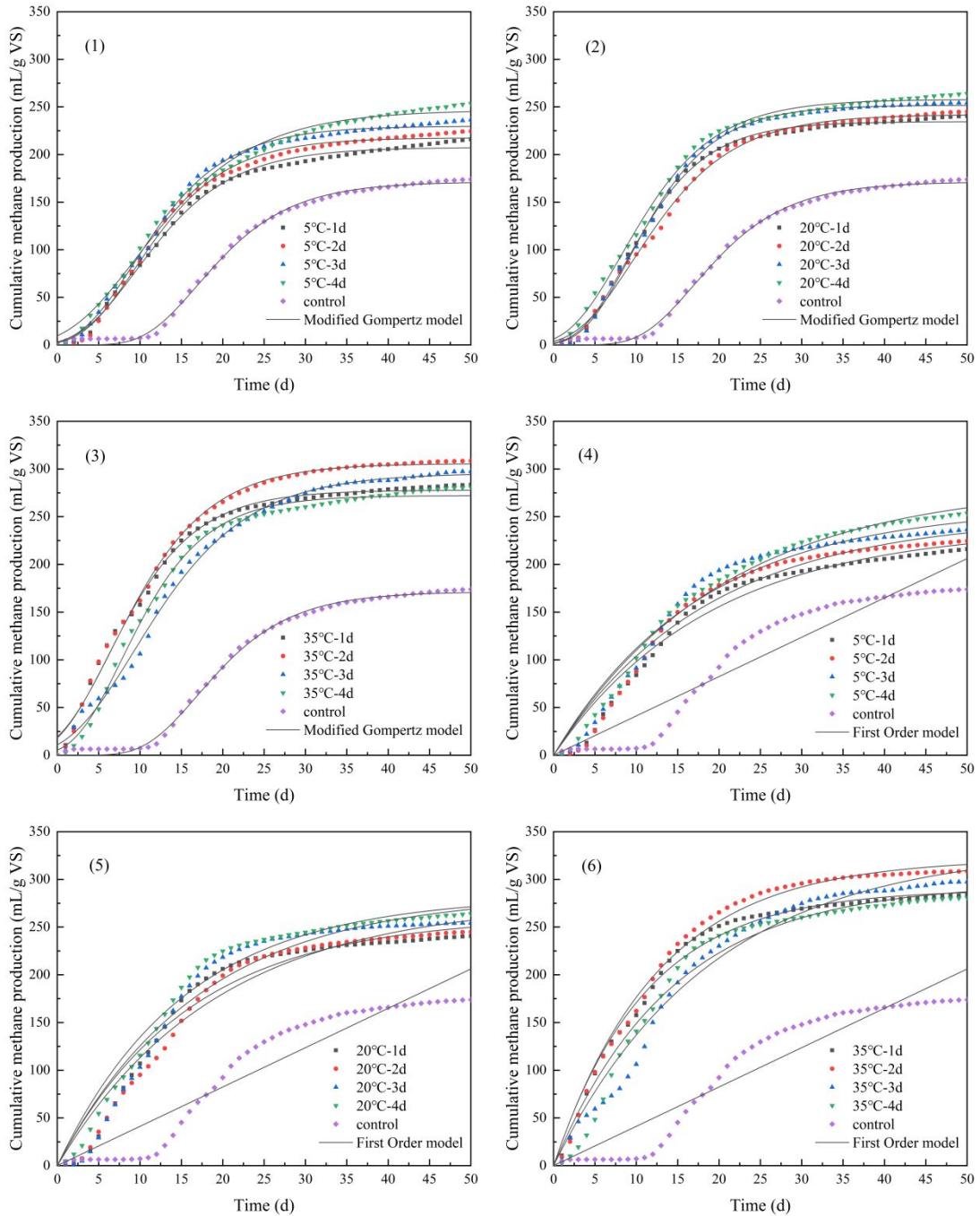
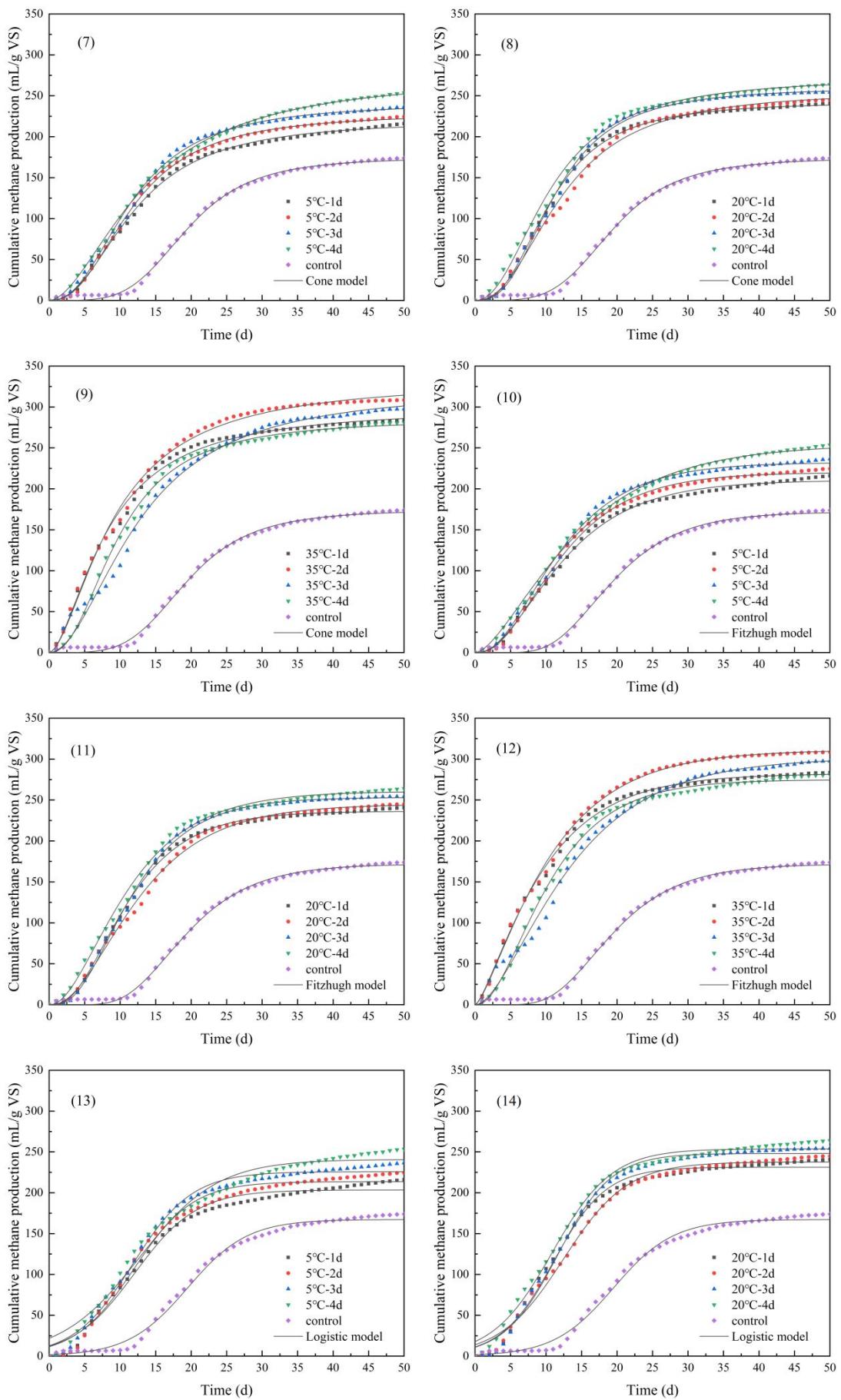


Supporting information





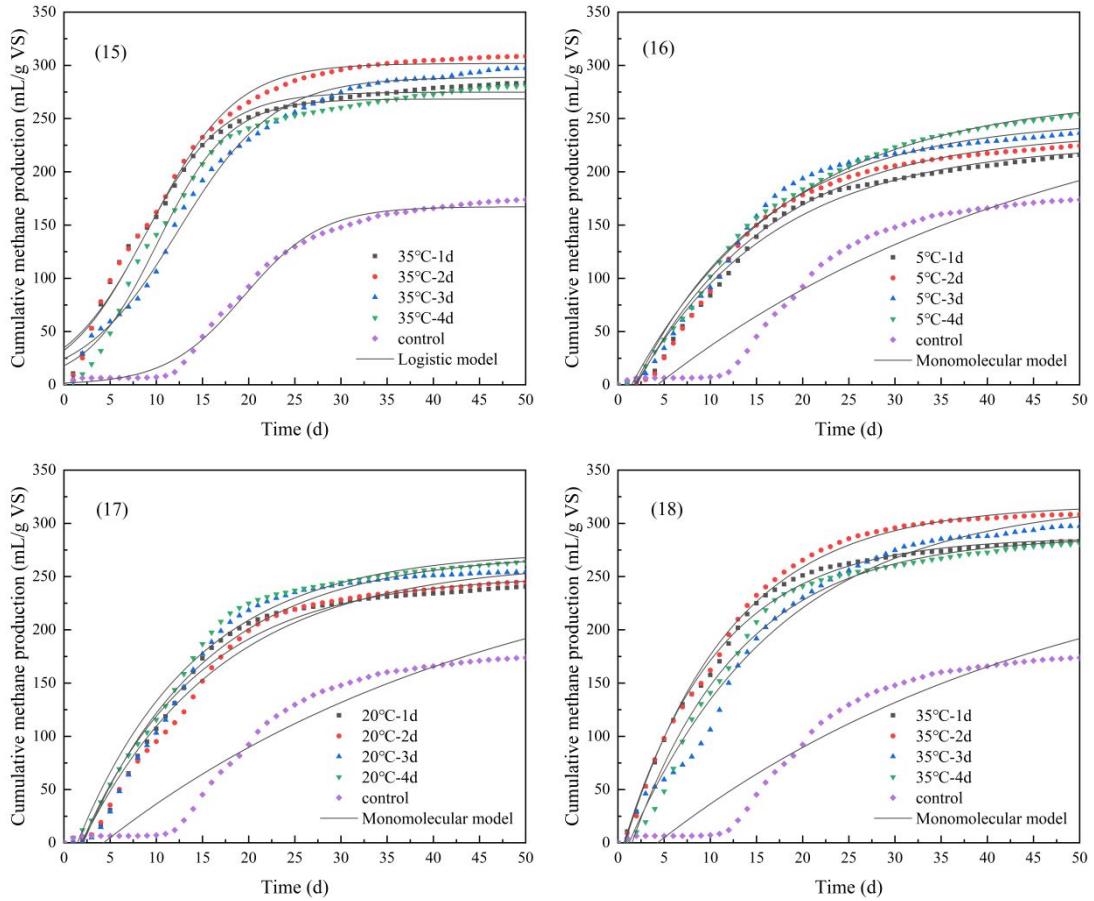


Fig. S1. Simulate the experimental data of the methane production using Modified Gompertz model (1-3), First-order model (4-6), Cone model (7-9), Fitzhugh model (10-12), Logistic model (13-15), and Monomolecular model (16-18) at different temperature and time.

Table S1. Parameter n of Cone model and Fitzhugh model at different conditions

Temperature (°C)	Time (d)	Cone	Fitzhugh
5	1	2.261	2.584
	2	2.412	2.899
	3	2.374	2.779
	4	1.787	1.751
	1	2.586	3.273
	2	2.307	2.685
	3	2.695	3.572
	4	2.162	2.292
	1	1.678	1.438
	2	1.669	1.462
	3	1.935	1.923
	4	2.242	2.439
control		4.262	12.806