

Woofers parameters Design 1

Fs 20 Hz  
 Qts 0.24  
 Qes 0.26  
 Vas 108 Liters  
 Re 6.1 Ohms  
 Dia 17.1 cm  
 Xmax 7 mm  
 Pe\_max 100 Watts  
 Le 0 Henries  
 P\_input\_rms 35 Watts@8ohms

Woofers Calculated Parameters

Sd 0.02297 m<sup>2</sup>  
 Cms 0.001458 m/N  
 Mdt 0.0434 kg  
 Bl 11.32 T\*m  
 no 88.24 dB/2.83V  
 no 87.06 dB/1W  
 Qms 3.12  
 V\_in\_peak 23.66 Volts  
 VC\_dissipation 46 Watts

Passive radiator free-air parameters

Fp 22 Hz  
 Vap 214 Liters  
 Dia 21.1 cm

Passive radiator calculated Params

Sp 0.03497 m<sup>2</sup>  
 Cmp 0.001246 m/N  
 Mtp 0.0420 kg  
 Cmt 0.000143 m/N  
 Mass to add 0.3719 kg  
 Total Mass 0.4139

Box parameters

Ql 15.0  
 Qb 30.0  
 Qp 30.0  
 Vb 27.7  
 Desired Fb 20.7

If ported:

Lv 866.03 cm

If sealed:

Undamped Qtc 0.531

Qcomb 7.500  
 alpha 3.899  
 h 1.035  
 beta 0.505

Aux filter

Fc 36  
 Q 1.2  
 activate? (T/F) t

Woofers parameters Design 2

Fs 20 Hz  
 Qts 0.24  
 Qes 0.26  
 Vas 108 Liters  
 Re 6.1 Ohms  
 Dia 17.1 cm  
 Xmax 7 mm  
 Pe\_max 100 Watts  
 Le 0 Henries  
 P\_input\_rms 35 Watts@8ohms

Woofers Calculated Parameters

Sd 0.02297 m<sup>2</sup>  
 Cms 0.001458 m/N  
 Mdt 0.0434 kg  
 Bl 11.32 T\*m  
 no 88.24 dB/2.83V  
 no 87.06 dB/1W  
 Qms 3.12  
 V\_in\_peak 23.66 Volts  
 VC\_dissipation 46 Watts

Passive radiator free-air parameters

Fp 22 Hz  
 Vap 214 Liters  
 Dia 21.1 cm

Passive radiator calculated Params

Sp 0.03497 m<sup>2</sup>  
 Cmp 0.001246 m/N  
 Mtp 0.0420 kg  
 Cmt 0.000143 m/N  
 Mass to add 0.2418 kg  
 Total Mass 0.2838

Box parameters

Ql 15.0  
 Qb 30.0  
 Qp 30.0  
 Vb 27.7  
 Desired Fb 25.0

If ported:

Lv 588.88 cm

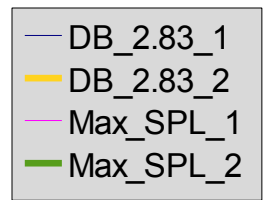
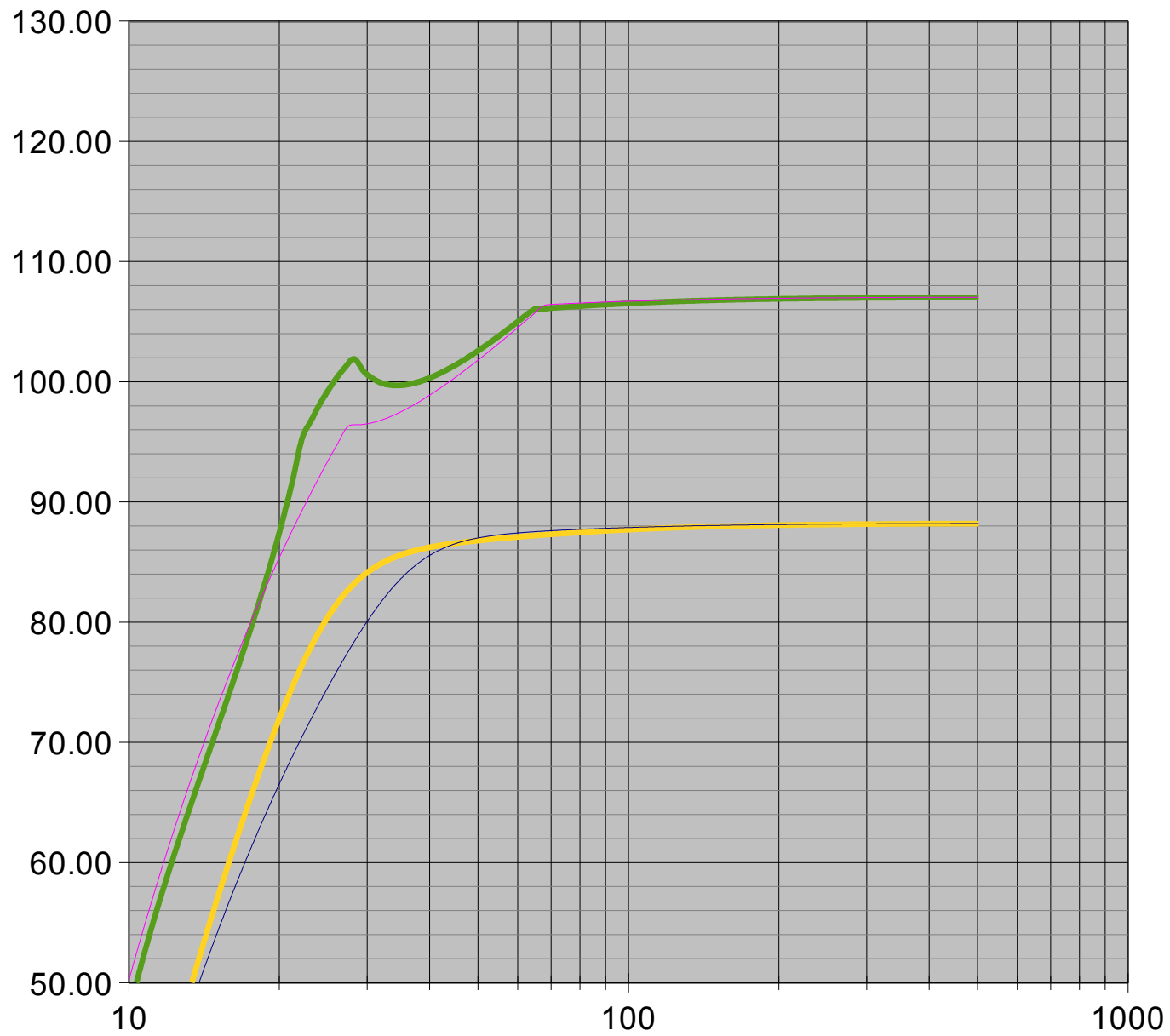
If sealed:

Undamped Qtc 0.531

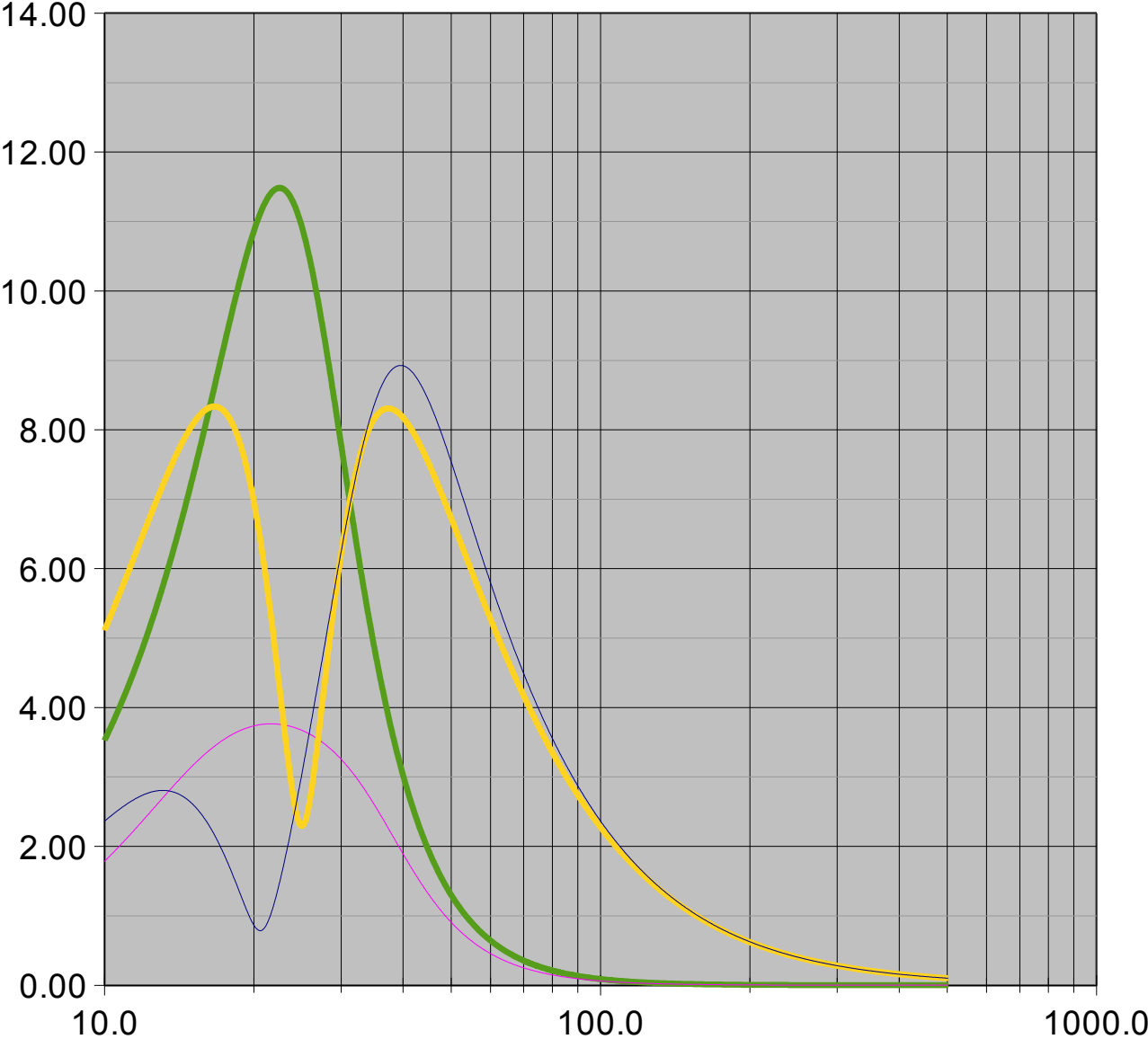
Qcomb 7.500  
 alpha 3.899  
 h 1.250  
 beta 0.505

Aux filter

Fc 25  
 Q 1.2  
 activate? (T/F) t

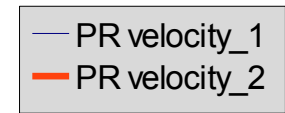
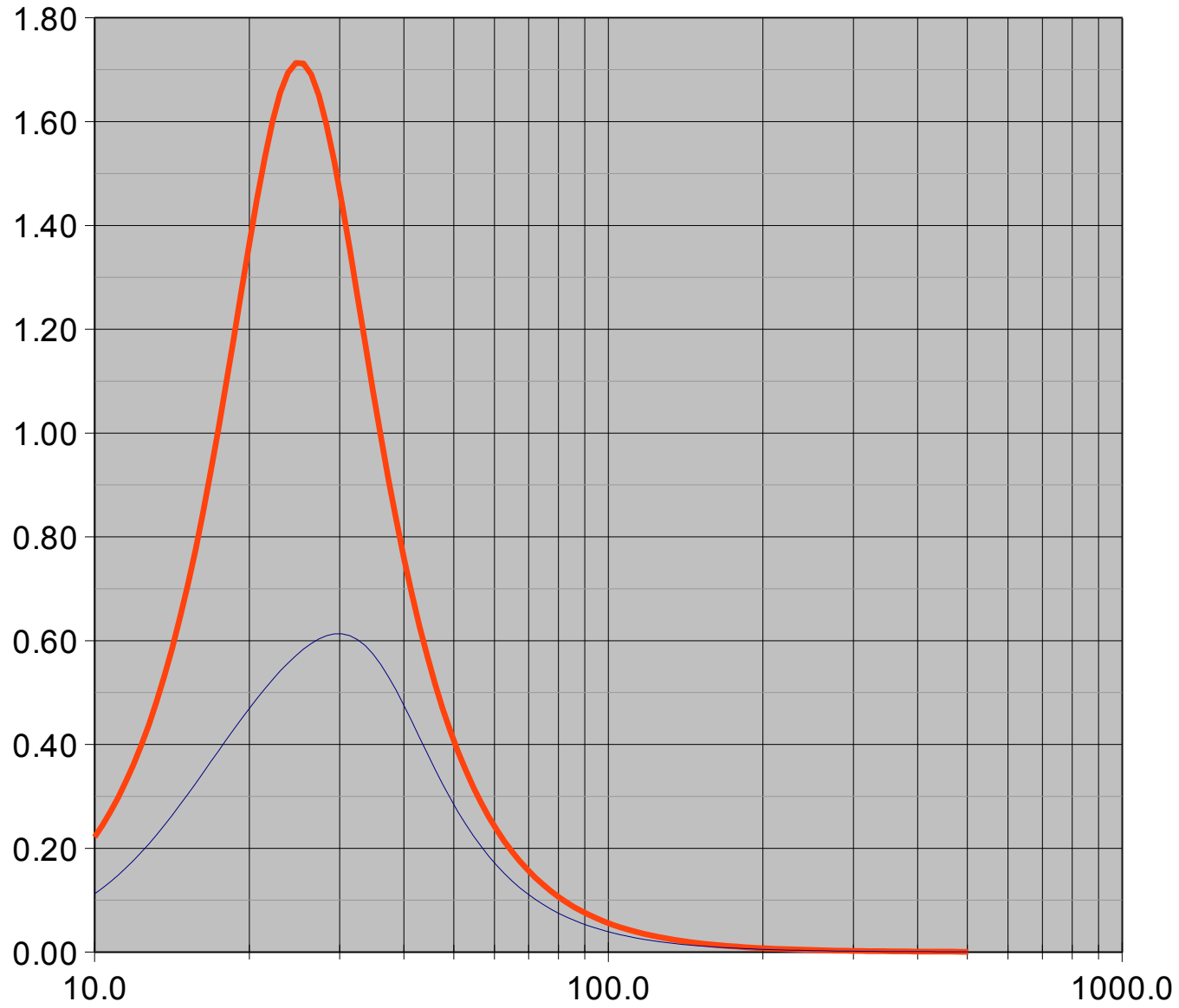


excursion [mm]

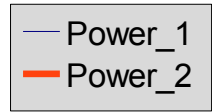
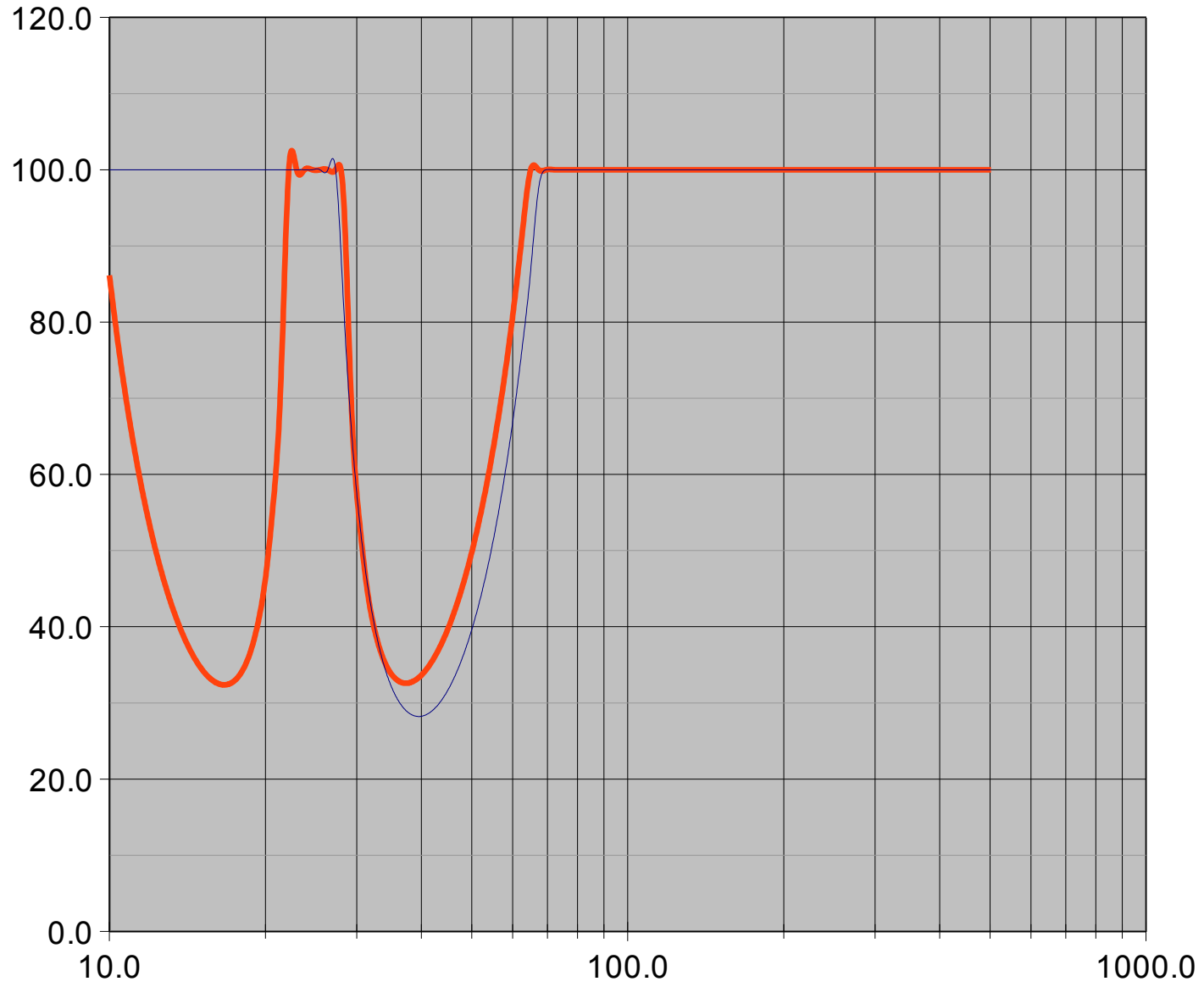


- Diaphragm\_ex\_1
- Diaphragm\_ex\_2
- PR\_ex\_1
- PR\_ex\_2

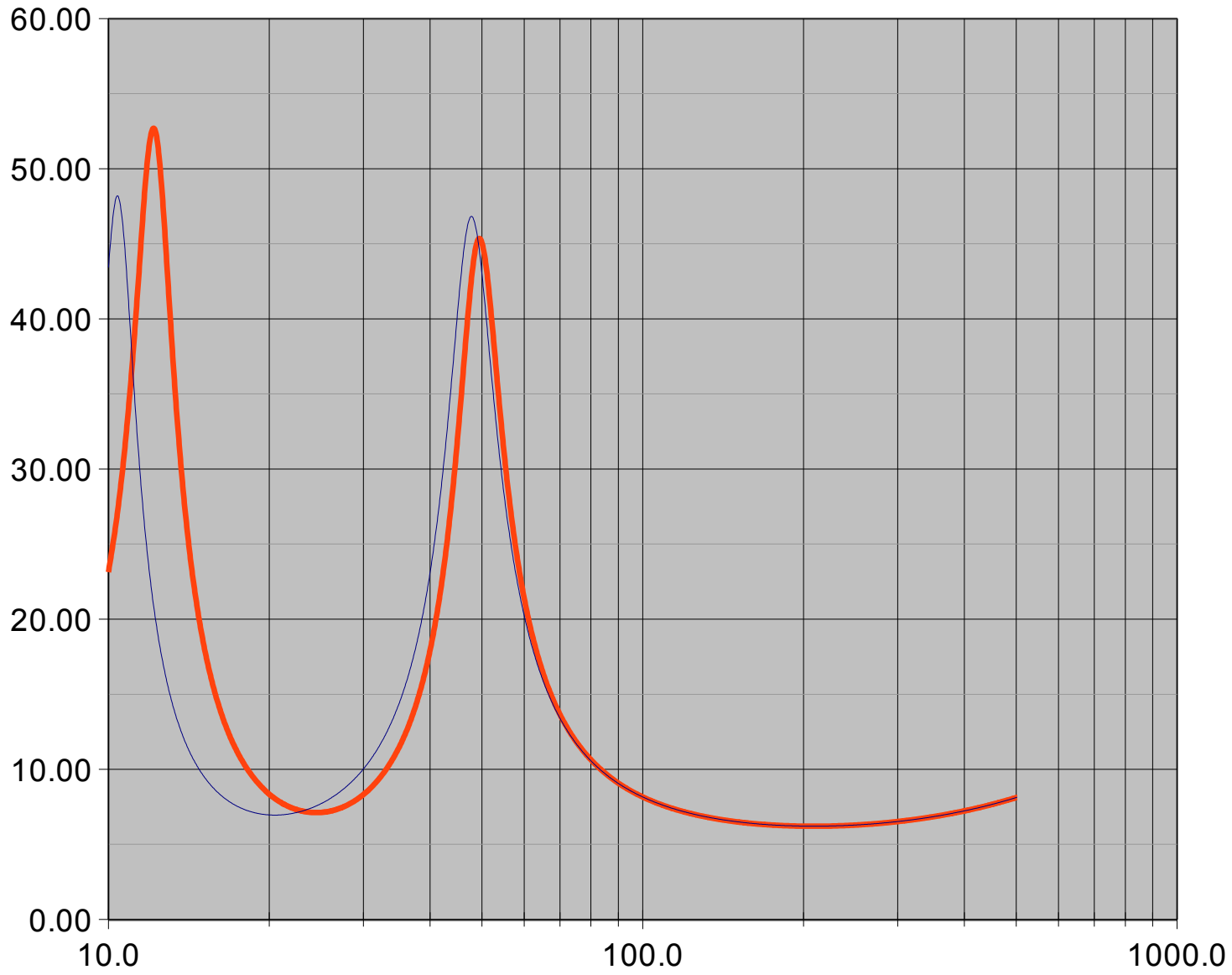
PR velocity[m/s]



Power [Watts]



Input Impedance [ohms]



Zin\_1  
Zin\_2

Group Delay[s], Phase [degrees]

