



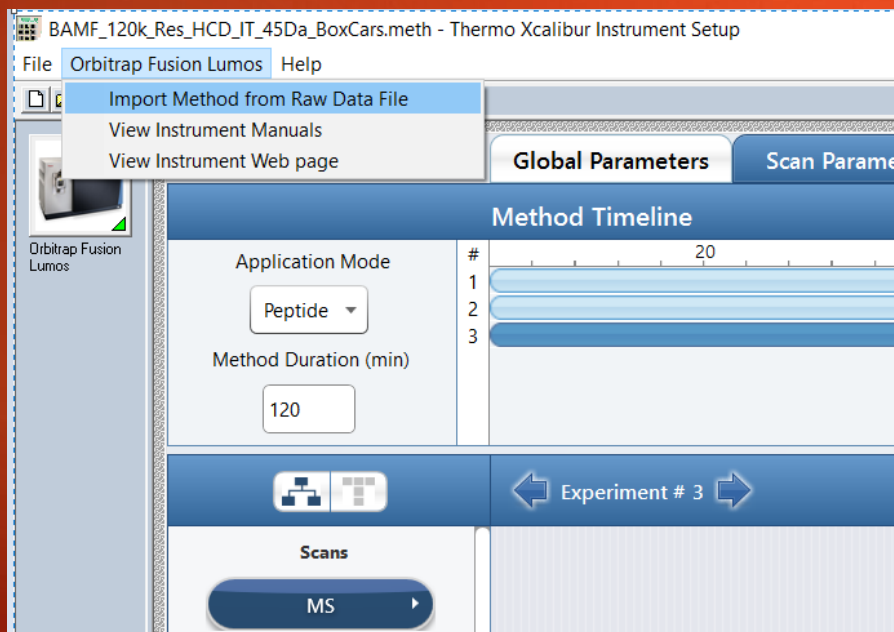
Building Tribrid® files from RAW

BEN ORSBURN

WOW. THIS WAS A POOR FORMAT LAYOUT CHOICE (SORRY)

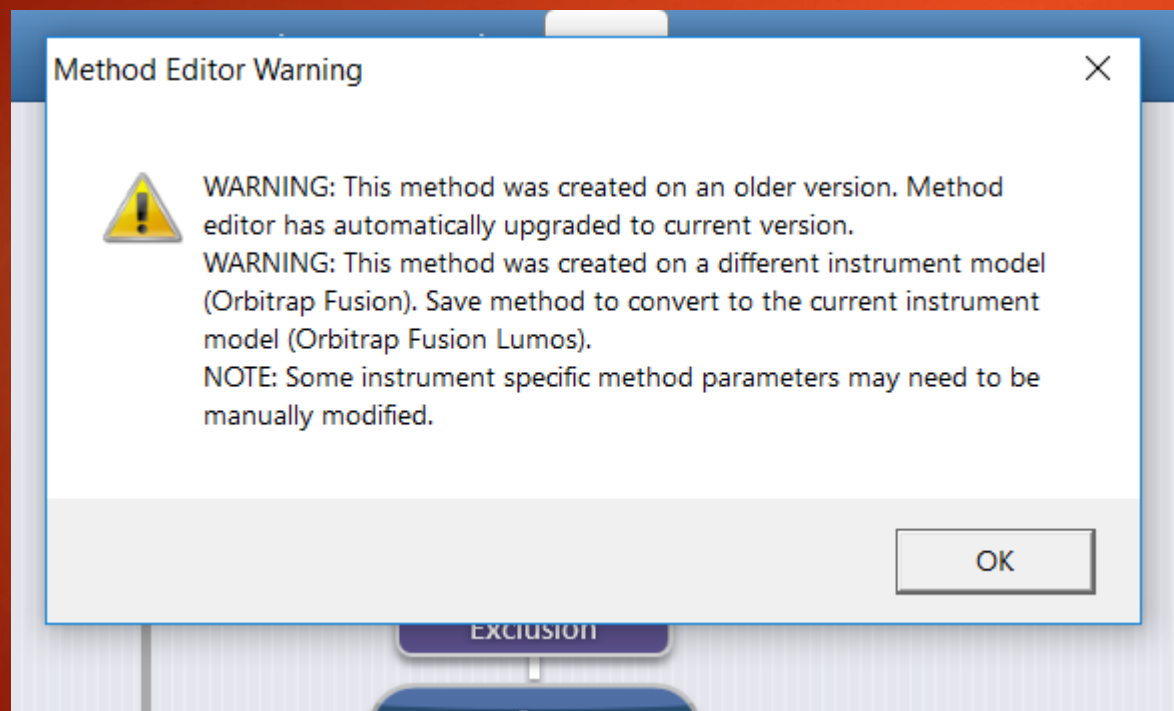
In Fusion 3.0 you can build a method FROM a RAW file

- ▶ BIG SHOUTOUT to Dr. Chris Ashwood who tipped me off to this feature!
- ▶ How do you do it?
- ▶ After Fusion Tune 3.0, this button appears



You may receive error messages. Don't panic

- ▶ The changes are likely quite minor



For Fusion to Lumos method, lower the %RF

- ▶ Lumos does not require as much RF Lens % to pull in ions

Targeted SIM Scan Properties		Show All
Multiplex Ions	<input checked="" type="checkbox"/>	
Maximum Number of Multiplexed Ions	<input type="text" value="10"/>	
Define Multiplexing Groups	<input type="checkbox"/>	
Isolation Window (m/z)	<input type="text" value="45"/>	
Detector Type	<input type="text" value="Orbitrap"/>	▼
Orbitrap Resolution	<input type="text" value="60000"/>	▼
RF Lens (%)	<input type="text" value="60"/>	
AGC Target	<input type="text" value="1.0e6"/>	▲▼
Inject Ions for All Available Parallelizable Time	<input type="checkbox"/>	
Maximum Injection Time (ms)	<input type="text" value="120"/>	
Polarity	<input type="text" value="Positive"/>	▼
Loop Control	<input type="text" value="All"/>	▼

Lumos has better quadrupole isolation and ETD efficiency

- ▶ You may obtain better data quality by using a wider isolation window on the Fusion 1 than Fusion 2.
- ▶ ETD will likely require a higher Max ETD Reagent Injection time on the Fusion 1 than Fusion 2 due to improvements in this hardware on Lumos.

Data-Dependent MS ⁿ Scan Properties		Show All
Isolation Window (m/z)	2.2	
Isolation Offset	Off	
Activation Type	HCD	
Collision Energy Mode	Fixed	
HCD Collision Energy (%)	30	
Detector Type	Ion Trap	
Ion Trap Scan Rate	Rapid	
First Mass (m/z)	100	
AGC Target	1.0e4	
Inject Ions for All Available Parallelizable Time	<input checked="" type="checkbox"/>	
Maximum Injection Time (ms)	35	

Data-Dependent MS ⁿ Scan Properties		Show All
Isolation Window (m/z)	2.2	
Isolation Offset	Off	
Activation Type	ETD	
Use Calibrated Charge-Dependent ETD Parameters	<input type="checkbox"/>	
ETD Reaction Time (ms)	50	
ETD Reagent Target	2.0e5	
Max ETD Reagent Injection Time (ms)	200	
ETD Supplemental Activation	<input type="checkbox"/>	
Detector Type	Ion Trap	
Ion Trap Scan Rate	Rapid	
First Mass (m/z)	100	
AGC Target	1.0e4	