Analysis Report

for data '60`C spec'

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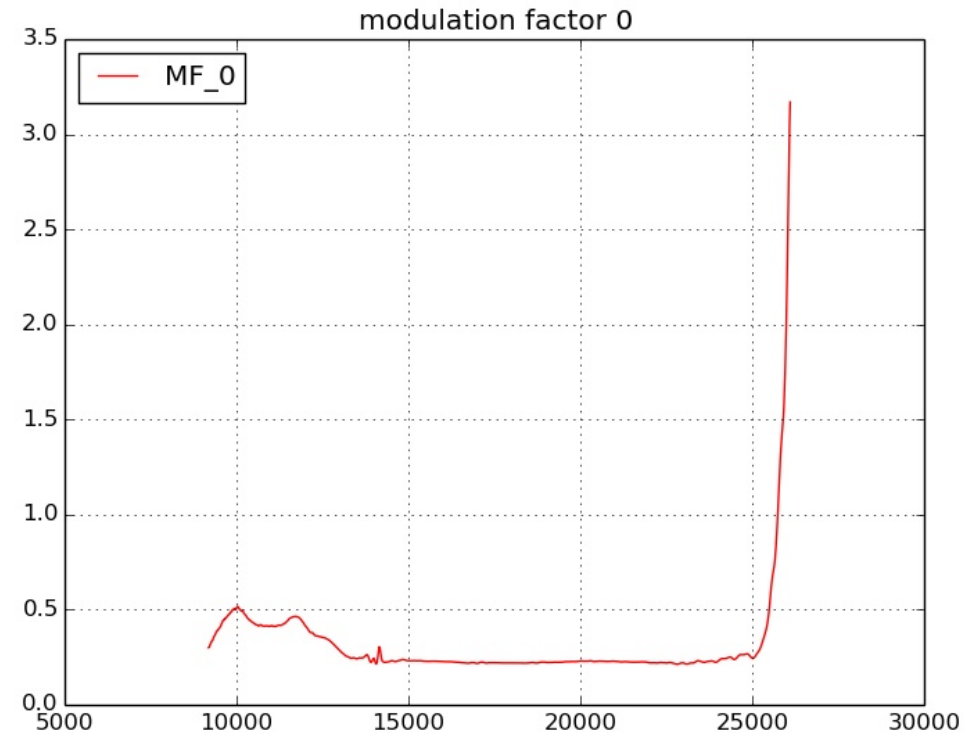
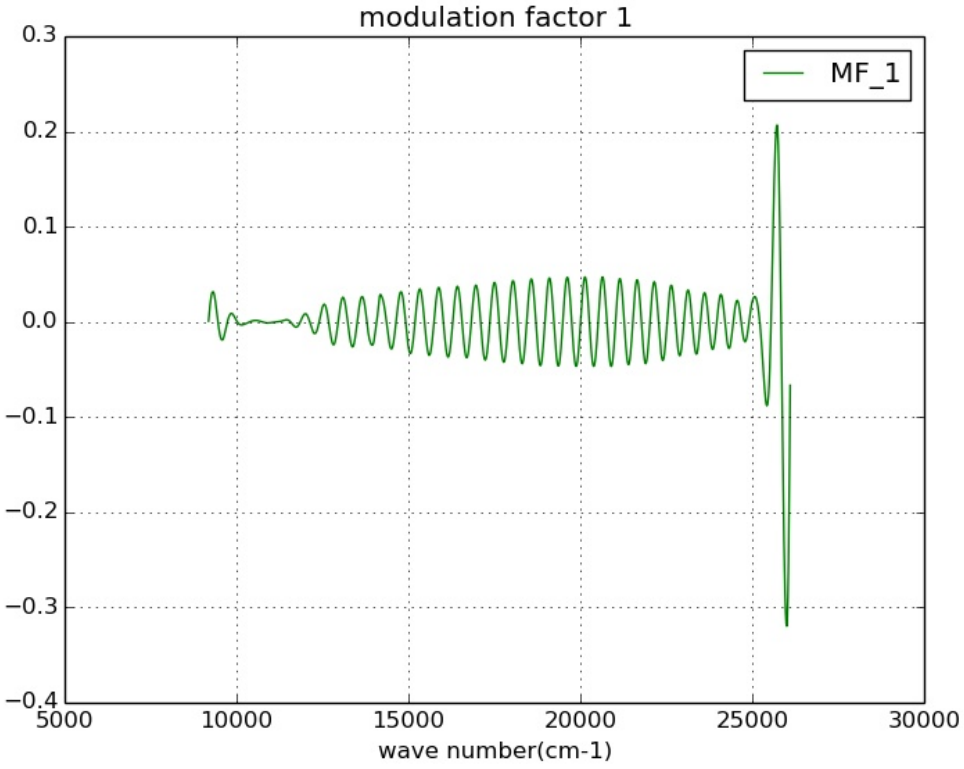
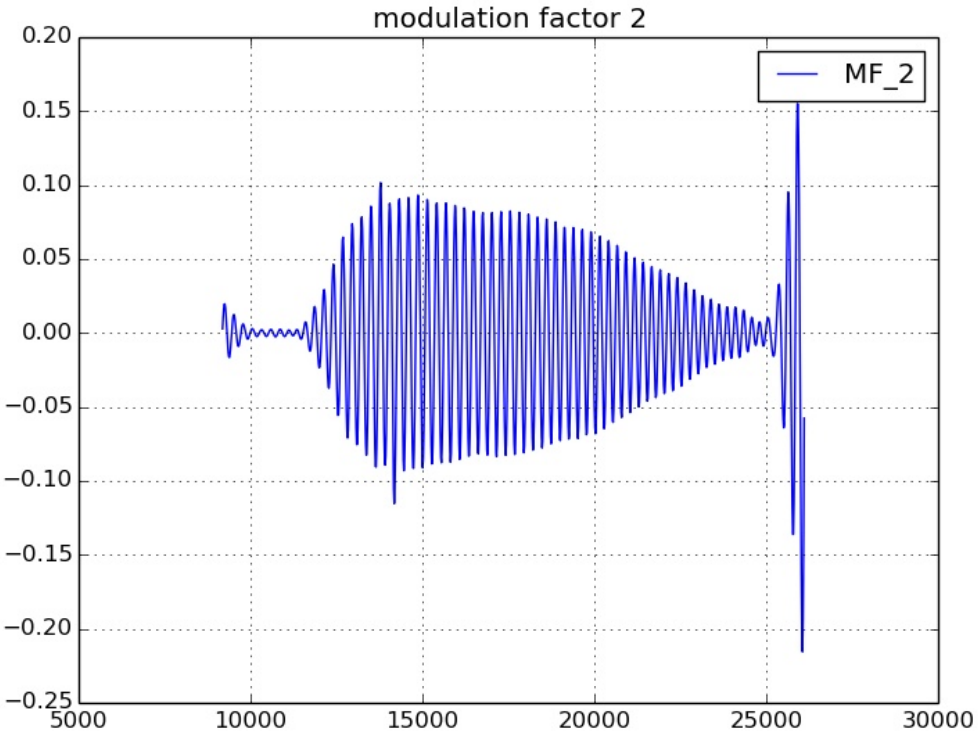
version: v0.1

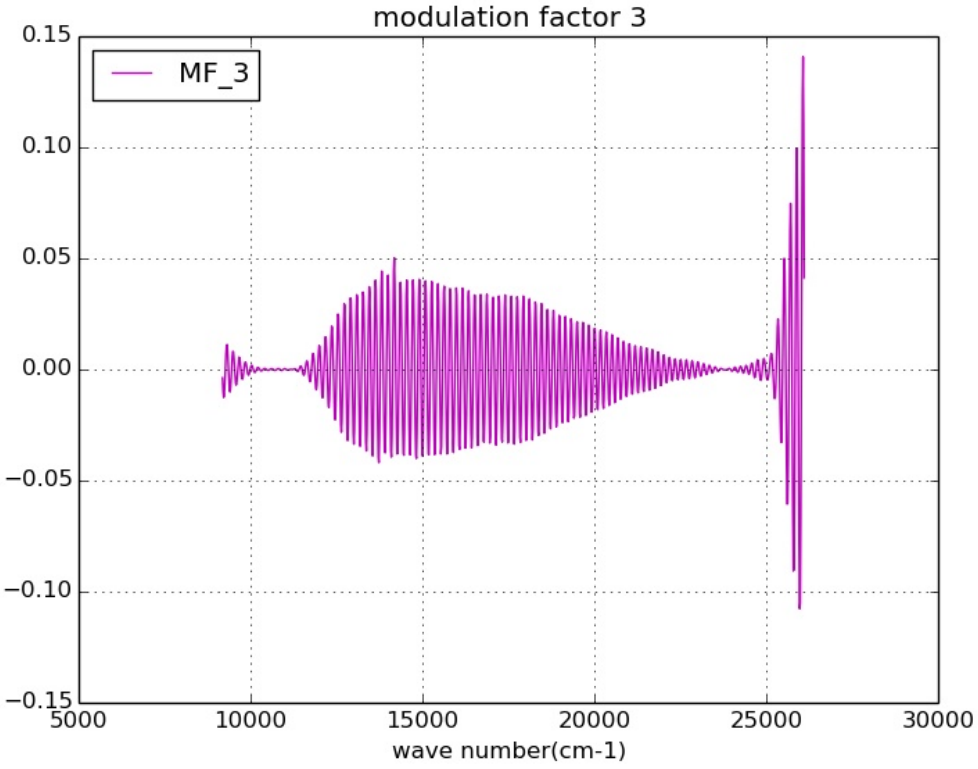
I. Modulation Factors

These factors are derived from the file 'refer'



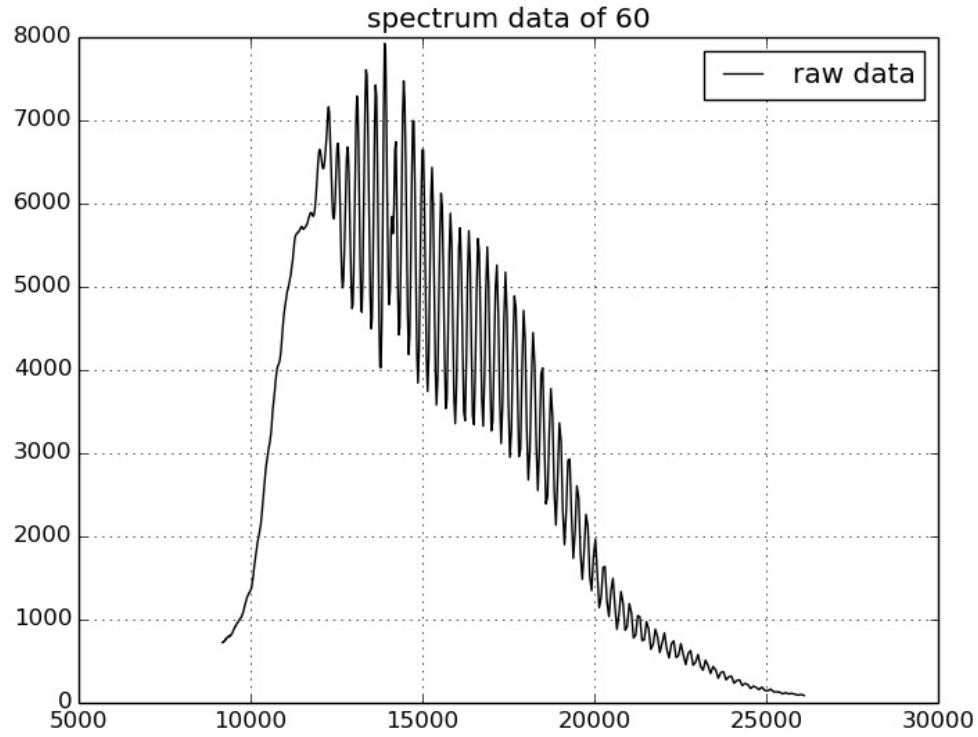


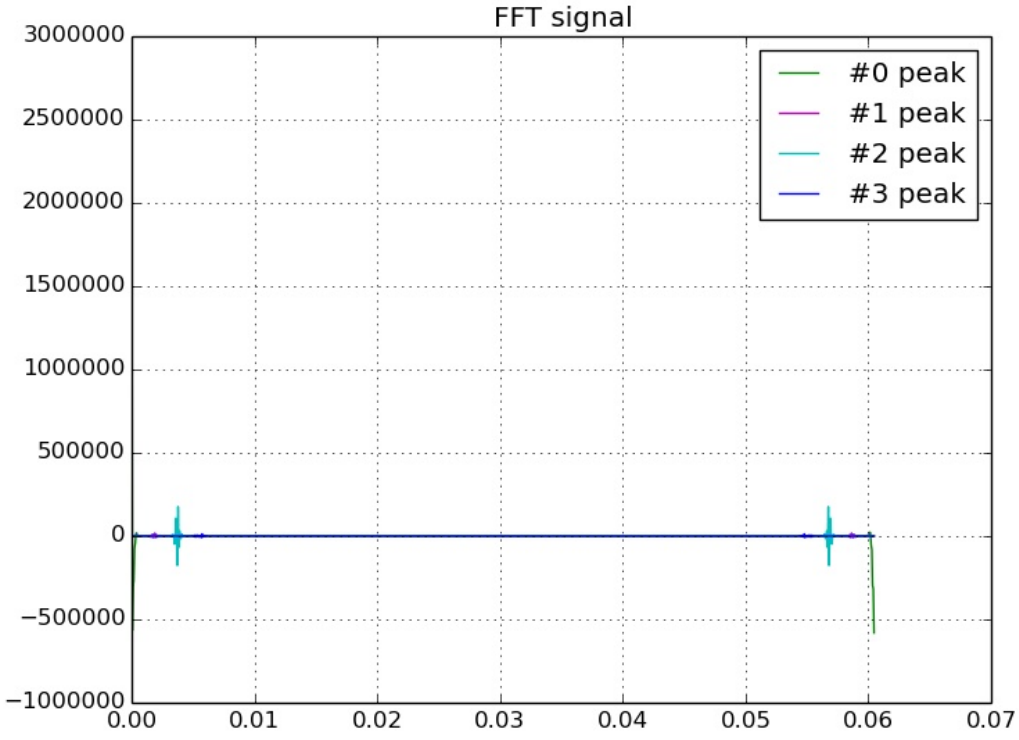

modulation factor 2
MF_2
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
5000
10000
15000
20000
25000
30000


modulation factor 3
MF_3
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
5000
10000
15000
20000
25000
30000
wave number(cm-1)

II. Measured Data & FFT

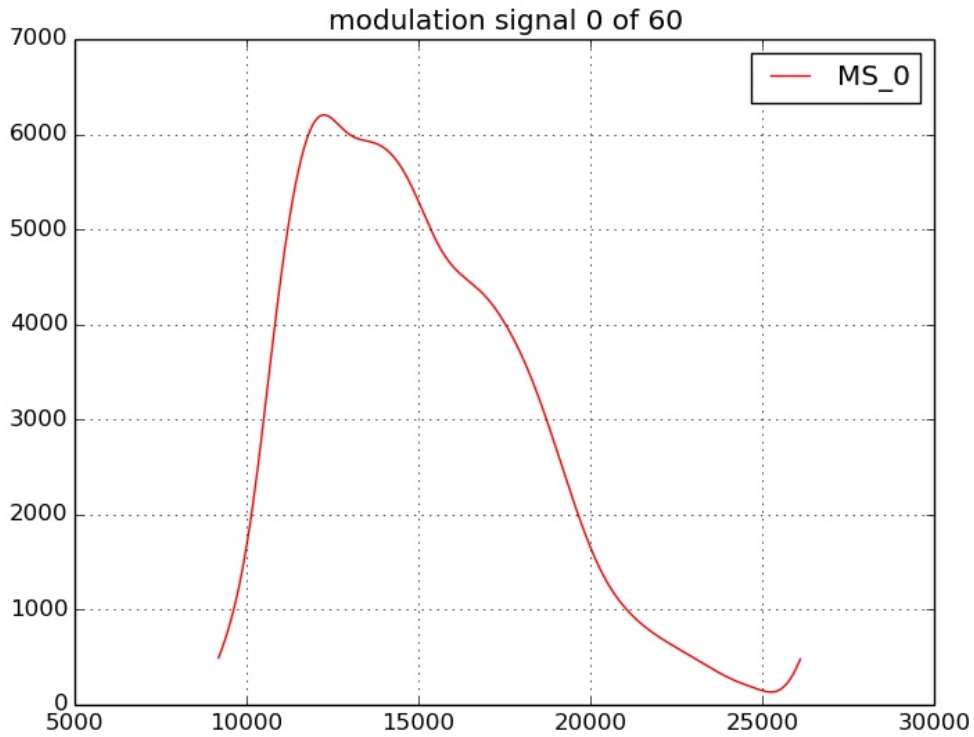
The data is derived from the file '60', and each fft channel has been filtered.

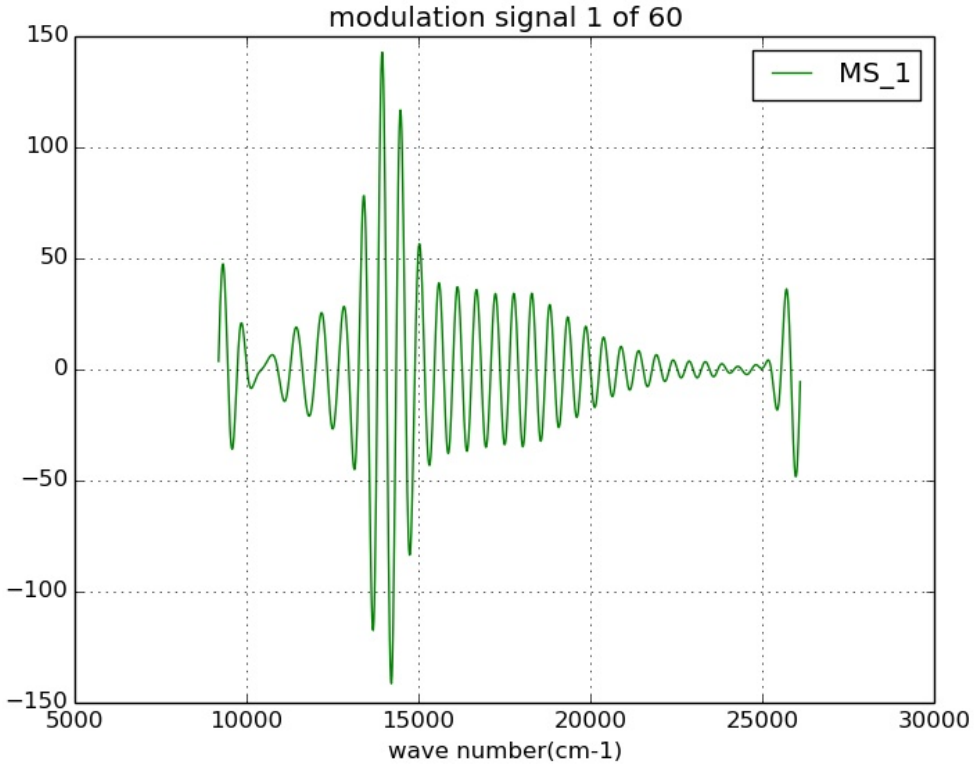


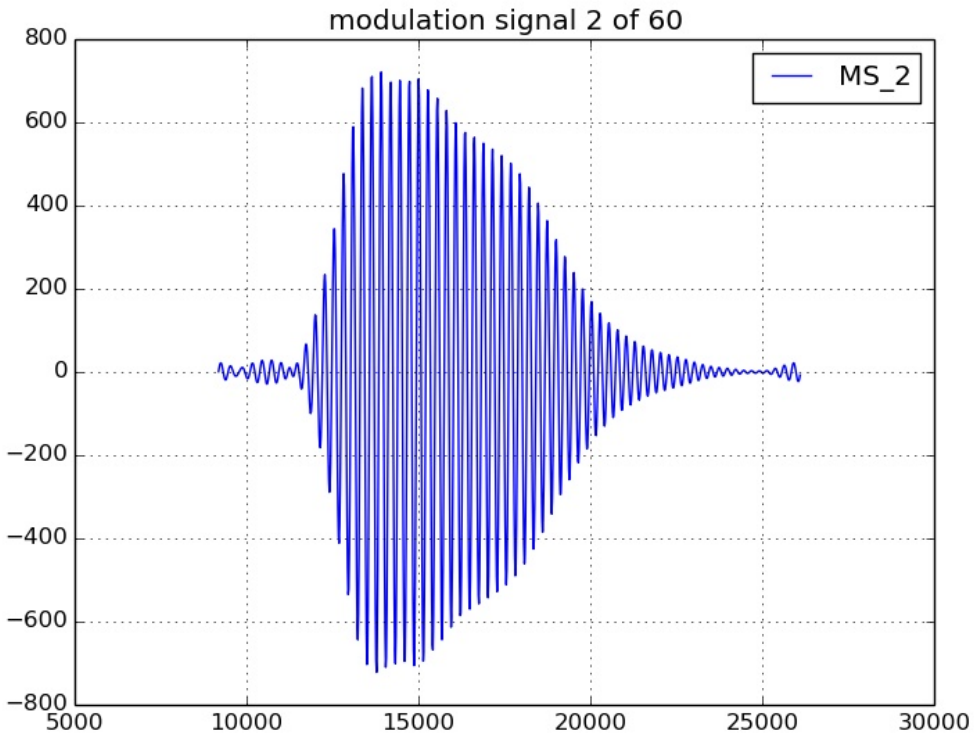


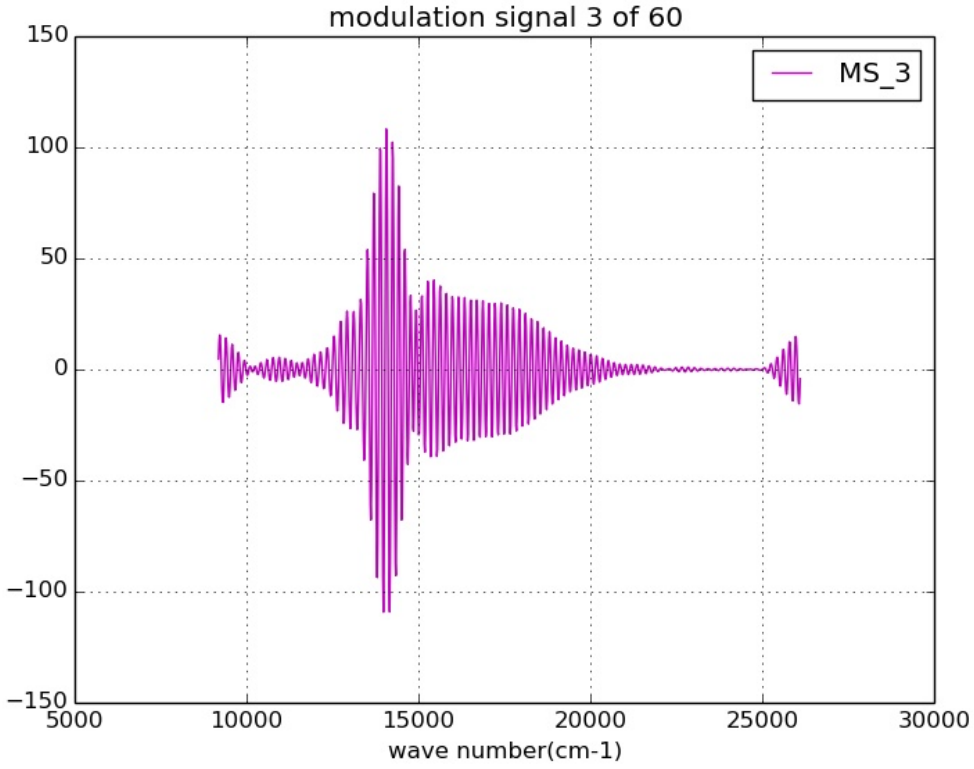
III. Modulation Signals

These signals are derived by ifft on the corresponding channel.



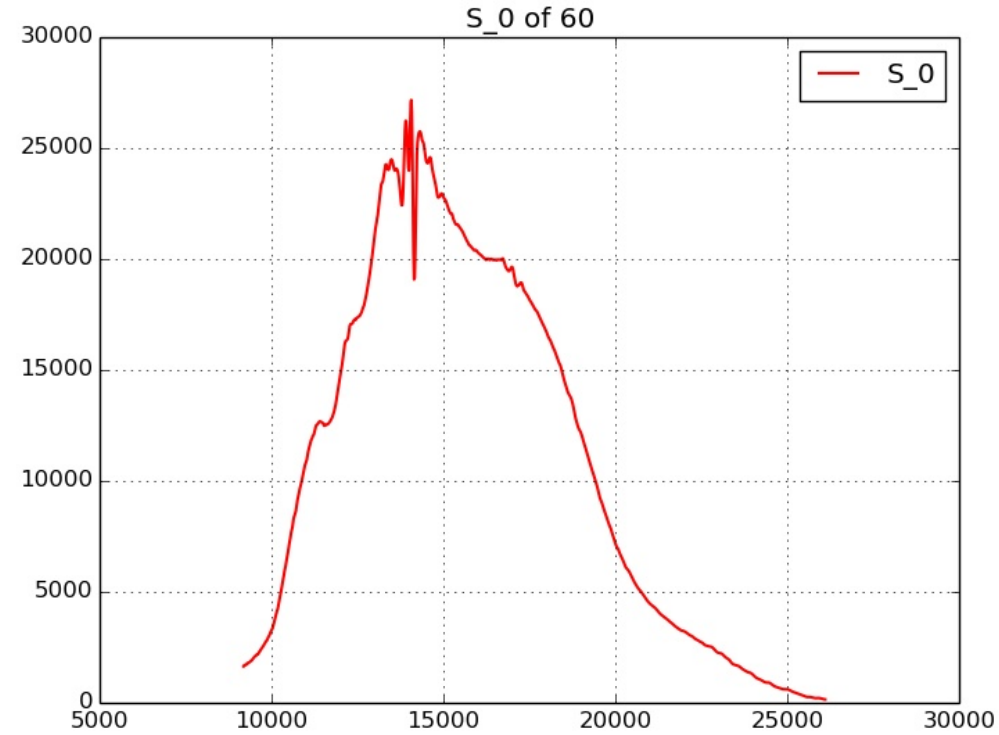


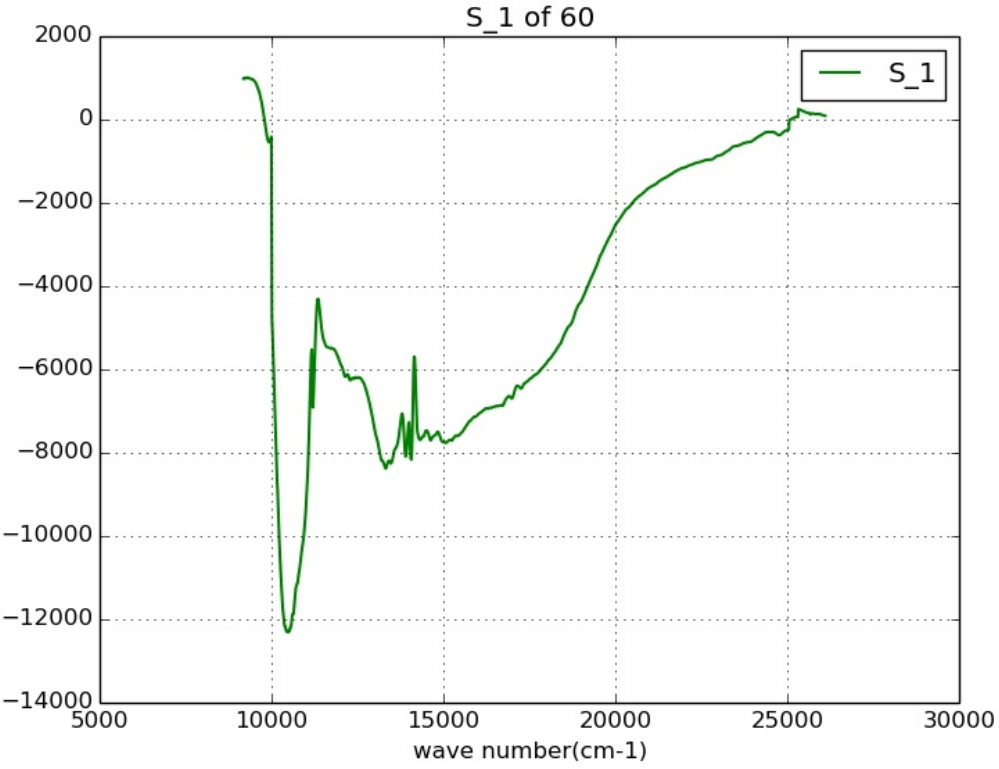

modulation signal 2 of 60
MS_2
800
600
400
200
0
−200
−400
−600
−800
5000
10000
15000
20000
25000
30000

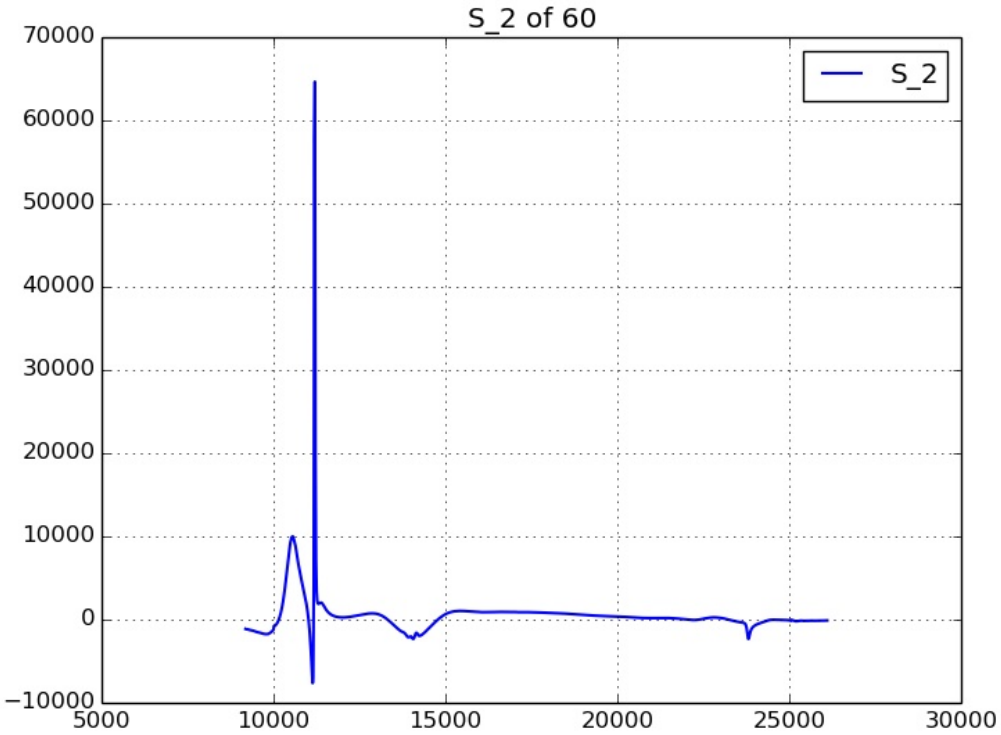

modulation signal 3 of 60
MS_3
150
100
50
0
−50
−100
−150
5000
10000
15000
20000
25000
30000
wave number(cm-1)

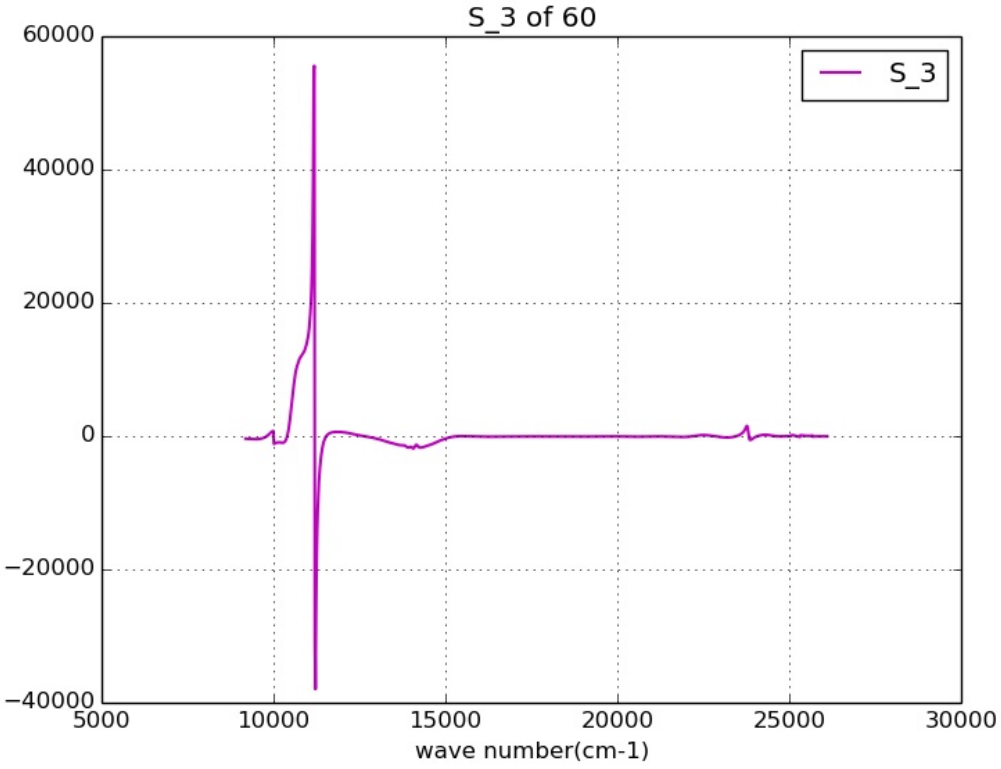
IV. Stokes Vectors

This can be figured out using modulation signals and modulation factors.



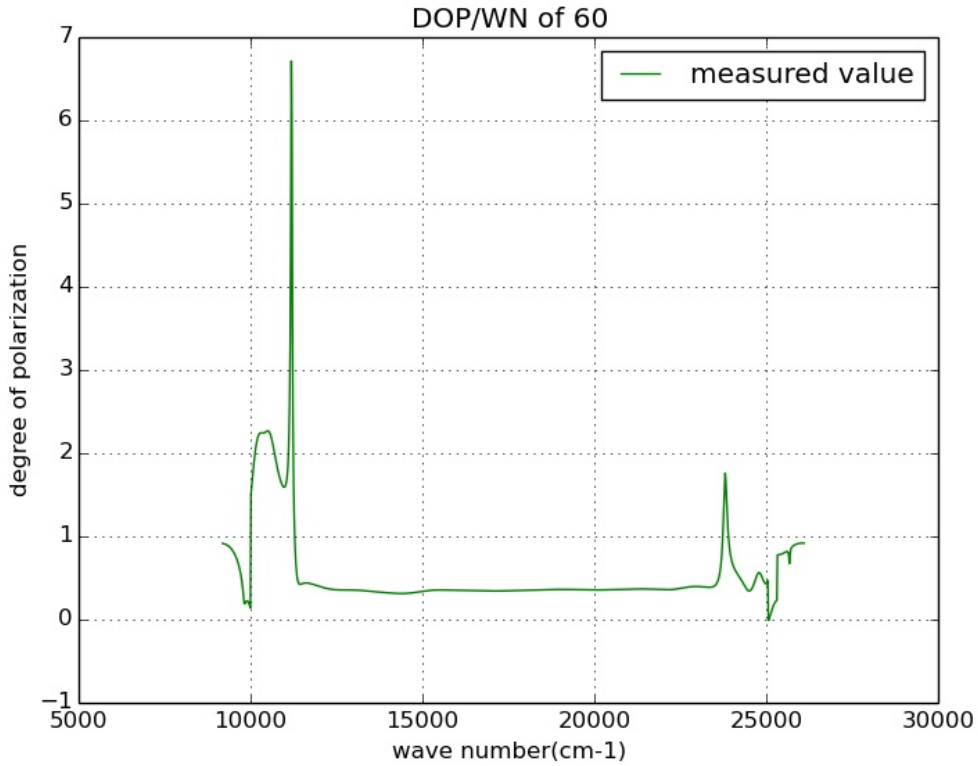



S_2 of 60
S_2
70000
60000
50000
40000
30000
20000
10000
0
−10000
5000
10000
15000
20000
25000
30000


S_3 of 60
S_3
60000
40000
20000
0
−20000
−40000
5000
10000
15000
20000
25000
30000
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