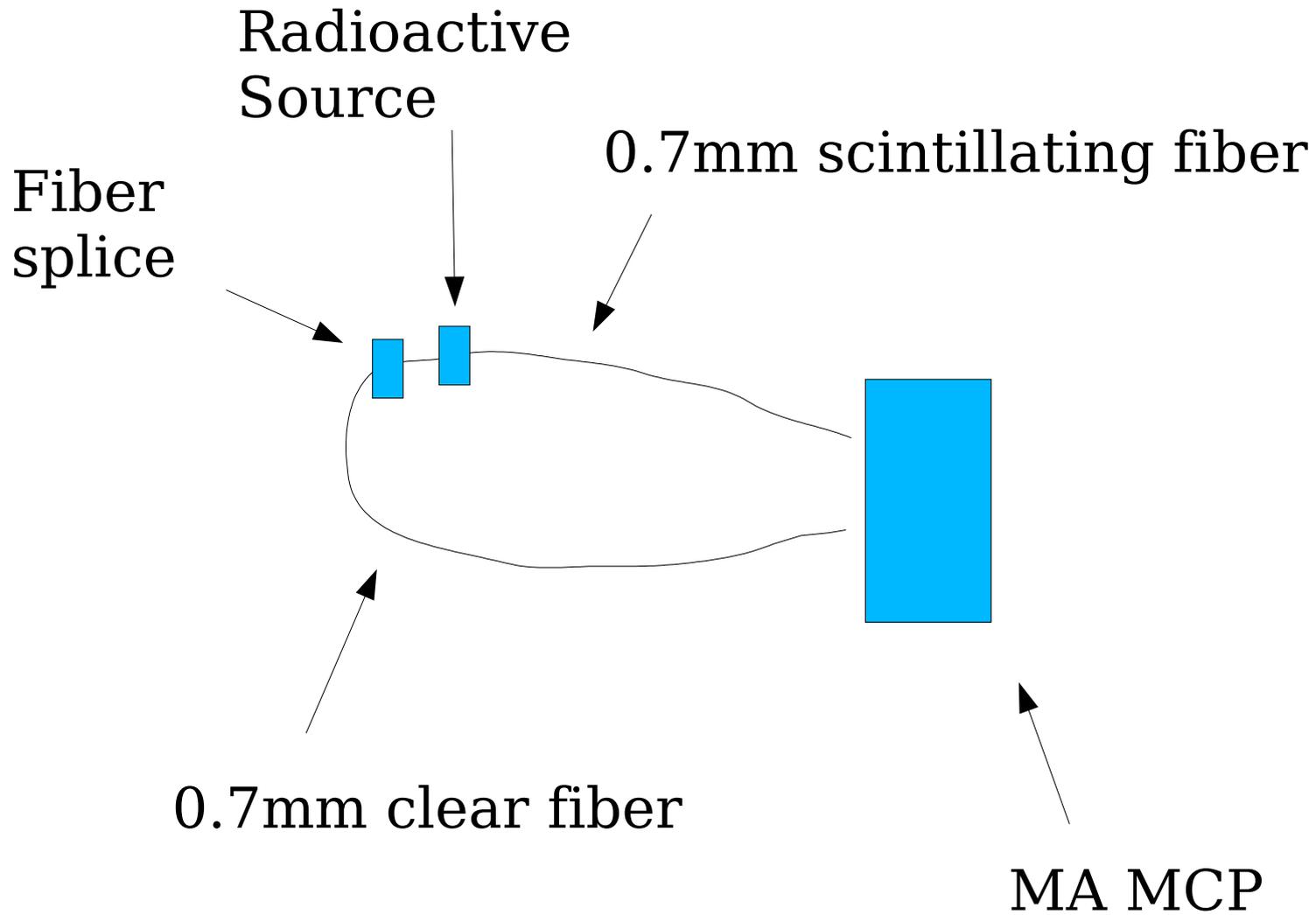
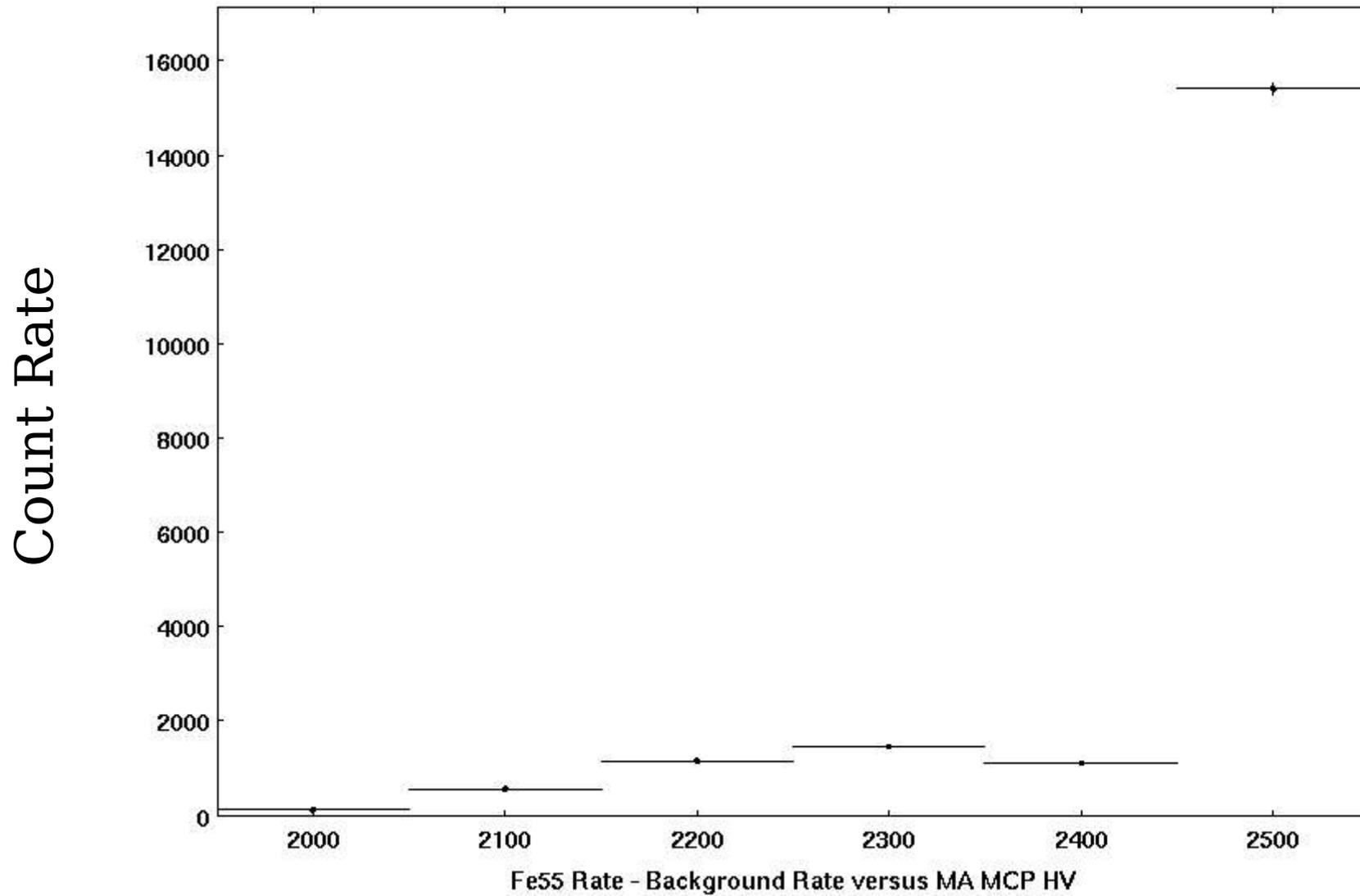


Light Yield Measurement



Fe55 Gamma Source (E gamma = 5KeV)
I-threshold = -60 microamps



From the Fe55 plot, we know that the device begins to be efficient at around HV=-2500 Volts. The electronics threshold is 60 microamps.

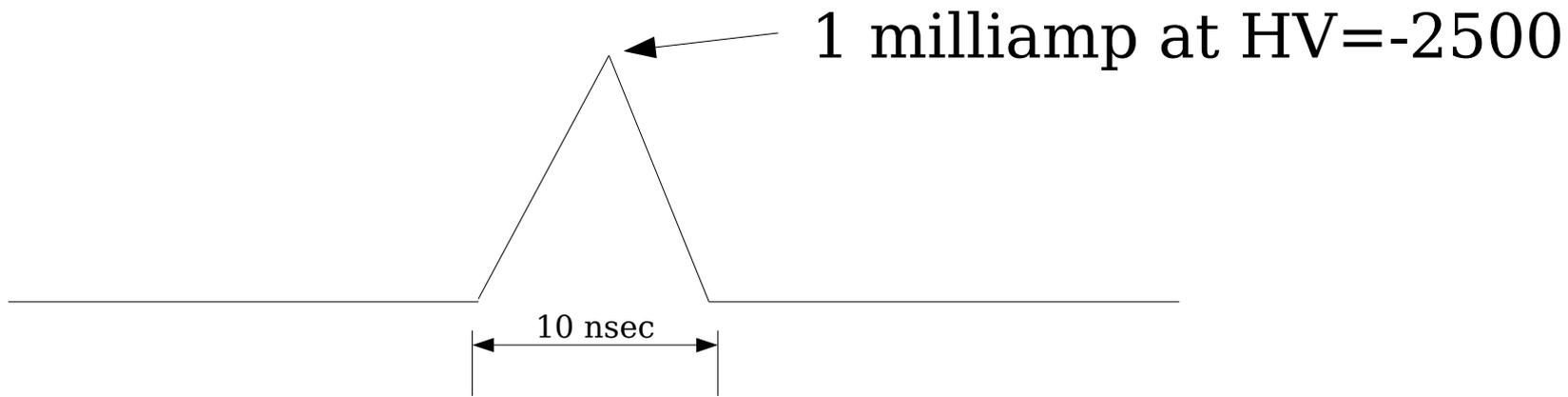
I peak for Fe55 = 60 microamps

The light yield due to MIP should be about 17x more than Fe55 gamma source. The Fe55 gamma energy deposit is about 6 KeV. The MIP energy deposit is about 104 KeV. The fiber thickness is 700 microns.

I peak for MIP = 60 microamps x 17 = 1 mA	at HV = -2500
I peak for MIP	= 500 microamp at HV = -2400
I peak for MIP	= 250 microamp at HV = -2300

Pulseshape = triangular shape lasting 10 nsec.

I would say that this is good to 2x.



Sr90 Beta Source ($E_{\text{max}} = 5 \text{ MeV}$)
I-threshold = 60 microamps

