

In order to check the signal from Am-241, a TPC was built with field cage (see Fig1).

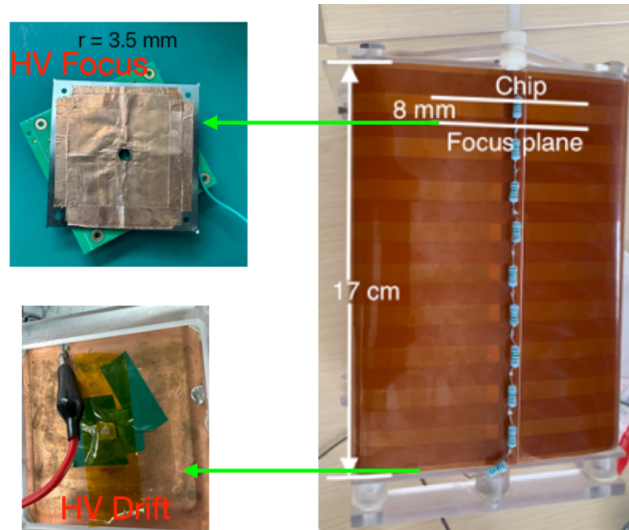


Fig1: photos of field cage and focus plane

Am-241 was put on two positions. The first place is on top of field cage, so the track is along the electronic field line. Another direction of alpha is vertical to the electronic field line, so the source was located in the edge of the field cage.

Fig2 shows the waveforms from 5 mV pulses and two directions of alpha particles with similar amplitudes. The signal from pulse should have the fastest rising time for the fast injecting ( $\sim$ ns). The rising time of parallel to electronic field should be slower than those vertical to electronic field for the distance is longer for the parallel to electronic field one.

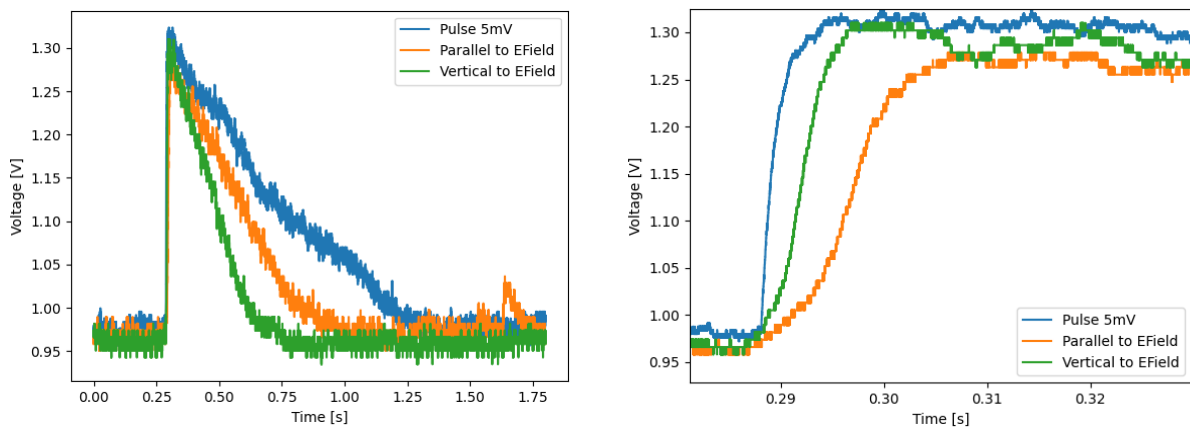


Fig2: The waveforms of pulse, two directions from Am-241 alpha.