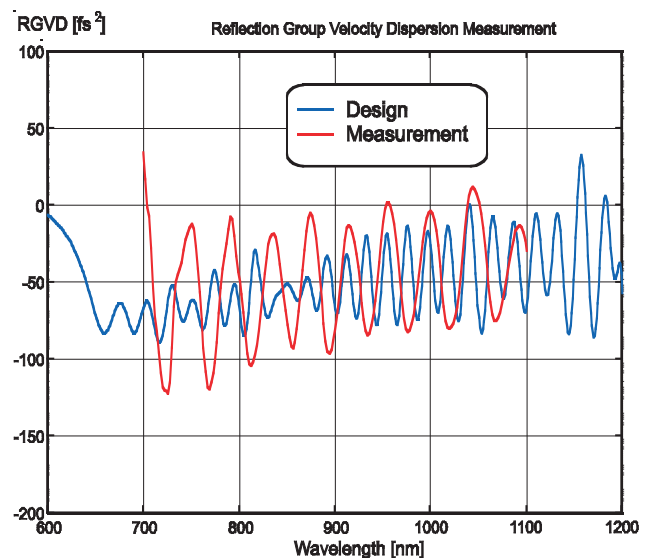
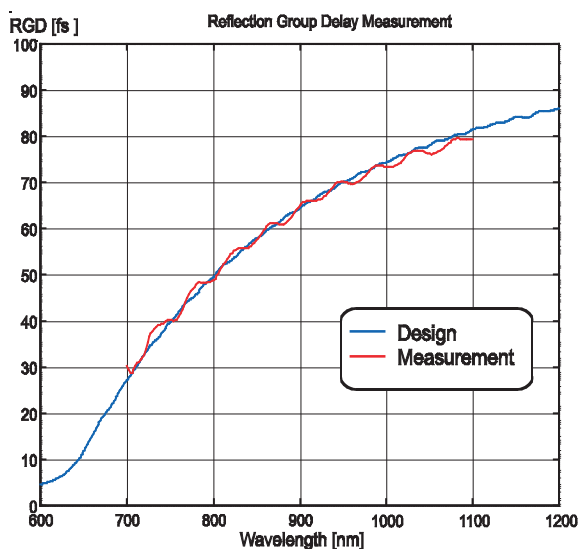


## Negative Dispersion Mirrors for Ultra Fast Laser Technology

- ▶ NANEO | Chord is a mirror to compensate the usually positive Group Velocity Dispersion (GVD) of all materials in the light path of an ultra short pulse by adding negative dispersion. Our high precision manufactured mirrors enable the generation of transform limited short pulses and extra cavity preservation of pulse shape. The ion beam sputtered hard films guarantee for an extreme long-term stability of the mirror properties.



Calculated and measured properties of a matched GVD mirror pair generating 5 fs pulses out of our Ti:Sapphire laser (VENTEON | PULSE : ONE)

### ▶ Specifications

Reflectance : up to 99.9%  
GD control :  $\pm 1 \text{ fs}^2$

### Specifications

GVD range :  $0 \text{ fs}^2, -50 \text{ fs}^2$  (typical)  
Pump transmission : >95%

### ▶ GVD Mirrors on stock

HR GVD Mirror 700-870 nm, low ripple, R>99.8%	· HR GVD Mirror 680-960 nm, broadband, R>99.8%
GVD Coupler 650-950 nm, broadband, R=96.5%	· GVD Coupler 650-950 nm, broadband, R=94.0%
GVD Coupler 740-850 nm, standard, R=97.7%	· GVD Splitter 600-1500 nm, ultrabroadband, R=50%

- ▶ **Customer specific mirrors** Ultra broadband paired mirrors · GVD and 3<sup>rd</sup> order optimized  
GVD to  $-1000 \text{ fs}^2$  (selected range) · Output Coupler for gain flattening