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| Lab-09 |
| *9* | *LTE Sniffer (openLTE)* |
| **Advanced Wireless Lab** |
| TLEN 5830-AWL |
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1. Clone the GitHub openLTE repository.

NOTE - It is necessary (required) to have GNURadio, UHD, GrOsmoSDR installed on your system prior to installing the openLTE.

Install openLTE.

1. Generate the bin file and use the same file to scan the channel.
2. Simulate the following operations utilizing openLTE:

* file generation
* file scanning
* downlink scan
* recorder
* eNodeB using openLTE.

NOTE- The first two operations do not require an SDR. But the remaining ones require USRP B210.

1. Perform the following investigations:

* Observe the various parameters which can be defined as part of generating the bin file
* Understand the role of the different parameters. Make appropriate changes in the parameters (w.r.t bandwidth, cell ID, frequency band, etc.) and observe the output of the scanning operation.
* Include screenshots and any observations to document successful operation and output