



Supplementary Materials:

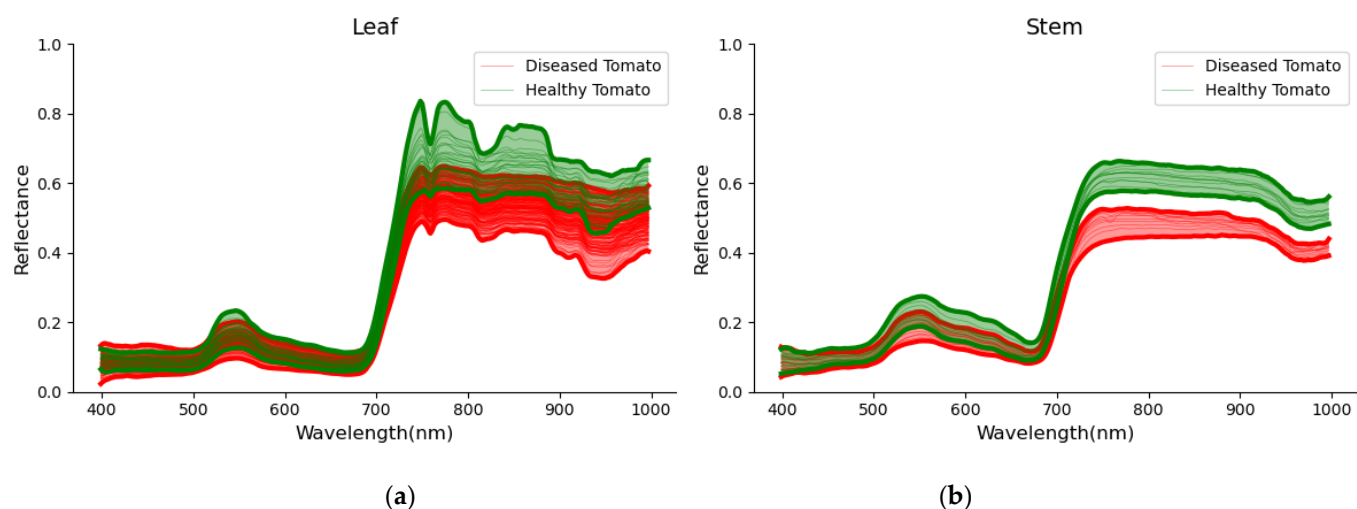


Figure S1. Comparison between spectra of healthy and diseased tomato in Hunan Province, China, 2022: (a) spectra of healthy and diseased tomato leaf; (b) spectra of healthy and diseased tomato stem.

Table S1. Results of SFS, SA and GA to select the optimal subset of features.

Feature selection methods	Output		
	Leaf/Stem	Vegetation Indices	Principal Component
SFS	Leaf	PRI550	PC4~PC12
		Vog1	PC14
		Vog2	PC19
		Ctr2	
		SRPI	
	Stem	PRI550	PC3
		WI	PC6~PC10
		WI:NDVI	PC12~PC14
		PRI570	PC17~PC18
		BWI2	
		G	
		PRI1	
		LIC1	
		GM1	
SA	Leaf	PRI550	PC1~PC3
		OSAVI	PC5~PC9
		NPCI	PC12
		SIPI	
		PRI570	
		ZM	
		SRPI	
		NPQI	
		PRI1	

GA	Stem	Ctr2	
		Vog2	
		Vog3	
		GM2	
		PRI550	PC2
		RDVI	PC6
		WI	PC9
		LIC1	PC13
		Vog2	PC18
		Vog3	
		GM2	
	Leaf	SRPI	PC4
		Vog1	PC6~PC9
		Ctr2	PC11~PC12
	Stem	NWI	PC9
		WI:NDVI	PC10
		PRI2	PC13
		NPCI	PC18
		Ctr1	
		GM1	

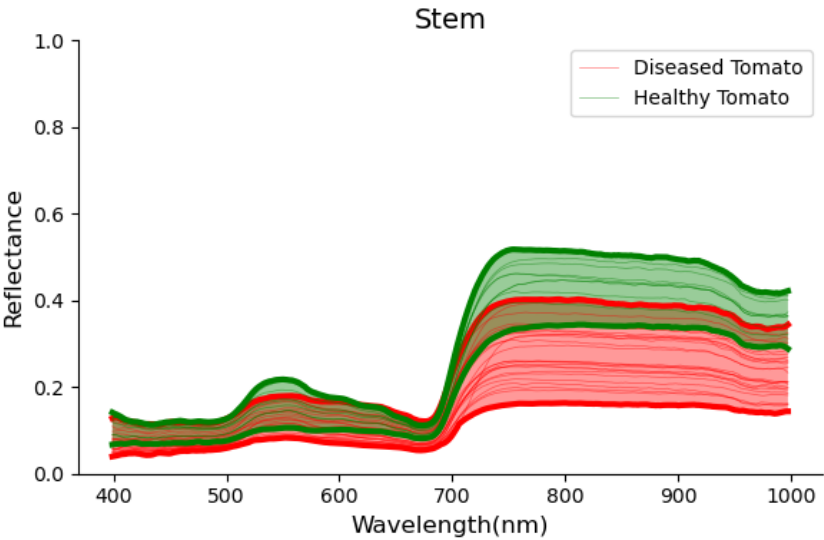


Figure S2. Comparison between spectra of healthy and diseased tomato stems of experimental to-mato field, 2022.