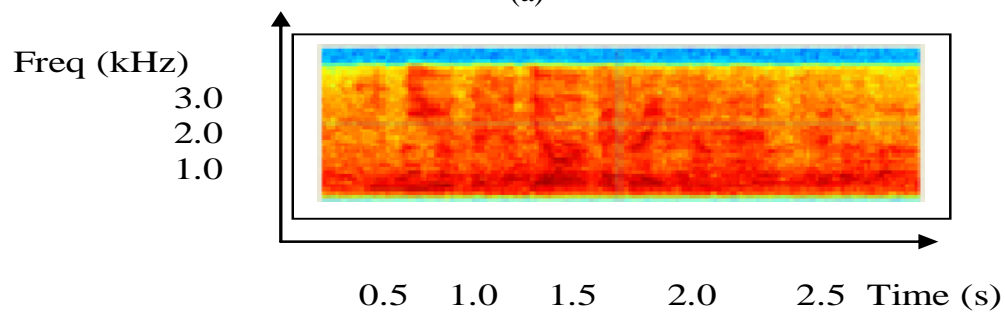
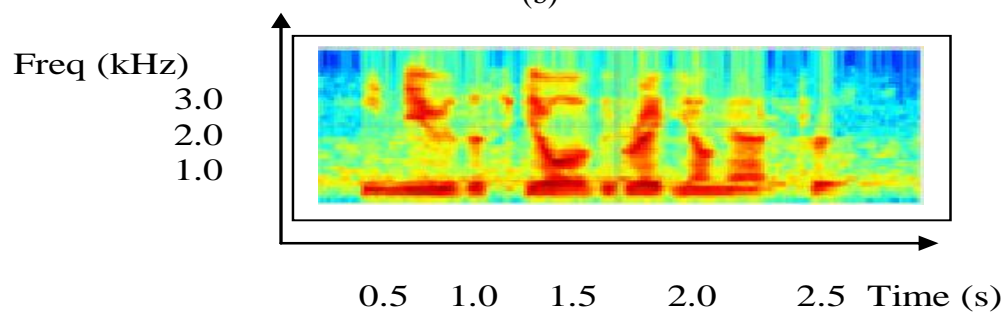


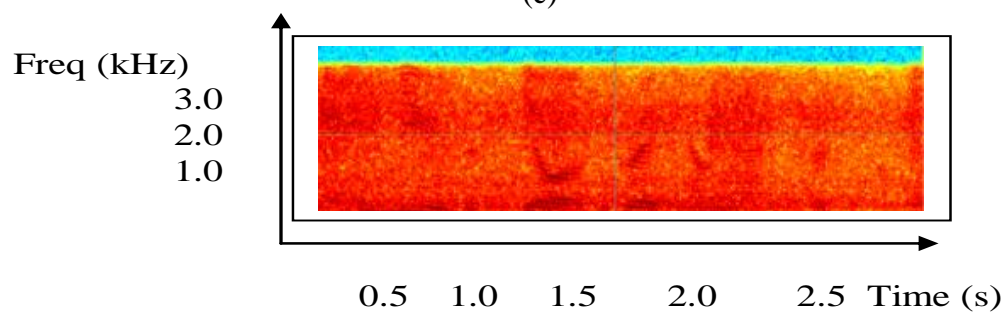
(a)



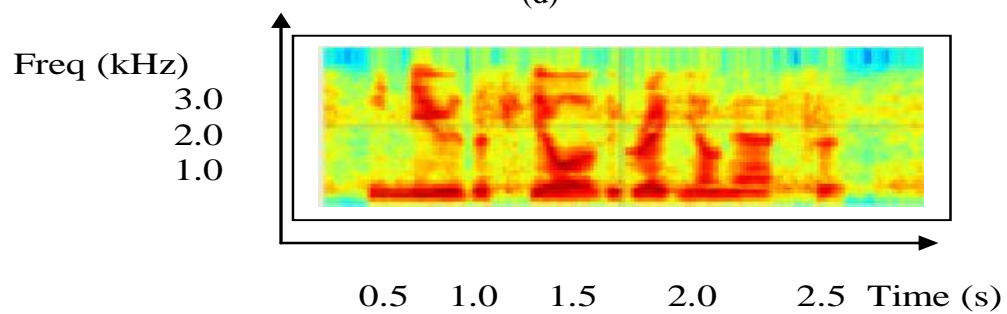
(b)



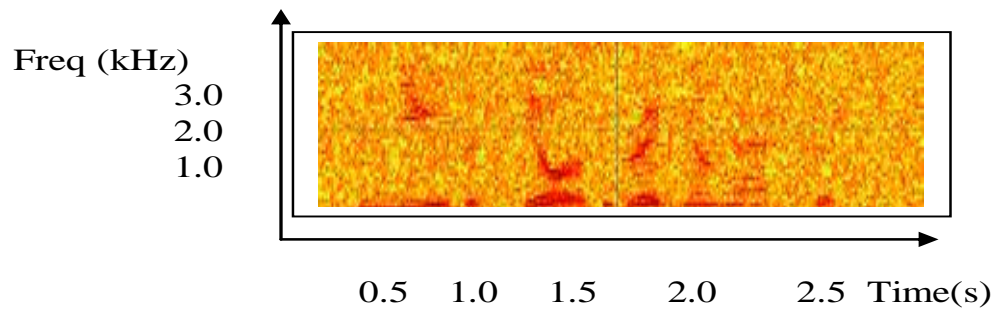
(c)



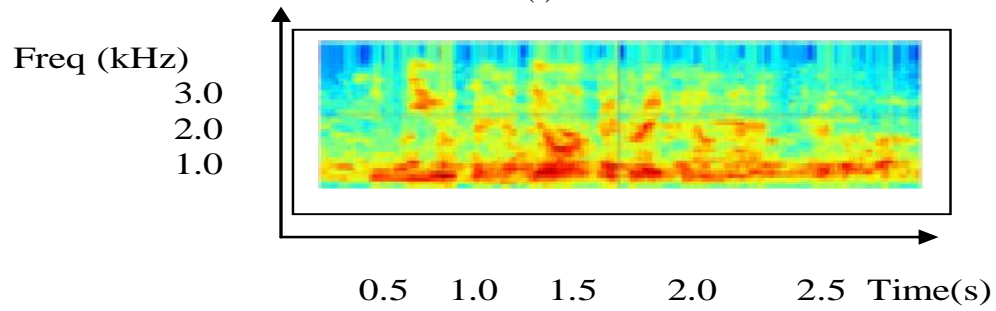
(d)



(e)

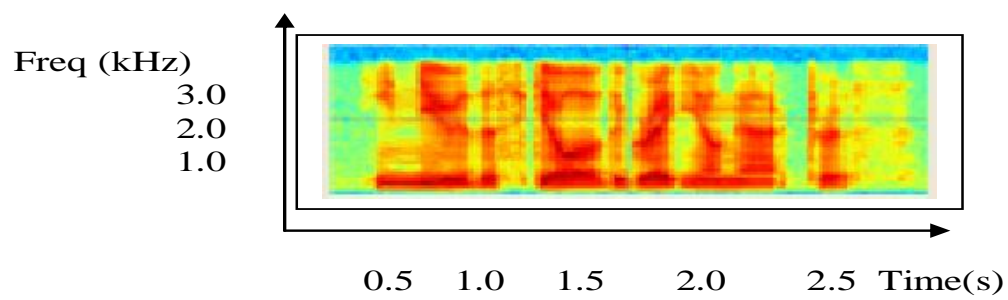


(f)

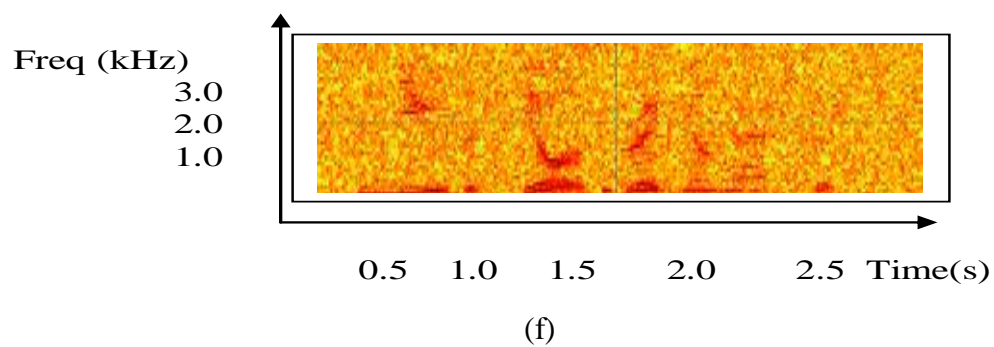
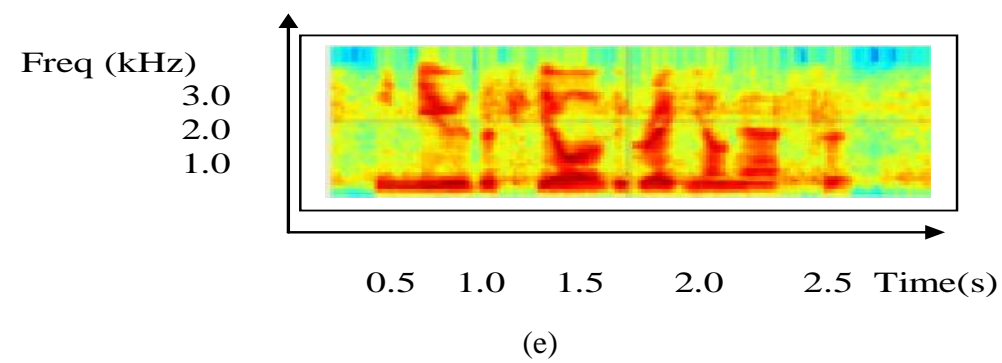
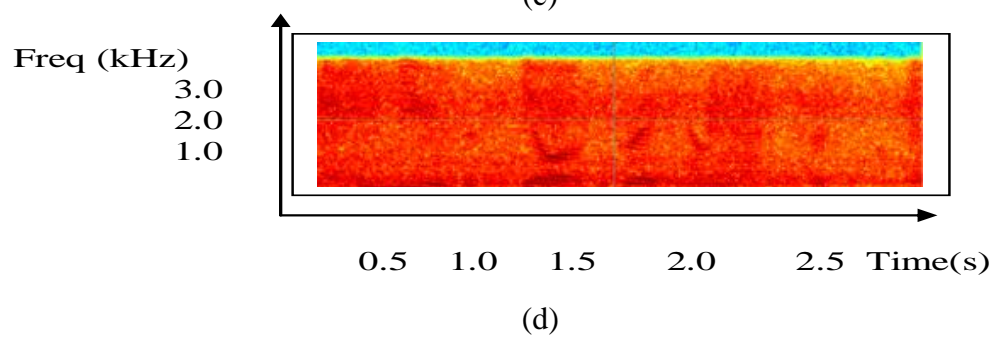
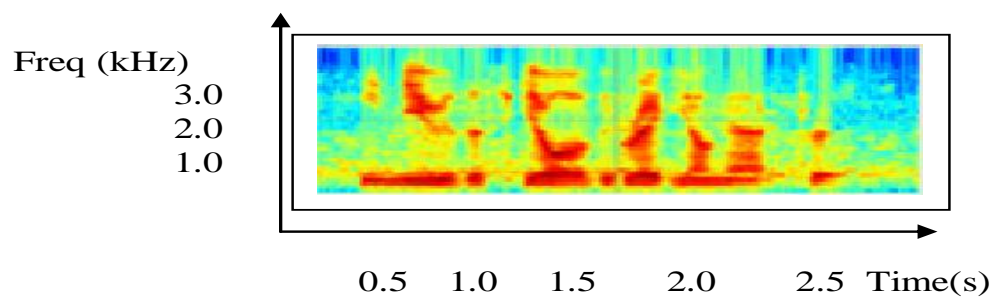
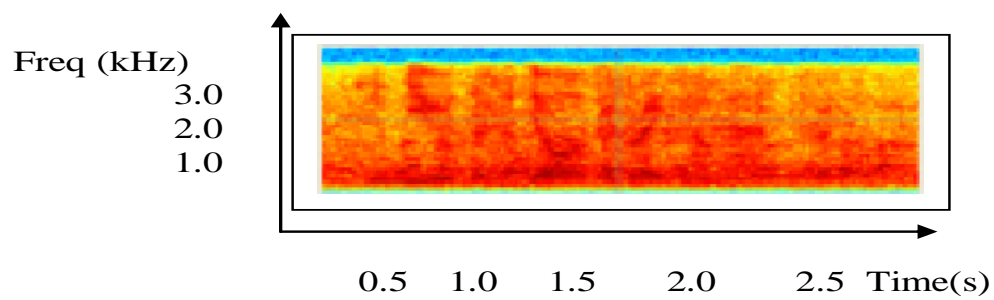


(g)

Figure 38 Spectrograms for (a) clean speech sample; (b, d, f) speech samples corrupted by babble noise, train noise and white noise respectively (0 dB SNR); (c, e, g) corresponding enhanced speech samples using modification of real part to modify the phase.



(a)



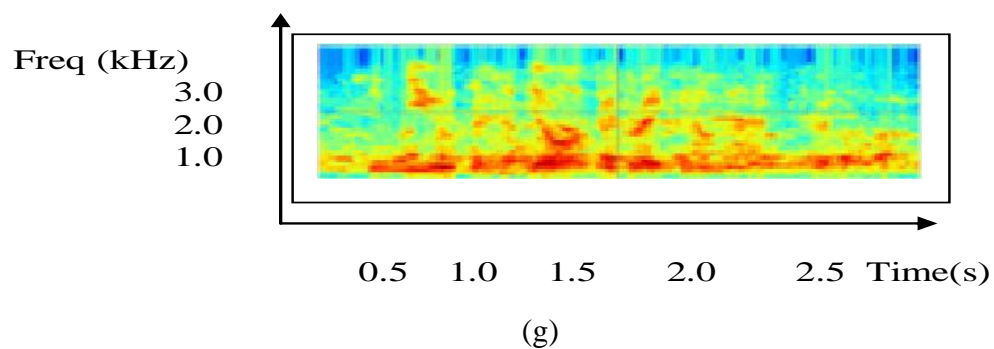
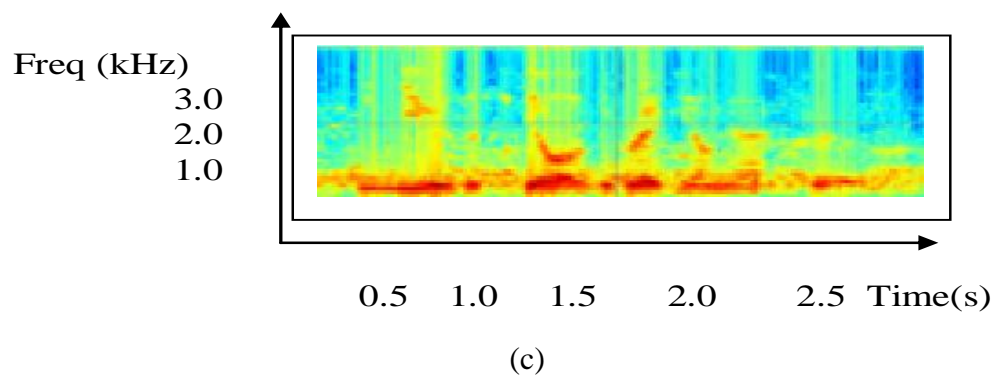
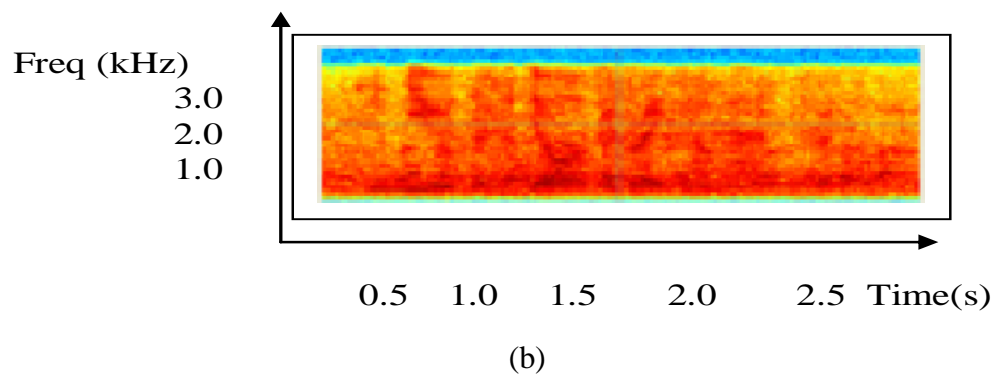
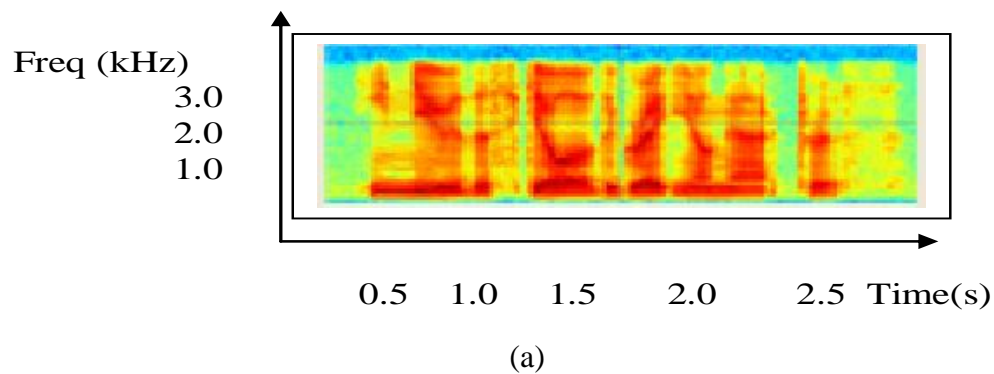
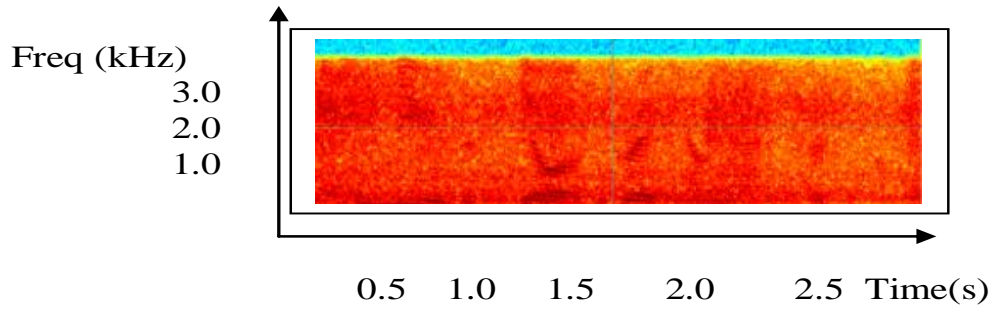
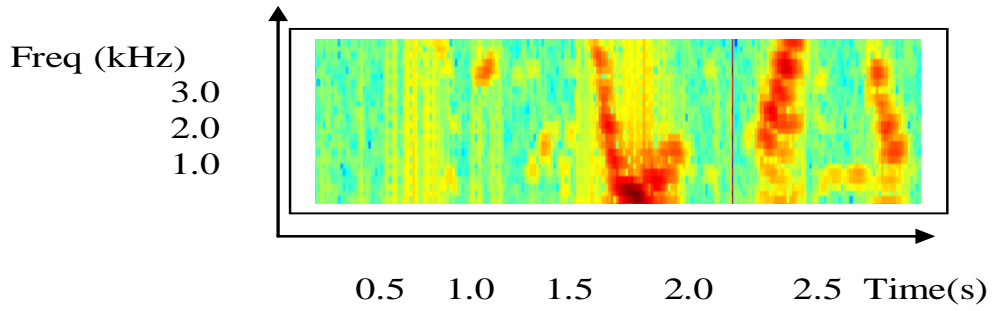


Figure 40 Spectrograms for (a) clean speech sample; (b, d, f) speech samples corrupted by babble noise, train noise and white noise respectively (0 dB SNR); (c, e, g) corresponding enhanced speech samples using modification of imaginary part to modify the phase.

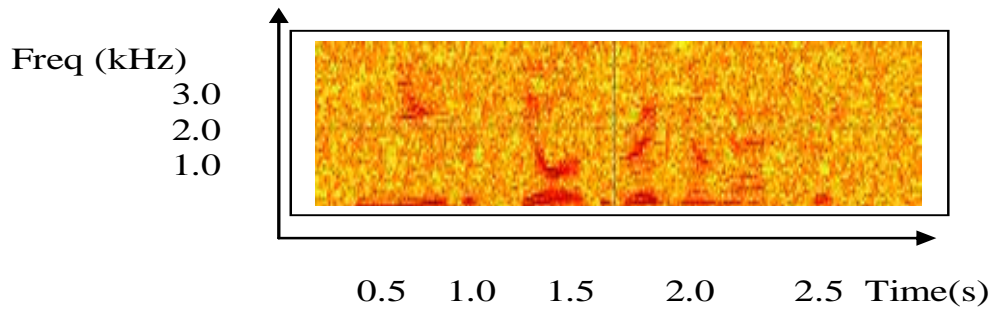




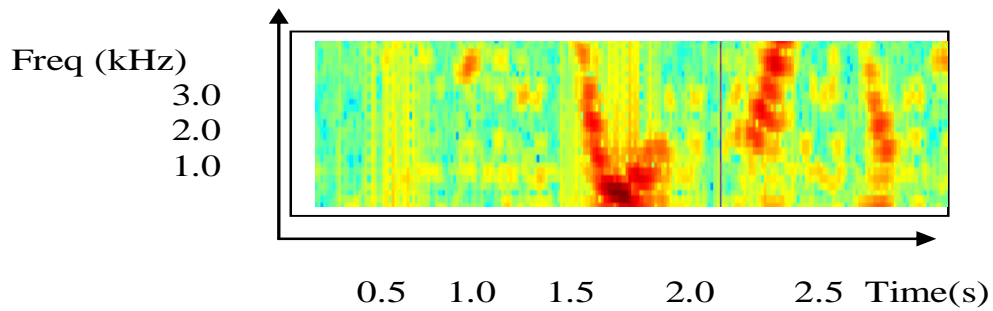
(d)



(e)



(f)



(g)

Figure 44 Spectrograms of speech for (a) clean speech sample; (b, d, f) speech samples corrupted by babble noise, train noise and white noise respectively (5 dB SNR); (c, e, g) corresponding enhanced speech samples using modified spectral subtraction