









waveform application in audio or data mode. The audio and data modes are implemented as separate waveforms but they share some of the components. Each waveform implements the full receive and transmit chain (in loopback mode), therefore the waveforms can be run and tested on a single computer. Results of SDR by using fm3tr waveform as shown in fig 10. In this we take cpsk signal

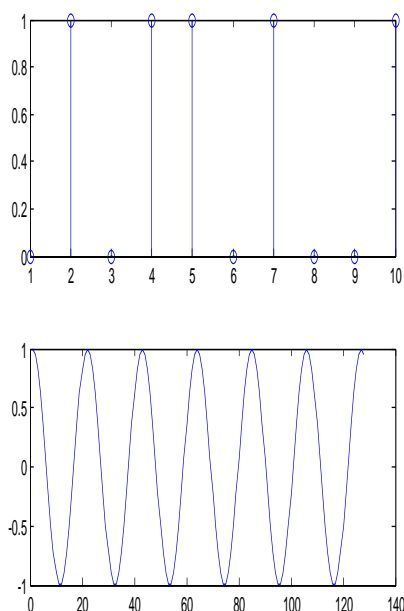


Fig 10 CPFSK signal

## VI. CONCLUSION

In the SDR the main tool used for achieving the waveform portability is Software Communication Architecture (SCA) which is developed by Joint Tactical Radio system (JTRS) in USA. The function of each layer in the SCA Operating Environment (OE) was studied. Then for showing the waveform portability in the SDR compare to Digital Radio integrated complex source code, the waveform for SDR was developed using SCA OE, the new version waveform called **Future Multiband Multiwaveform Modular Tactical**

**Radio (FM3TR)** waveform was developed by using the MERCURY tool in the SCA operating environment.

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