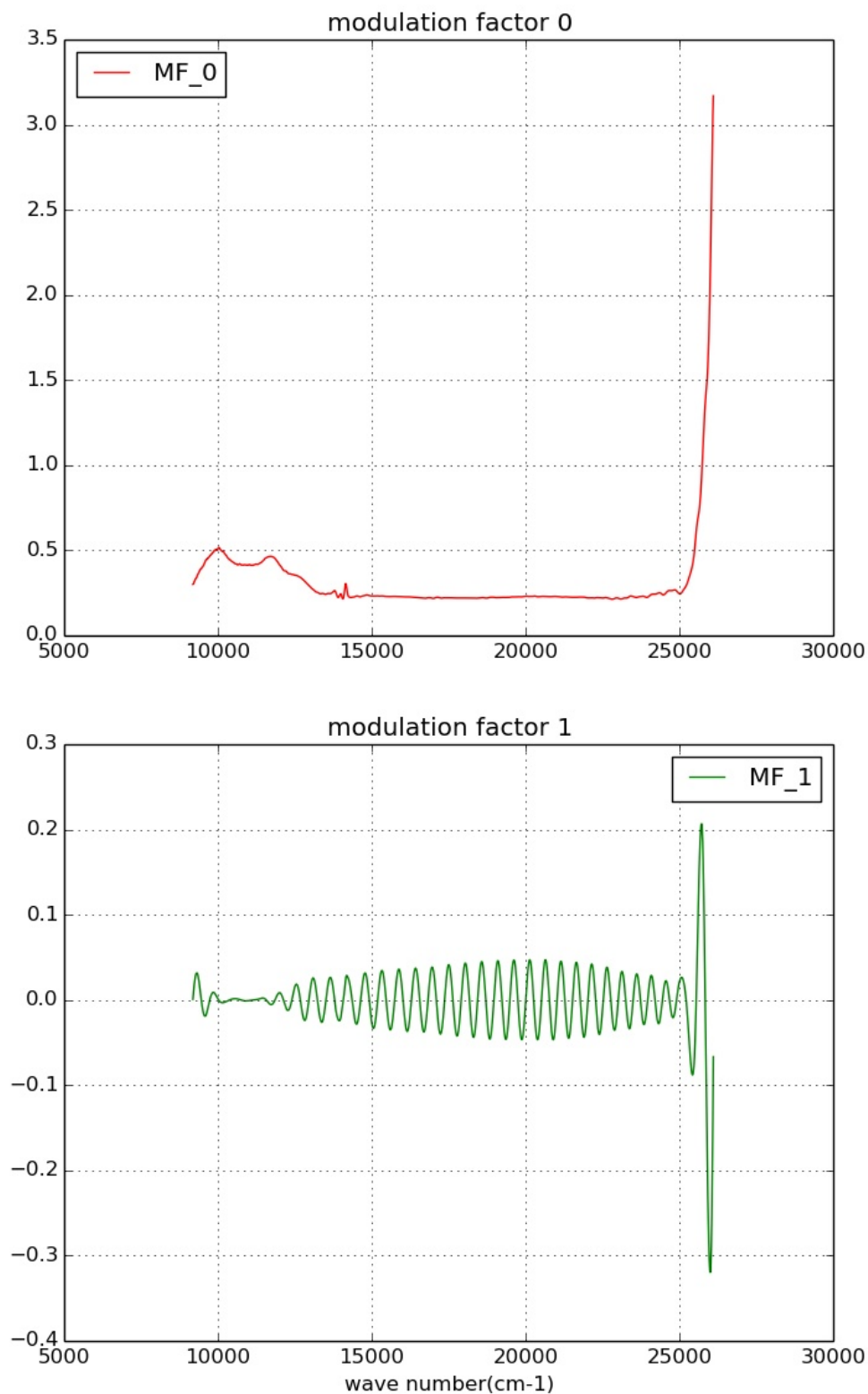# Analysis Report
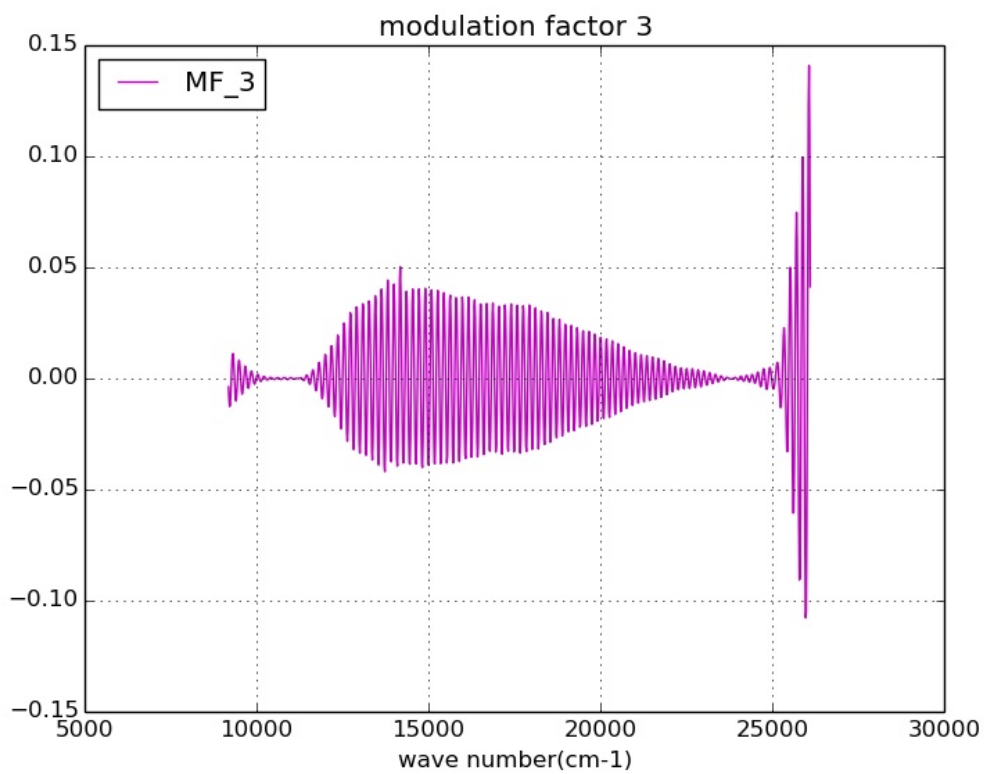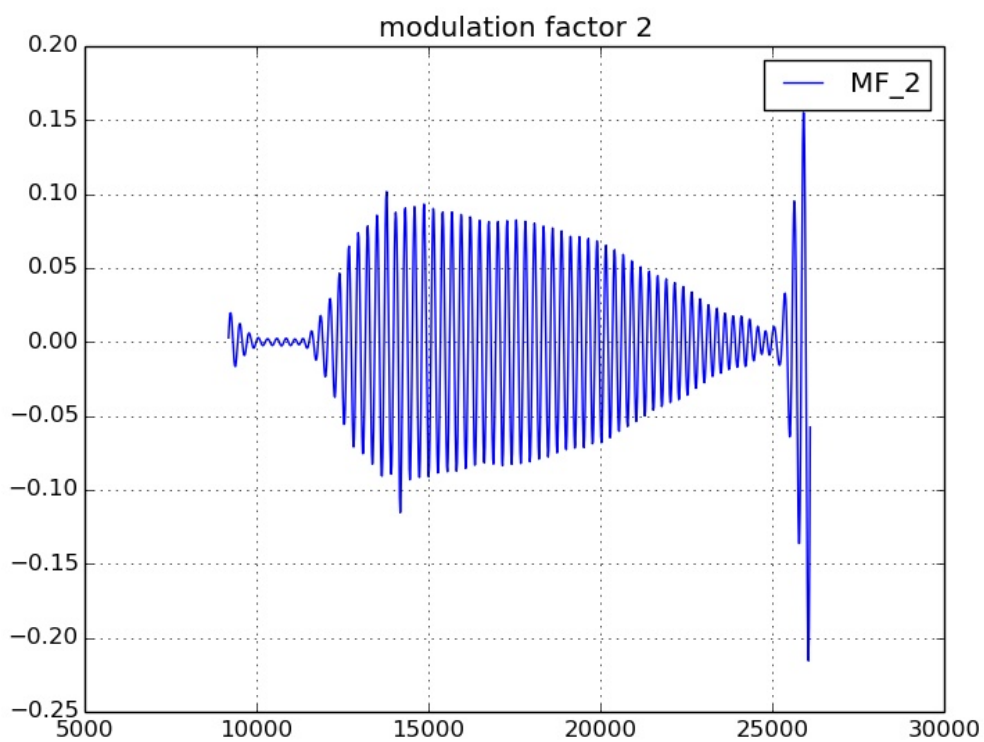
for data '15`C spec'

author: ycroft

date: Sat, May 28 13:47
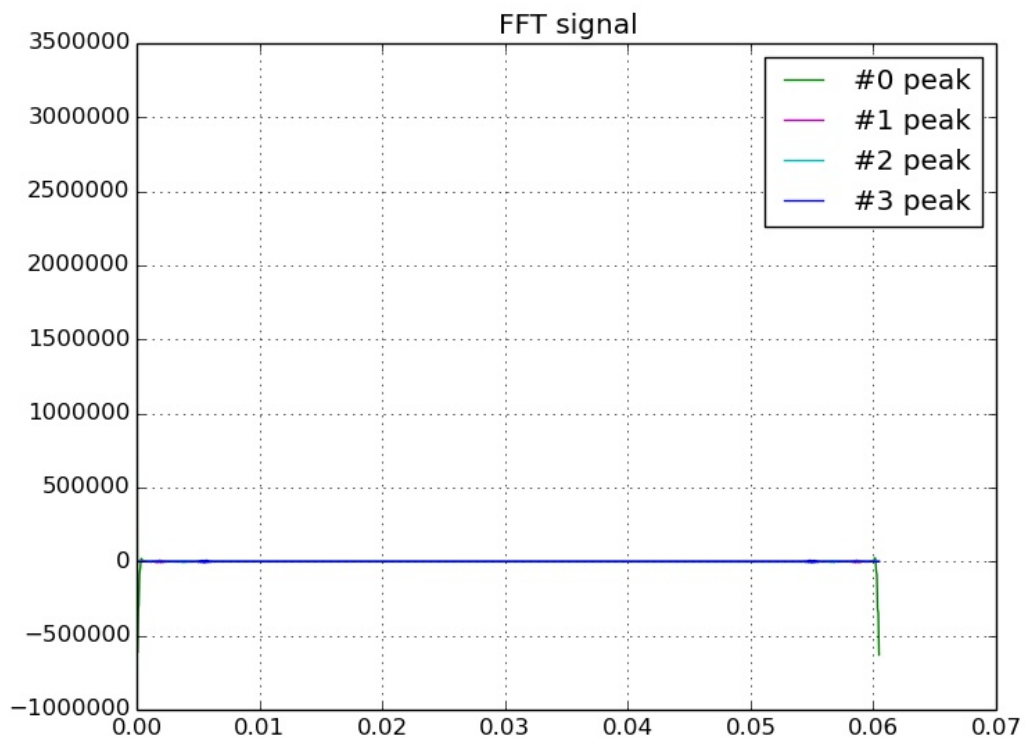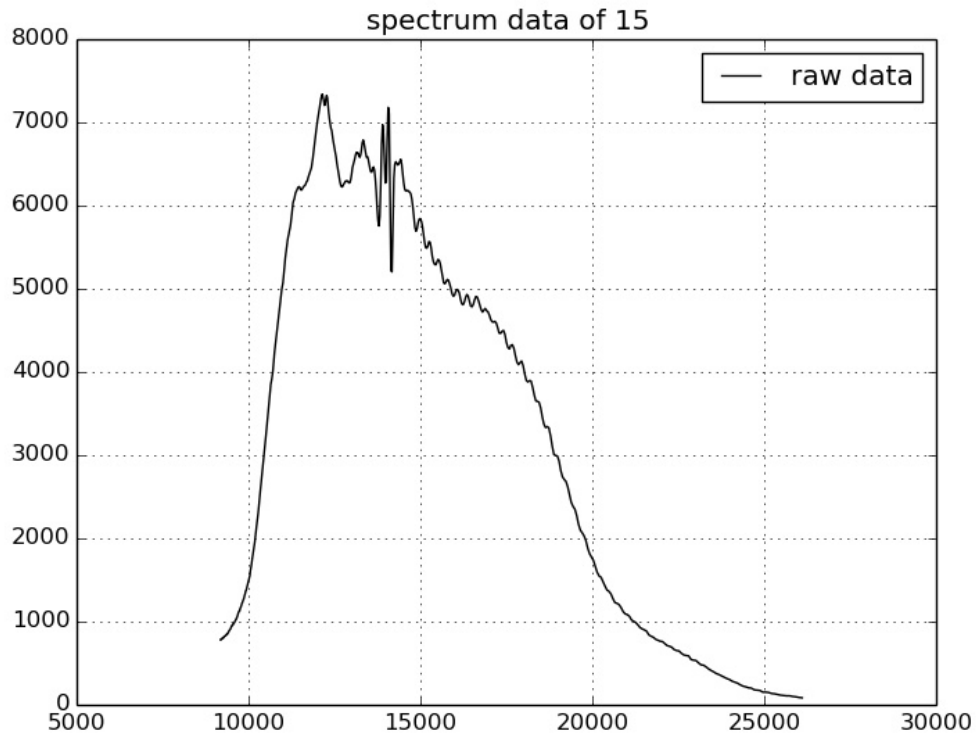
version: v0.1

I. Modulation Factors

These factors are derived from the file 'refer'

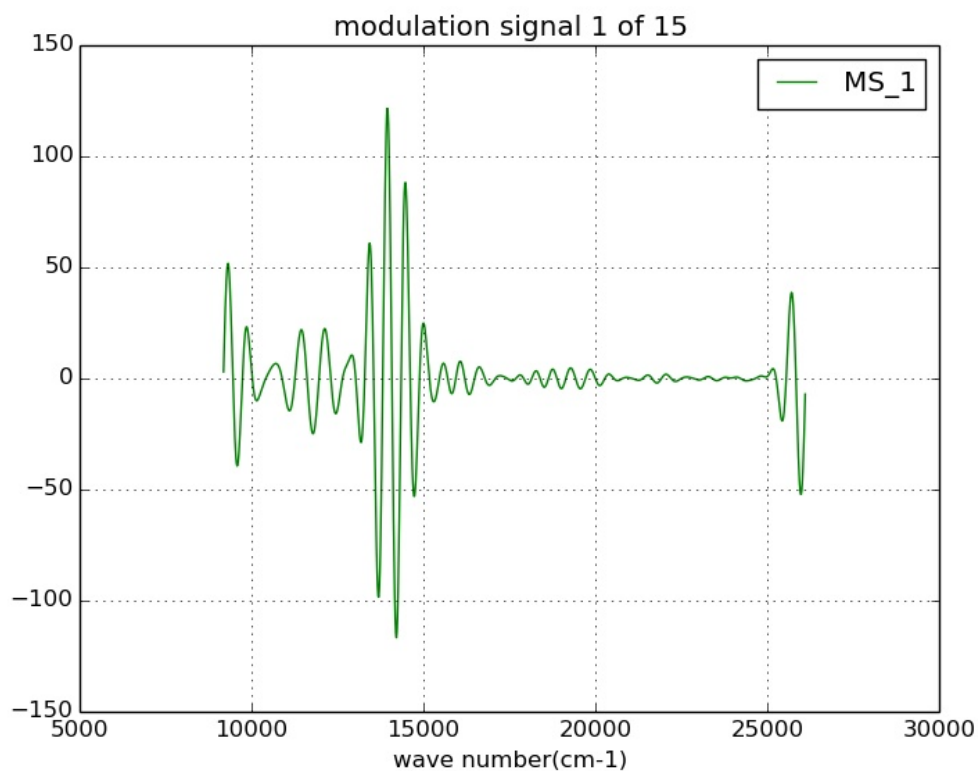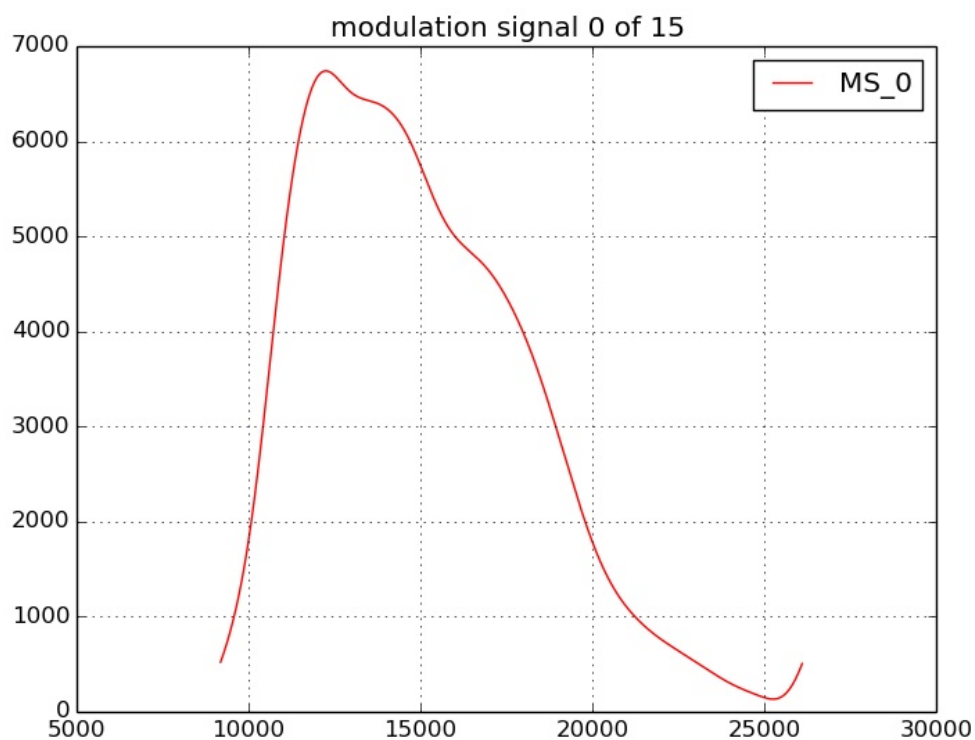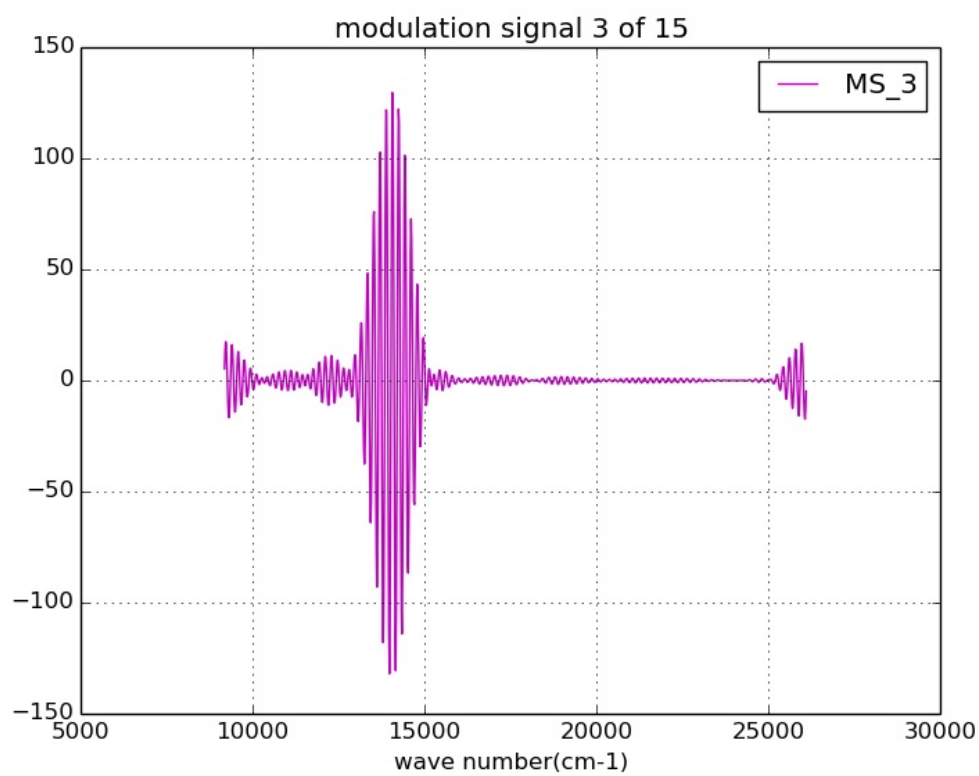modulation factor 2

modulation factor 3

wave number(cm-1)

II. Measured Data & FFT

The data is derived from the file '15', and each fft channel has been filtered.

spectrum data of 15

FFT signal

III. Modulation Signals

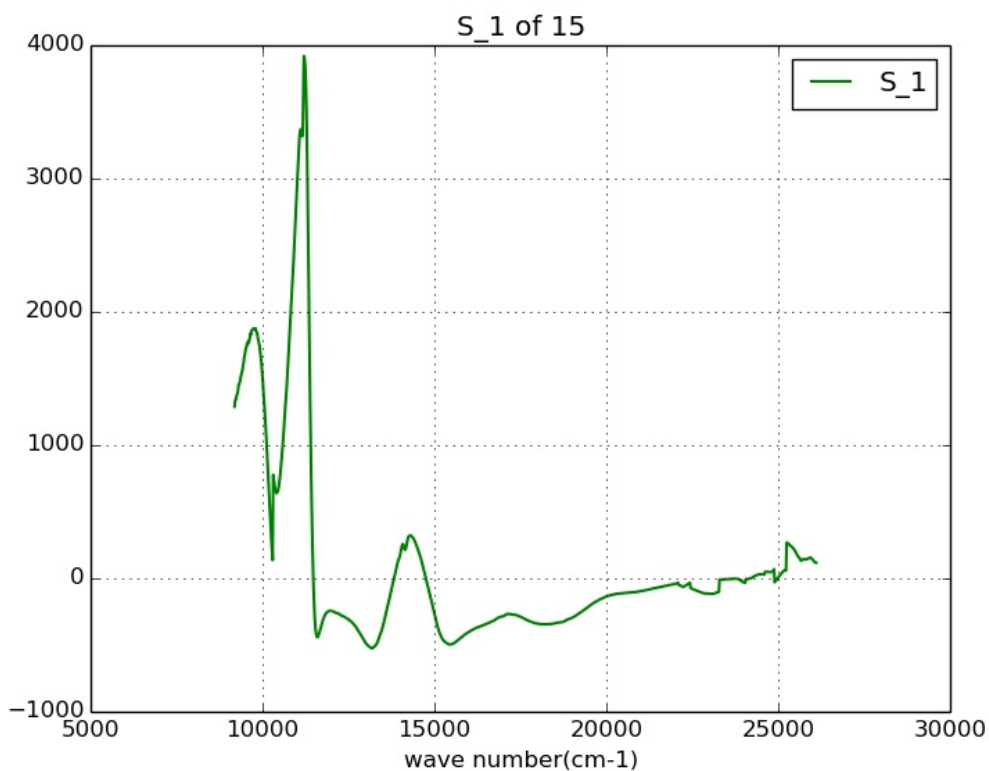These signals are derived by ifft on the corresponding channel.

modulation signal 2 of 15

modulation signal 3 of 15

wave number(cm-1)
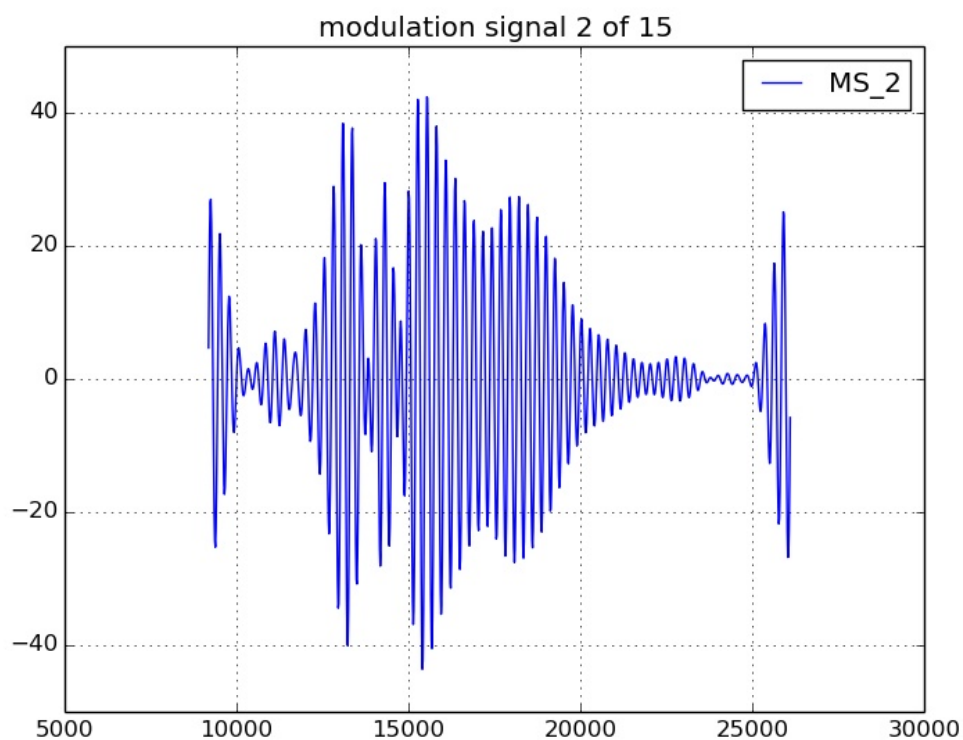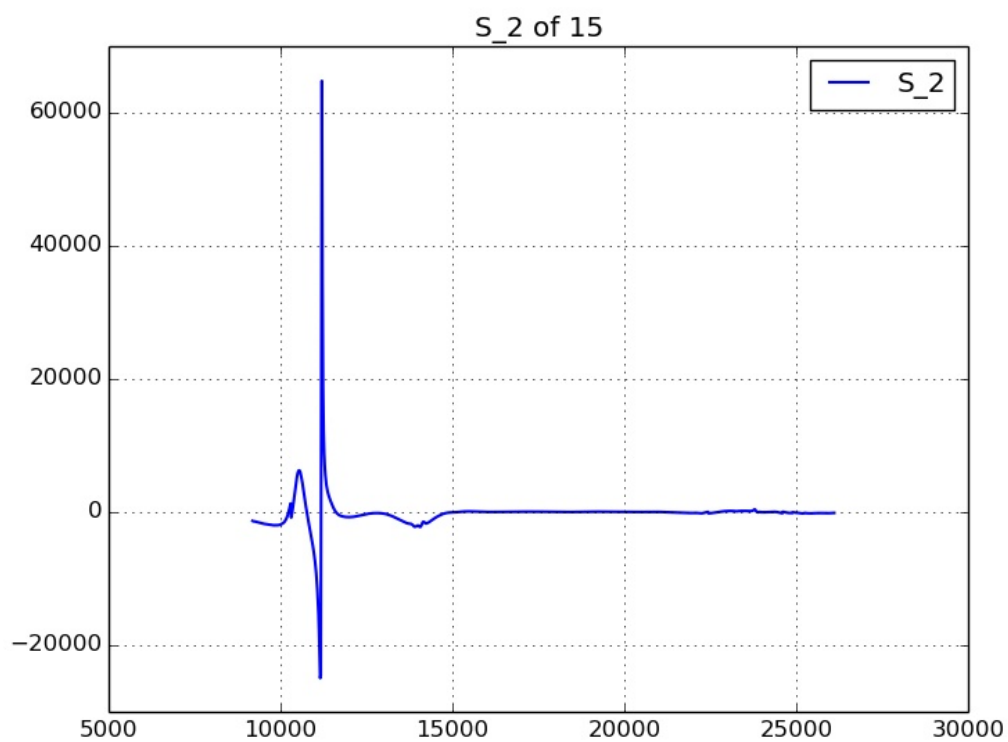
IV. Stokes Vectors

This can be figured out using modulation signals and modulation factors.
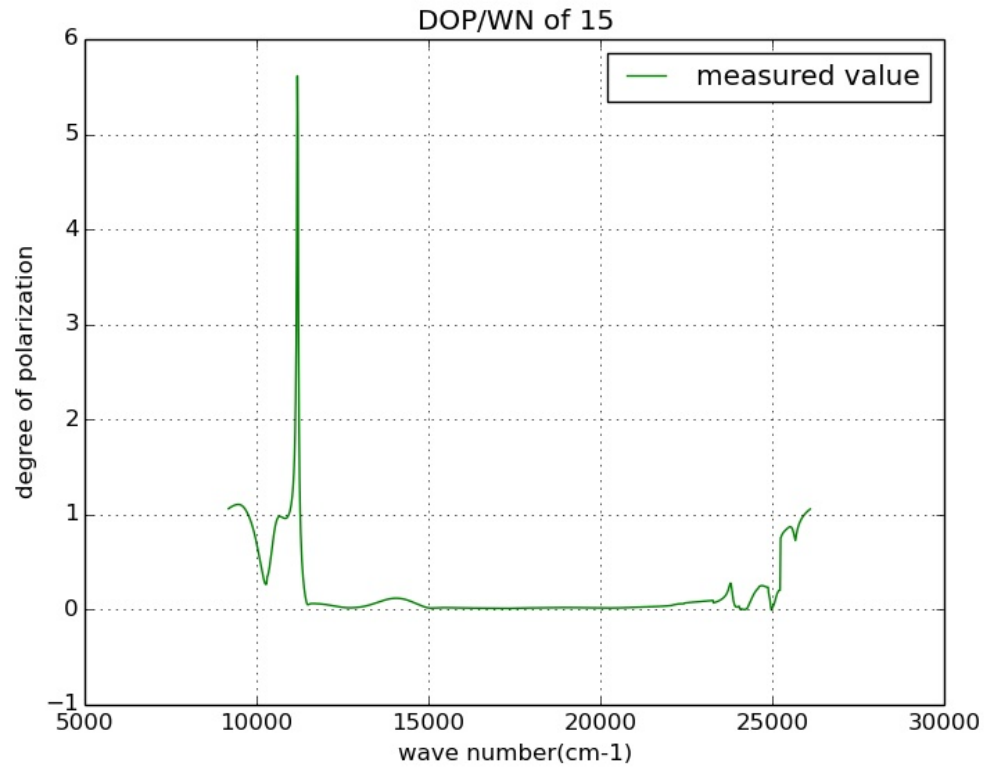
S_2 of 15

S_3 of 15

wave number(cm-1)
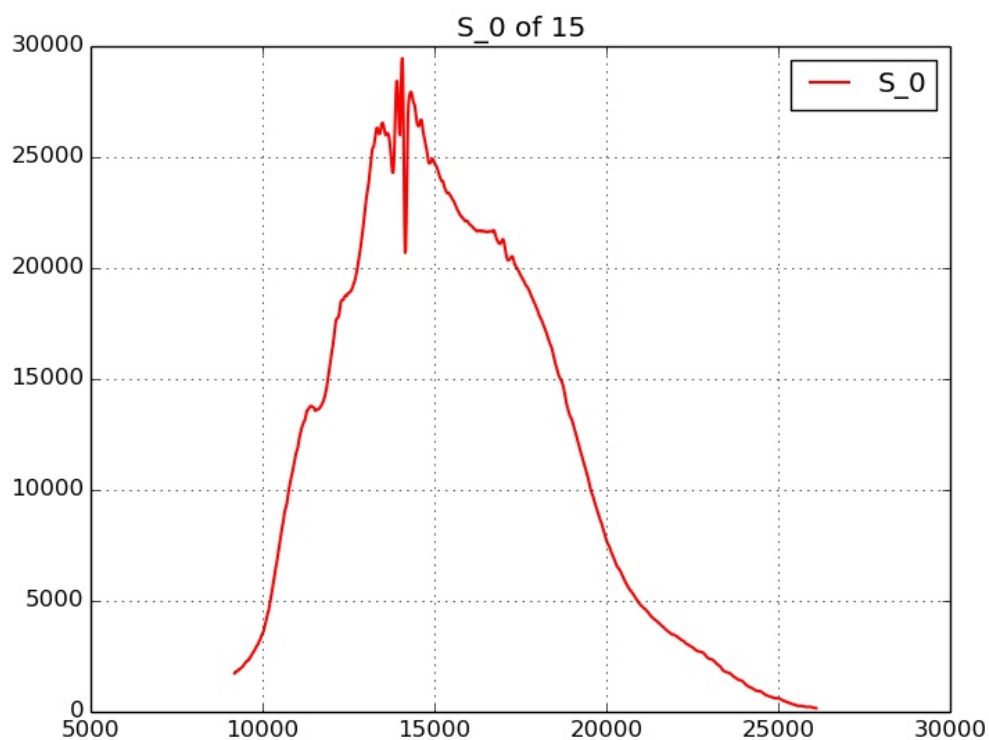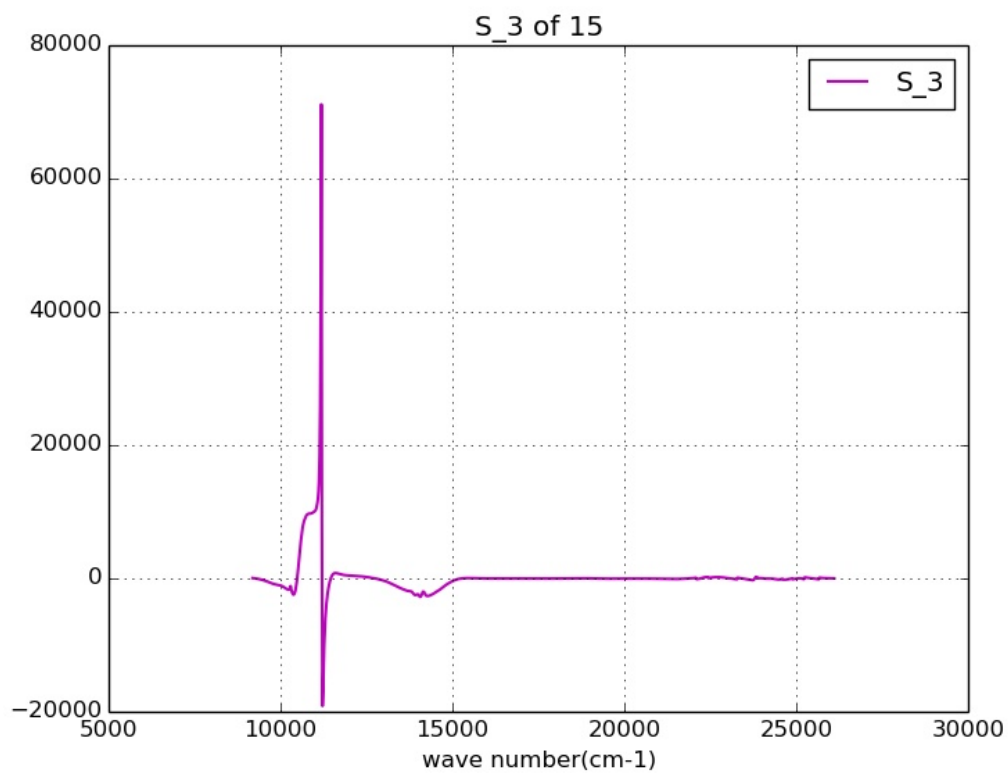
IV. Degree of Polarization

This was figured out using four Stokes vectors.

V. Data Analysis

This was automatically generated by program.

-The number of the peaks recognized in `FFT` datagram:

8 peaks

-The range of the peaks recognized in `FFT` datagram:

[0] -0.000916141770159~ 0.000916141770159

[1] 0.000916141770159 ~ 0.00274842531048

[2] 0.00280753123113 ~ 0.00463981477145

[3] 0.00463981477145 ~ 0.00647209831177

[4] 0.0540523644394   ~ 0.0558846479797

[5] 0.0558846479797   ~ 0.05771693152

[6] 0.057805590401   ~ 0.0595787680206

[7] 0.0595787680206   ~ 0.0613519456403