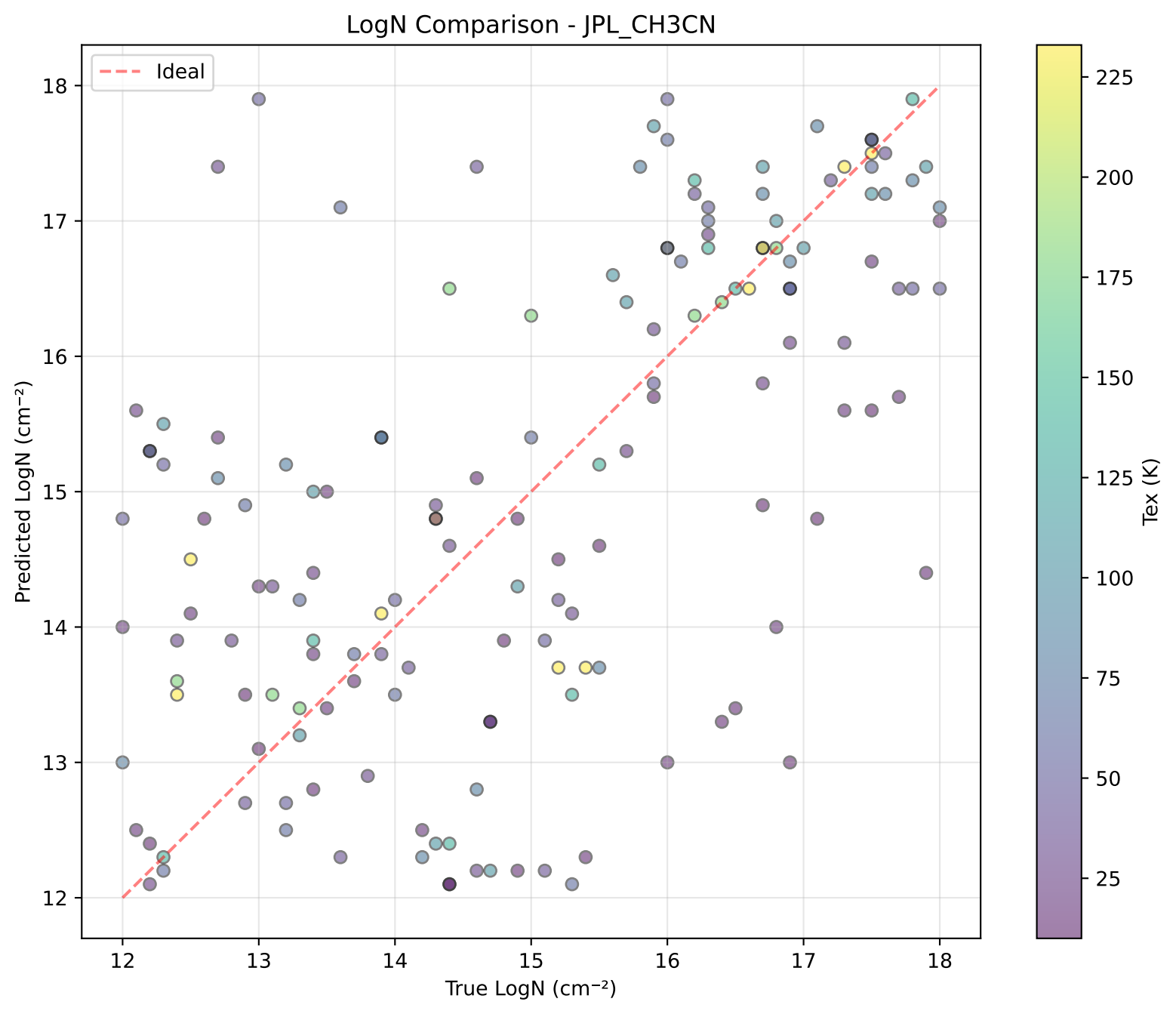
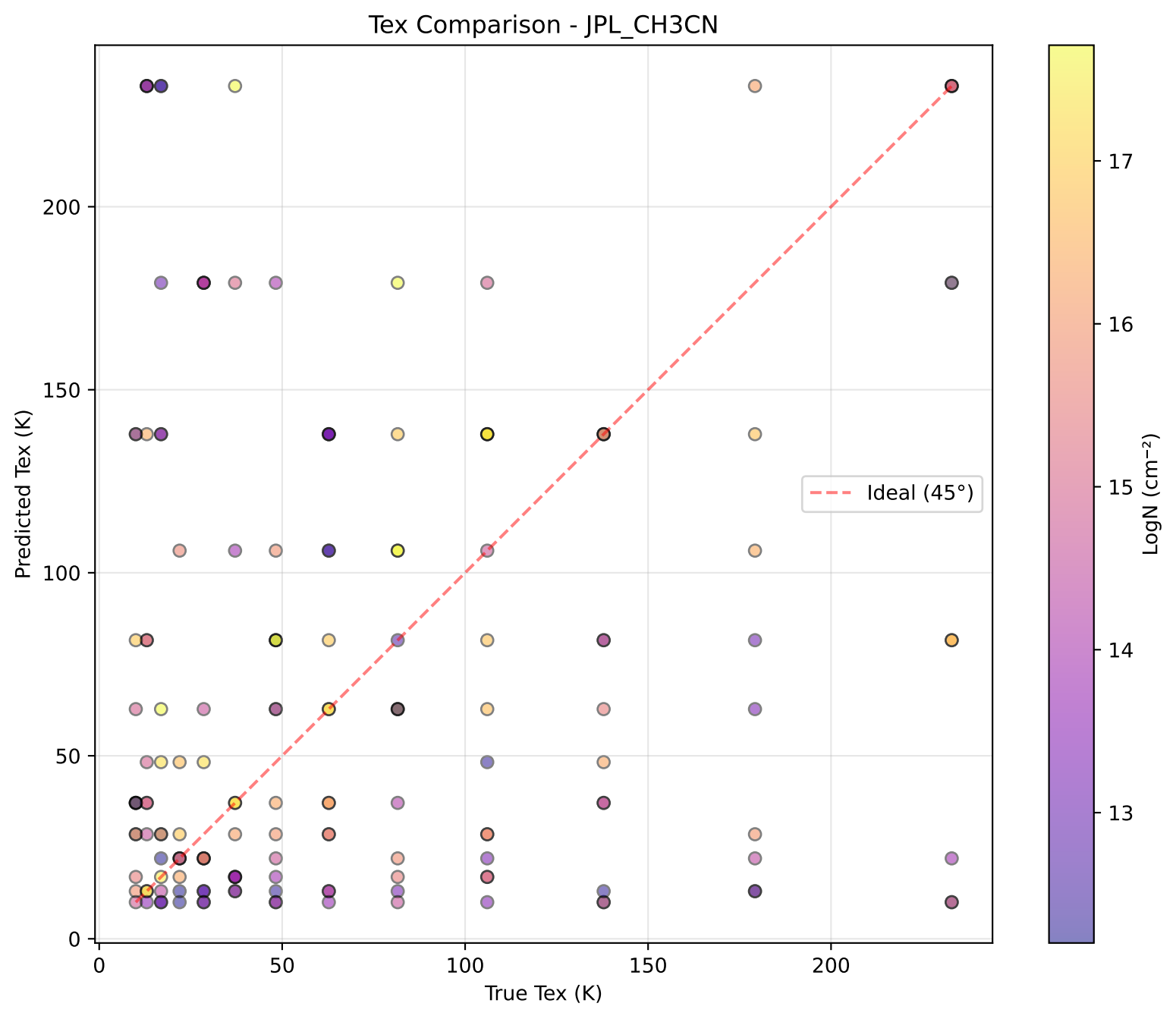
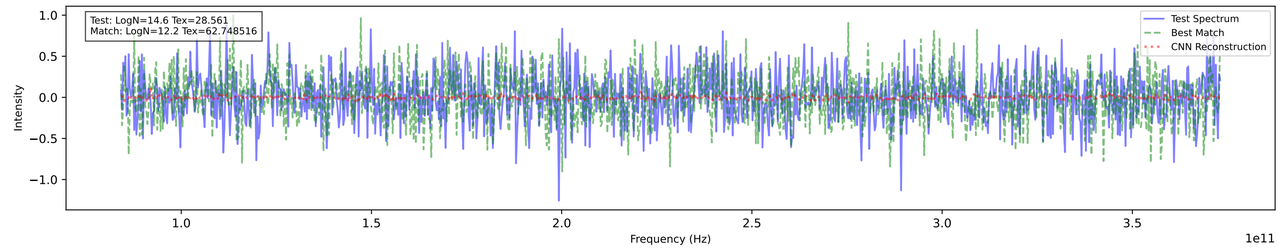
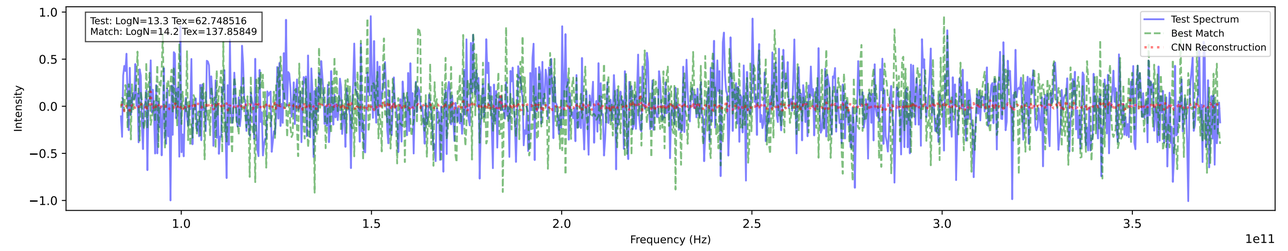
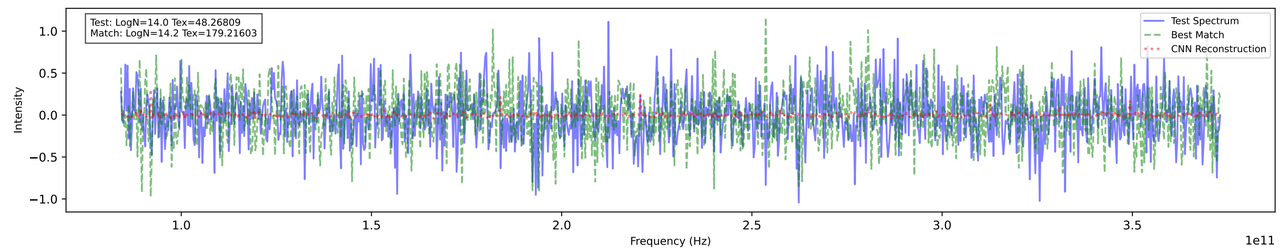
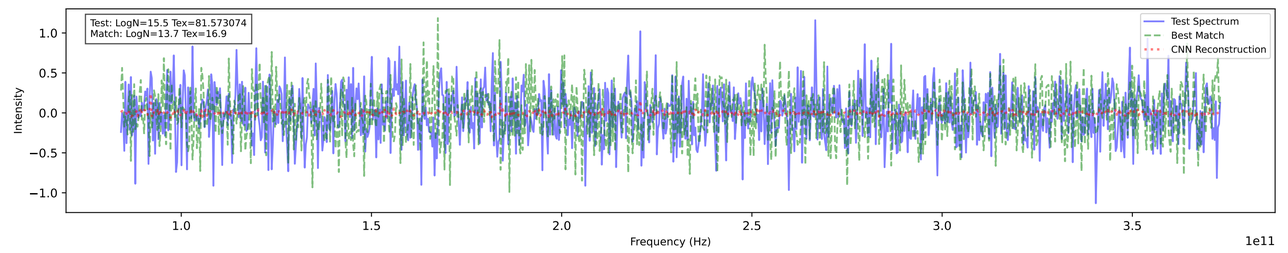

LogN Comparison - JPL_CH3CN
Ideal
Predicted LogN (cm⁻²)
True LogN (cm⁻²)
Tex (K)
12
13
14
15
16
17
18
25
50
75
100
125
150
175
200
225

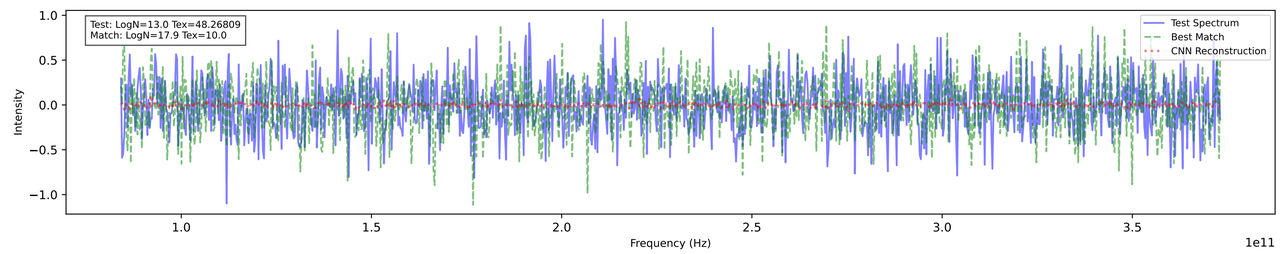

Tex Comparison - JPL_CH3CN
Predicted Tex (K)
True Tex (K)
Ideal (45°)
LogN (cm⁻²)
0
50
100
150
200
13
14
15
16
17

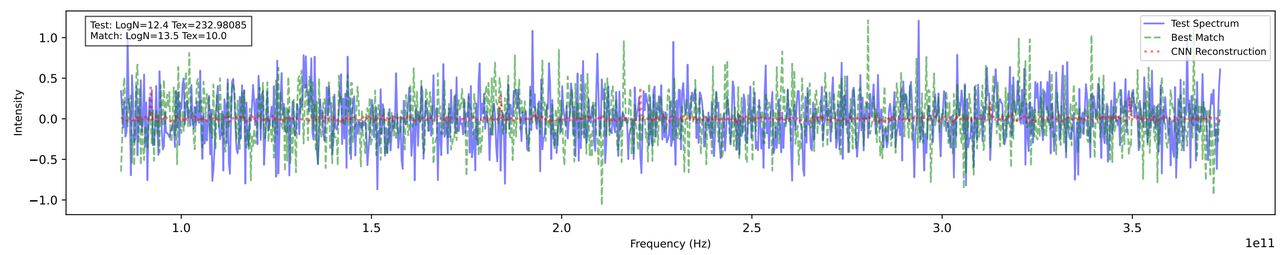

Test: LogN=14.6 Tex=28.561
Match: LogN=12.2 Tex=62.748516
Test Spectrum
Best Match
CNN Reconstruction
Intensity
Frequency (Hz)
1e11

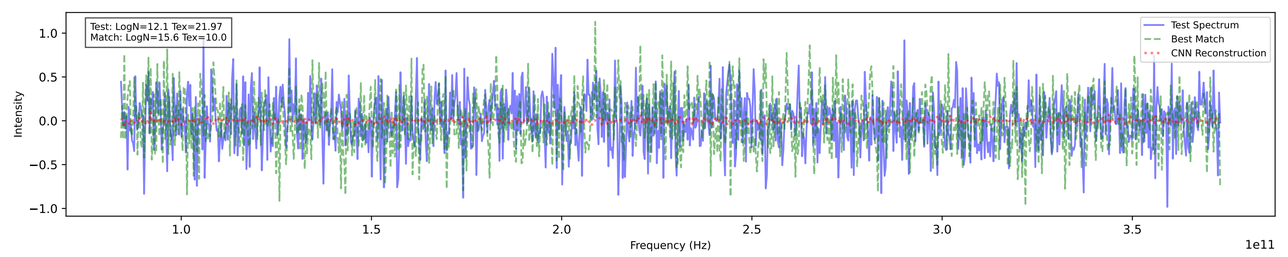

Test: LogN=13.3 Tex=62.748516
Match: LogN=14.2 Tex=137.85849
Test Spectrum
Best Match
CNN Reconstruction
Intensity
Frequency (Hz)
1e11

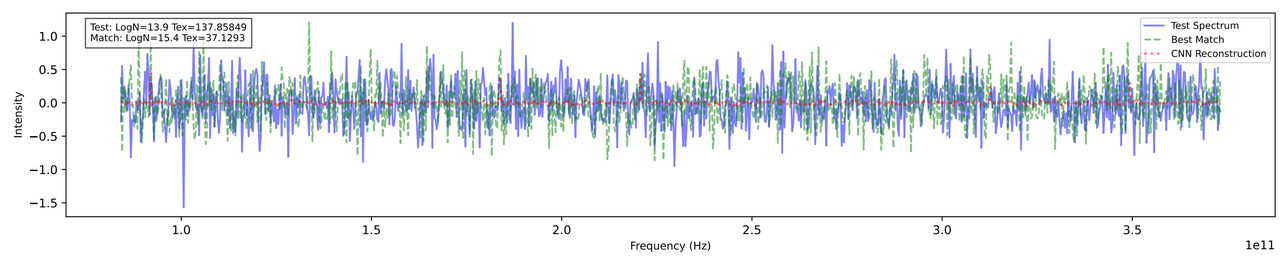

Test: LogN=14.0 Tex=48.26809
Match: LogN=14.2 Tex=179.21603
Test Spectrum
Best Match
CNN Reconstruction
Intensity
Frequency (Hz)
1e11

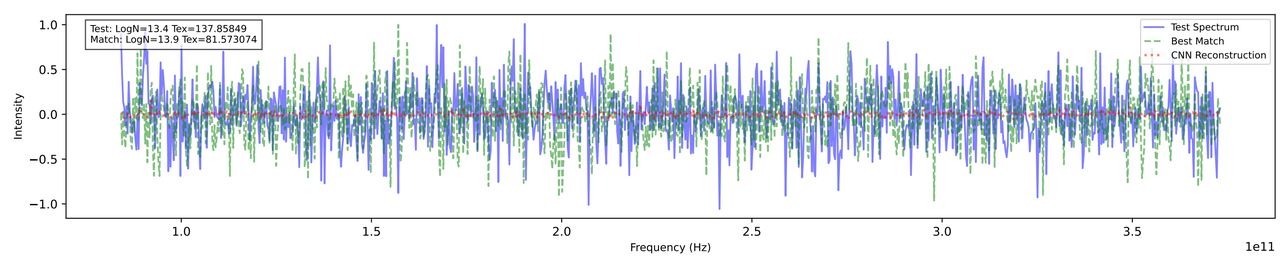

Test: LogN=15.5 Tex=81.573074
Match: LogN=13.7 Tex=16.9
Test Spectrum
Best Match
CNN Reconstruction
Intensity
Frequency (Hz)
1e11

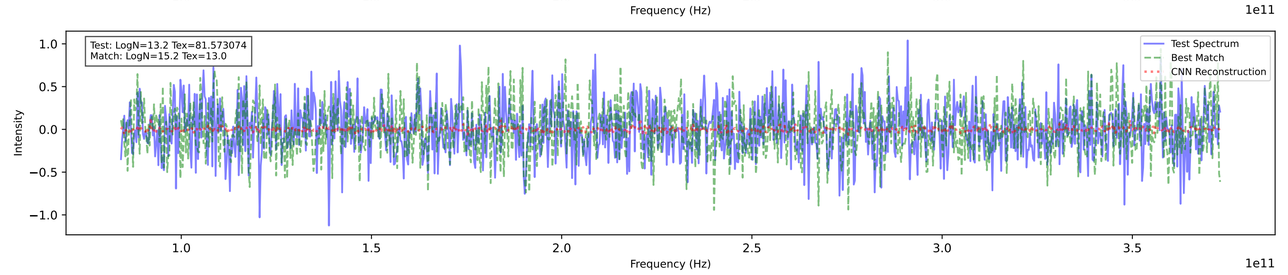

Test: LogN=13.0 Tex=48.26809
Match: LogN=17.9 Tex=10.0
Test Spectrum
Best Match
CNN Reconstruction
Intensity
Frequency (Hz)
1e11

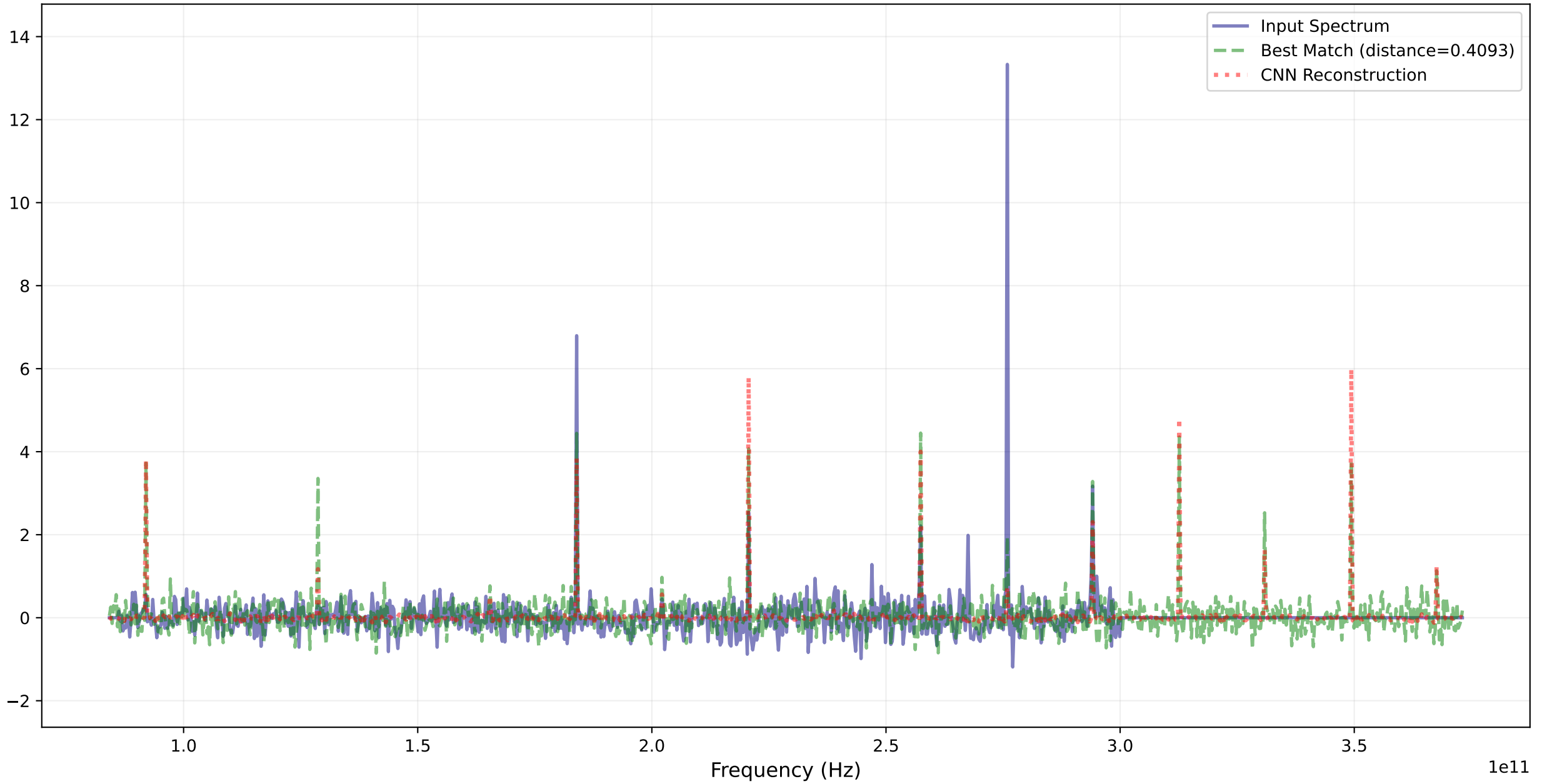

Test: LogN=12.4 Tex=232.98085
Match: LogN=13.5 Tex=10.0
Test Spectrum
Best Match
CNN Reconstruction
Intensity
Frequency (Hz)
1e11


Test: LogN=12.1 Tex=21.97
Match: LogN=15.6 Tex=10.0
Test Spectrum
Best Match
CNN Reconstruction
Intensity
Frequency (Hz)
1e11


Test: LogN=13.9 Tex=137.85849
Match: LogN=15.4 Tex=37.1293
Test Spectrum
Best Match
CNN Reconstruction
Intensity
Frequency (Hz)
1e11


Test: LogN=13.4 Tex=137.85849
Match: LogN=13.9 Tex=81.573074
Test Spectrum
Best Match
CNN Reconstruction
Intensity
Frequency (Hz)
1e11


Test: LogN=13.2 Tex=81.573074
Match: LogN=15.2 Tex=13.0
Test Spectrum
Best Match
CNN Reconstruction
Intensity
Frequency (Hz)
1e11



INPUT SPECTRUM:

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• File: example_4mols_format

• LogN: Not specified

• Tex: Not specified

BEST MATCH IN DATABASE:

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• File: file_JPL_CH3CN_T48.268090000000015_N17.70000000000001_simulate_generate_noisy.txt

• Distance: 0.409281

• LogN: 17.7

• Tex: 48.26809

• Header: //molecules='CH3CN|1' logn=17.7 tex=48.26809 velo=250.0 fwhm=50.0 sourcesize=10.0...