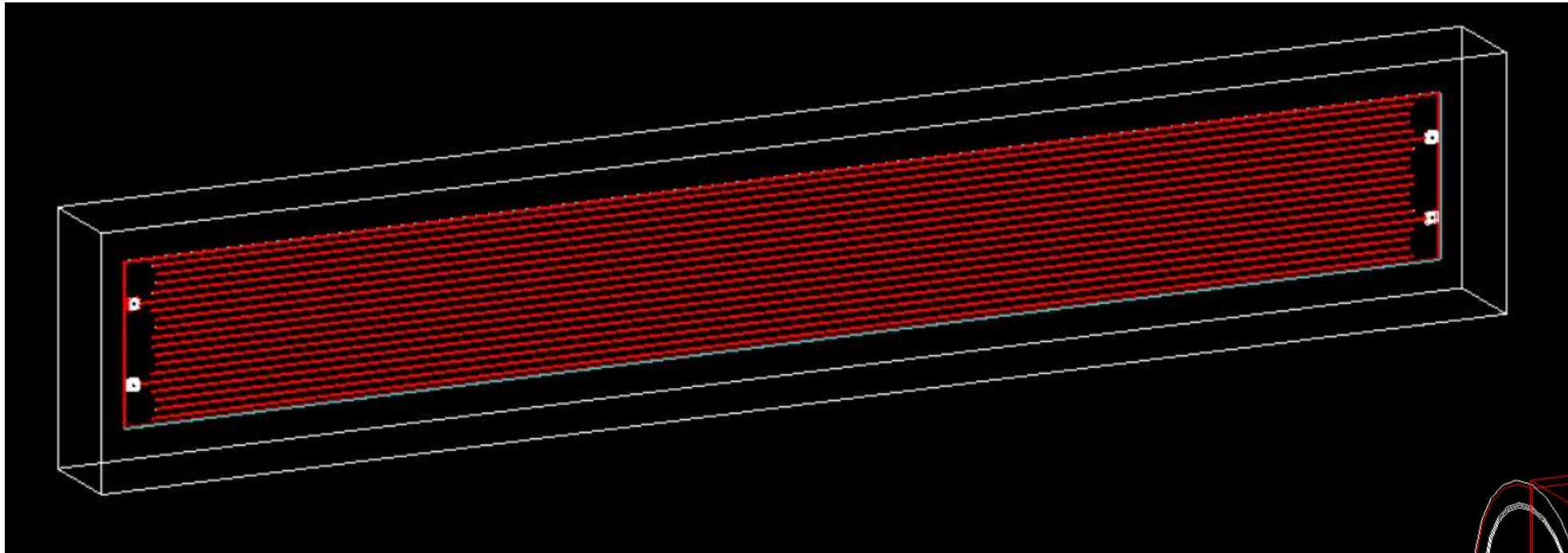
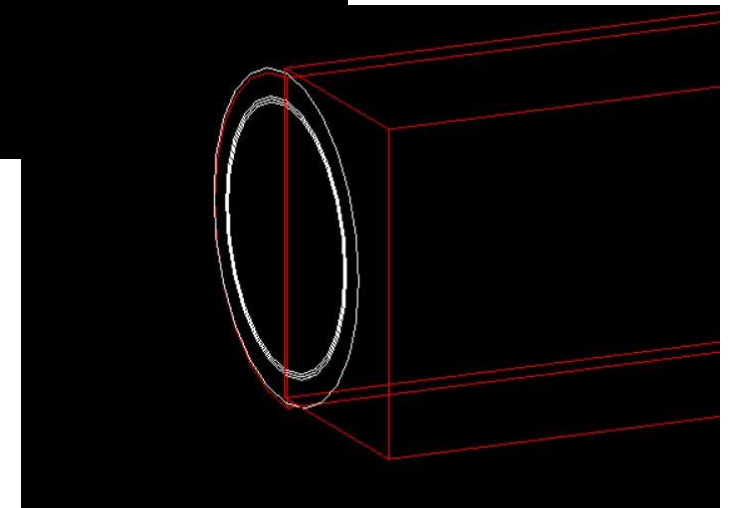


DCV Simulation

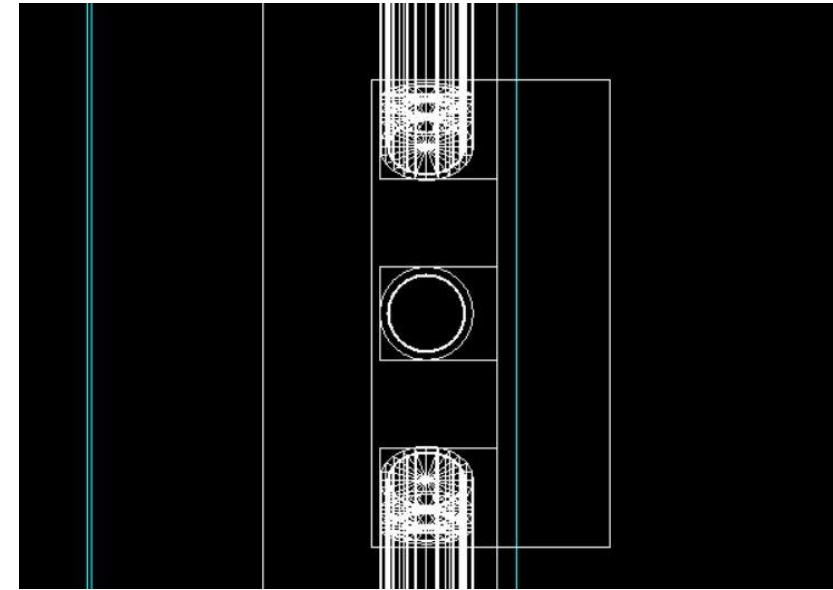
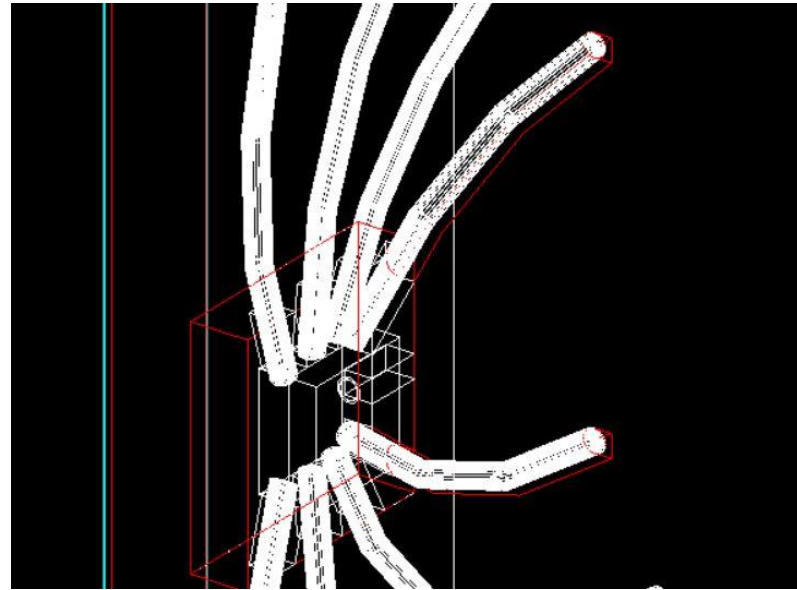
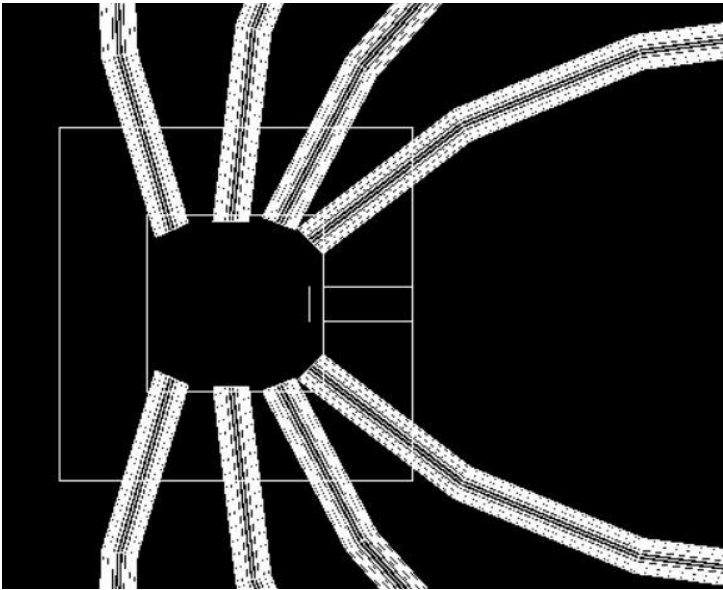
DCV simulation



Scintillation Groove for straight part

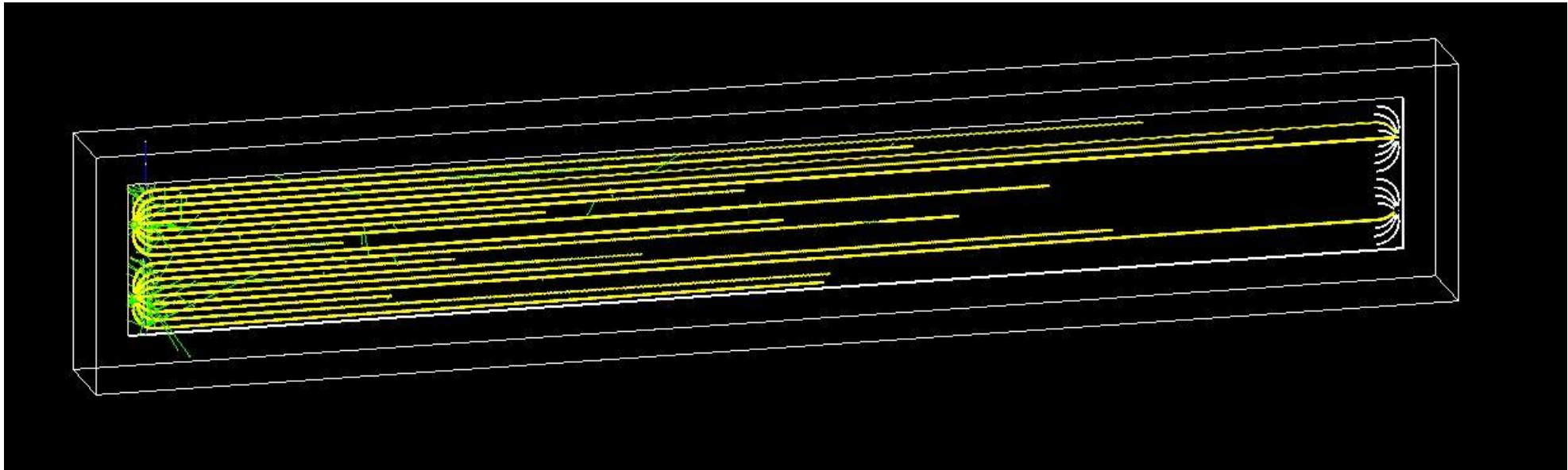


DCV simulation



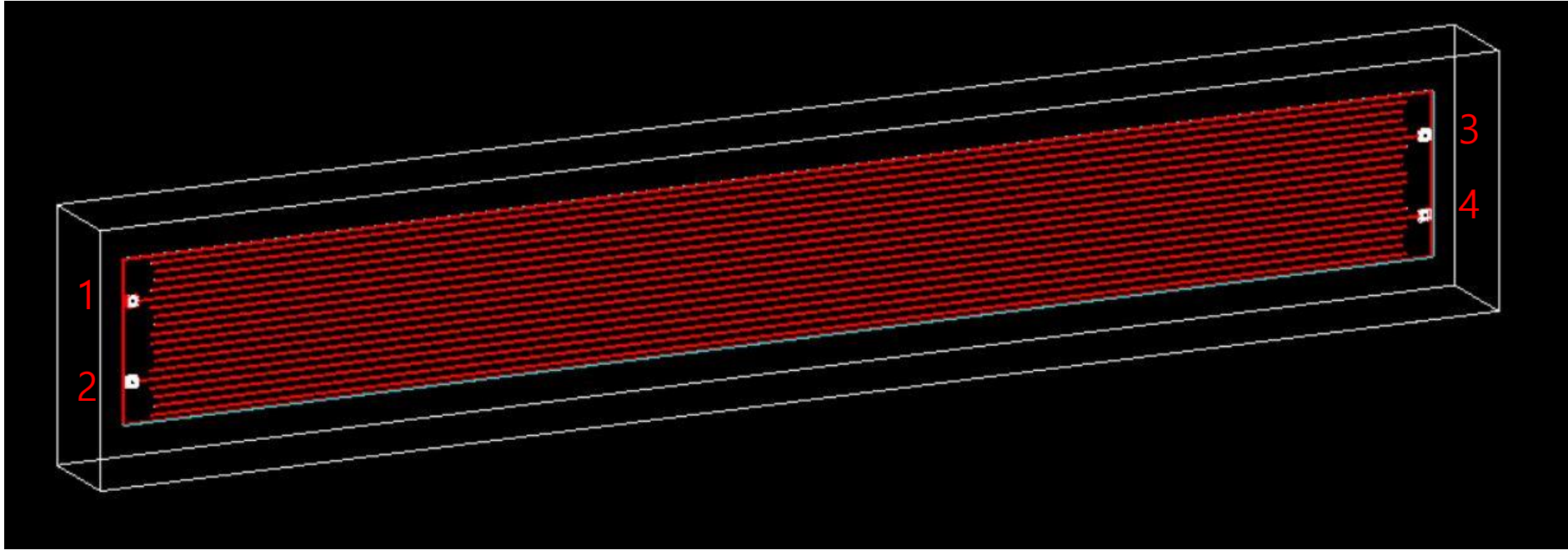
Scintillation Groove(red) and fiber(white) for curved part and aluminum box and aluminum mylar(light blue)

DCV simulation



WLS-fibers are connected

Result for one event



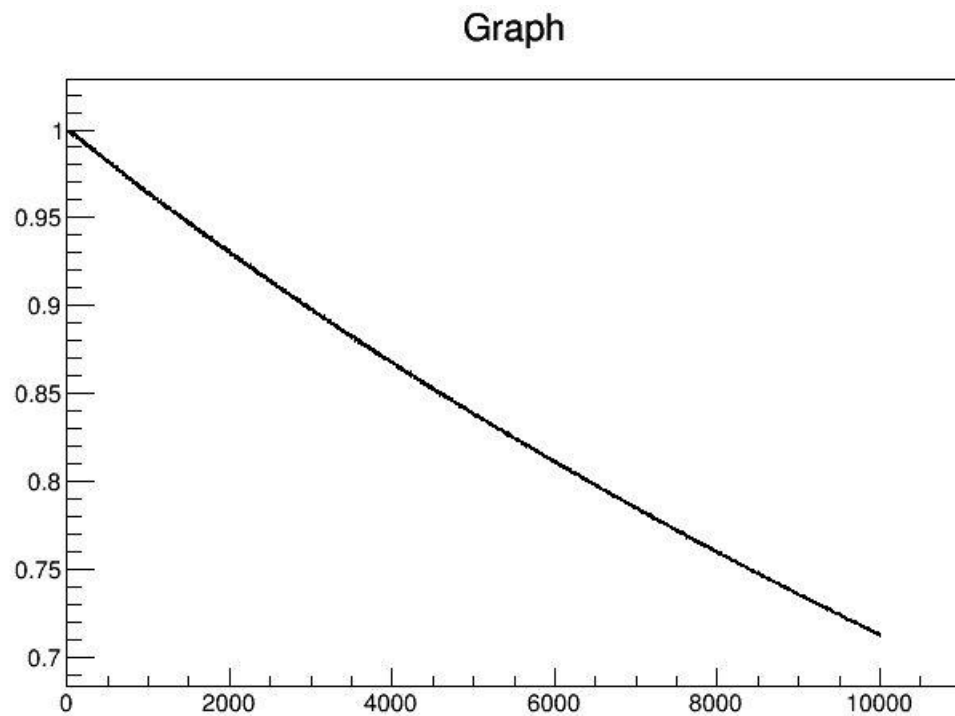
number of MPPC	1	2	3	4
the number of photon	121	100	107	107

<simulation result>

number of MPPC	1	2	3	4
the number of photon	47.32	48.74	45.46	39.47

<Experiment result>

Efficiency of MPPC



- For uniform probability, the efficiency of MPPC which has 14,000 pixels is shown on the left.
- Howecince the probability of entering a photon in the center pixel is higher, it is necessary to correct the probability.