes, then at 15% for 5 minutes...). You can also use another feature for the same purpose, since your home wireless network knows your location, since your smartphone is always with you. So when you approach the house, the light in the hallway will turn on automatically, without you having to turn it on from your phone.

Literature used.

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