

Changing the setting of instrument temperature was also tested on the method parameters.

The results were obtained by comparing the standard solution tested under  $\pm 3$  Celsius change of  $25^{\circ}\text{C}$ . The RSD% values of either higher or lower temperatures were less than 2% (Table 3.31, 3.32) and (Fig. 3.23, 3.24). Similarly, RSD% values were less 2% when drugs prepared in plasma (Table 3.33, 3.34) and (Fig. 3.25, 3.26).

Table 3.31. Effect of setting the temperature  $+3^{\circ}\text{C}$  on the detection parameters

Parameters	Amlodipine	Glimepiride	Atrovastatin
Area	212475	268673	240660
RSD%	0.13	0.18	0.43
Theoretical plates	10572	11517	11763
Asymmetry	1.22	1.53	0.92

Table 3.32. Effect of setting the temperature  $-3^{\circ}\text{C}$  on the detection parameters

Parameters	Amlodipine	Glimepiride	Atrovastatin
Area	215788	261902	241205
RSD%	0.39	0.24	0.05
Theoretical plates	11623	11583	11498
Asymmetry	1.12	1.78	1.23