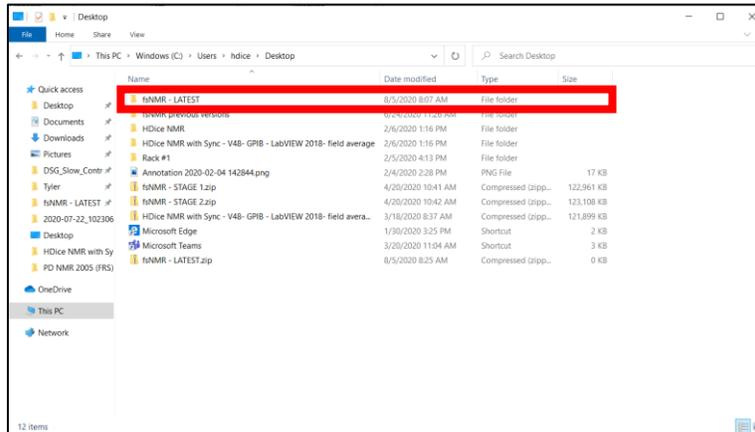
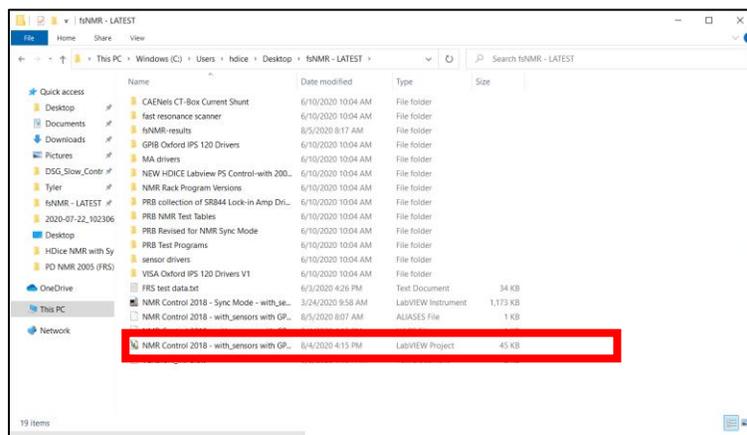


## fsNMR – Data Review Program Operation Procedure

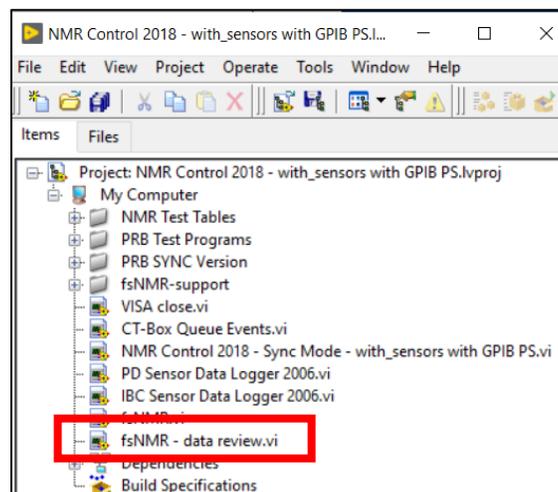
1. From C:/Users/hdice/Desktop, open fsNMR - LATEST



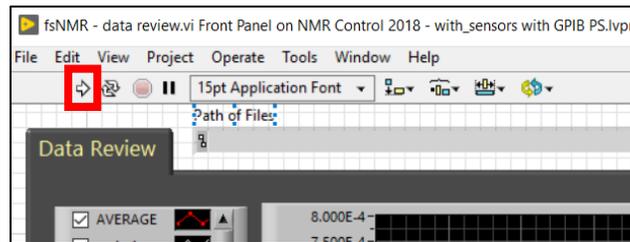
2. Open NMR Programs' LabVIEW Project



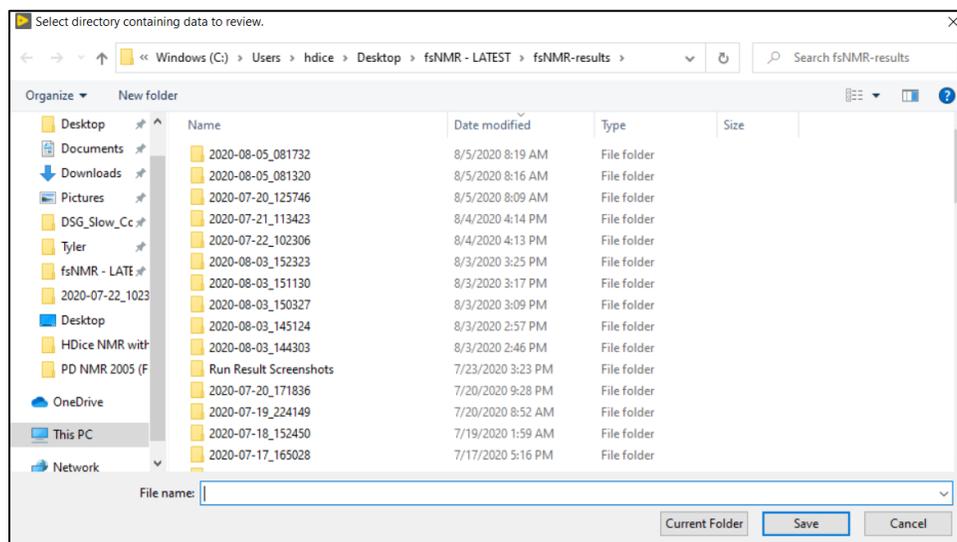
3. From LabVIEW project explorer window, open "fsNMR – data review.vi"



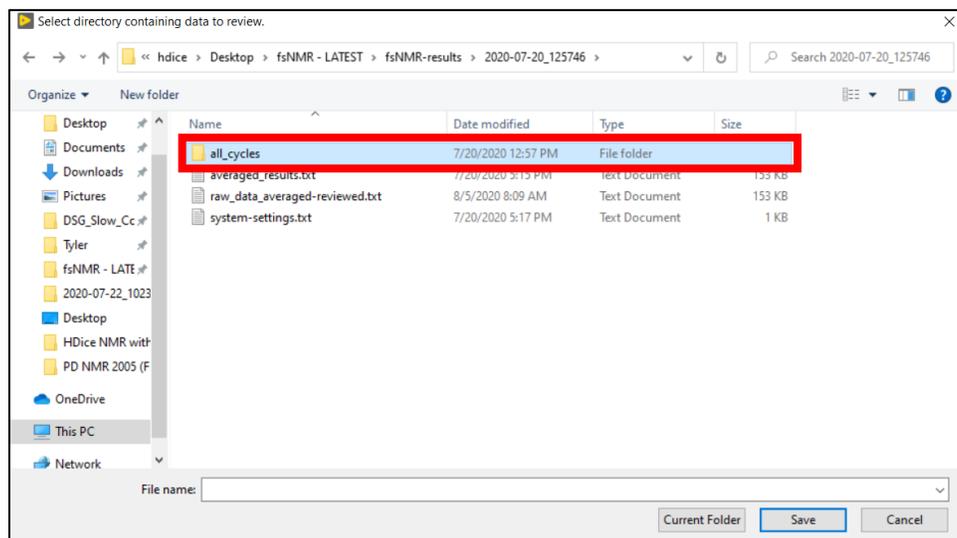
4. Run program using run arrow in top left of front panel



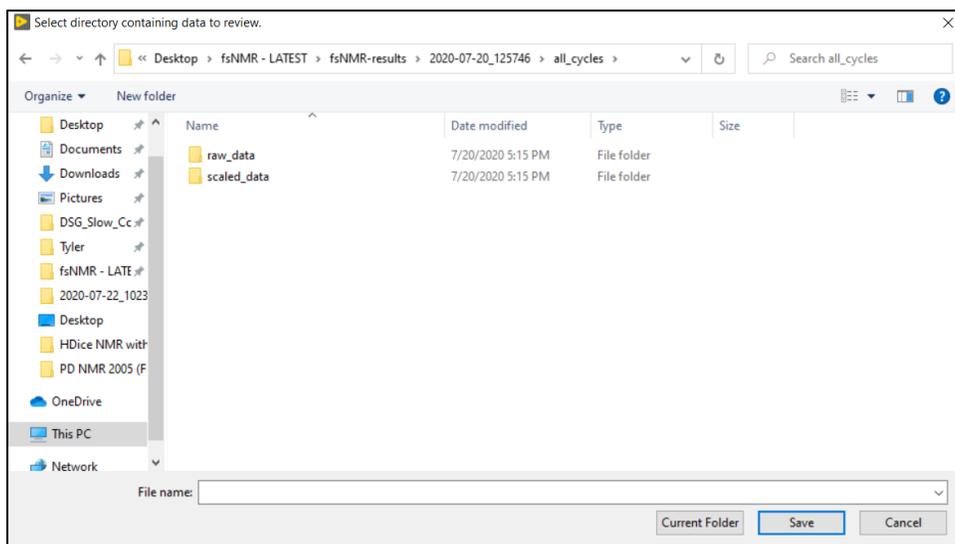
5. Upon running program, a file explorer window will automatically open in fsNMR results directory. Select run directory containing data to review.



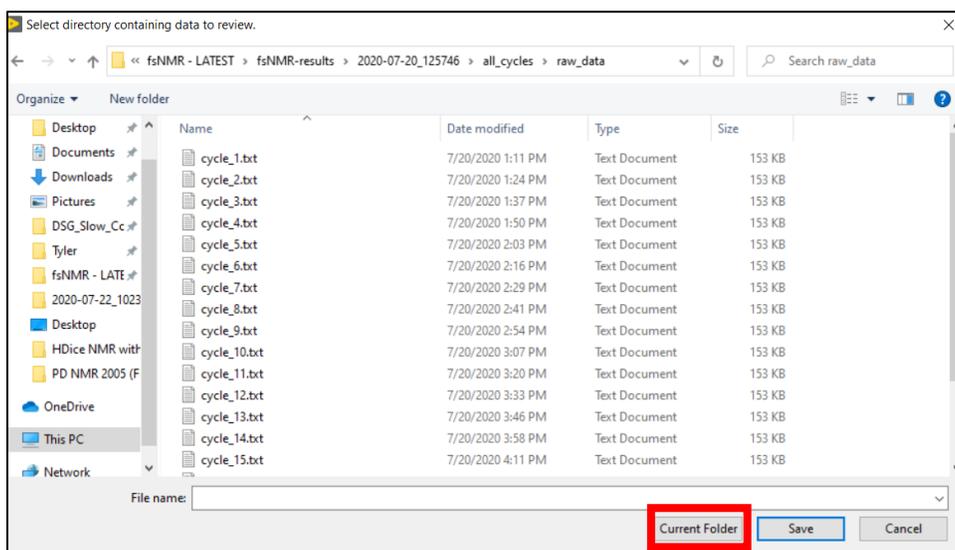
6. Select "all\_cycles" directory.



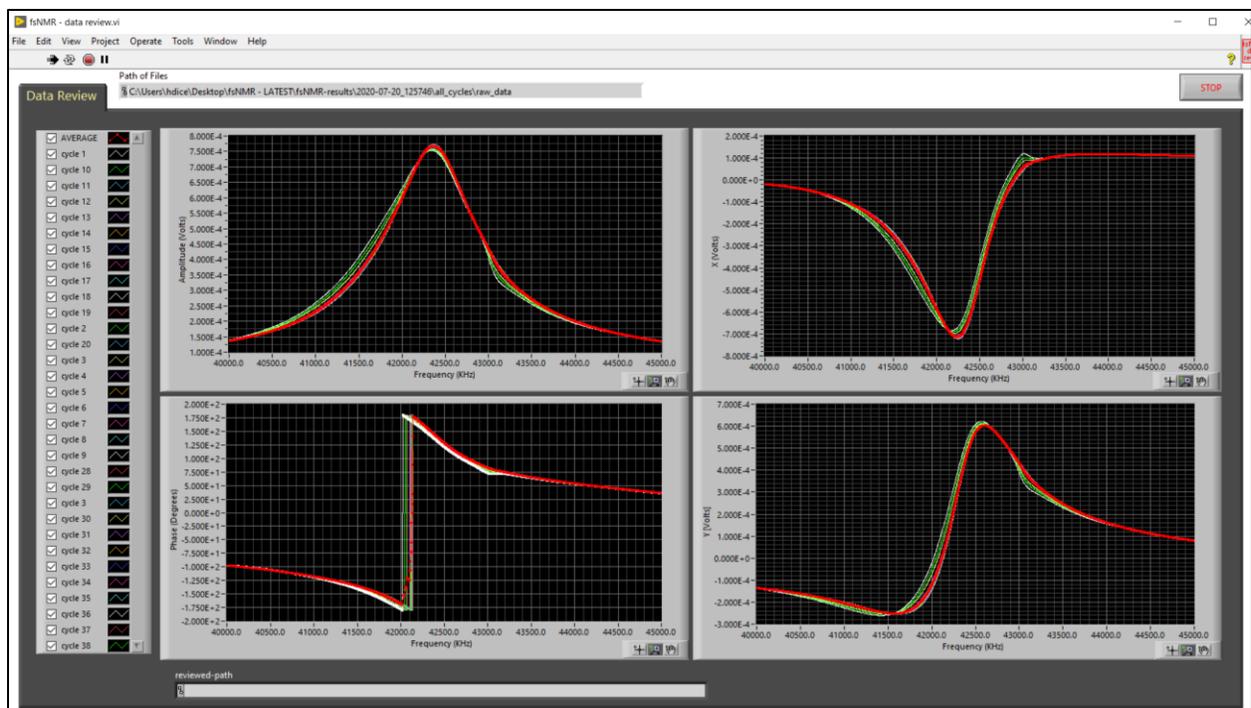
7. Decide whether to review the scaled or raw data and open that folder.



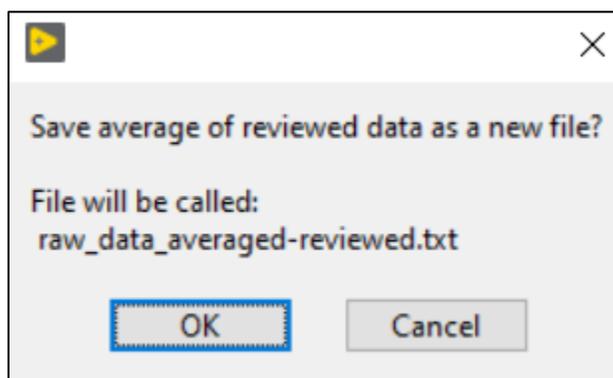
8. Click "Current Folder" button at the bottom right of file explorer window.



9. Data will automatically plot all cycles' data, calculate the average of all cycles, and plot the data for R, phase, X, and Y.
  - a. Average will be plotted in red with red data markers.
10. Review data by selecting which cycles to plot and include in average by checking/unchecking items in the list on left of front panel.
  - a. As items are checked/unchecked, average will be automatically recalculated and replotted.
11. When finished reviewing data, click stop button at top right of front panel.



12. After clicking “Stop”, a prompt will appear asking whether to save average of reviewed data as a new file.
- The resulting files will be named “<type>\_data\_averaged-reviewed.txt” where <type> will be scaled or raw, depending on which directory user selected in step 7.
  - If the file to be created already exists, “\_<#>” will be appended to the file name where <#> is the next digit that allows the file name to be unique,



**NOTE:**

In file created containing the average of reviewed data, there is a new line added to the top of the file preceded by a # (pound sign) stating which cycles were removed from the average during the review.

```
raw_data_averaged-reviewed.txt - Notepad
File Edit Format View Help
#After review, cycle 1, cycle 2, cycle 3, cycle 4, and cycle 5 removed from average

fsNMR results - average data after review
Frequency      R      Phase  X      Y
4.000000E+4    1.363021E-4  -9.783069E+1  -1.857333E-5  -1.350472E-4
4.000200E+4    1.363995E-4  -9.783547E+1  -1.859952E-5  -1.351447E-4
4.000400E+4    1.364961E-4  -9.783949E+1  -1.861898E-5  -1.352392E-4
4.000600E+4    1.365955E-4  -9.784571E+1  -1.864986E-5  -1.353339E-4
4.000800E+4    1.366881E-4  -9.785559E+1  -1.868410E-5  -1.354239E-4
4.001000E+4    1.367759E-4  -9.787244E+1  -1.873715E-5  -1.355039E-4
4.001200E+4    1.368700E-4  -9.788416E+1  -1.878012E-5  -1.355917E-4
```