Using the DfuSe Demo program on a bricked radio
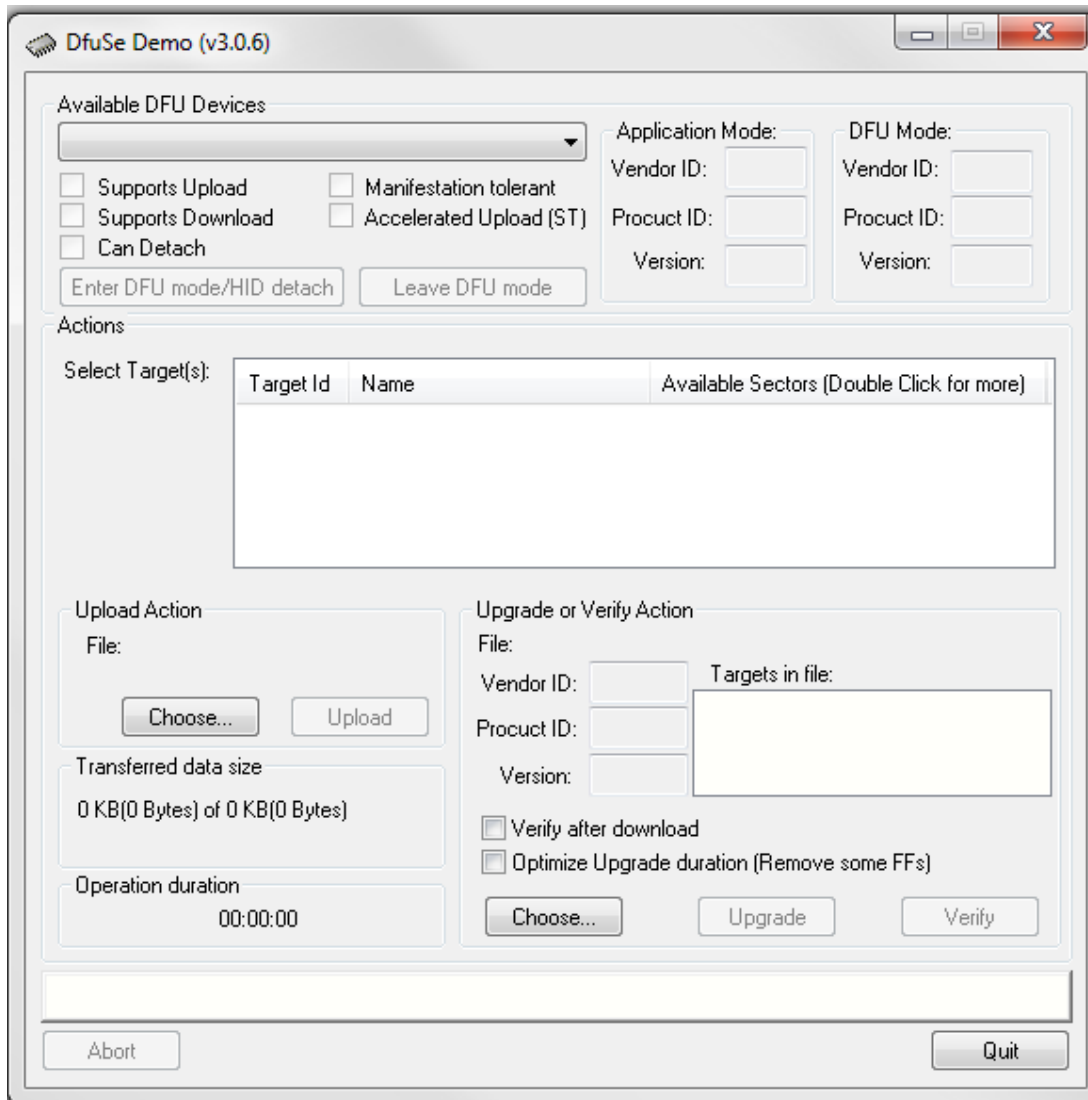
Summary

This document provides step-by-step instructions for using the DfuSe Demo program to unbrick a radio. It involves connecting the radio to a computer, installing the DfuSe Demo program, and using it to upload firmware files to the radio. The process includes selecting and loading specific firmware files, verifying them, and upgrading the radio's program memory with the M17 program and the bootloader. After completing these steps, the radio should be turned off and then programmed using Factory Tool M17 PLUS DMR to load in the DMR program as described in a separate guide.
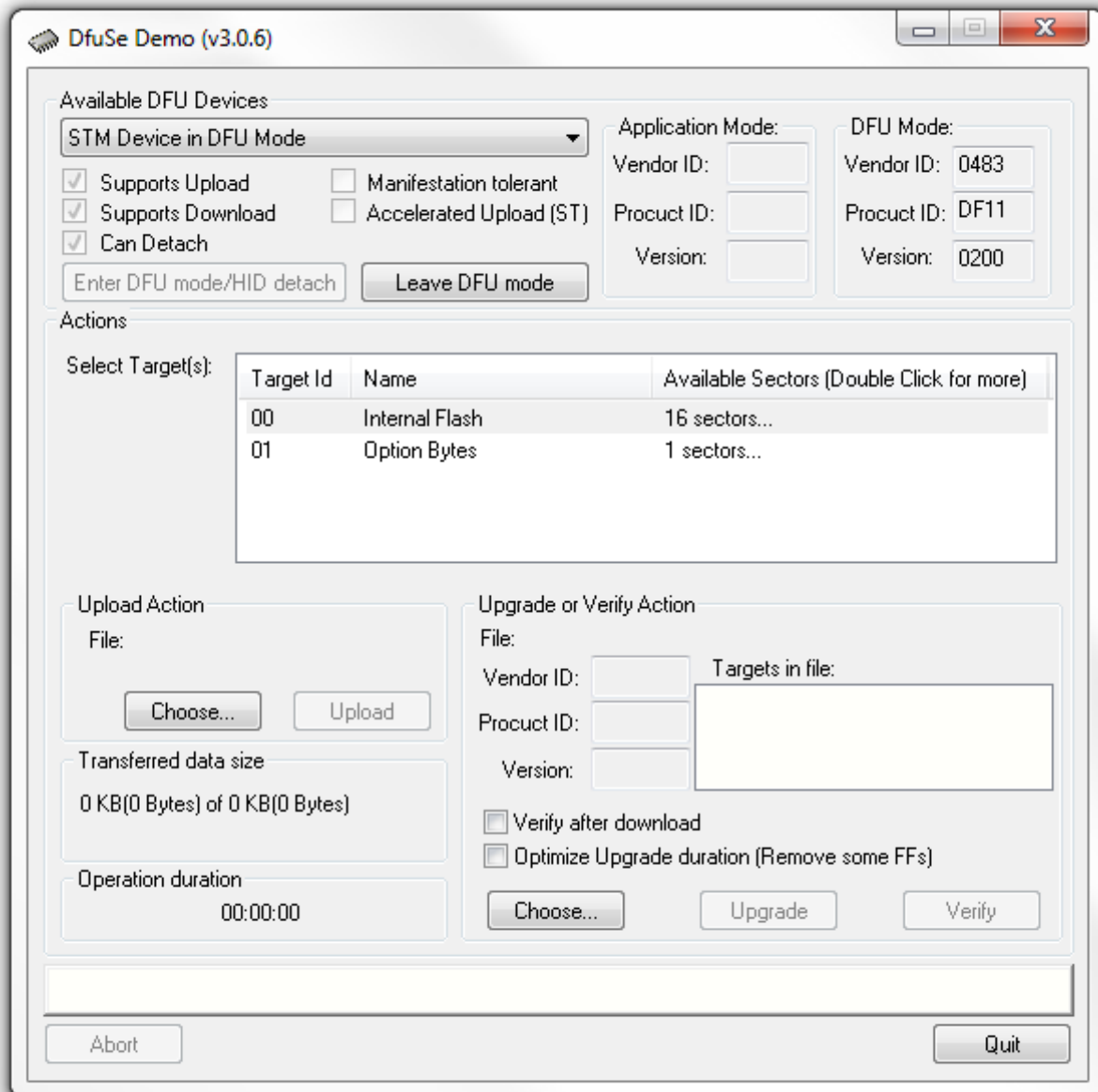
Detailed Instructions

Install the DfuSe Demo Program along with its associated driver. You should then have on your desktop a shortcut that looks as follows:
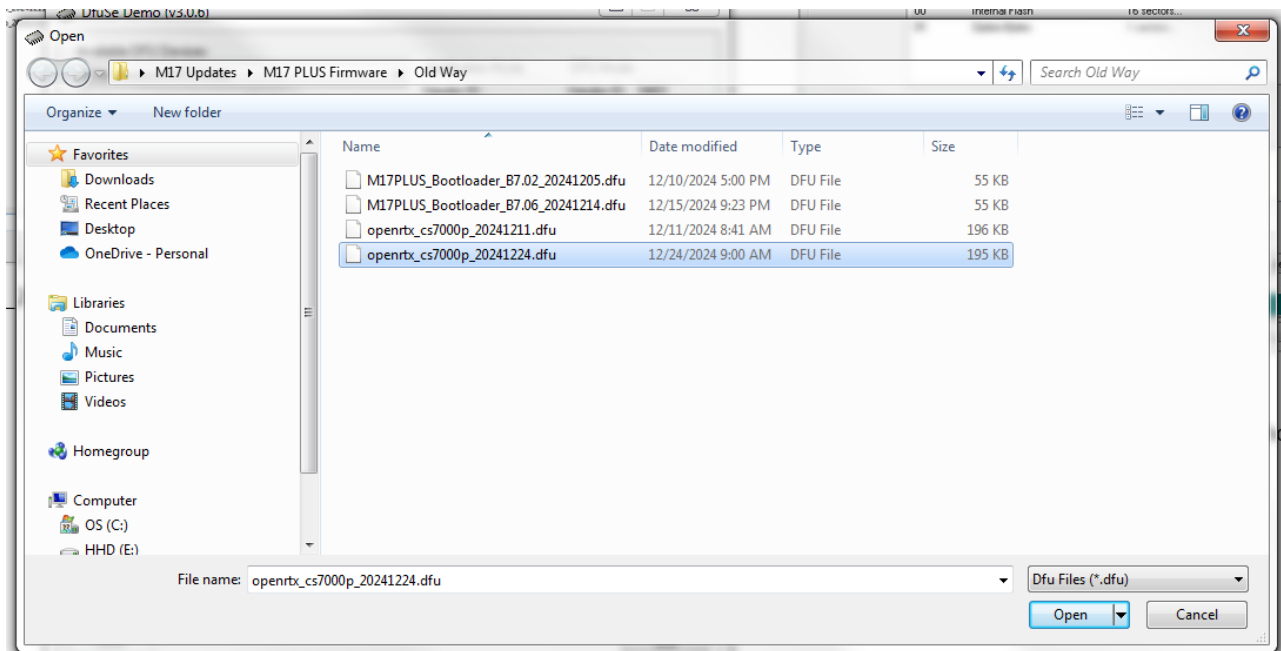
Start by double clicking on the DfuSe Demo program shortcut and you
should get a screen that looks like the following:

Connect the radio to the computer with the programming cable. Press the SK1 button on the side of the radio then turn on the radio. You should see the following screen on the radio:
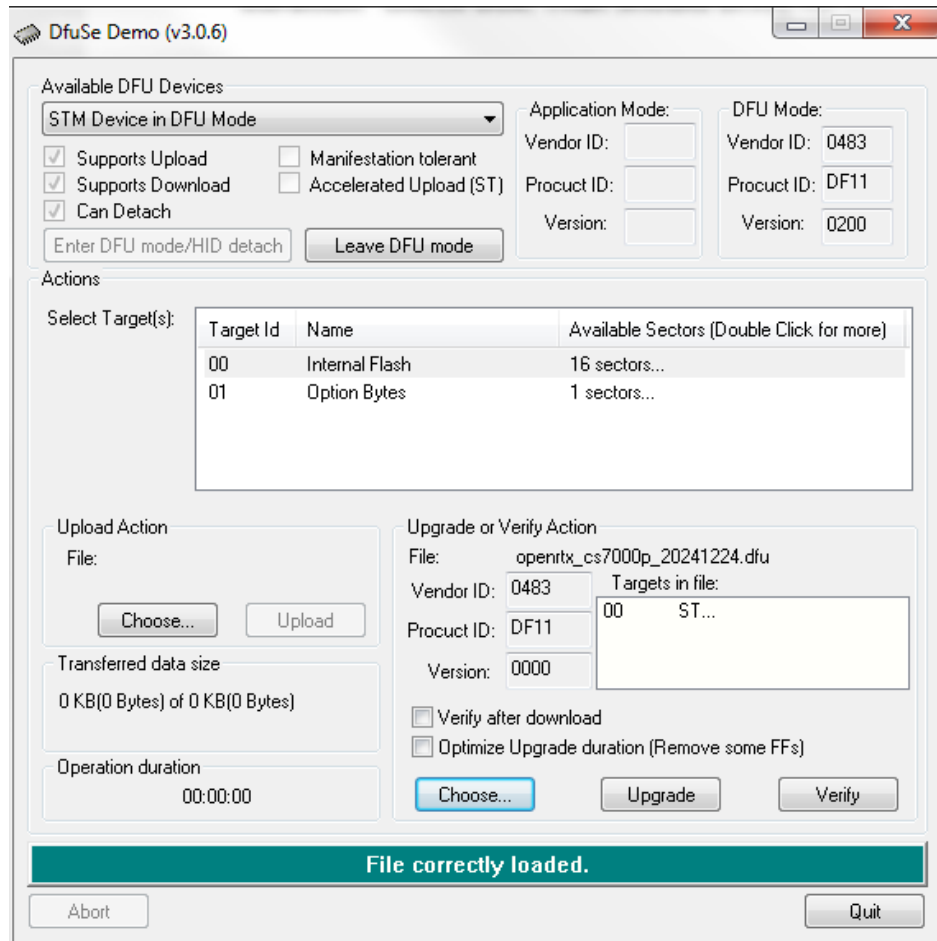
Press the "Choose" button just below the "Optimize Upgrade duration" check box. That should bring up the following box:
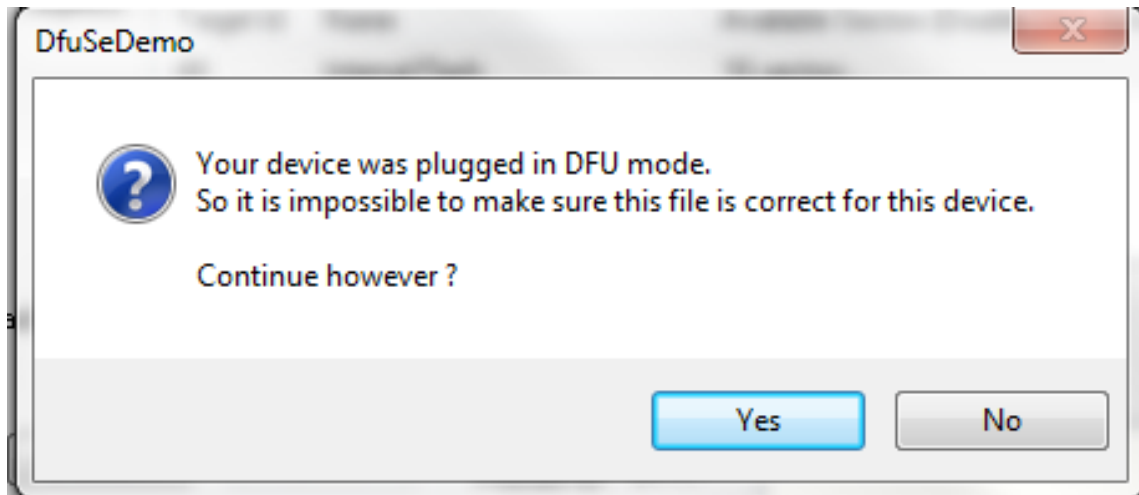

Select the openrtx_c7000p_20241224.dfu or a later version.
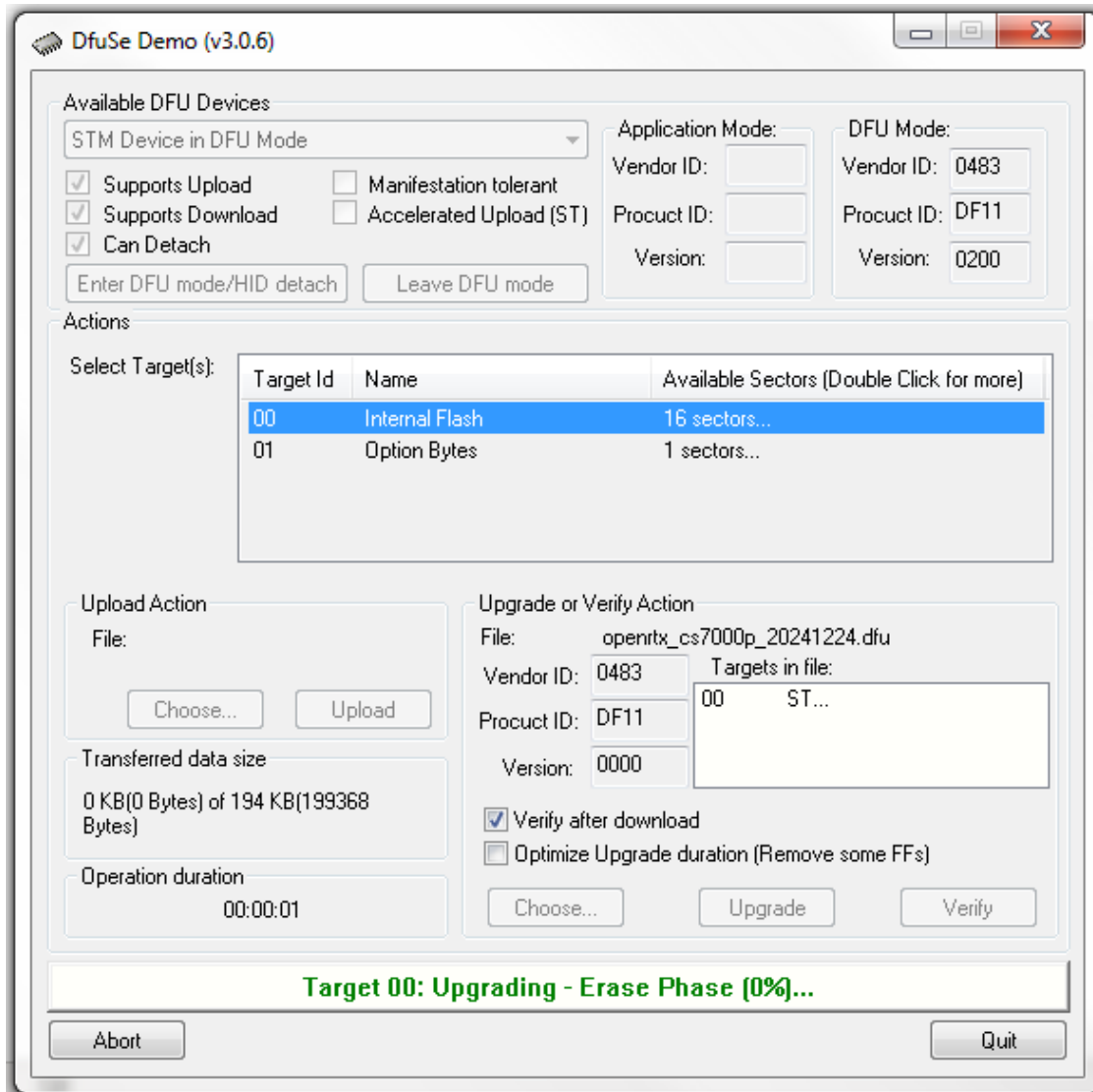
Press the "Open" button. You should now get:

Notice the file name is on the screen and the display shows "File correctly loaded

Click on the "Verify after download" checkbox and then press the "Upgrade Button". The display should now show:
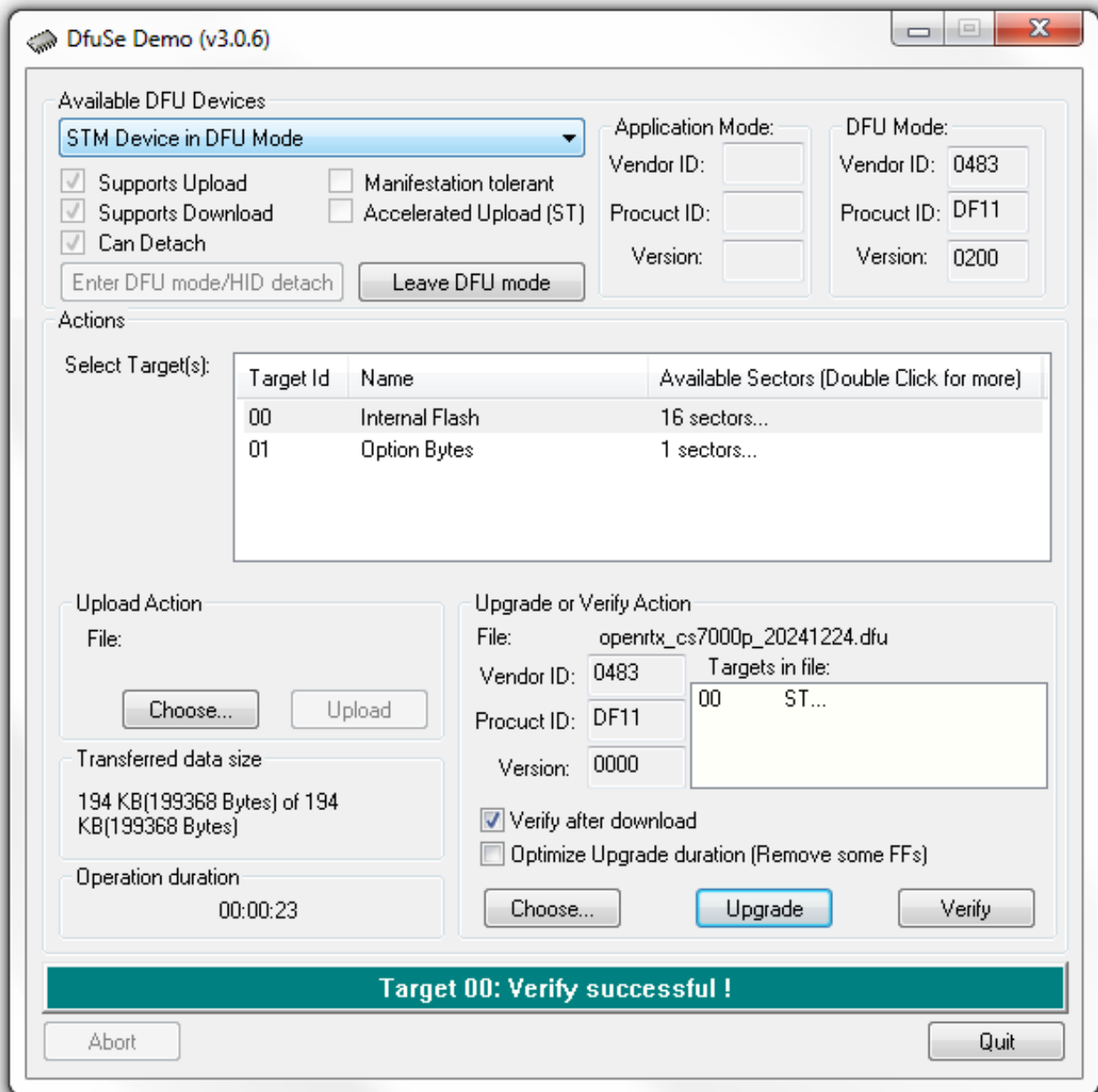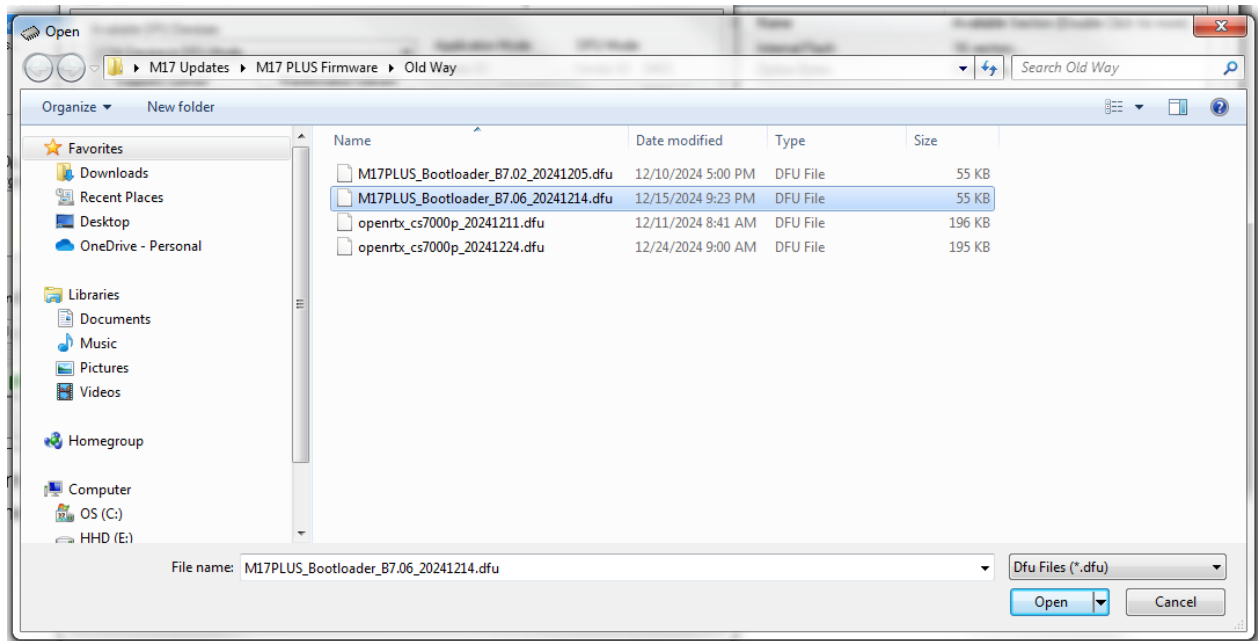
Press the "Yes Button" and you should see:

The program is first going to erase the Program Memory, then it is going to program the program memory and then it will verify it.

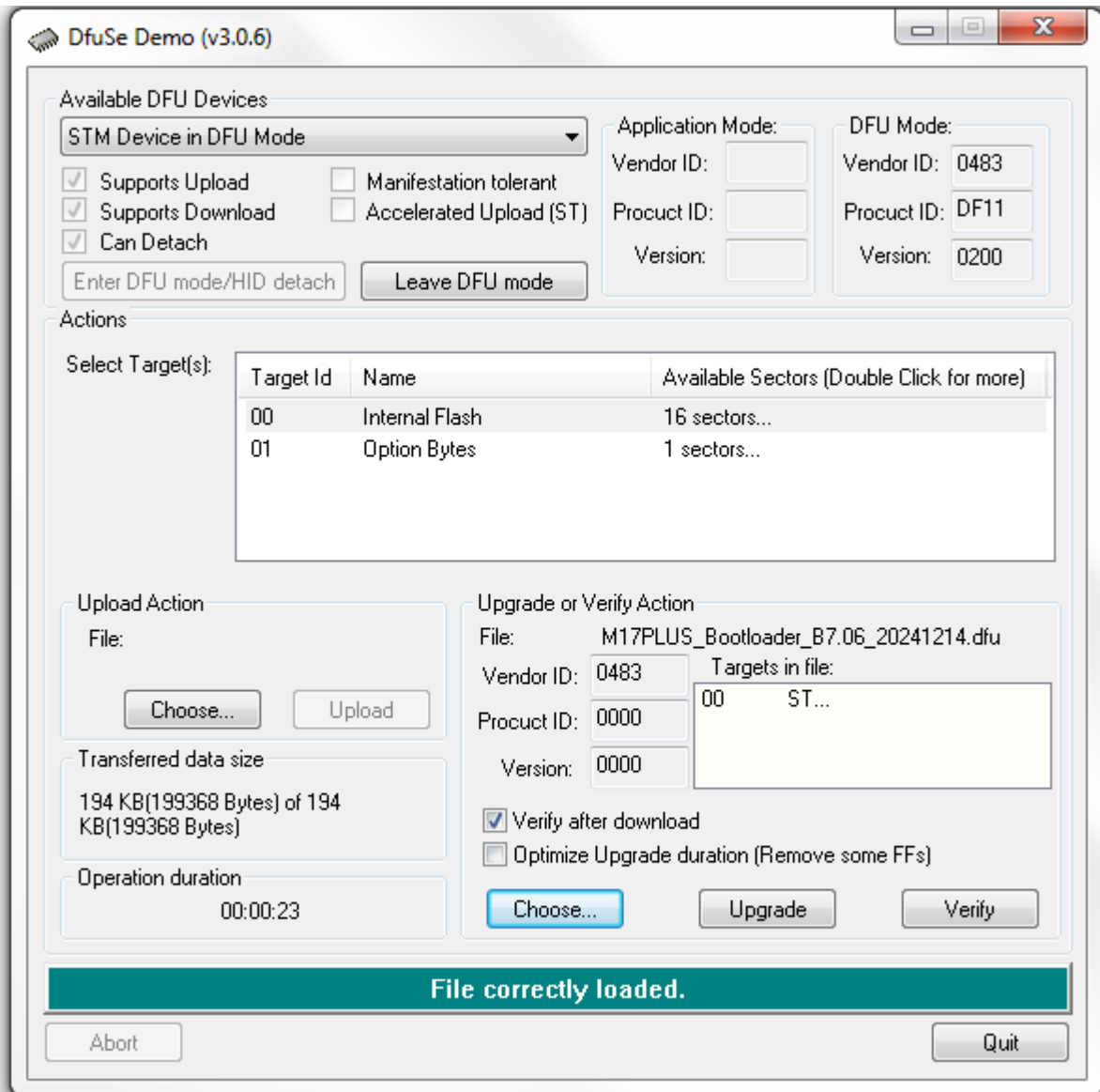After it is finished the screen should look as follows:

Now we are going to repeat this for the bootloader.

Press the "Choose" button just below the "Optimize Upgrade duration" check box. That should bring up the following box:
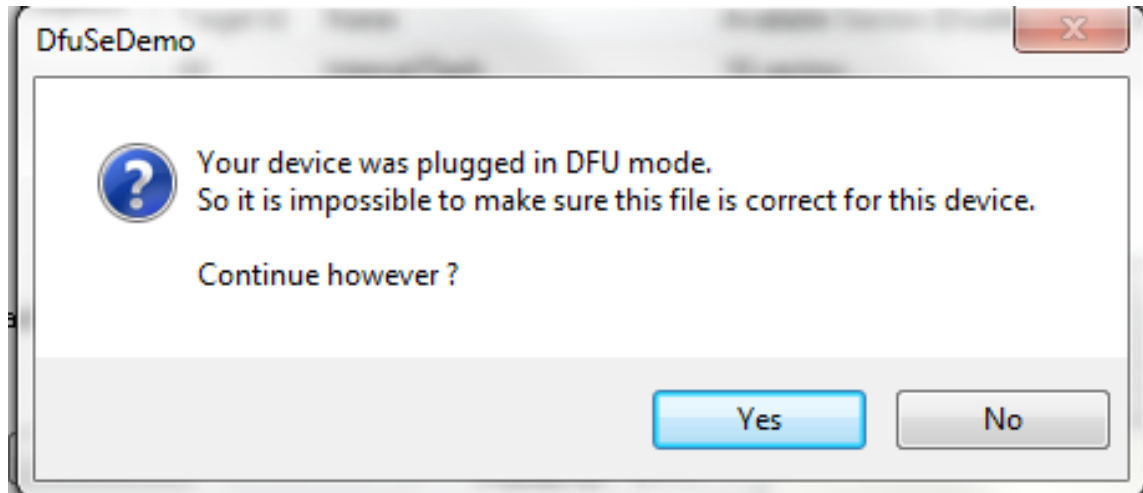

Select the M17PLUS_Bootloader_B7.06_20241214.dfu or a later version.

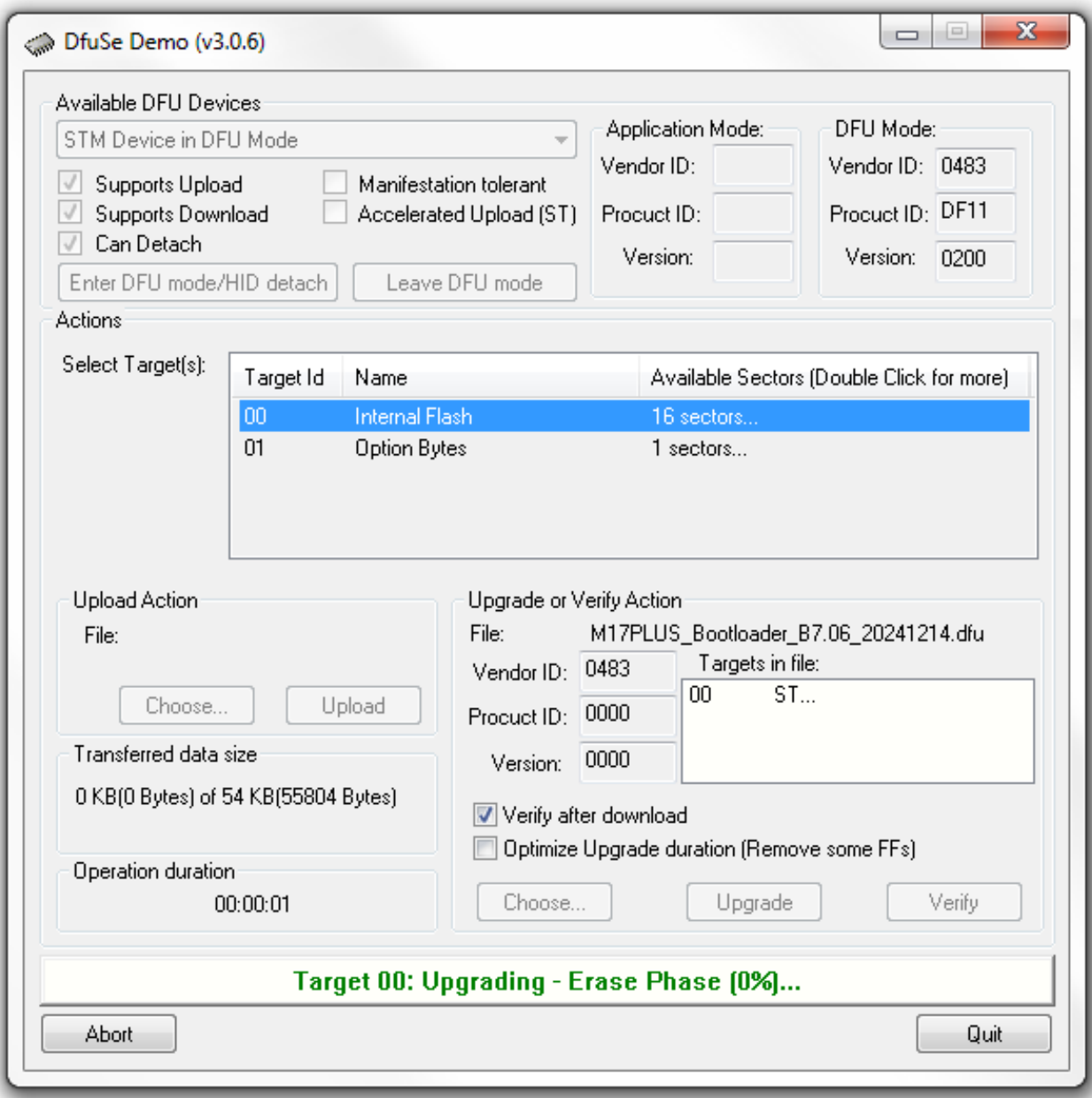Press the "Open" button. You should now get:

Notice the file name is on the screen and the display shows "File correctly loaded

Press the "Upgrade Button". The display should now show:

DfuSeDemo

? Your device was plugged in DFU mode.
So it is impossible to make sure this file is correct for this device.
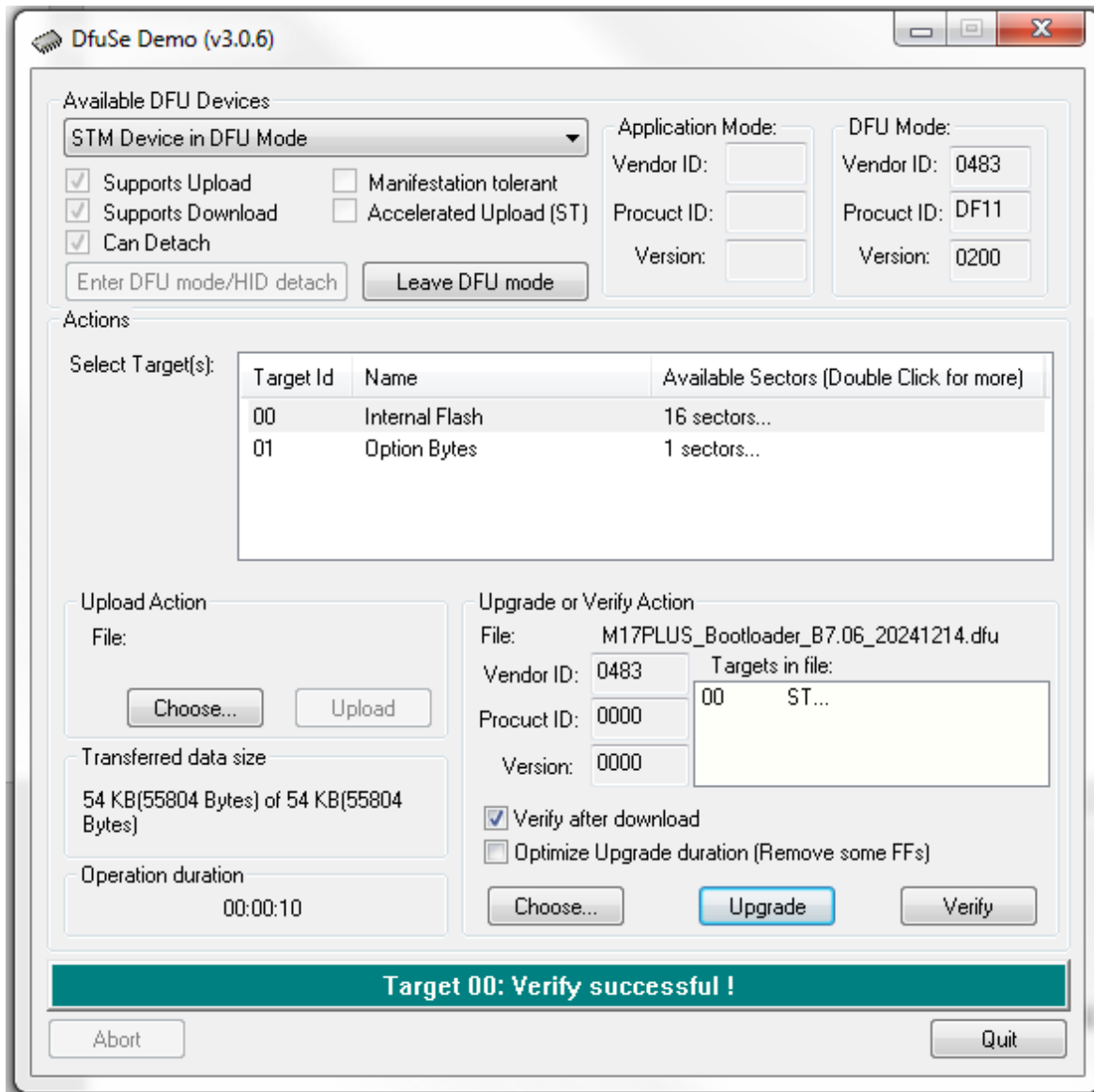
Continue however ?

Yes   No

Press the "Yes Button" and you should see:

The program is first going to erase the Program Memory, then it is going to program the program memory and then it will verify it.

After it is finished the screen should look as follows:

Wait about 10 seconds, turn off power, and then load the DMR program as described in another application note called "How to use the Factory Tool M17 PLUS DMR".