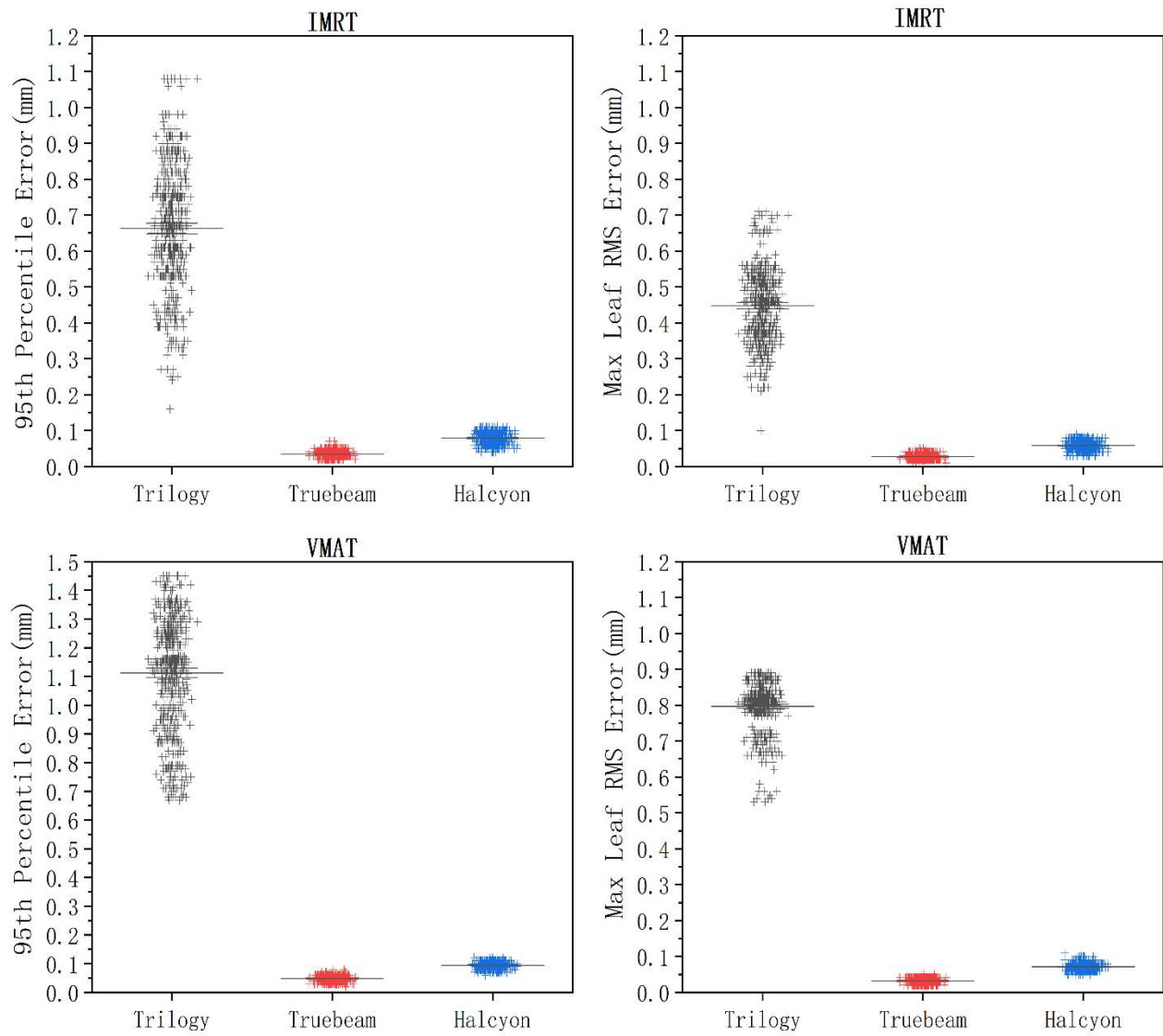
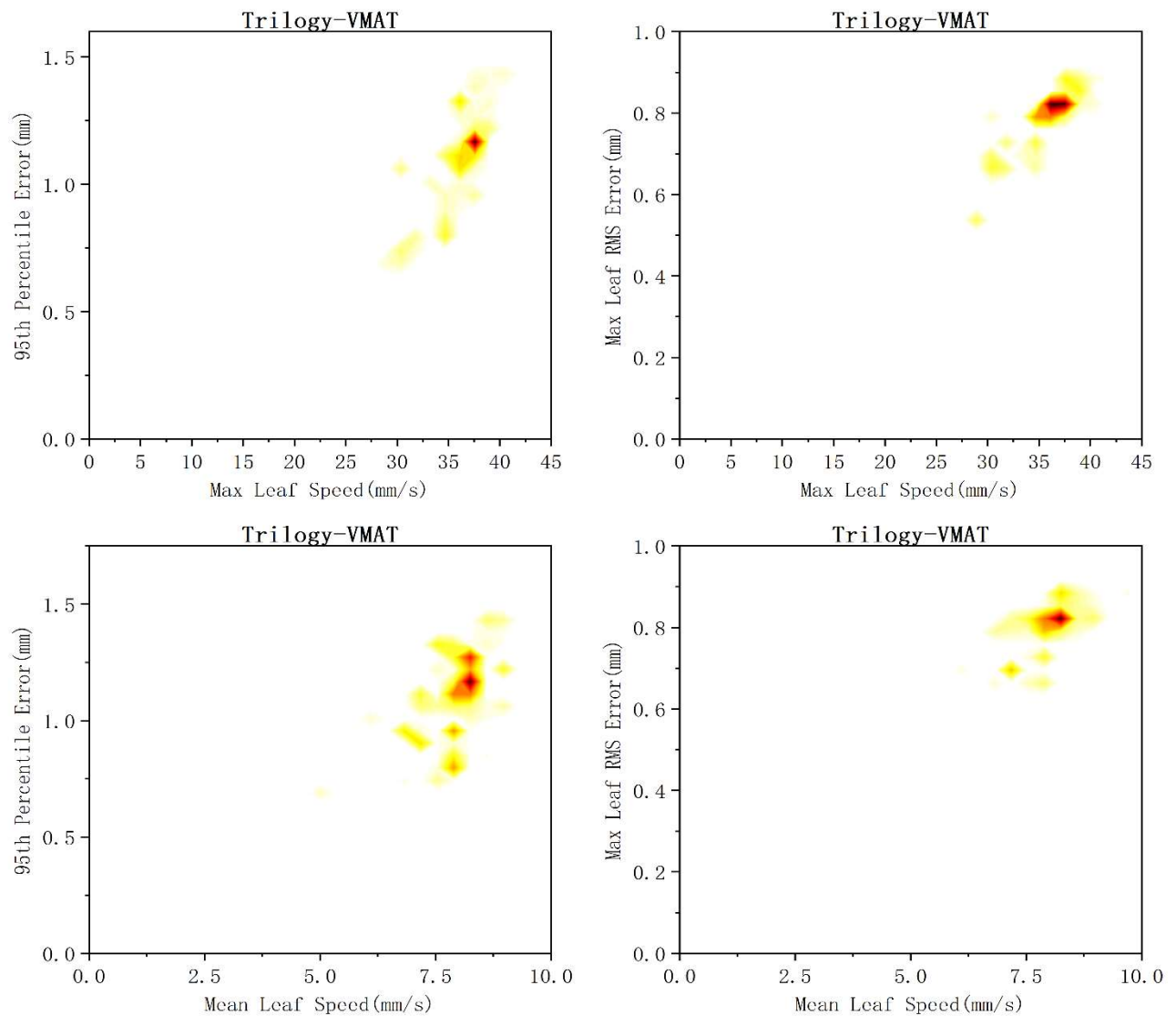


Supplementary data

Supplementary Fig. 1. Comparisons of maximum leaf RMS errors and 95th percentile errors among the three accelerators with IMRT and VMAT technique

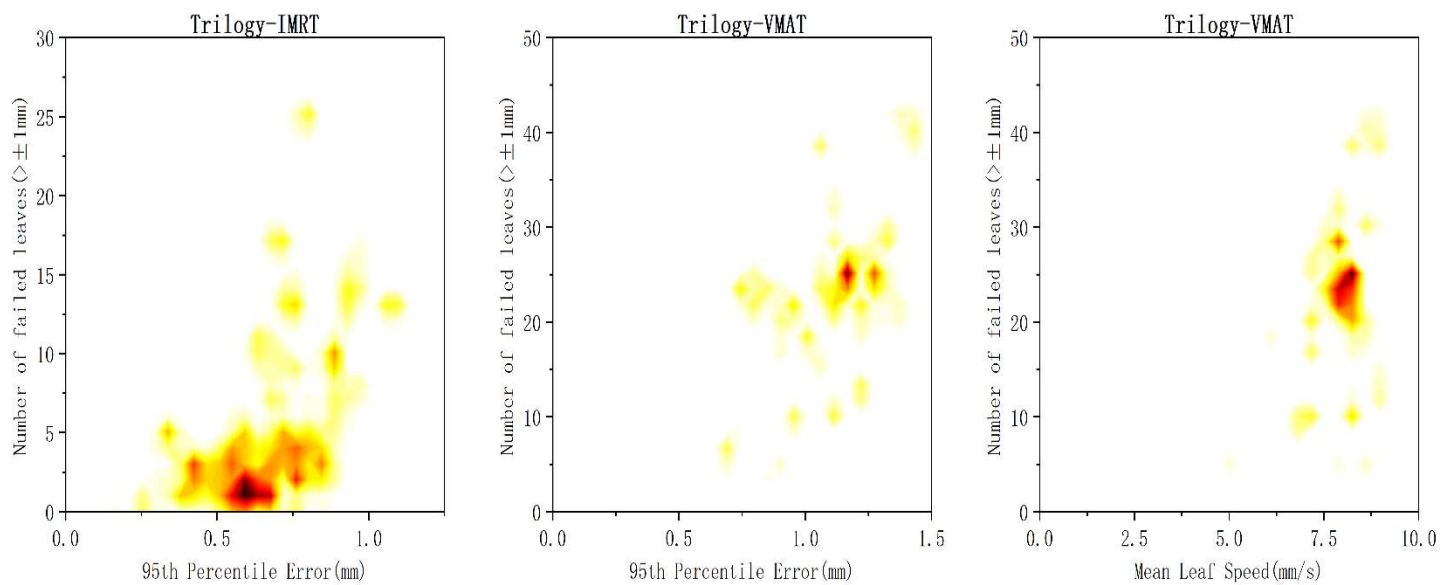


Supplementary Fig. 2 The density plots of correlation between the maximum leaf RMS and 95th percentile error and leaf speed in Trilogy with VMAT technique



Data densities are indicated by color changes. Yellow represents low density, red represents high density, and black represents the highest density.

Supplementary Fig. 3 The density plots of correlation between the number of failed leaves and the 95th percentile error and mean leaf speed in Trilogy with IMRT and VMAT technique.



Data densities are indicated by color changes. Yellow represents low density, red represents high density, and black represents the highest density.

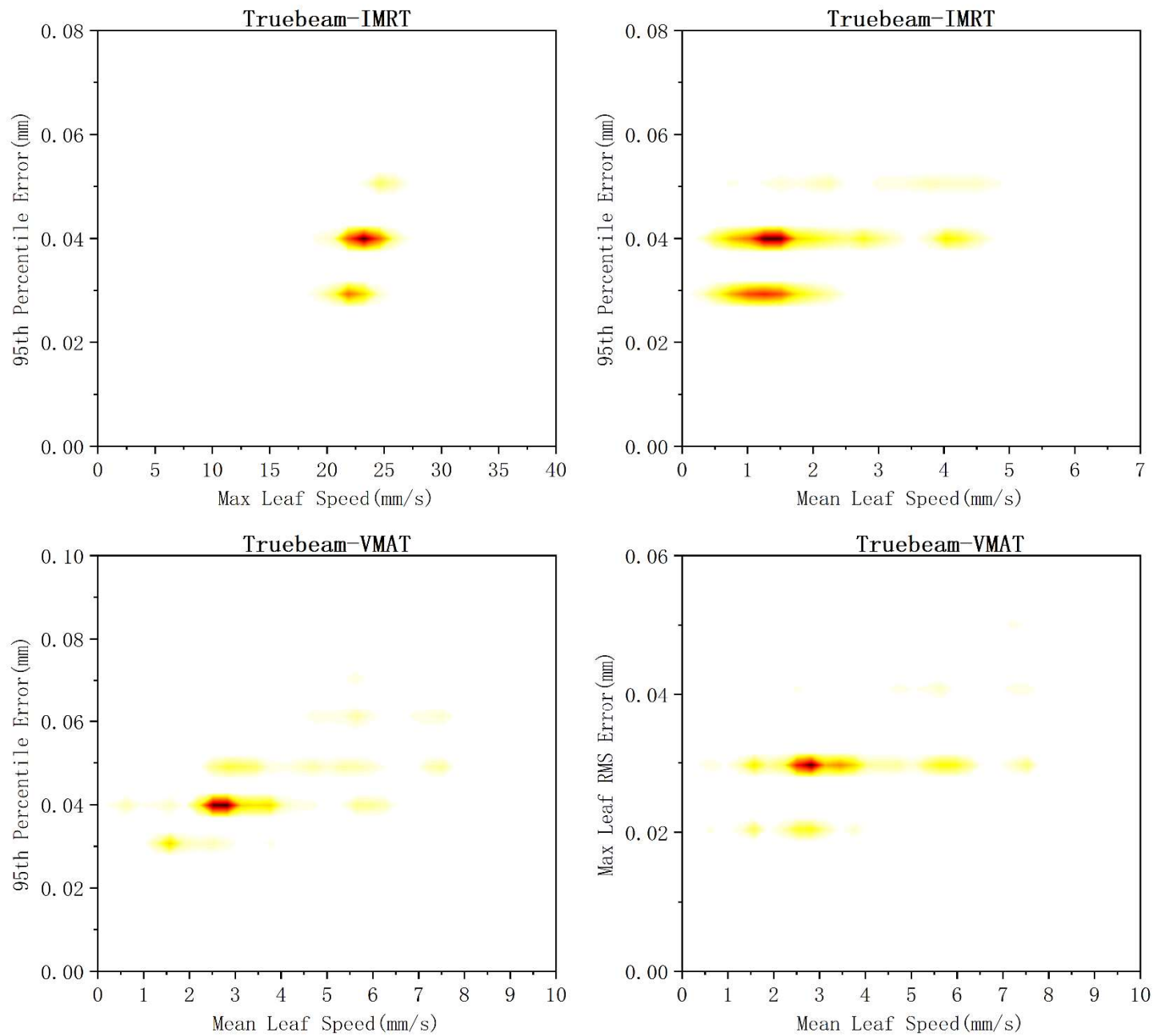
Supplementary Fig. 4 Correlation analysis between evaluation parameters

		Trilogy		Truebeam		Halcyon	
		IMRT	VMAT	IMRT	VMAT	IMRT	VMAT
Pearson correlation coefficients	A vs B	0.51	0.79	0.7	0.67	0.54	0.58
	A vs C	0.36	0.78	0.59	0.28	0.27	0.29
	A vs D	0.61	0.6	0.6	0.7	0.59	0.52
	A vs E	0.51	0.57	*	*	*	*
	B vs C	0.76	0.85	0.41	0.22	0.2	0.15
	B vs D	0.7	0.75	0.45	0.55	0.18	0.36
	B vs E	0.48	0.49	*	*	*	*
	C vs D	0.48	0.74	0.59	0.21	0.35	0.37
	C vs E	0.45	0.41	*	*	*	*
	D vs E	0.3	0.53	*	*	*	*

A: 95th percentile error; B: maximum leaf RMS error; C: maximum leaf speed

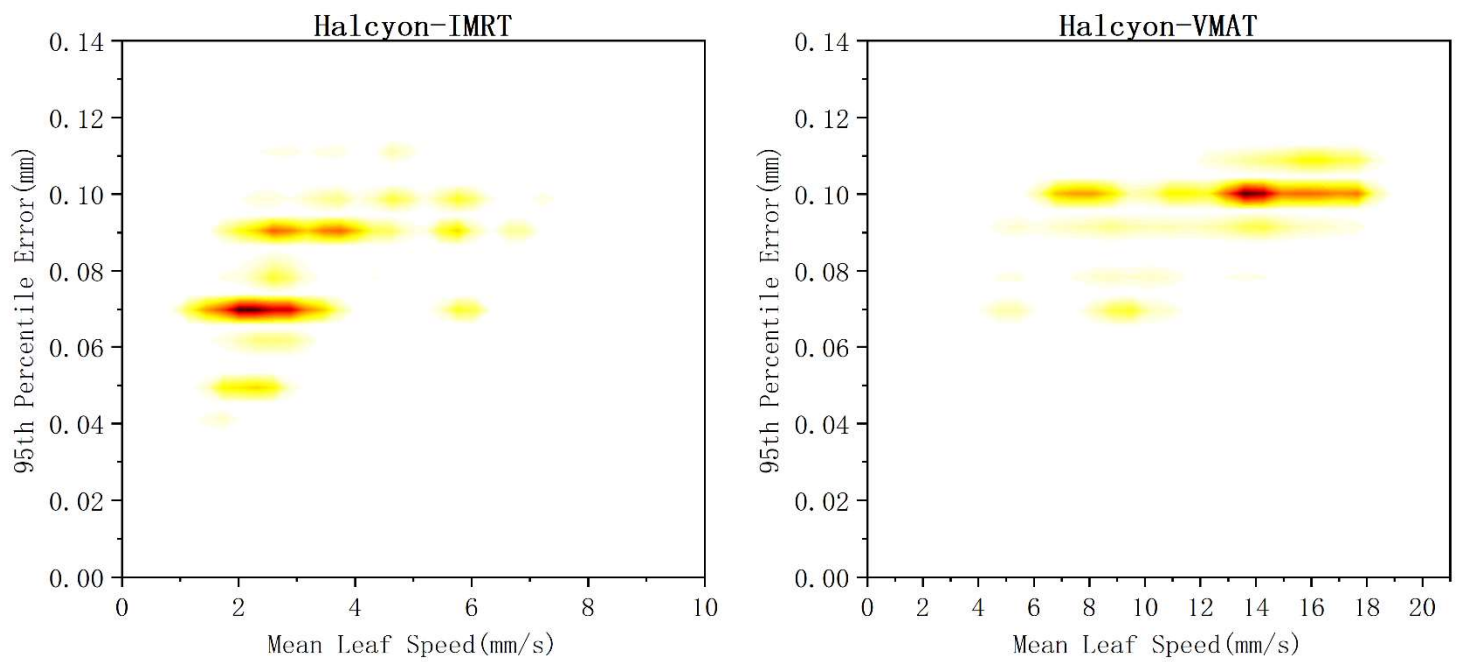
D: mean leaf speed; E: number of fail leaves

Supplementary Fig. 5 The density plots of correlation between the maximum leaf RMS and 95th percentile error and leaf speed in TrueBeam with IMRT and VMAT technique



Data densities are indicated by color changes. Yellow represents low density, red represents high density, and black represents the highest density.

Supplementary Fig. 6 The density plots of the correlation between the 95th percentile error and mean leaf speed in IMRT and VMAT plans of Halcyon



Data densities are indicated by color changes. Yellow represents low density, red represents high density, and black represents the highest density.