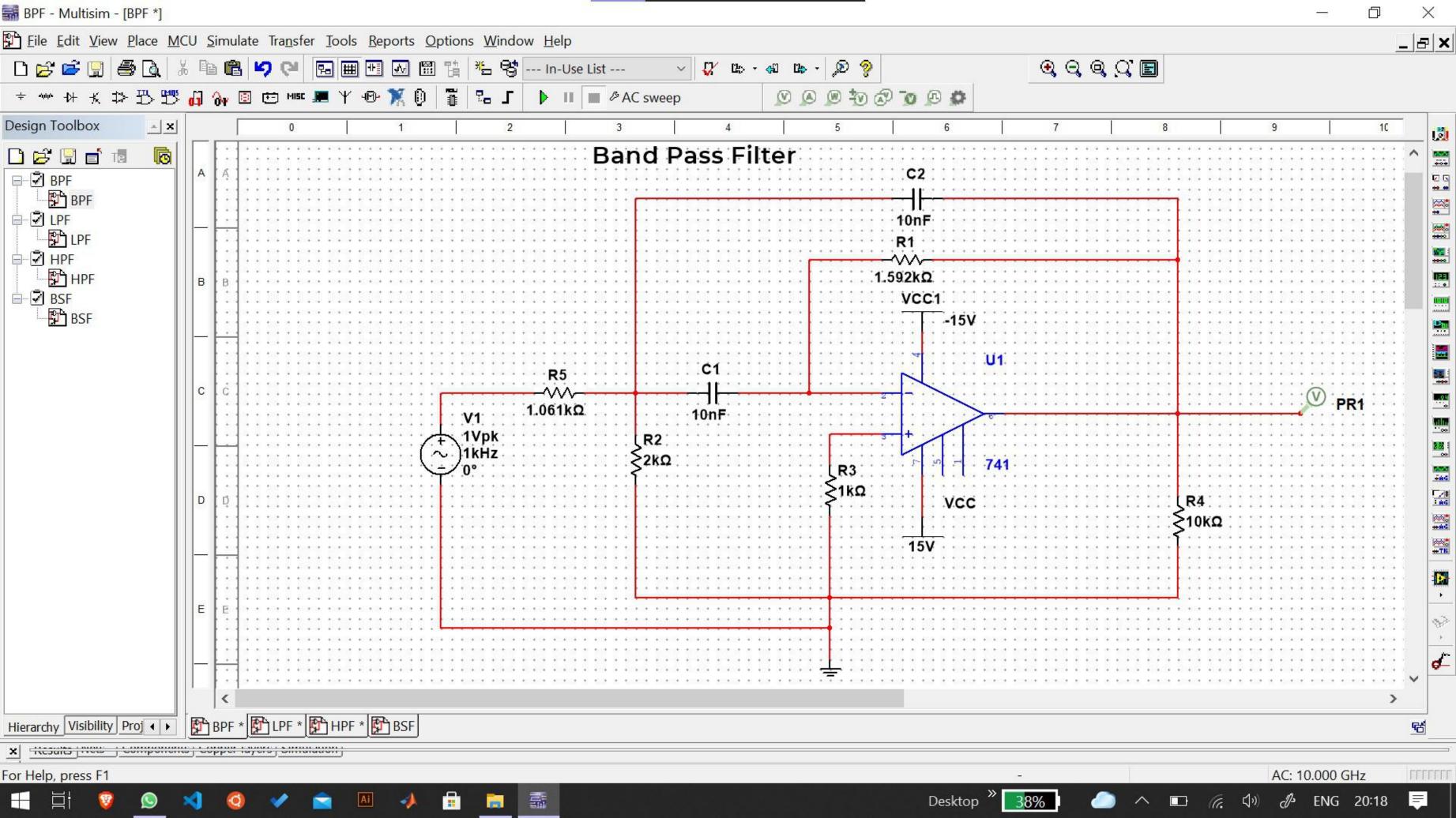
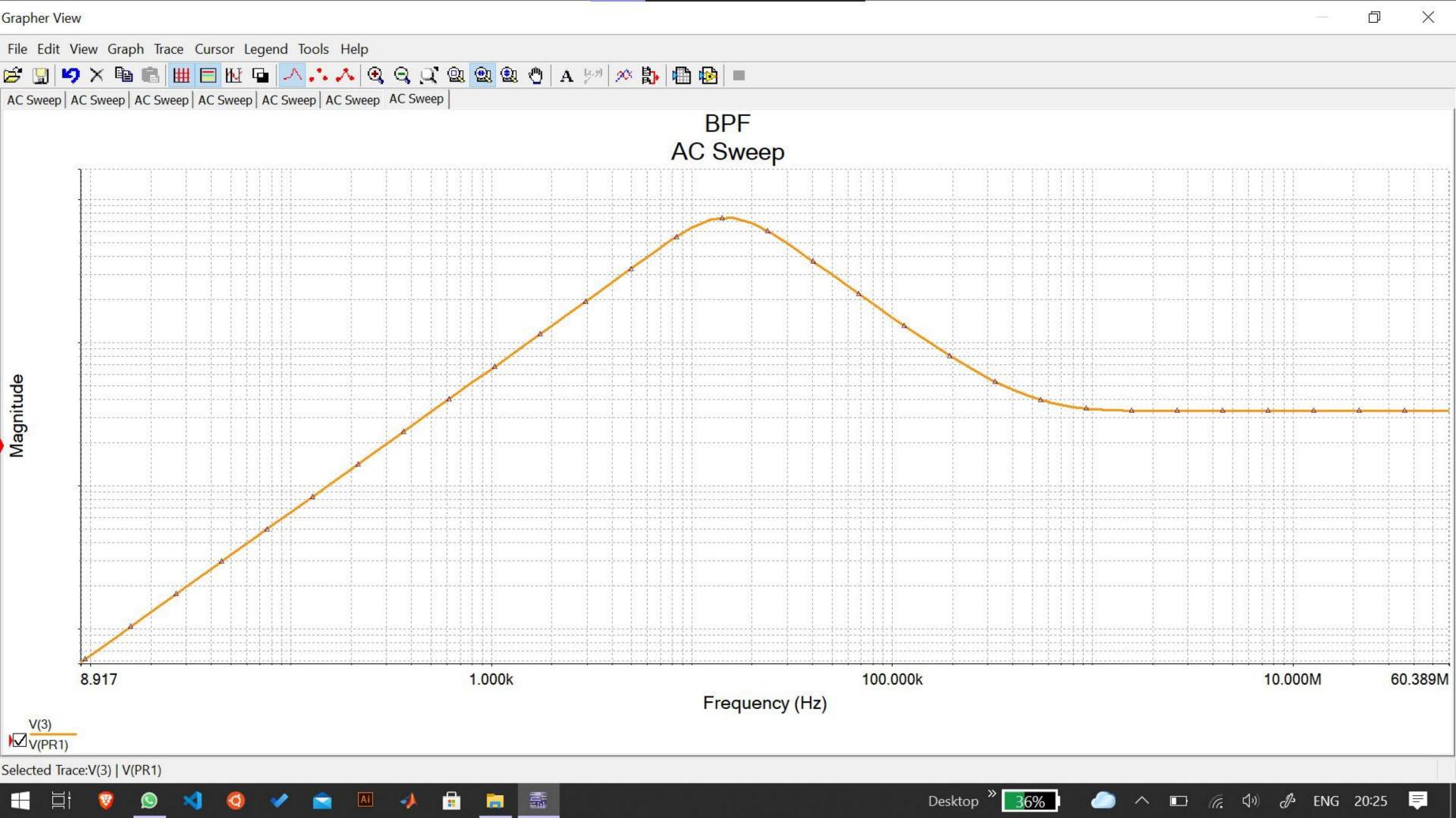


DESIGN CALCULATION:

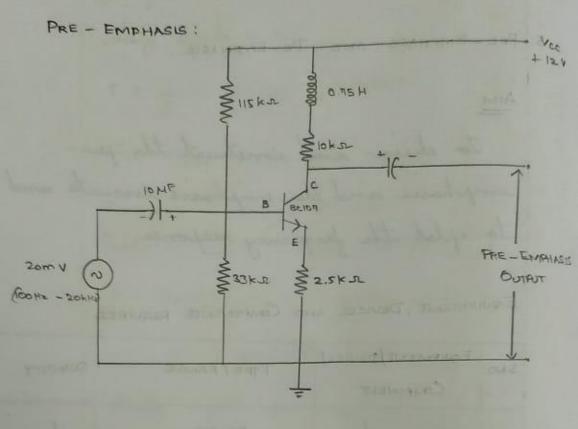
Pre Emphasis,
$$F_c = \frac{1}{2\pi \left(\frac{L}{R}\right)}$$
 $f_R = 10 \text{ kg}$
 $f_R = 2.1 \text{ kg}$

$$L = \frac{10 \times 10^3}{2 \times 2.1 \times 7 \times 10^5}$$

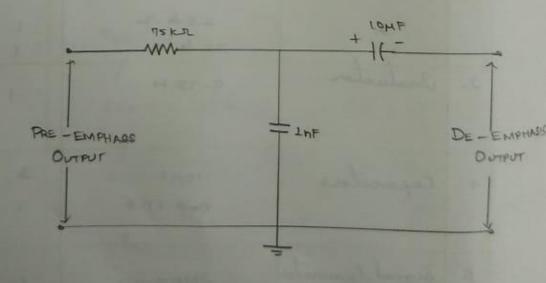


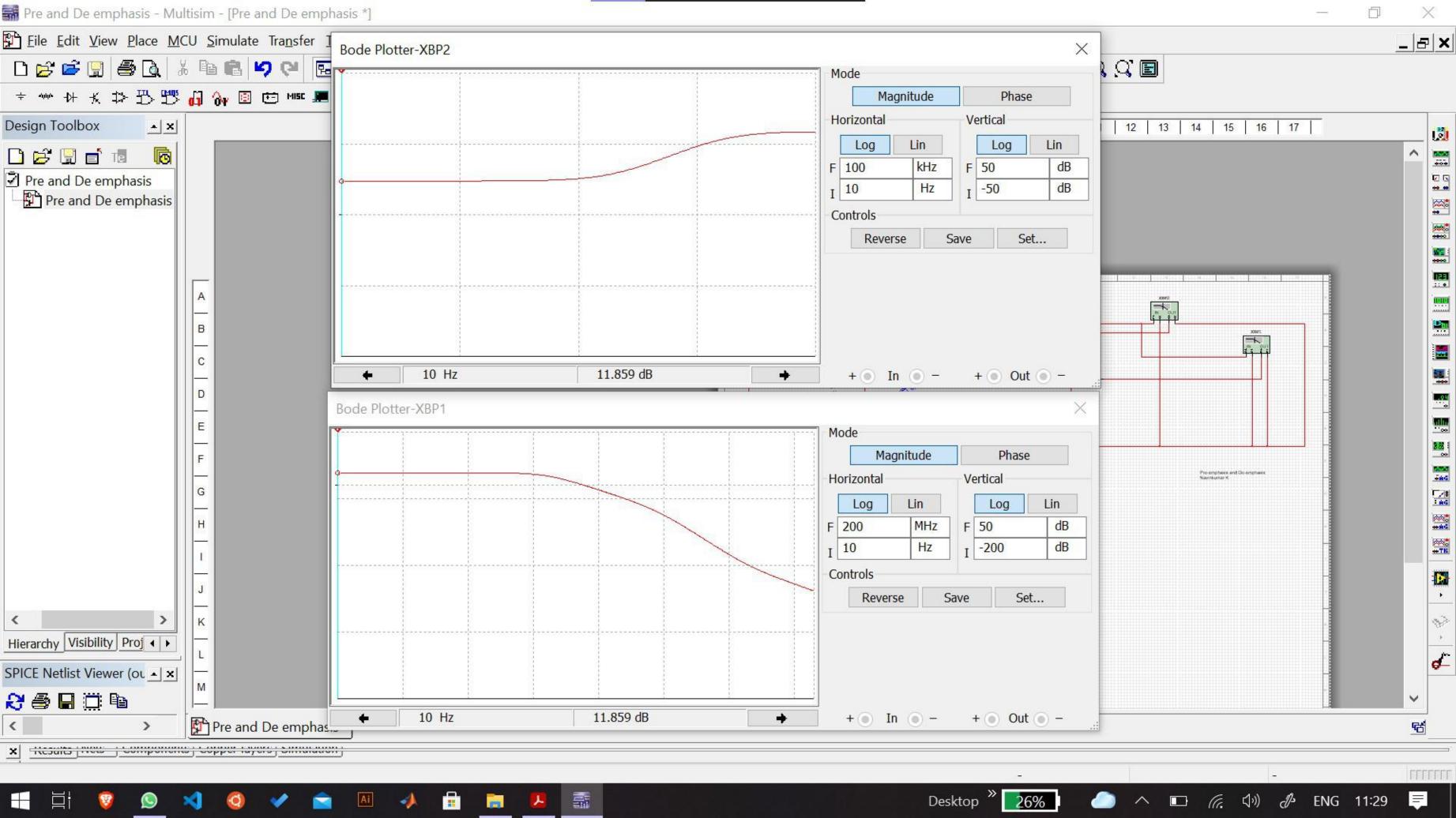


CIRCUIT DIAGRAM:



DE - EMPHASIS:





SPECIFICATIONS:

Type Daugnator: BC107

Material of transitor: Si

Polarity: NAN

Maximum collector power discipiation (R), W: 0.3 Maximum collector base voltage IVCBI, V: 50 Maximum collector emitte voltage IVCBI, V: 45

Maximum emitte base voltage Ivcb 1. v: "

Maximum collector auvent /I coma 1; A: 0.1

Toward current transfer reatio (here), min: 110

DESIGN FORMULA:

CRITICAL FREQUENCY

De Emphasir. Fc = 1 2xRC