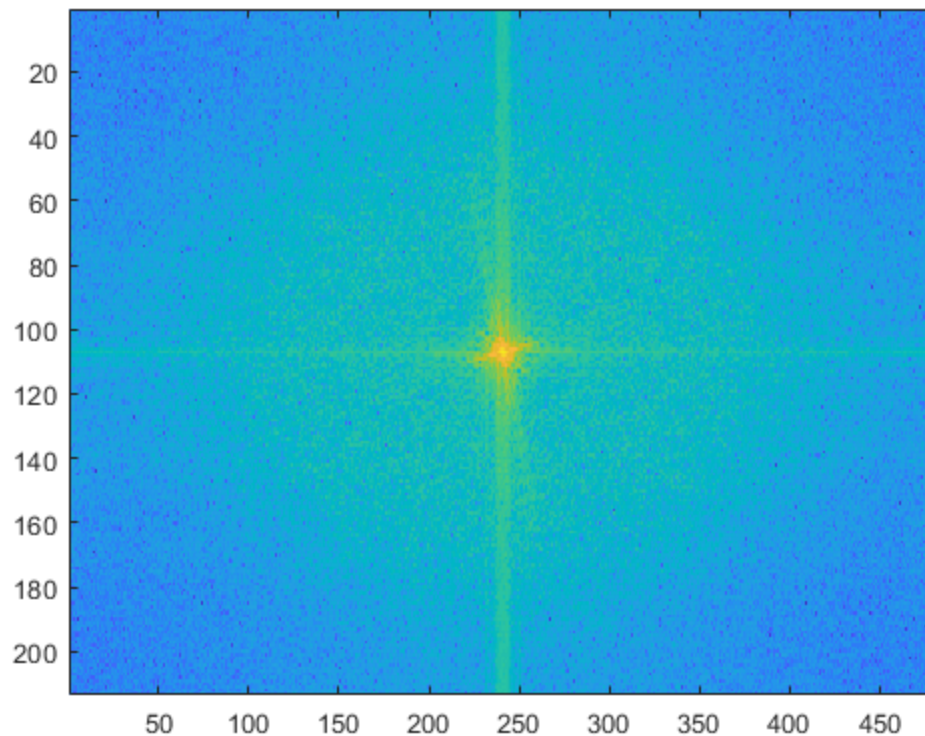```
I = imread('Data\3.jpg');
I = rgb2gray(I);
I1 = I(2294:2342, 2254:2326);
imwrite(I1, 'Data\3_Inpluse.jpg');
I2 = fftshift(fft2(im2double(I1)));
imagesc(log(abs(I2)));
I3 = I(2298:2342, 1302:1374);
imwrite(I3, 'Data\3_Gauss.jpg');
I4 = fftshift(fft2(im2double(I3)));
imagesc(log(abs(I4)));
I5 = I(1910:2150, 1286:1590);
imwrite(I5, 'Data\3_Sin.jpg');
I6 = fftshift(fft2(im2double(I5)));
imagesc(log(abs(I6)));
I7 = I(494:706, 586:1066);
imwrite(I7, 'Data\3_Rect.jpg');
I8 = fftshift(fft2(im2double(I7)));
imagesc(log(abs(I8)));
```



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