**Experiment 1**

**Preparing the signal:**

[xin ,fs] = audioread('eric.wav');

%sound(xin,fs);

% Extract only one channel if the audio is stereo

x = xin(:,1);

% Create time axis

t = linspace(0,length(x)/fs, length(x));

%plot in time domain

figure(1)

subplot(4,1,1)

plot(t,xin)

title('Original signal in Time domain')

%fft

X = fftshift(fft(x));

X\_ABS = abs(X);

W = angle(X);

N = length(x);

F = linspace(-fs/2,fs/2,N);

%plot in frequency domain

subplot(4,1,2)

plot(F,X\_ABS)

title('Original signal in Frequency domain')

%--ideal LPF at 4000hz--%

N = length(x);

n = N/fs;

r\_limit = round((fs/2-4000)\*n);

l\_limit = (N-r\_limit+1);

X([1:r\_limit l\_limit:N]) = 0;

X\_ABS = abs(X);

%plot in frequency domain

subplot(4,1,3)

plot(F,X\_ABS)

title('LPF(4khz) Signal in Frequency domain')

x = real(ifft(ifftshift(X)));

%plot in time domain

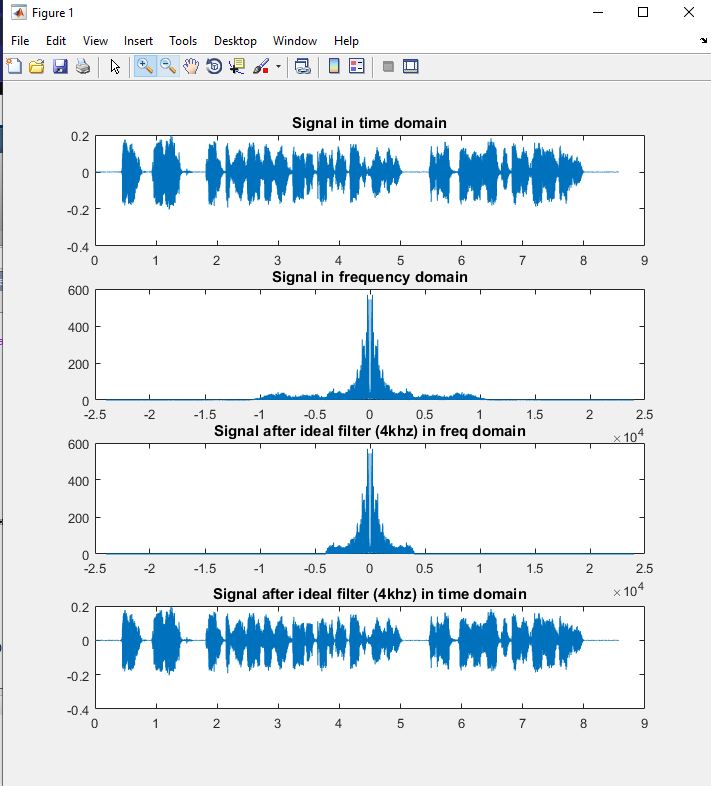
subplot(4,1,4)

plot(t,xin)

title('LPF(4khz) Signal in Time domain')

%sound(x,fs);

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\Original audio filtered.wav',x,fs);



After reading the audio file, we used an ideal 4khz LPF in the time domain and plotted it.

**Computing the Double Side Band – Supressed Carrier transmitted signal:**

%%%%%%%%%DSB-SC%%%%%%%%%%%%%%%

fc = 100000; %Carrier frequency

new\_fs = 5\*fc; % new sample rate for message

% resampling message signal

msg\_resampled = resample(x,new\_fs,fs);

% Creating Time axis for resampled signal

t\_end = length(msg\_resampled)./new\_fs;

t = linspace(0,t\_end, length(msg\_resampled));

% modulating

carrier = cos(2\*pi\*fc\*t);

carrier = carrier'; % transpose to be a row matrix

% Shifting the signal to fc and -fc

send\_signal = msg\_resampled.\*carrier; % Multiplication in time domain

% freq domain

SEND\_SIGNAL = fftshift(fft(send\_signal));

SEND\_SIGNAL\_ABS = abs(SEND\_SIGNAL);

N = length(send\_signal);

F = linspace(-new\_fs/2,new\_fs/2,N);

figure(2)

subplot(5,1,1)

plot(t,msg\_resampled)

title('Msg signal in Time domain')

MSG\_resampled = fftshift(fft(msg\_resampled));

MSG\_resampled\_MG = abs(X);

MSG\_resampled\_PHASE = angle(X);

N = length(X);

MSG\_F = linspace(-new\_fs/2,new\_fs/2,N);

subplot(5,1,2)

plot(MSG\_F,MSG\_resampled\_MG)

title('Msg signal in Freq domain')

subplot(5,1,3)

plot(F,SEND\_SIGNAL\_ABS)

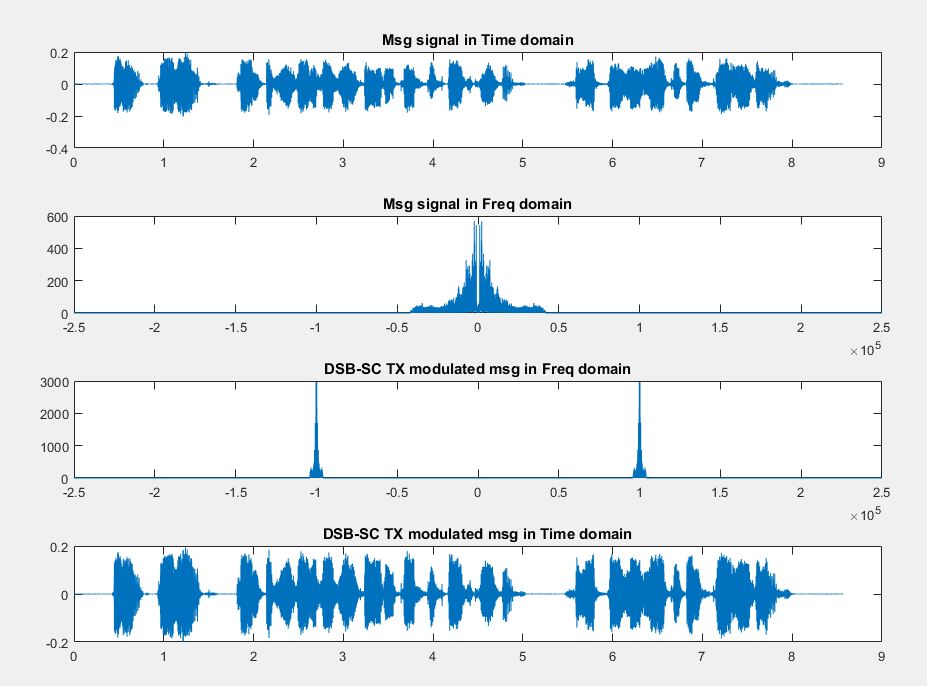
title('DSB-SC TX modulated msg in Freq domain')

subplot(5,1,4)

plot(t,send\_signal)

title('DSB-SC TX modulated msg in Time domain')

Using carrier frequency of 100 KHz multiplied by the message signal. Plotting its frequency and time domain signals.



**DSB-SC envelope detector receiver:**

%%%%%DSB-SC Envelope Receiver%%%%%%

envelop = abs(hilbert(send\_signal));

subplot(5,1,5)

plot(t,envelop)

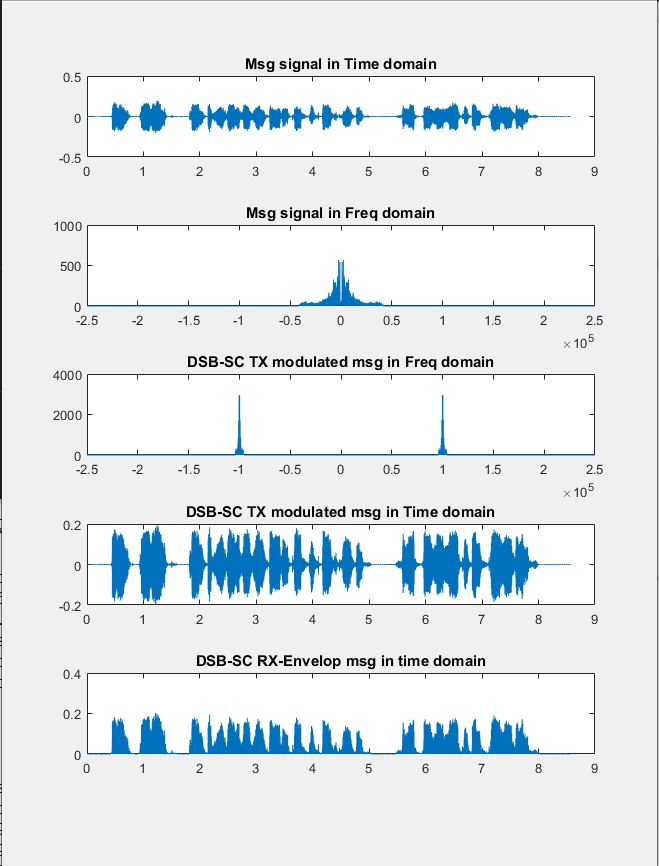
title('DSB-SC RX-Envelop msg in time domain')

% Resample down to play audio

original\_audio = resample(envelop,fs,new\_fs);

%sound(original\_audio,fs);

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\DSB-SC Envelope.wav',original\_audio,fs);



Using an envelope detector we reobtain the message, but it seems malformed as it has some ticking noises also the bottom half of sent signal is missing.

**DSB-SC Coherent detector receiver without noise:**

%%%%%%%%COHERENT Detector 0 SNR %%%%%%%%

carrier = cos(2\*pi\*fc\*t);

carrier = carrier'; % transpose to be a row matrix

% coherent (multiply msg with carrier)

coherent\_detector\_signal = send\_signal.\*carrier;

COHERENT\_DETECTOR\_SIGNAL = fftshift(fft(coherent\_detector\_signal));

% freq domain plot (befor Ideal LBF)

N = length(coherent\_detector\_signal);

F = linspace(-new\_fs/2,new\_fs/2,N);

figure(3)

subplot(7,1,1)

plot(t,msg\_resampled)

title('Msg signal in Time domain')

subplot(7,1,2)

plot(MSG\_F,MSG\_resampled\_MG)

title('Msg signal in Freq domain')

subplot(7,1,3)

plot(F,SEND\_SIGNAL\_ABS)

title('DSB-SC TX modulated msg in Freq domain')

subplot(7,1,4)

plot(t,send\_signal)

title('DSB-SC TX modulated msg in Time domain')

subplot(7,1,5)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (SNR=0) msg in frequency domain (befor Ideal LBF)')

%------------- LBF ---------------%

N = length(coherent\_detector\_signal);

n = N/new\_fs;

r\_limit = round((new\_fs/2-4000)\*n);

l\_limit = (N-r\_limit+1);

COHERENT\_DETECTOR\_SIGNAL([1:r\_limit l\_limit:N]) = 0;

coherent\_detector\_signal\_LPF = real(ifft(ifftshift(COHERENT\_DETECTOR\_SIGNAL)));

%------------- LBF ---------------%

% As a result of multipling the received signal with carrier there will be high freq components

% at 2fc. So, we put the filter to remove them.

% freq domain plot (after Ideal LBF)

subplot(7,1,6)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (SNR=0) msg in frequency domain ')

% time domain plot

subplot(7,1,7)

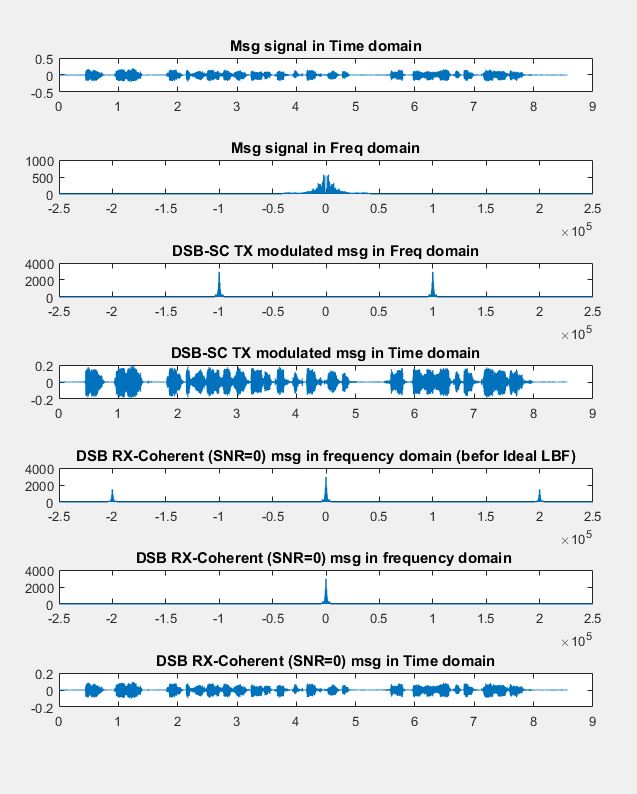
plot(t,coherent\_detector\_signal\_LPF)

title('DSB RX-Coherent (SNR=0) msg in Time domain')

original\_msg = resample(coherent\_detector\_signal\_LPF,fs,new\_fs);

%sound(original\_msg,fs)

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\DSB-SC Coherent 0 SNR.wav',original\_msg,fs);



Sound is perfectly audible.

**DSB-SC Coherent detector receiver with 10dB SNR:**

%%%%%%%%%%%%%%%%% COHERENT Detector 10 SNR %%%%%%%%%%%%%%%%%%%%

% add noise

send\_signal\_noisy = awgn(send\_signal,10);

figure(4)

subplot(7,1,1)

plot(t,msg\_resampled)

title('Msg signal in Time domain')

subplot(7,1,2)

plot(MSG\_F,MSG\_resampled\_MG)

title('Msg signal in Freq domain')

send\_signal\_noisy\_FREQ = fftshift(fft(send\_signal\_noisy));

N = length(send\_signal\_noisy\_FREQ);

F = linspace(-new\_fs/2,new\_fs/2,N);

subplot(7,1,3)

plot(F,abs(send\_signal\_noisy\_FREQ))

title('DSB-SC with 10 SNR signal in Freq domain')

subplot(7,1,4)

plot(t,send\_signal\_noisy)

title('DSB-SC with 10 SNR signal in Time domain')

carrier = cos(2\*pi\*fc\*t);

carrier = carrier'; % transpose to be a row matrix

% coherent (multiply msg with carrier)

coherent\_detector\_signal = send\_signal\_noisy.\*carrier;

COHERENT\_DETECTOR\_SIGNAL = fftshift(fft(coherent\_detector\_signal));

% freq domain plot (befor Ideal LBF)

N = length(coherent\_detector\_signal);

F = linspace(-new\_fs/2,new\_fs/2,N);

subplot(7,1,5)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (SNR=10) msg in frequency domain (befor Ideal LBF)')

%------------- LBF ---------------%

N = length(coherent\_detector\_signal);

n = N/new\_fs;

r\_limit = round((new\_fs/2-4000)\*n);

l\_limit = (N-r\_limit+1);

COHERENT\_DETECTOR\_SIGNAL([1:r\_limit l\_limit:N]) = 0;

coherent\_detector\_signal\_LPF = real(ifft(ifftshift(COHERENT\_DETECTOR\_SIGNAL)));

%------------- LBF ---------------%

% As a result of multipling the received signal with carrier there will be high freq components

% at 2fc. So, we put the filter to remove them.

% freq domain plot (after Ideal LBF)

subplot(7,1,6)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (SNR=10) msg in frequency domain ')

% time domain plot

subplot(7,1,7)

plot(t,coherent\_detector\_signal\_LPF)

title('DSB RX-Coherent (SNR=10) msg in Time domain')

original\_msg = resample(coherent\_detector\_signal\_LPF,fs,new\_fs);

%sound(original\_msg,fs)

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\DSB-SC Coherent 10 SNR.wav',original\_msg,fs);

![Timeline

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhZ2FpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5MQAAkpIAAgAAAAM5MQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Sound is has so much static it is barely audible.

**DSB-SC Coherent detector receiver with 30dB SNR:**

%%%%%%%%%%%%%%%%% COHERENT Detector 30 SNR %%%%%%%%%%%%%%%%%%%%

% add noise

send\_signal\_noisy = awgn(send\_signal,30);

figure(5)

subplot(7,1,1)

plot(t,msg\_resampled)

title('Msg signal in Time domain')

subplot(7,1,2)

plot(MSG\_F,MSG\_resampled\_MG)

title('Msg signal in Freq domain')

send\_signal\_noisy\_FREQ = fftshift(fft(send\_signal\_noisy));

N = length(send\_signal\_noisy\_FREQ);

F = linspace(-new\_fs/2,new\_fs/2,N);

subplot(7,1,3)

plot(F,abs(send\_signal\_noisy\_FREQ))

title('DSB-SC with 30 SNR signal in Freq domain')

subplot(7,1,4)

plot(t,send\_signal\_noisy)

title('DSB-SC with 30 SNR signal in Time domain')

carrier = cos(2\*pi\*fc\*t);

carrier = carrier'; % transpose to be a row matrix

% coherent (multiply msg with carrier)

coherent\_detector\_signal = send\_signal\_noisy.\*carrier;

COHERENT\_DETECTOR\_SIGNAL = fftshift(fft(coherent\_detector\_signal));

% freq domain plot (befor Ideal LBF)

N = length(coherent\_detector\_signal);

F = linspace(-new\_fs/2,new\_fs/2,N);

subplot(7,1,5)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (SNR=30) msg in frequency domain (befor Ideal LBF)')

%------------- LBF ---------------%

N = length(coherent\_detector\_signal);

n = N/new\_fs;

r\_limit = round((new\_fs/2-4000)\*n);

l\_limit = (N-r\_limit+1);

COHERENT\_DETECTOR\_SIGNAL([1:r\_limit l\_limit:N]) = 0;

coherent\_detector\_signal\_LPF = real(ifft(ifftshift(COHERENT\_DETECTOR\_SIGNAL)));

%------------- LBF ---------------%

% As a result of multipling the received signal with carrier there will be high freq components

% at 2fc. So, we put the filter to remove them.

% freq domain plot (after Ideal LBF)

subplot(7,1,6)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (SNR=30) msg in frequency domain ')

% time domain plot

subplot(7,1,7)

plot(t,coherent\_detector\_signal\_LPF)

title('DSB RX-Coherent (SNR=30) msg in Time domain')

original\_msg = resample(coherent\_detector\_signal\_LPF,fs,new\_fs);

%sound(original\_msg,fs)

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\DSB-SC Coherent 30 SNR.wav',original\_msg,fs);

![Timeline

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhZ2FpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM0MAAAkpIAAgAAAAM0MAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ms7YY3Ku9xvbvuYANjsCoIzmuuoAKKKKACiiigAorl/Fr6w1/p1vpKar9nKTSXL6Z5AcEbAi5m+Xncxx1+WtfQLyHUPD9ndW1xPcxyRDEtyoEjHod4AADZBBwOooA0aKKKACiiigAoorgdG8RXt9qlpfXV1qNvbXd/NboHt4jaOAXVYhyJFf5Qd5GCwI7gAA76iiigAooooAKKKqapbNd6fJGt/cafj5jcW5QMoHJ++rDH4UAW6K5vwQL+XRnv7/Ubu8ivX82zW7Cb44P4Cdqryw+bpxkDsSekoAKKKKACiiigAorg/GmuanZarex6dc3qi001biIWUKSJHMWcZuNykhMBcAc4Eh7Cu5gkEtvHIGRw6htyHKnI6g+lAD6KKKACiiigAoqOdpEt5GhTfIqEopP3jjgVwvhrxJPLrGjW0mq3GoTahbyG/gmhVBaTqobaAFBX+NdpJ4APuQDvqKKKACiiigAooooAKKKKACsvVNETUbuC8ivbqwu4I3iWe12bij43KQ6sCMqp6ZBH1zqUUAVtOsINL023sbNSsFvGI0BOTgDuT1PvVmiigAooooAKKKKAKT6XC+vRasWk8+K2e2VcjaVZlYnGM5yg7+tXaKKACiiigAooooAzPEGiR+IdHk06e6ubWKRlLtblNzAHO07lYFT3BHI46E1LpenTabC0c2p3eoA42G5SFfLA7ARxoMfXNXqKACiiigAooooAKxdV8NpqtxPJ/aV9aLdQC3uYrd02zIM8fMpKnDMMqQcH2BG1RQAyGGO2t44IECRRqERR0UAYAp9FFABRRRQAU2SNJY2jlVXRwVZWGQwPUEU6igDItPC+kWGttqljYwW85gEIEUKIqgEnIwM5O7BOegFa9FFABRRRQAUUUUAZup6OdQuobmDUbzT54keMPasnzK2Mgq6sp5AIOMj1wSDY0zTrfSNMgsLJSsECbV3HJPqSe5J5J9TVqigAooooAKKKKACsGHwlaQ30Uou7trWC6e7hsWZPJjlbJLD5d3VmIBbAJ6cDG9RQAUUUUAFFFFABVbUrFNT0q7sJpJI47qB4WeIgOoZSpKkg4PPHFWaKAGQwpb28cMS7Y41CKPQAYFPoooAKKKKACiiigDE1PwxDqV3czpf3tkbyAW90lsybZ0GcZ3KxBwzDK4OD7DGvBBHbW8cECBIokCIo/hUDAFSUUAFFFFABRRRQAhGVIPQ1j6b4bi0+8huJb+9v3toWgthdureShIzghQWJ2qNzFjgdeTnZooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD//Z)

Sound is having static but is audible.

**DSB-SC Coherent detector with incorrect frequency:**

%%%%%%%%COHERENT Detector with frequency 100.1%%%%%%%%%%%%%%5

carrier = cos(2\*pi\*100100\*t);

carrier = carrier'; % transpose to be a row matrix

% coherent (multiply msg with carrier)

coherent\_detector\_signal = send\_signal.\*carrier;

COHERENT\_DETECTOR\_SIGNAL = fftshift(fft(coherent\_detector\_signal));

% freq domain plot (befor Ideal LBF)

N = length(coherent\_detector\_signal);

F = linspace(-new\_fs/2,new\_fs/2,N);

figure(6)

subplot(7,1,1)

plot(t,msg\_resampled)

title('Msg signal in Time domain')

subplot(7,1,2)

plot(MSG\_F,MSG\_resampled\_MG)

title('Msg signal in Freq domain')

subplot(7,1,3)

plot(F,SEND\_SIGNAL\_ABS)

title('DSB-SC TX modulated msg in Freq domain')

subplot(7,1,4)

plot(t,send\_signal)

title('DSB-SC TX modulated msg in Time domain')

subplot(7,1,5)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (FREQ=100.1KHz) msg in frequency domain (befor Ideal LBF)')

%------------- LBF ---------------%

N = length(coherent\_detector\_signal);

n = N/new\_fs;

r\_limit = round((new\_fs/2-4000)\*n);

l\_limit = (N-r\_limit+1);

COHERENT\_DETECTOR\_SIGNAL([1:r\_limit l\_limit:N]) = 0;

coherent\_detector\_signal\_LPF = real(ifft(ifftshift(COHERENT\_DETECTOR\_SIGNAL)));

%------------- LBF ---------------%

% As a result of multipling the received signal with carrier there will be high freq components

% at 2fc. So, we put the filter to remove them.

% freq domain plot (after Ideal LBF)

subplot(7,1,6)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (FREQ=100.1KHz) msg in frequency domain ')

% time domain plot

subplot(7,1,7)

plot(t,coherent\_detector\_signal\_LPF)

title('DSB RX-Coherent (FREQ=100.1KHz) msg in Time domain')

original\_msg = resample(coherent\_detector\_signal\_LPF,fs,new\_fs);

%sound(original\_msg,fs)

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\DSB-SC Coherent (FREQ=100.1KHz).wav',original\_msg,fs);

![Timeline

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhZ2FpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMxMwAAkpIAAgAAAAMxMwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Not only the sound is attenuated but the message is messed up.

**DSB-SC Coherent detector with incorrect Phase:**

%%%%%%%%COHERENT Detector with phase shift 20 degrees %%%%%%%%%%%%%%5

carrier = cos(2\*pi\*fc\*t+20/180\*pi);

carrier = carrier'; % transpose to be a row matrix

% coherent (multiply msg with carrier)

coherent\_detector\_signal = send\_signal.\*carrier;

COHERENT\_DETECTOR\_SIGNAL = fftshift(fft(coherent\_detector\_signal));

% freq domain plot (befor Ideal LBF)

N = length(coherent\_detector\_signal);

F = linspace(-new\_fs/2,new\_fs/2,N);

figure(7)

subplot(7,1,1)

plot(t,msg\_resampled)

title('Msg signal in Time domain')

subplot(7,1,2)

plot(MSG\_F,MSG\_resampled\_MG)

title('Msg signal in Freq domain')

subplot(7,1,3)

plot(F,SEND\_SIGNAL\_ABS)

title('DSB-SC TX modulated msg in Freq domain')

subplot(7,1,4)

plot(t,send\_signal)

title('DSB-SC TX modulated msg in Time domain')

subplot(7,1,5)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (PHASE=20 degrees) msg in frequency domain (befor Ideal LBF)')

%------------- LBF ---------------%

N = length(coherent\_detector\_signal);

n = N/new\_fs;

r\_limit = round((new\_fs/2-4000)\*n);

l\_limit = (N-r\_limit+1);

COHERENT\_DETECTOR\_SIGNAL([1:r\_limit l\_limit:N]) = 0;

coherent\_detector\_signal\_LPF = real(ifft(ifftshift(COHERENT\_DETECTOR\_SIGNAL)));

%------------- LBF ---------------%

% As a result of multipling the received signal with carrier there will be high freq components

% at 2fc. So, we put the filter to remove them.

% freq domain plot (after Ideal LBF)

subplot(7,1,6)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (PHASE=20 degrees) msg in frequency domain ')

% time domain plot

subplot(7,1,7)

plot(t,coherent\_detector\_signal\_LPF)

title('DSB RX-Coherent (PHASE=20 degrees) msg in Time domain')

original\_msg = resample(coherent\_detector\_signal\_LPF,fs,new\_fs);

%sound(original\_msg,fs)

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\DSB-SC Coherent(PHASE=20 degrees).wav',original\_msg,fs);

![Timeline

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhZ2FpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMxNwAAkpIAAgAAAAMxNwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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mdM4Ix7devWuE8xzGIyzbASwXPAPrj8BXrXxw0ed9Q0zVIIHkRomt5HRSdpDblB7DO5sfQ1gfD/AOHp8R30p1yG8trP7N5kLqhTzGLYGCRgjg/pXoYavRp4SNTZHnYrD1qmMlT3bOFhmkt5kmgdo5I2DI6nBUjuDXS+IvHGteIrPTf7Q/dS2okCXEQKeaGAUn68EEjjnoKmuPhp4mOsXNpY6VcTQxzMkcz7UV15KtknHIGfxA6kV6H448A3WqaX4X07S4VVbT/Rp5VjH7tSFy5x2ypP1NOricP7SDdnvr20/UVHC4l05pXW2nfX9Dyu18a+IrKKSO11a4jEkaxE7slVAwAp/h4A5GDxXs+k/EKb/hHYZ73w1rrSxxJuaO1LrICANwYkZz/nvXIeDfhP9o1TUI/E24LZSLGqRH5ZcpnIb2yp6V7RHGsMSRxjCIoVRnoBXl5hXwzajGN/wPWy3D4pRcpyt5PUyrbxAbmziuBpGqR+Z1jkt9rp9QTmpF1sNjOm6iuVJ5tj1A6depqaw1NL+91O3SNkOn3S2zEn75MMcuR+EoH4Vdrx+aPY9vln/MZg1sFGYabqOFODm3wT9BnJpx1cjP8AxLb/AIJH+pHOB16960aKXNHsPll3ILO6+2QmTyJ4MMV2zptJ98elT0UVL3KV7alXUNQh0y0NxcpcOgIGLa2knfn/AGI1ZvxxXMeGb2LUNW8TXVus6RyaomFuLd4XGLO2HKOAw6dxz16V2Ncro/8AyMXir/sKR/8ApFbUhmzRRRQAUUUUAFFFFABRRRQBBeyXMVnI9hBHcXCj93FJL5asfQtg4/I1wWqX4t5vEn/CTQwWV5qGkRx29v53mibHnL5cZKgu25lO0DOXHWvRKKAMm3hhu9Ih0bVZBJc/Y4zcxCQhmGMEkgg4JBHvyKofD+KODwbDFCixxx3V2qIowFAuZQAB2FdLVLWNTj0bRbvUZ0aRLWFpCifefA4Ue5PH40AVbnwzp9zfT3ZfUIJbhg8v2TU7m3V2ChQxWORVztVRnGcAVH/wilh/z+a3/wCD29/+O0ulaxezavNpesWkFtdpbpcp9nmMiOjEqRkqpBUjnjByD6gbVAGJ/wAIpYf8/mt/+D29/wDjtB8JaeSCbvWsjof7dveP/ItbdFAGJ/widgM4vNb56/8AE9vf/jtH/CKWH/P5rf8A4Pb3/wCO1t0UAYn/AAilh/z+a3/4Pb3/AOO1D/wg+jfvvn1b9+4kl/4nV5+8YKFDN+95OFUZPYAdq35ZBFC8jBiEUsQilicegHJPsKx/DevSa9HqDy2MlibS8NssUxG8gRo4ZgOhO/p2+tAEM3grSLlo2uJNWmMTB4zJrV42xgcgjMvB4HIqUeE7AdLzWx/3Hb3/AOO1t0U7vYVle5if8IpYf8/mt/8Ag9vf/jtH/CKWH/P5rf8A4Pb3/wCO1t0UhmJ/wilh/wA/mt/+D29/+O0f8InYZz9s1vP/AGHb3/47W3Ve+uJbXT557e2e7ljjLJBGQGlYDhQTwM+tAGRH4M0qGSV4Z9YjeZ98rLrd4DI20LuY+bydqqMnsAO1O/4Q/TPO837TrPmbdu/+3LzdjrjPm9KdpWs302uXGk6ta28NzFbx3Ia1nMibWZl2tlVIOVP1H0rboAxP+EUsP+fzW/8Awe3v/wAdpG8I6c6lXu9aZWGCDrt6QR/39rcooAxB4TsAMC81sD/sO3v/AMdo/wCEUsP+fzW//B7e/wDx2tuigDE/4RSw/wCfzW//AAe3v/x2o4/BmlQySvDPrEbzPvlZdbvAZG2hdzHzeTtVRk9gB2rYvZpbaxnmt7ZrqWONmSBGCmRgOFBPAz05rK0PW7q/1O+06/gtkuLNY3d7Scyx5fd8hJUEOuzkejKe+KAF/wCEUsP+fzW//B7e/wDx2j/hFLD/AJ/Nb/8AB7e//Ha26KAMT/hFLD/n81v/AMHt7/8AHaP+EUsP+fzW/wDwe3v/AMdrbooAxB4TsB0vNbH/AHHb3/47R/wilh/z+a3/AOD29/8AjtbdIzBVLMQFAyST0oAwY/BmlQySvDPrEbzPvlZdbvAZG2hdzHzeTtVRk9gB2qT/AIRSw/5/Nb/8Ht7/APHaTw74j/4SCbUfLtmht7aZUgkY8zoyBhJjsDnI9sHvitygDE/4RSw/5/Nb/wDB7e//AB2j/hFLD/n81v8A8Ht7/wDHa26KAMT/AIRSw/5/Nb/8Ht7/APHaP+EUsP8An81v/wAHt7/8drbooAxP+EUsP+fzW/8Awe3v/wAdqOPwZpUMkrwz6xG8z75WXW7wGRtoXcx83k7VUZPYAdq365Pwl4vn8Tz70bR/s5iMoitr8y3KKT8u+PYAuR154oA0f+EUsP8An81v/wAHt7/8do/4RSw/5/Nb/wDB7e//AB2tuigDE/4RSw/5/Nb/APB7e/8Ax2j/AIRSw/5/Nb/8Ht7/APHa26KAMT/hFLD/AJ/Nb/8AB7e//HaP+EUsP+fzW/8Awe3v/wAdrbpksqQwvLKdqIpZj6AdaAMOPwZpUMkrwz6xG8z75WXW7wGRtoXcx83k7VUZPYAdqk/4RSw/5/Nb/wDB7e//AB2qfhvxXNr16qCGx8qSDzilvfLJPbZxtWaPAKlgc8ZwQQexrp6AMT/hFLD/AJ/Nb/8AB7e//HaP+EUsP+fzW/8Awe3v/wAdrbooAxP+EUsP+fzW/wDwe3v/AMdo/wCEUsP+fzW//B7e/wDx2tuigDE/4RSw/wCfzW//AAe3v/x2o4/BmlQySvDPrEbzPvlZdbvAZG2hdzHzeTtVRk9gB2refdsbywC2PlDHAJrmtL1rXp/FD6VqOn6cscMHnTzWl3JJ5RY4RSGjXlsE47AZPUZALMng/TZU2S3OsupIO1tcvSODkf8ALWnf8IpYf8/mt/8Ag9vf/jtbdFAGJ/wilh/z+a3/AOD29/8AjtH/AAilh/z+a3/4Pb3/AOO1t0UAYn/CKWH/AD+a3/4Pb3/47R/wilh/z+a3/wCD29/+O1t0UAYEfgzSoZJXhn1iN5n3ysut3gMjbQu5j5vJ2qoyewA7VJ/wilh/z+a3/wCD29/+O1n+HPGM2t6jb28trbxrdWr3KCC4MklsFZRsnXaNjHd055Vh2zXV0AYn/CKWH/P5rf8A4Pb3/wCO0f8ACKWH/P5rf/g9vf8A47W3RQBif8IpYf8AP5rf/g9vf/jtH/CKWH/P5rf/AIPb3/47W3RQBif8IpYf8/mt/wDg9vf/AI7V7TNJtNIimSyEx8+TzZXnuJJ3kfaq5LyMWPyqo69AKtTSrb28k0mdkalmwOwGa53R/E93eXWmJqVjBbR6vbtcWZiuDIwACttcbQAdrA5BI4I9CQDpaKKKACiiigAooooAKKKKACiiigArP17TDrPh++05ZfJa5hZEkxnY2ODjvg44rQooAwtL03UX8QTaxrKWsMxtEtYorWVpAAGLMxZlXqSABjgL1543aKKACiiigAooooAKytF0ubTbrWJZ2jZb6/NzHsJOFMUaYOR1yh9e1atFABRRRQAUUUUAFVdU+3nSrkaP9n+3GMiA3JIjD9i2ATj8KtUUAc94V0zUtMSZdUs7RZZsSTXkd89xLcydMvuiQAY6AcAcAAV0NFFABRRRQAUUUUAV79LqTT500+ZILpoyIZJE3Kr44JHcZrF0XR76HxDd6vfW9lYme3SE29lIXWRgxYyOSi5POBx0784HRUUAFFFFABRRRQAVT1bTItZ0m40+4kljiuE2O0TANjuOQevQ+oJq5RQBz+geHLjRtY1S6m1G4u4rto/LWVlJAVFXLYUc5GBjjGK6CiigAooooAKKKKAGupaNlBwSCASM4rmdO0TVn1fSrnVY9PgXSreSJDZM378uAv3SoEa4XO0Fucc8ZPUUUAFFFFABRRRQAVFc26XdpNby/cmRkbHoRg1LRQByOheGNQsbvRRerYwwaLaPbRSWrsWudwVcspUBBhdxGW+Y9eOeuoooAKKKKACiiigArK0LS5tO/tGa8aN7i+vpbhmQk/JnbGOR1EaoD2zn61q0UAFFFFABRRRQAUyaMywSRq7Rl1Kh16rkdRT6KAOP8P8Aha+07UNLluINPtE061e3eWydi96TgZcFBgcbuSx3Hr3PYUUUAFFFFABRRRQAjDKkDuO4rjtA8HTWOtWd9d2tha/YYZEQWc0jiV3wCwVwBEmAfkXIy3X5RnsqKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//Z)

Sound is attenuated but is intact.

**DSB-TC Sender and envelope detector:**

%%%%%%%%% DSP TC %%%%%%

A = max(msg\_resampled)\*2 ; % Amplitude of carier is double max value m=0.5

% modulating

carrier = cos(2\*pi\*fc\*t);

carrier = carrier';

send\_signal = (A + msg\_resampled).\*carrier;

% freq domain

SEND\_SIGNAL = fftshift(fft(send\_signal));

SEND\_SIGNAL\_ABS = abs(SEND\_SIGNAL);

N = length(send\_signal);

F = linspace(-new\_fs/2,new\_fs/2,N);

figure(7)

subplot(2,1,1)

plot(F,SEND\_SIGNAL\_ABS)

title('DSB-TC TX modulated msg in freq domain')

%------------------------- RX --------------------------%

%------------- Envelop--------------%

envelop = abs(hilbert(send\_signal));

subplot(2,1,2)

plot(t,envelop)

title('DSB-TC RX-Envelop msg in time domain')

original\_msg = resample(envelop,fs,new\_fs);

%sound(original\_msg,fs)

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\DSB-TC.wav',original\_msg,fs);

![Graphical user interface

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhZ2FpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3OQAAkpIAAgAAAAM3OQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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