

Table S1. The number of records of milk mid-infrared (MIR) spectra, fat percentage (Fat), methane (CH₄), and somatic cell score (SCS) within the first parity (number of total animals is 3,302)

Month	1	2	3	4	5	6	7	8	9	10	11
MIR	2,681	2,820	2,781	2,750	2,660	2,652	2,627	2,573	2,446	2,261	1,604
Fat	2,681	2,820	2,781	2,750	2,660	2,652	2,627	2,573	2,446	2,261	1,604
CH ₄	2,679	2,820	2,781	2,750	2,660	2,652	2,627	2,573	2,446	2,261	1,585
SCS	2,680	2,817	2,778	2,750	2,660	2,652	2,627	2,573	2,446	2,261	1,603

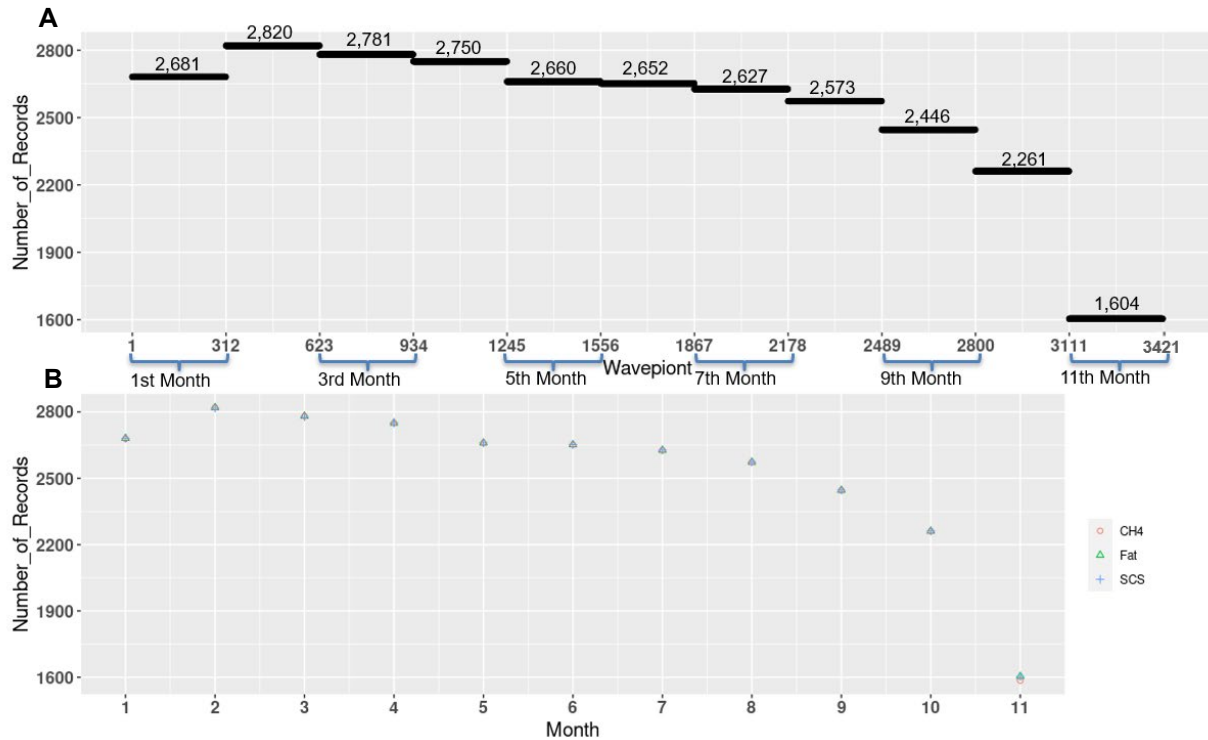


Figure S1. A: number of records of milk mid-infrared (MIR) wavepoints (3,421; 11 months, each month has the same 311 wavepoints); B: number of records of fat percentage (Fat), methane (CH₄), and somatic cell score (SCS) within the first parity (number of total animals is 3,302)