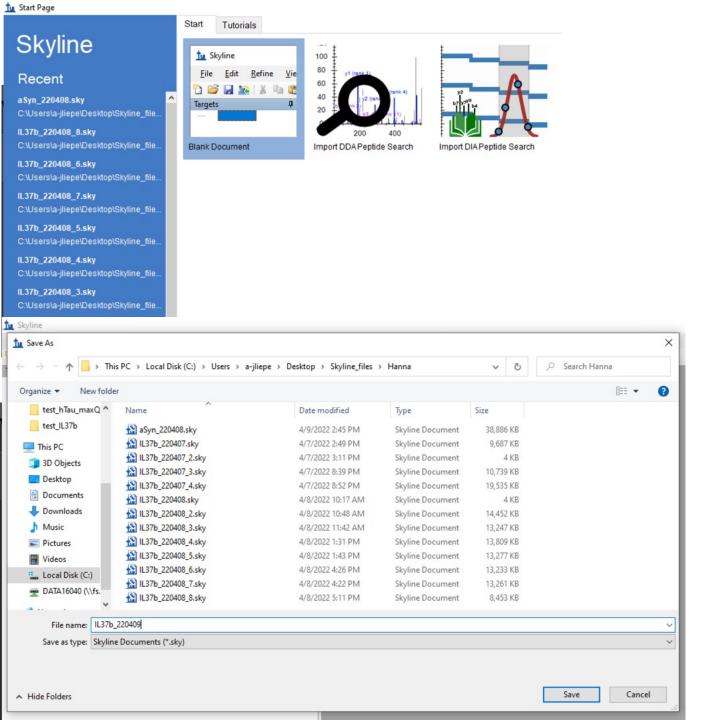
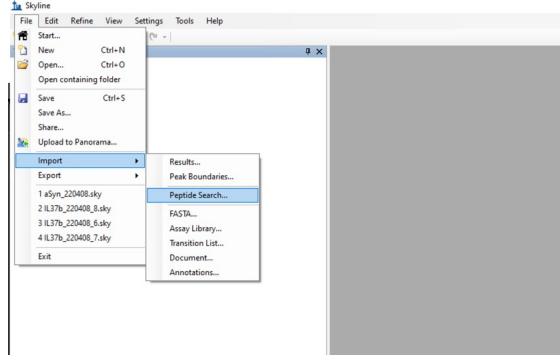
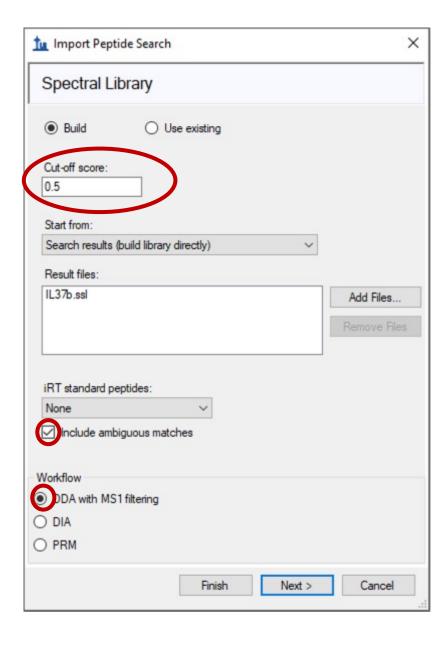
Skyline tutorial

Relative quantification of inSPIRE assignments in aSPIre workflow

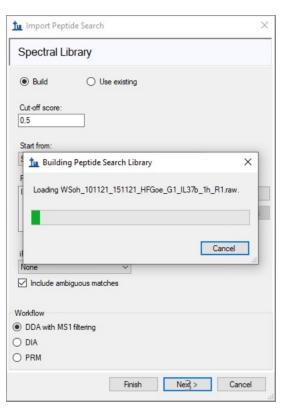


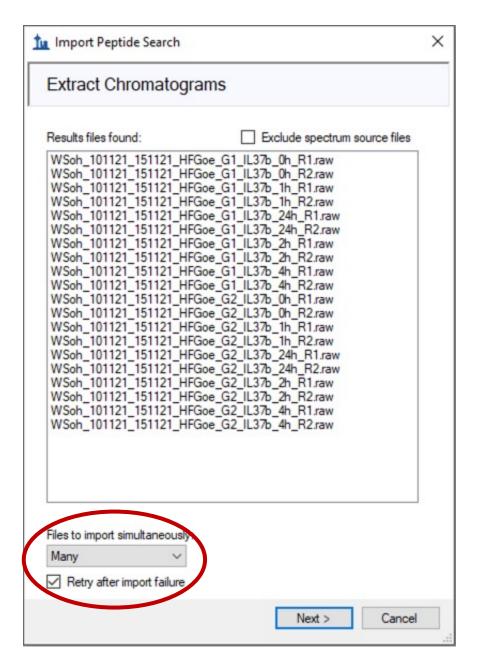


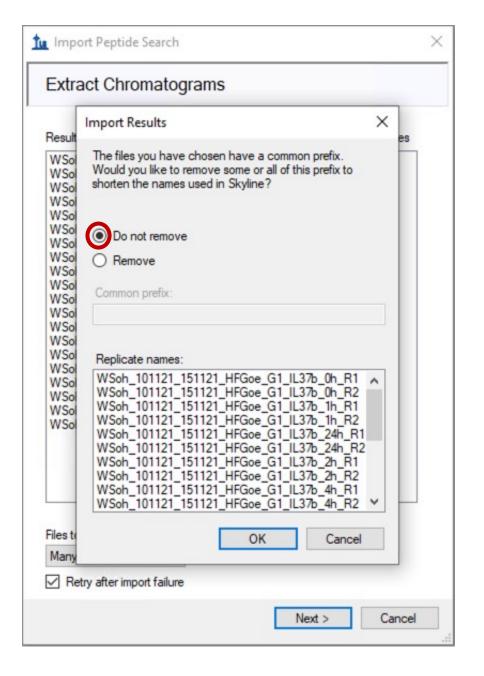
- open a blank document and save it as .sky file
- 2. go to **File > Import > Peptide search**

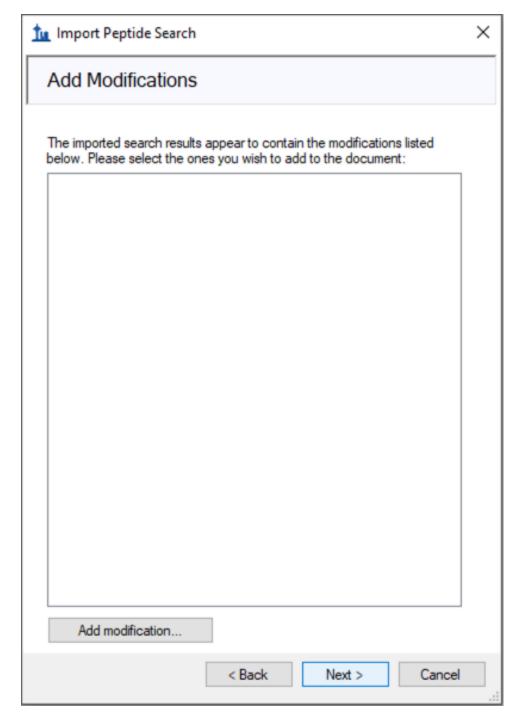


- set the cut-off score to 0.5. It is relying on the search engine's probability based score and will be automatically adjusted
- open the search results as .ssl table the .ssl has to be in the same folder as the .raw files!

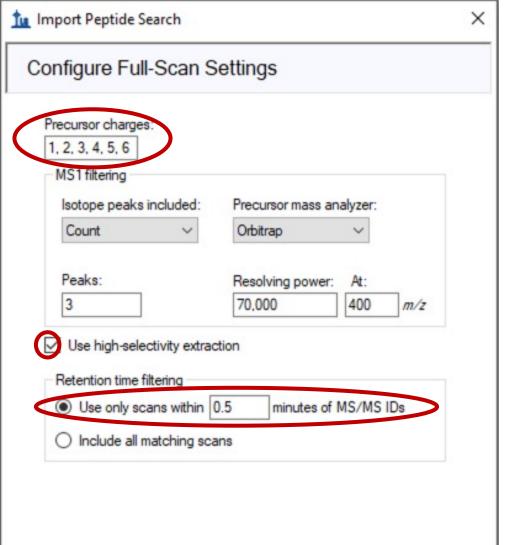








- do not add any new modifications here
- the modifications are already contained in the .ssl file and will be matched to the .raw files accordingly



< Back

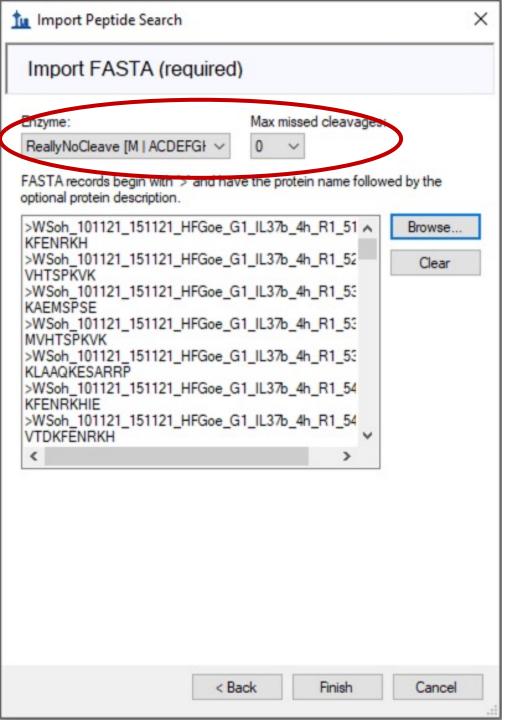
Next >

Cancel

- add precursor charge 1
- tick high-selectivity extraction

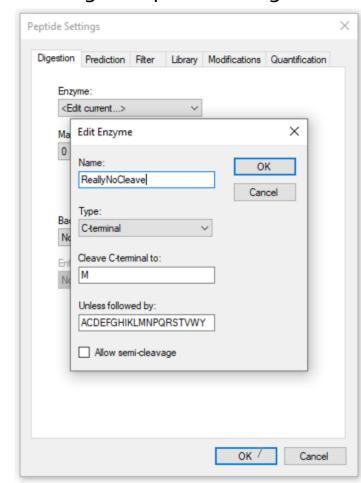
modify the retention time window

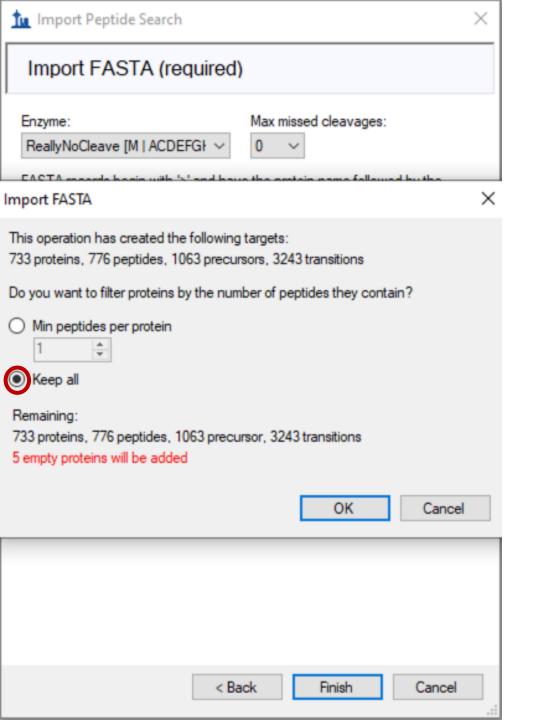
Output of the first script is the deviation of the measured from the predicted retention time. You can use this as a prior for the retention time window. Also look at the chromatigrams.

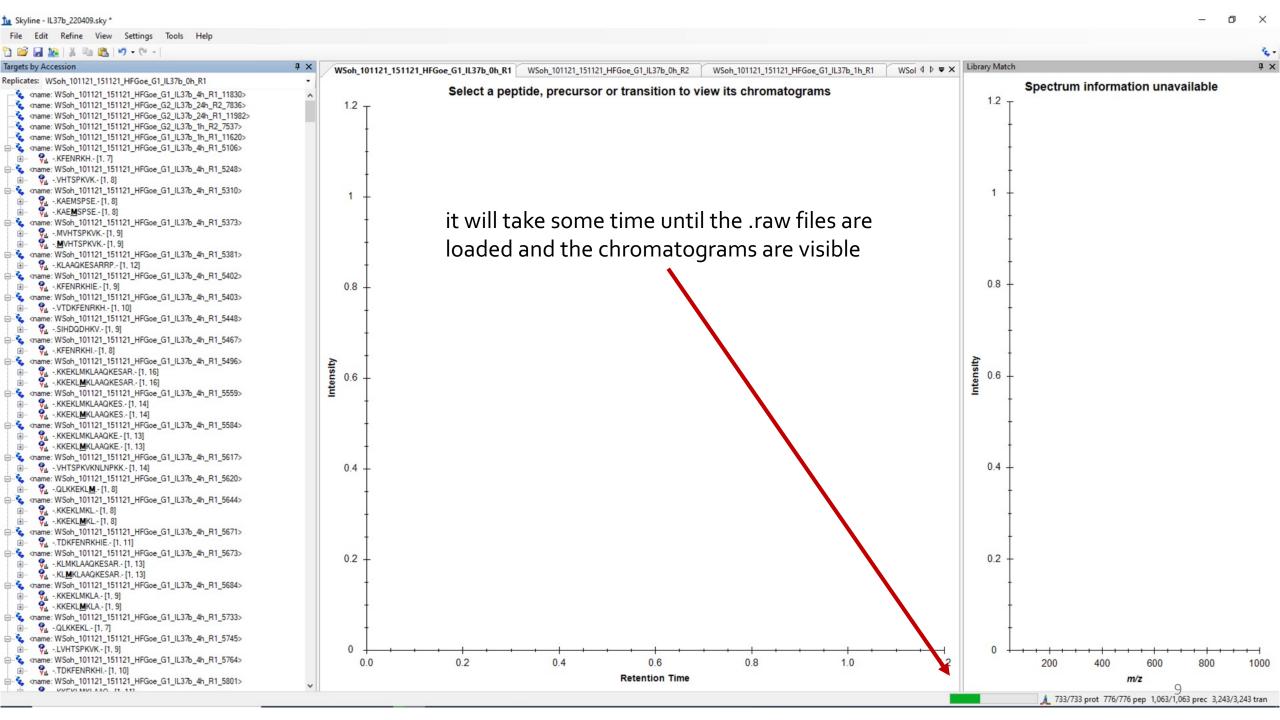


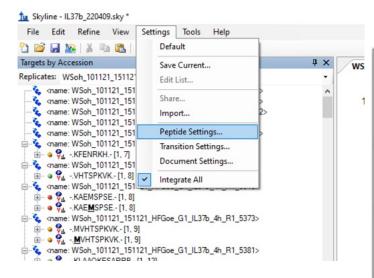
- add the enzyme "ReallyNoCleave"
- o missed cleavages
- load .fasta file with unique peptide sequences

specifications of the enzyme: Settings > Peptide Settings

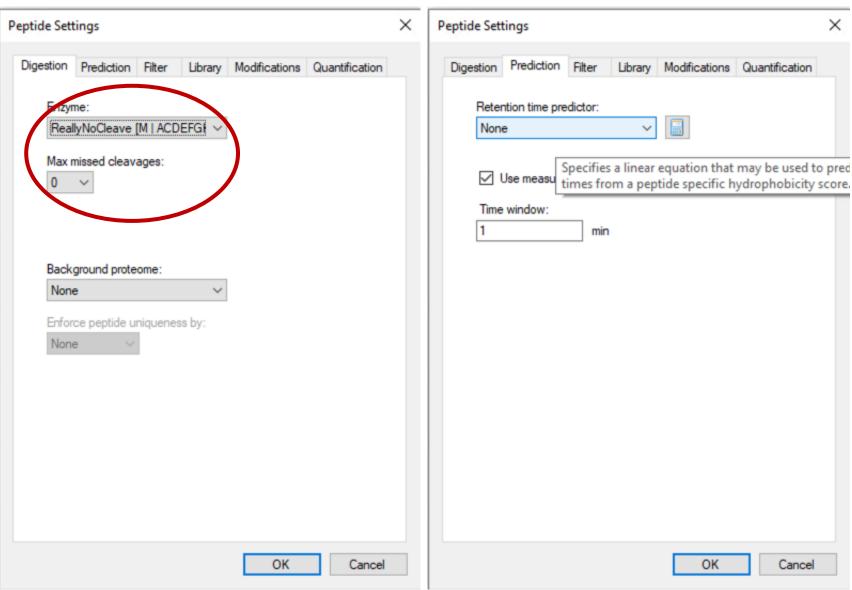






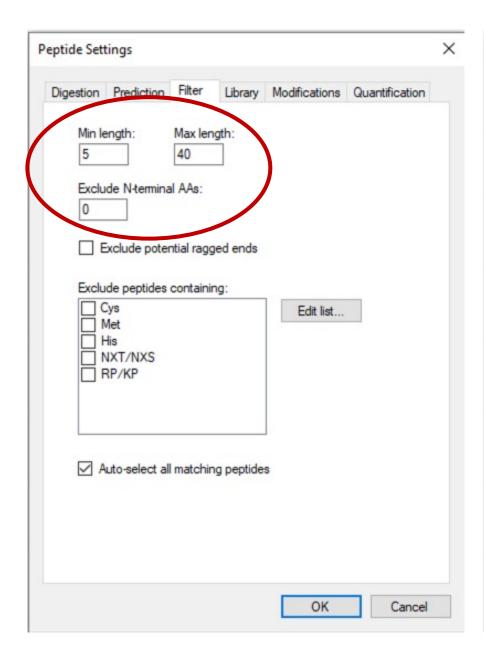


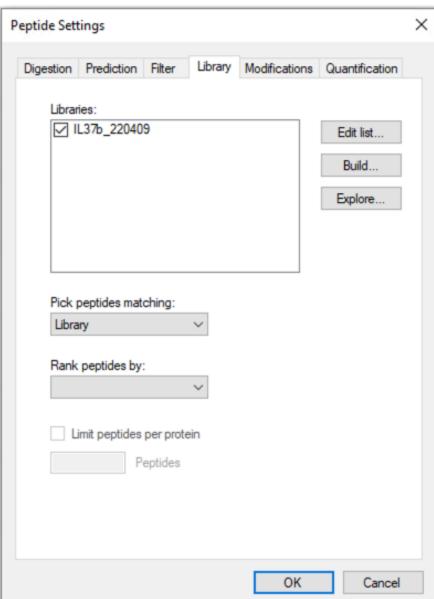
- make sure that **Settings** > Integrate All is ticked
- go to Settings > Peptide Settings and enter the following specifications

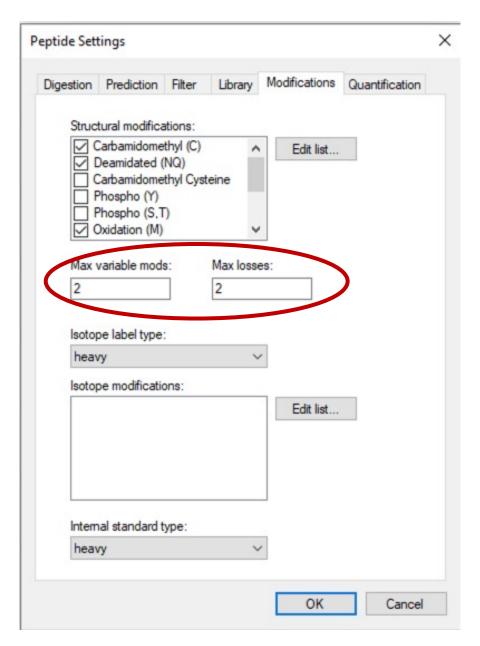


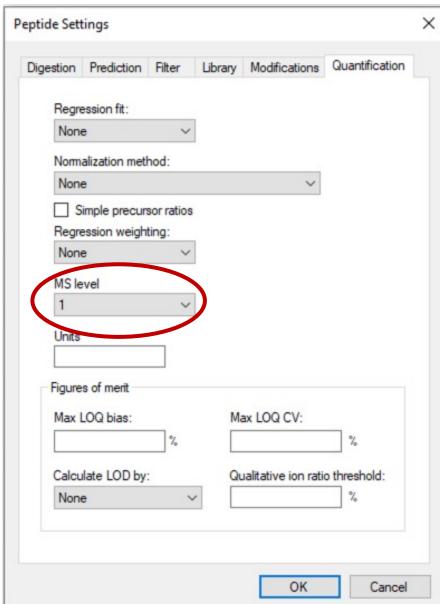
Cancel

X









kyline - IL37b_220409.sky File Edit Refine Settings Tools Help Reintegrate... J 10 Add Decoys... Targets by Acc Compare Peak Scoring... Replicates: WS <name:</p> 11830> Remove Missing Results 7836> <name: 11982> <name: Accept Proteins... 7537> <name: Remove Empty Proteins 11620> <name: Associate Proteins... <name: 5106>

Rename Proteins...

Accept Peptides...

Remove Empty Peptides

Remove Duplicate Peptides

Remove Repeated Peptides

- 4name: WSoh_101121_151121_HFGoe_G1_IL37b_4h_R1_5403>

Aname: WSoh_101121_151121_HFGoe_G1_IL37b_4h_R1_5448>

- < name: WSoh_101121_151121_HFGoe_G1_IL37b_4h_R1_5467>

Permute Isotope Modifications...

Sort Proteins

Advanced...

. .KFENRKHIE.- [1, 9]

.VTDKFENRKH.- [1, 10]

⊕ .SIHDQDHKV.-[1, 9]

. .KFENRKHI.- [1, 8]

<name:

<name:

<name:</p>

<name:</p>

in ame:

5248>

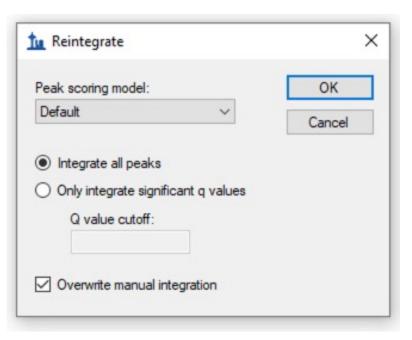
5310>

5373>

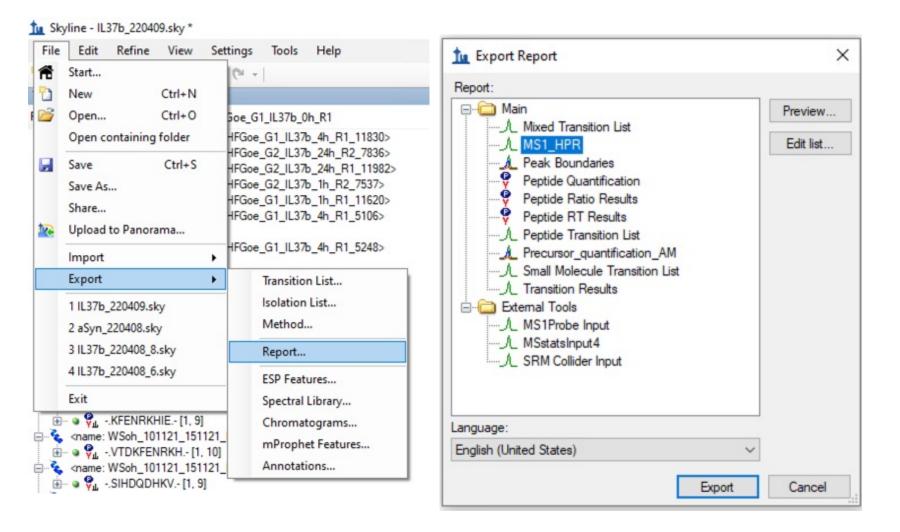
5381>

5402>

after changing the peptide settings, go to **Refine > Reintegrate...**



- you can view the chromatograms and MS2 spectra in the different .raw files in the GUI
- in order to export MS1 intensities, go to **File > Export > Report...**
- choose MS1_HPR



you can generate custom reports in Skyline. **MS1_HPR** contains the following info:

