



After 1800 secods (assuming beam net flux 1e+07 Hz):

$$R(^{210}\text{Fr}) = 86.126 \%$$

$$\alpha(^{210}\text{Fr}) = 6.5 \text{ MeV at } 6.32\text{e}+06 \text{ Hz}$$

$$R(^{211}\text{Fr}) = 4.51687 \%$$

$$\alpha(^{211}\text{Fr}) = 6.7 \text{ MeV at } 340000 \text{ Hz}$$

$$R(^{209}\text{Fr}) = 9.35717 \%$$

$$\alpha(^{209}\text{Fr}) = 6.9 \text{ MeV at } 340000 \text{ Hz}$$