

562 **Table 1.** Measuring strategies to acquire data in an open dairy barn by using the INNOVA analyser.

<i>Sample integration time (SIT)</i>				
NH ₃ , CO ₂ , and CH ₄	Time required for measurement of all the gases at one SL:			
	<table border="1"> <tr> <td><i>SIT5</i></td> <td><i>SIT20</i></td> </tr> <tr> <td>1 minute and 15 seconds</td> <td>2 minutes and 30 seconds</td> </tr> </table>	<i>SIT5</i>	<i>SIT20</i>	1 minute and 15 seconds
<i>SIT5</i>	<i>SIT20</i>			
1 minute and 15 seconds	2 minutes and 30 seconds			
<i>Number of repetitions</i>				
NH ₃	<p>It is suggested to:</p> <ul style="list-style-type: none"> - perform three repetitions in each SL; - consider the mean value of the second and third repetitions as the estimated value of NH₃ concentration determined at each SL; 			
<i>Sampling location (SL)</i>				
Position	Central area of the barn			
Number	<table border="1"> <tr> <td>Two SLs reduced the variability of the concentrations below 15%</td> <td>Three SLs reduced the variability of the concentrations below 10%</td> </tr> </table>	Two SLs reduced the variability of the concentrations below 15%	Three SLs reduced the variability of the concentrations below 10%	
Two SLs reduced the variability of the concentrations below 15%	Three SLs reduced the variability of the concentrations below 10%			
Distance between two SLs	A 10-meters distance between two SLs reduced data variability of NH ₃ concentration below 10%			

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