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| Lab-11 |
| *11* | *USRP B210 with MatLab* |
| **Advanced Wireless Lab** |
| TLEN 5830-AWL |
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This exercise implements the integration of the B210 with the LTE system toolbox. Make sure that Communication System Toolbox – USRP is installed.

1. Transmit the System Information Block 1 (SIB1) over the two antennas of the first B210 SDR.
2. Implement the Reference measurement Channel 13(R.13) as part of eNodeB structure.
3. Implement the recovery of the SIB1 on the second B210 SDR. Mention the steps involves in the process.
4. Include the related screenshots and the math file.

NOTE - Both the codes need to be run simultaneously on two separate PCs. Additional details regarding the transmission and recovery objectives can be found in the ‘Communications System Toolbox Support Package for USRP® Radio Examples’ section in MathWorks website.