

Conversion to mzML Format for NIST26 Chromatogram Processing

Video/Handout

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Mass Spec Interpretation Services

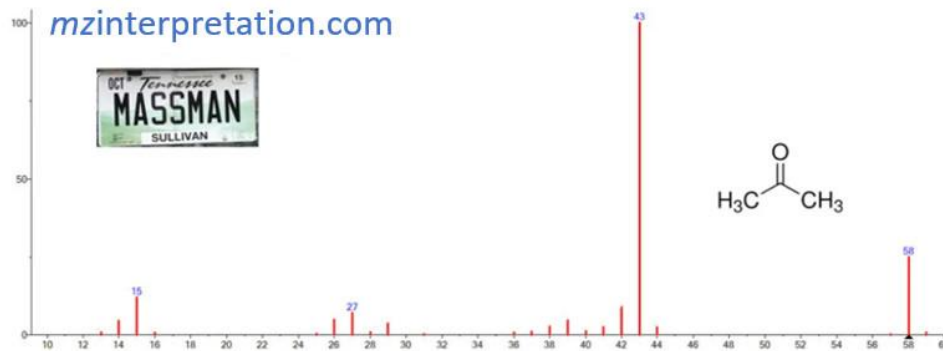
April 24, 2026

mzinterpretation.com

See **Full Course** on NIST26 with new **Integrated** Deconvolution/Library Searching for **EI GC-MS** and **LC-MS/MS**!

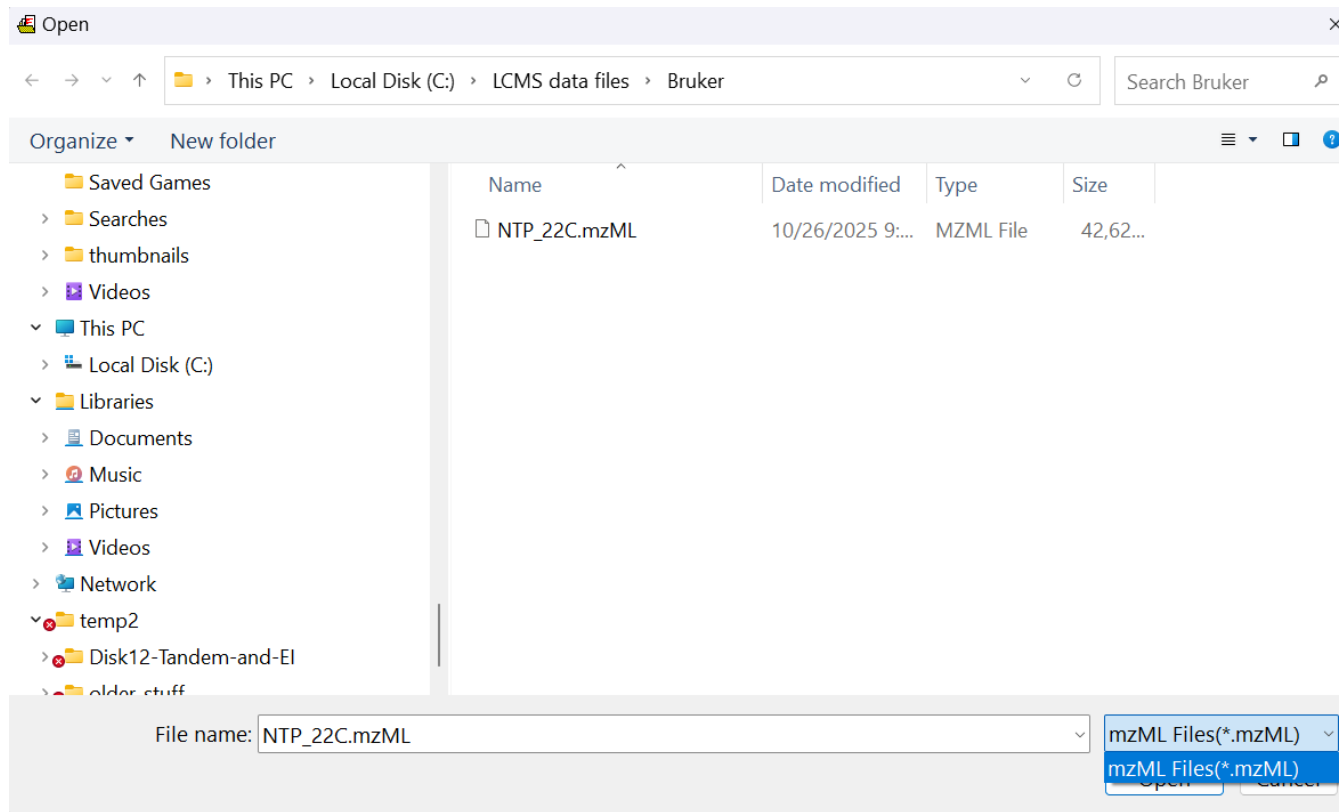
Mass Spec (m/z) Interpretation Services

Organic Mass Spectrometry



Only Acceptable File Format is *.mzML

- Only acceptable file format is *.mzML
- Either obtain from a conversion by the vendor's software
- Or use msconvert within Free ProteoWizard Software



Download of msconvert, Part of ProteoWizard

You download **MSConvert** as part of the full **ProteoWizard** package—there's no separate installer just for MSConvert.

Official download location

Go to the ProteoWizard project page:

• <https://proteowizard.sourceforge.io/download.html>

What to download

• Choose the **Windows installer (.msi)** (most common for LC/MS work)

• File name typically looks like:

`ProteoWizard-x.xx.x-Setup.exe` or `.msi`

After installation

• MSConvert is installed automatically

• You'll find it here:

- Start Menu → *ProteoWizard* → **MSConvert (GUI)**
- Or command line tool: `msconvert.exe`

Versions to consider

• **Stable release** → safest for routine workflows

• **Nightly build** → newer features (sometimes useful for newer vendor formats, but less tested)

Practical tip (relevant to your workflow)

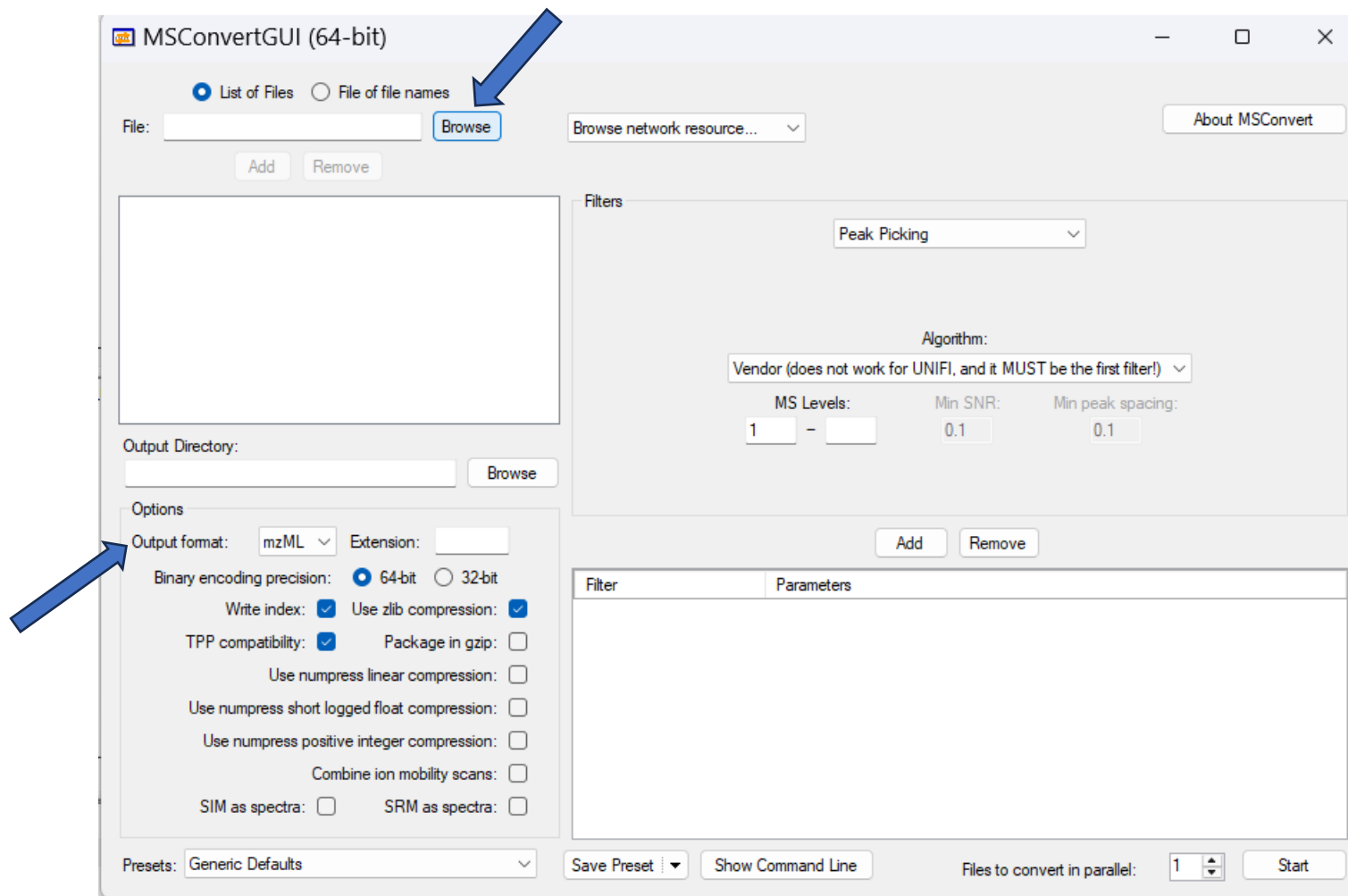
Since you're working with **Agilent data and centroid/profile handling**, newer/nightly builds sometimes:

• improve vendor reader support

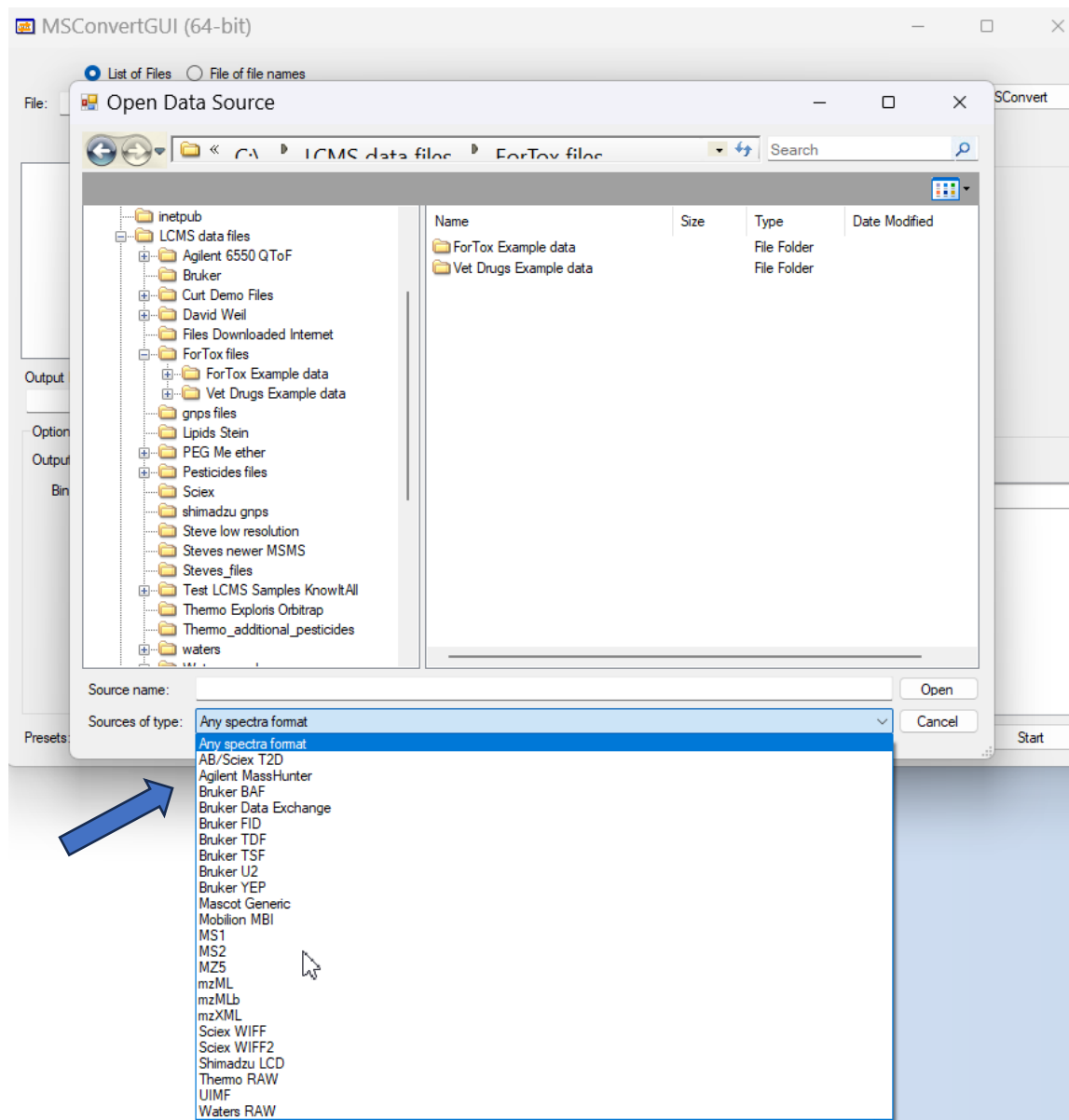
• give better control of **peak picking filters**

So if you run into odd behavior (especially with already-centroided Agilent data), it's worth trying a **recent nightly build**.

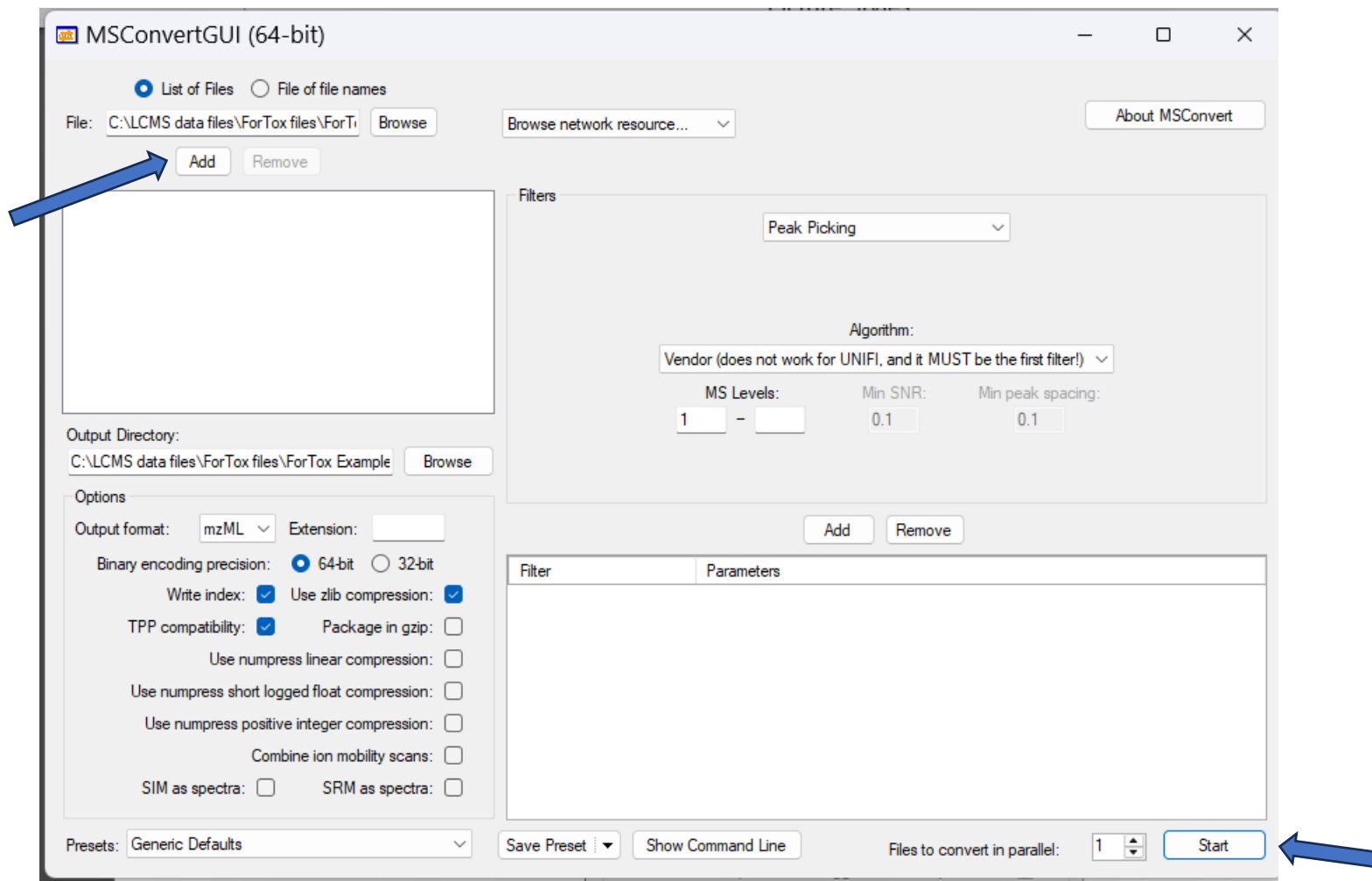
Start by Browsing Files with Output Format of mzML



Can Select File Format or Any Spectra Format



Add then Start Conversion to mzML



- Files **MUST** be in Centroided (Peak Picked Form), Profile Data **NOT** acceptable
- **Add** peak picking to the algorithm List
- File size will be dramatically increased if view in File Explorer
- **MUST** be first algorithm (function) in the list!
- If not sure if profile data, can add, will not change file if already centroided
- Can include MS levels
- Start to convert

