

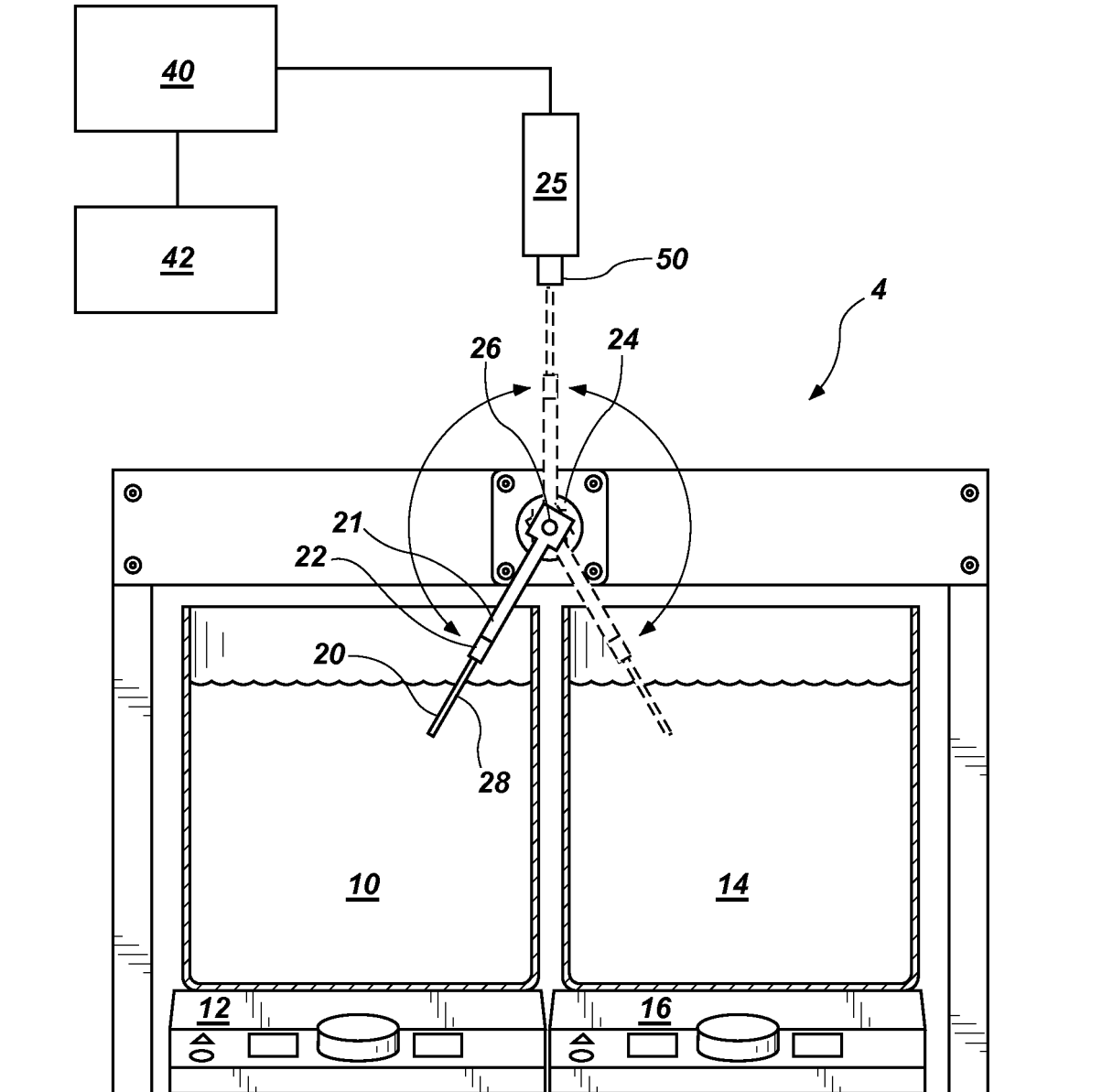


FIG. 1a

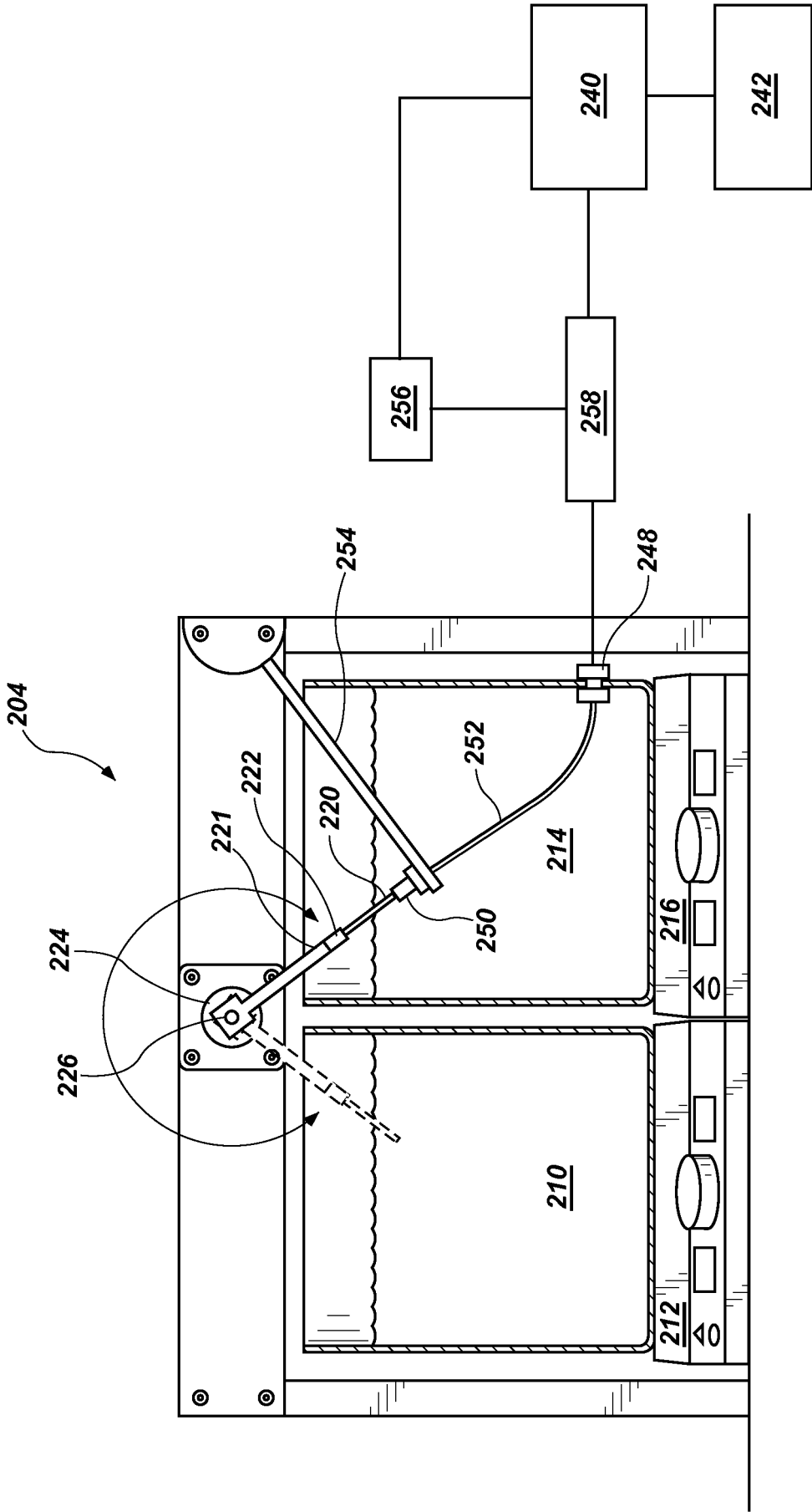


FIG. 1b

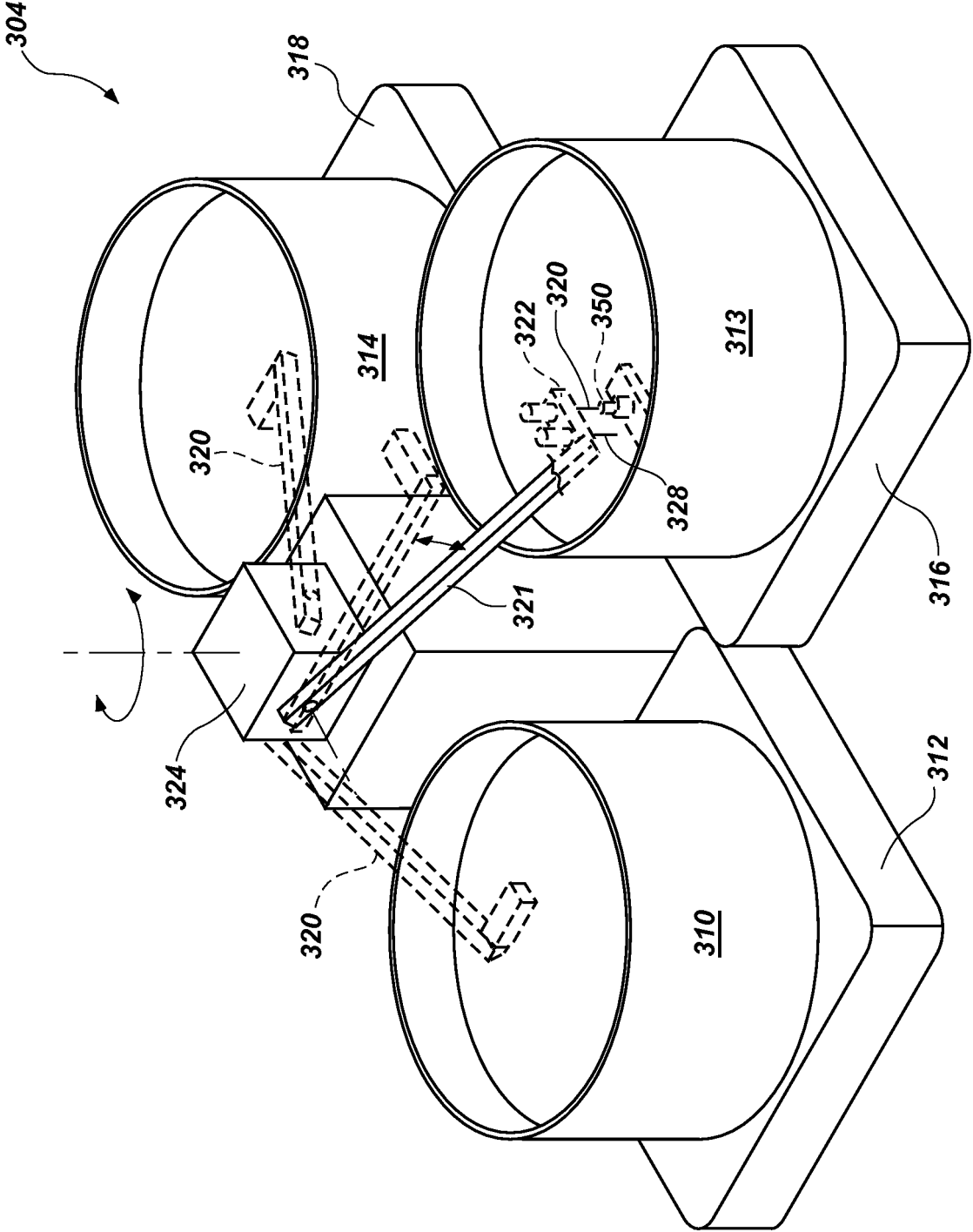


FIG. 1c

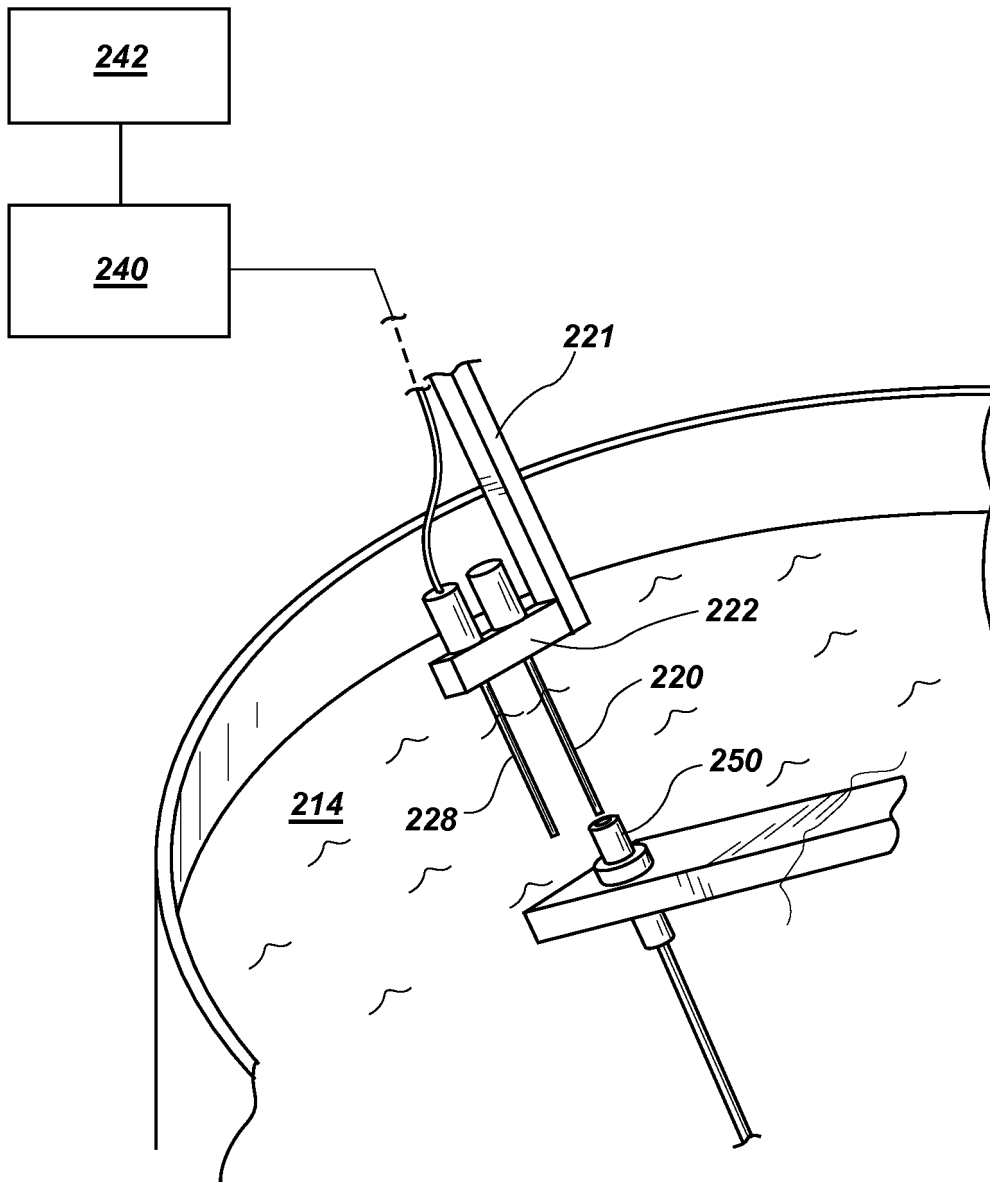


FIG. 1d

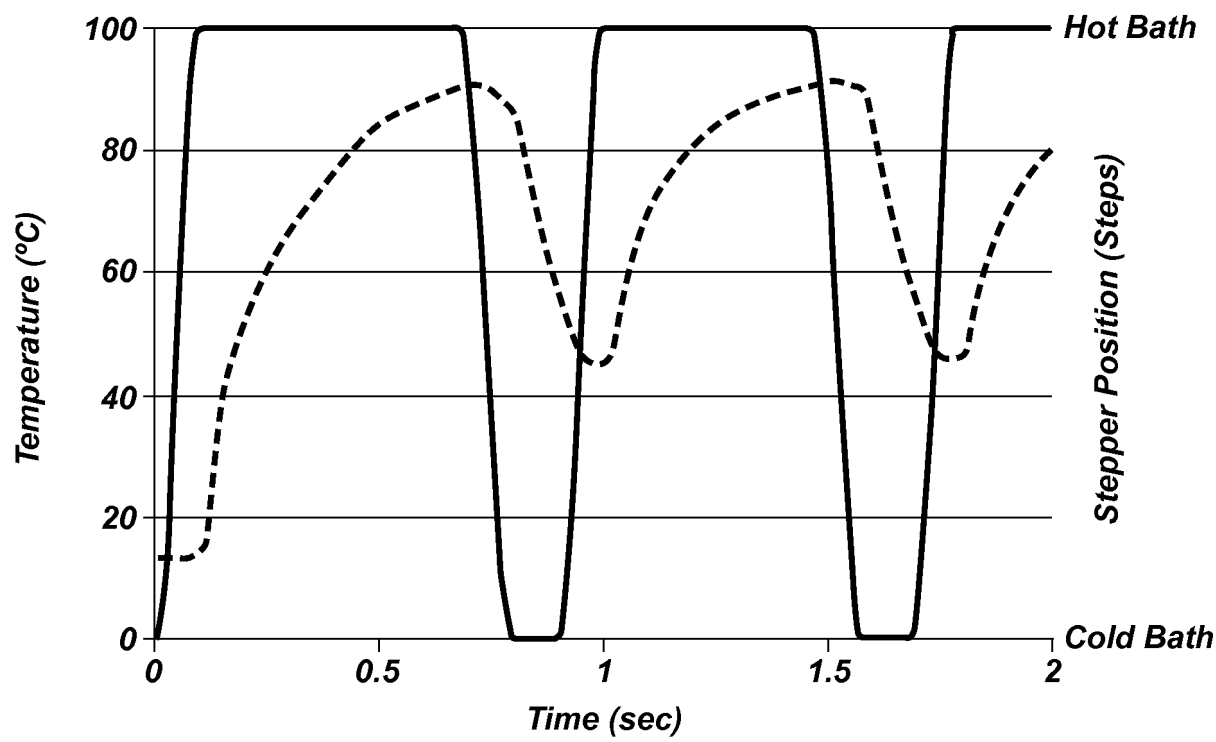


FIG. 2a

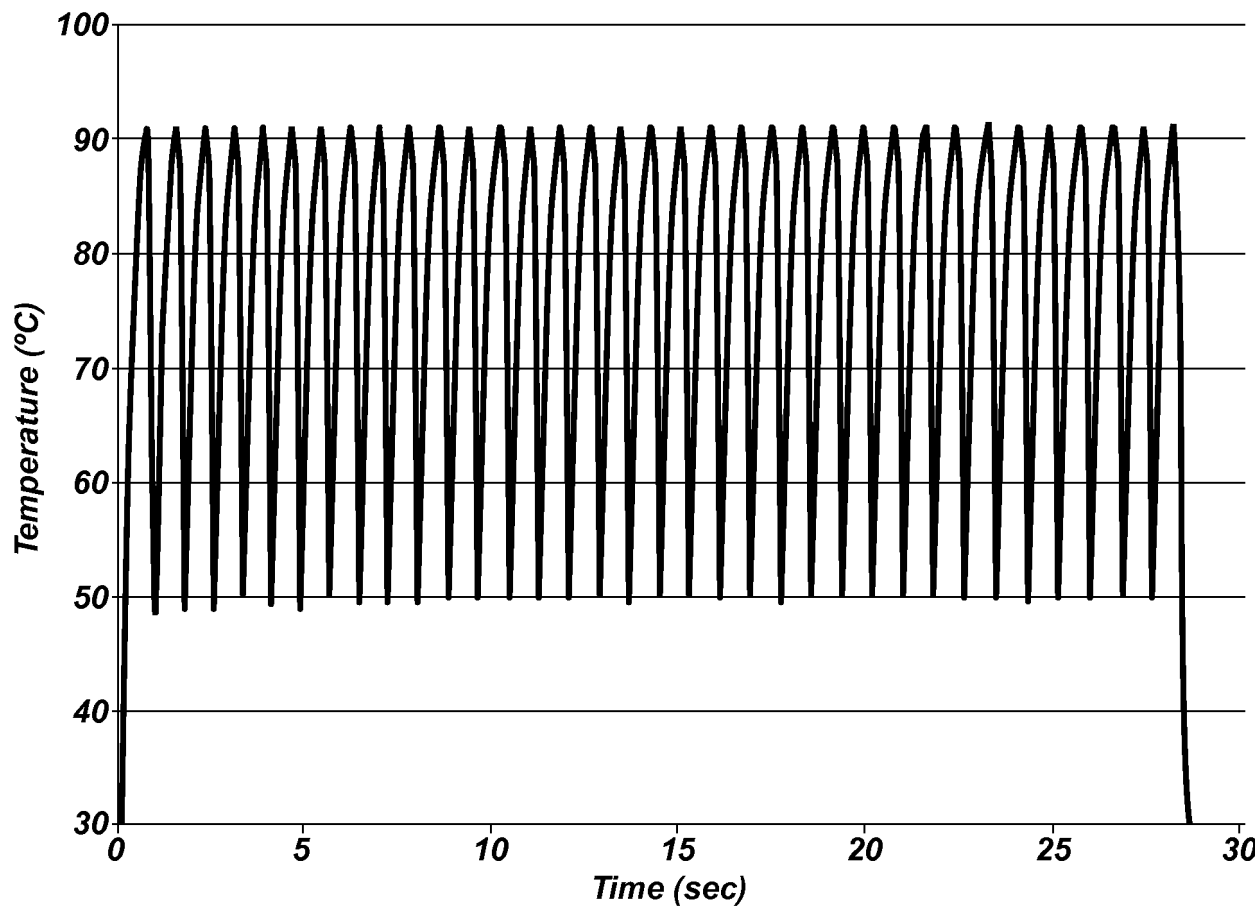
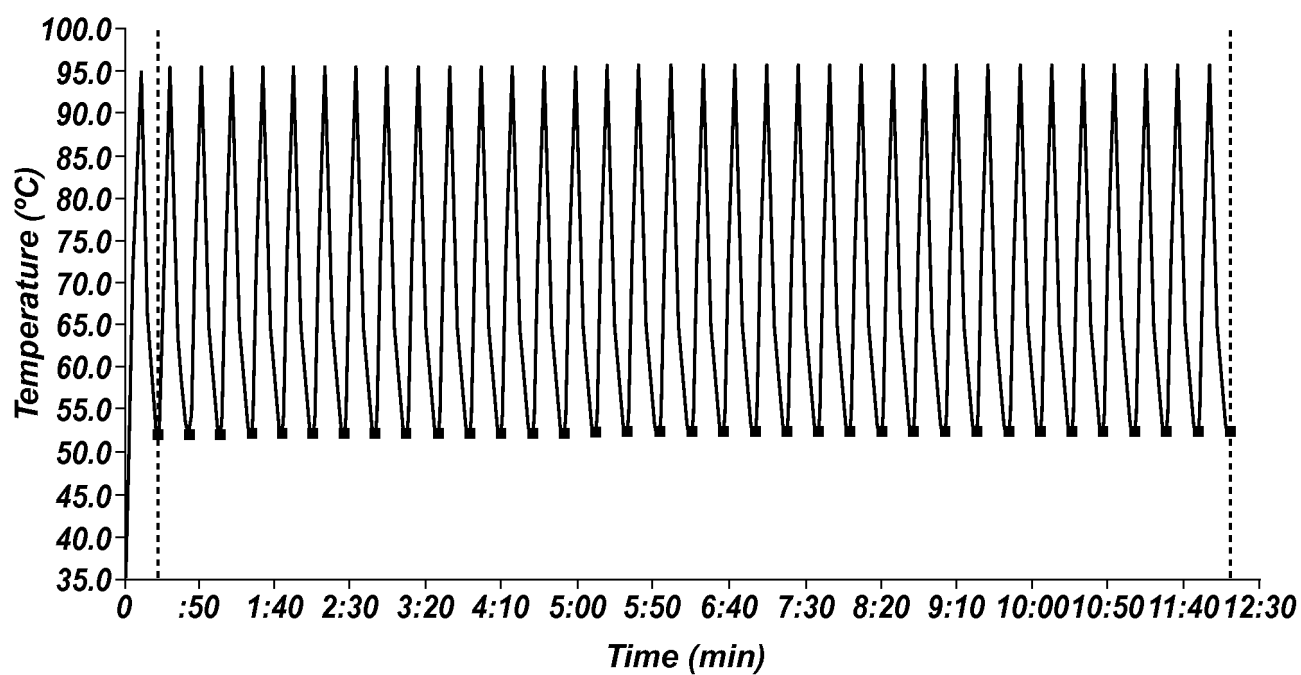
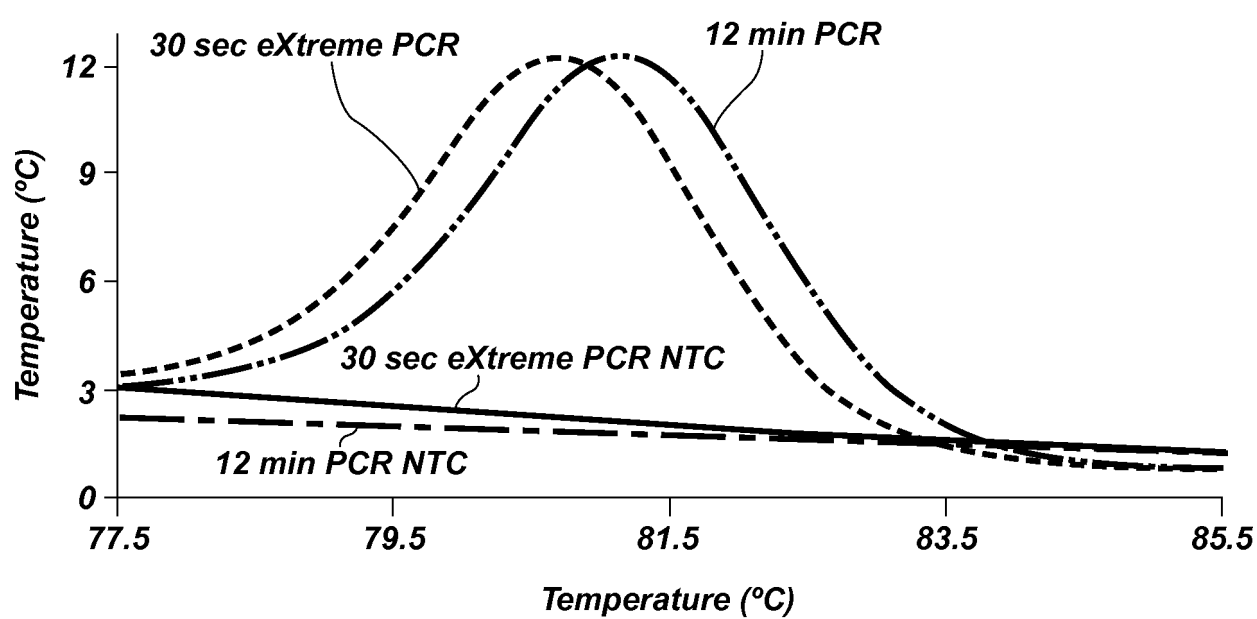


FIG. 2b

**FIG. 2c****FIG. 3a**

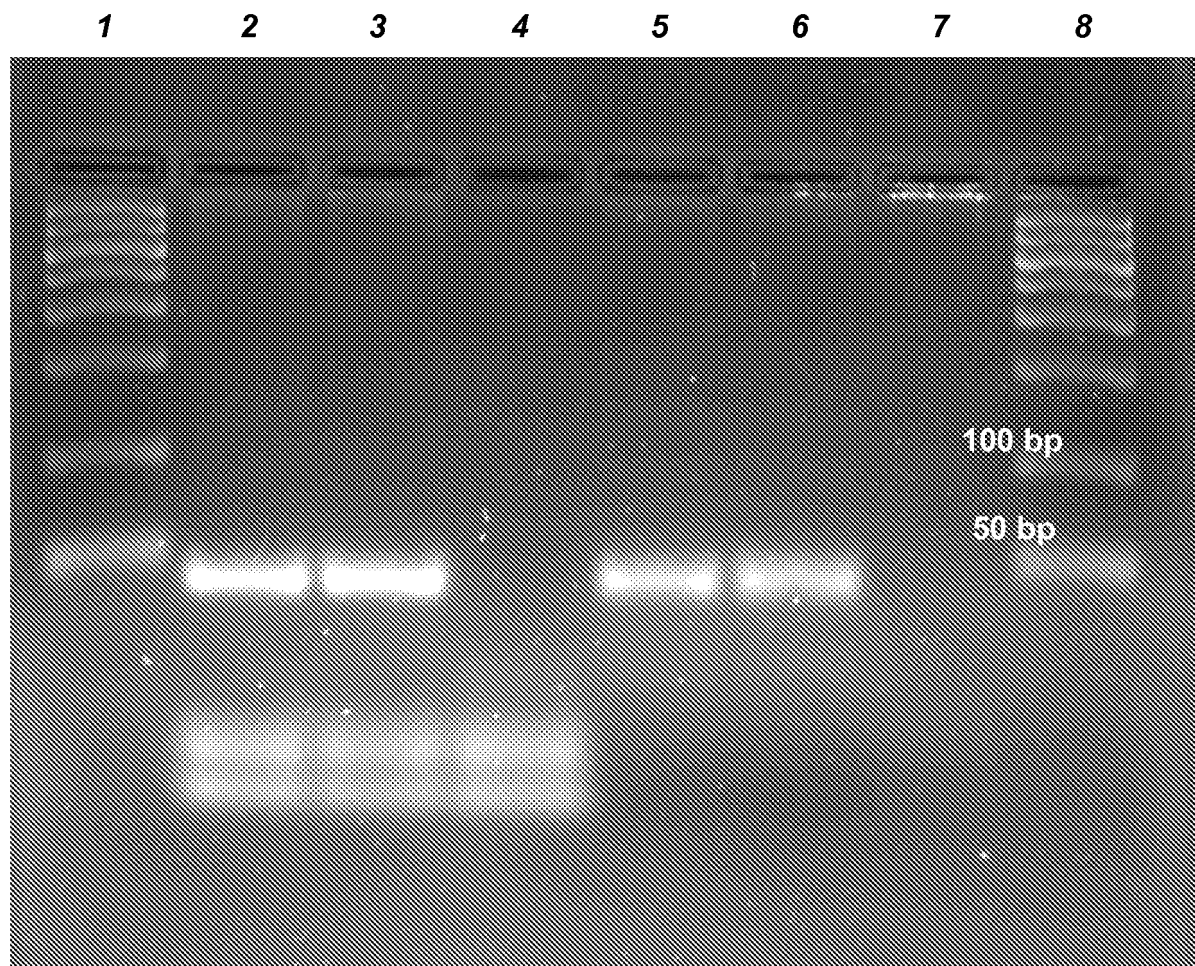


FIG. 3b

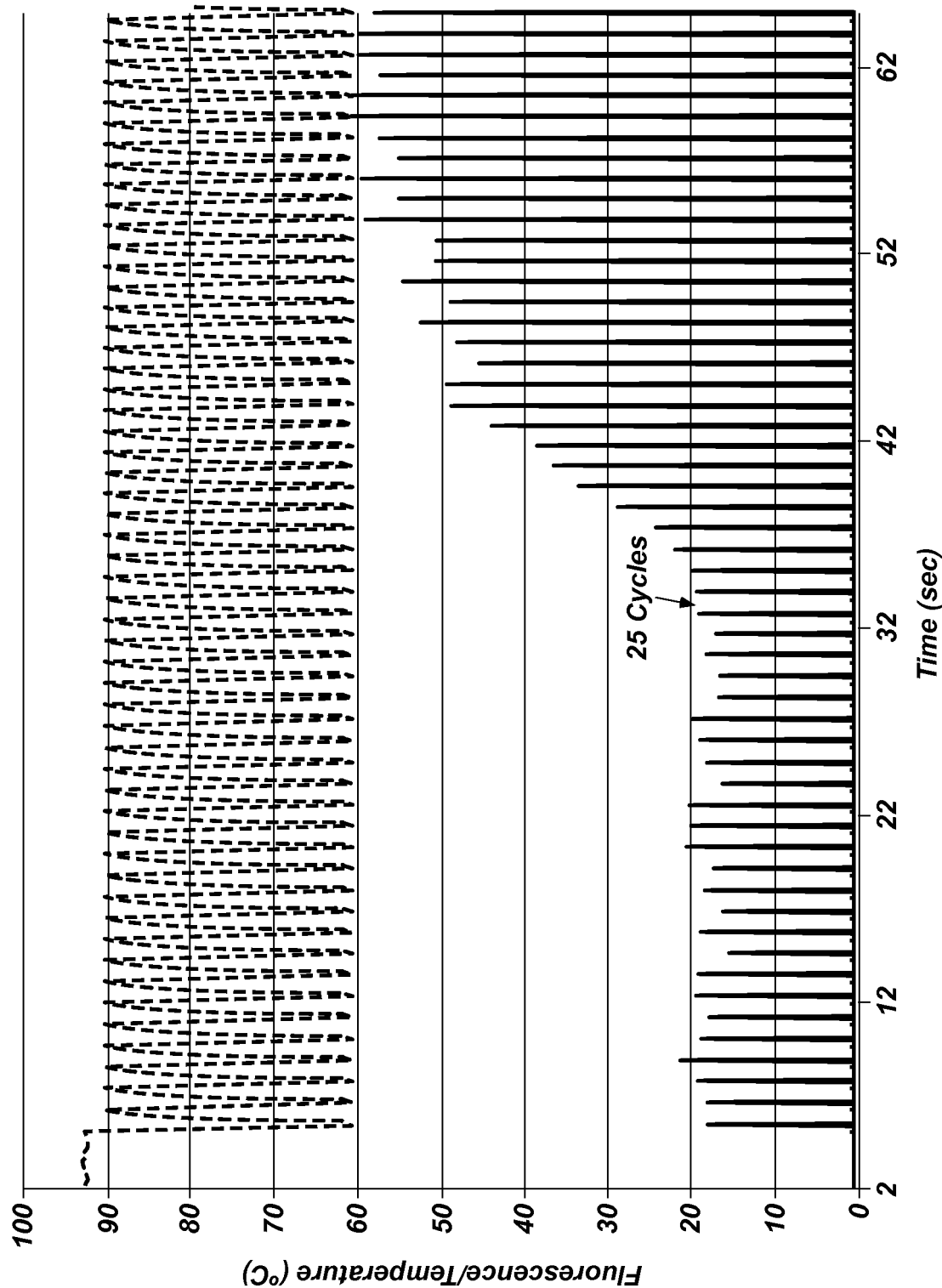
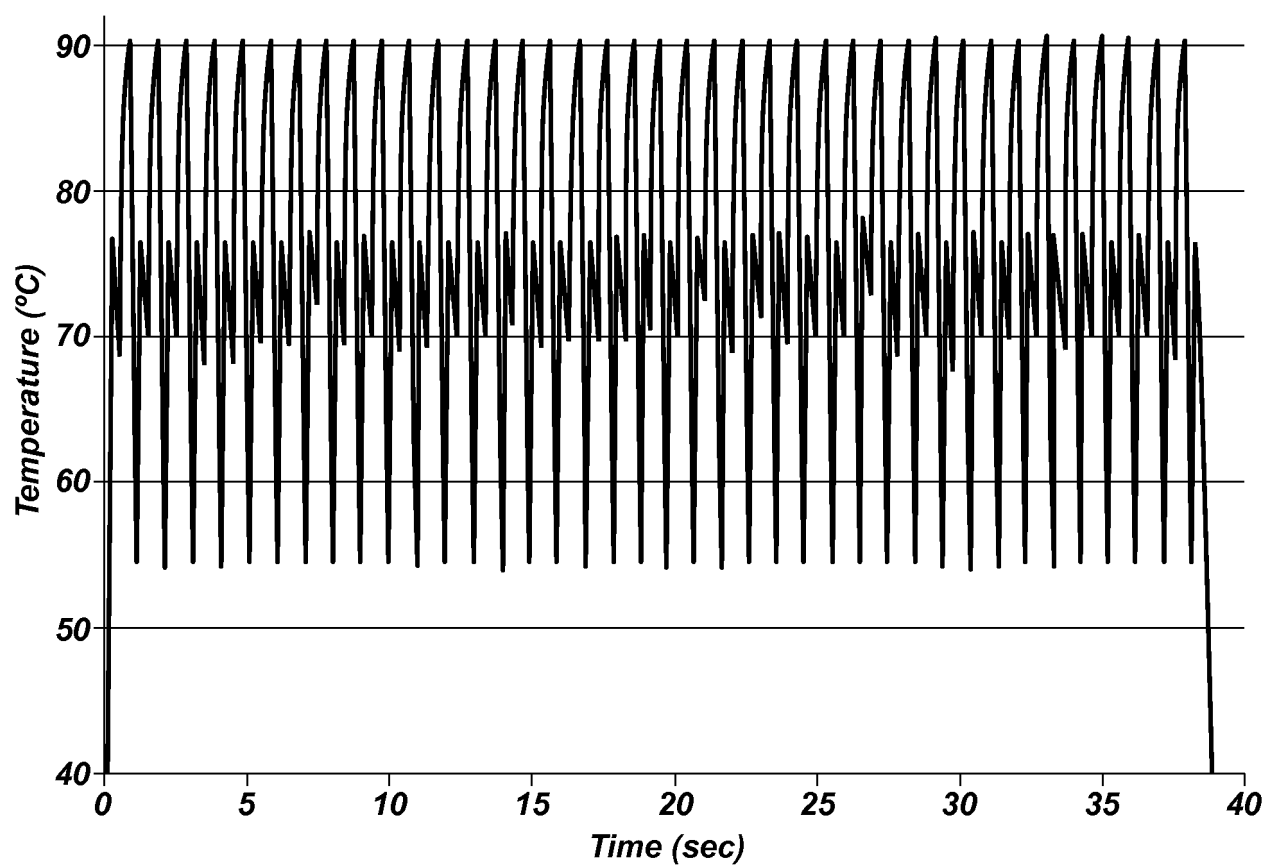
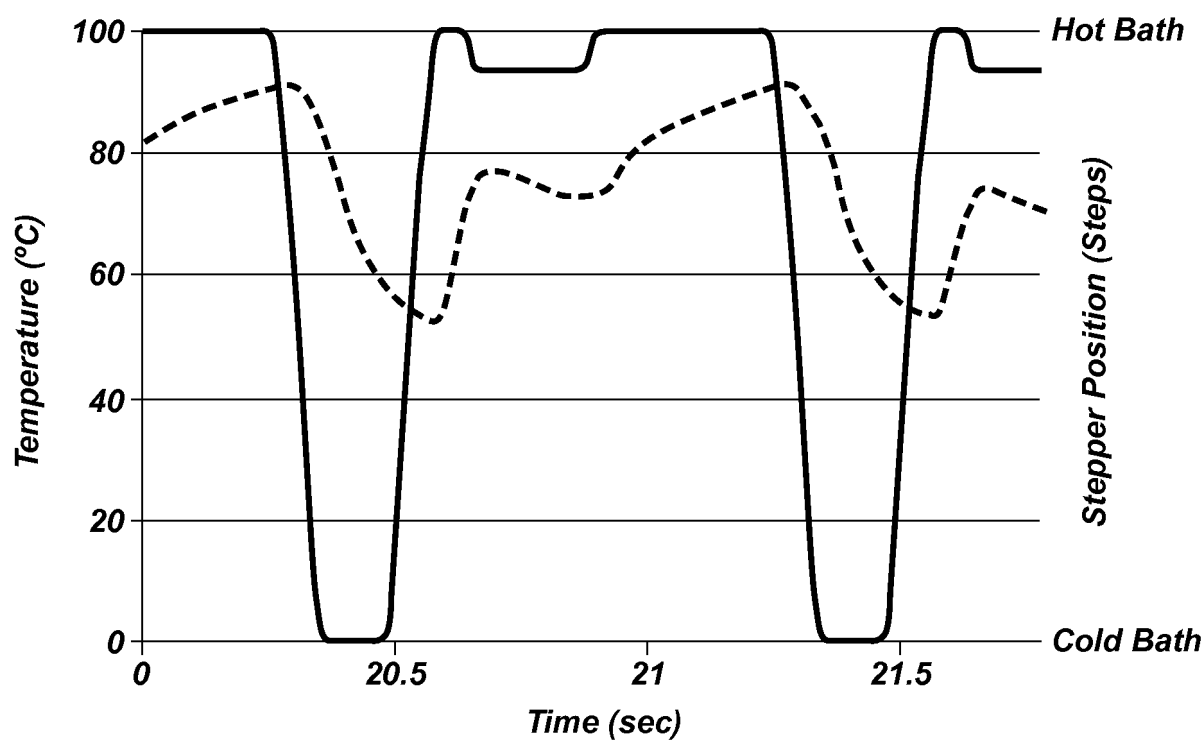
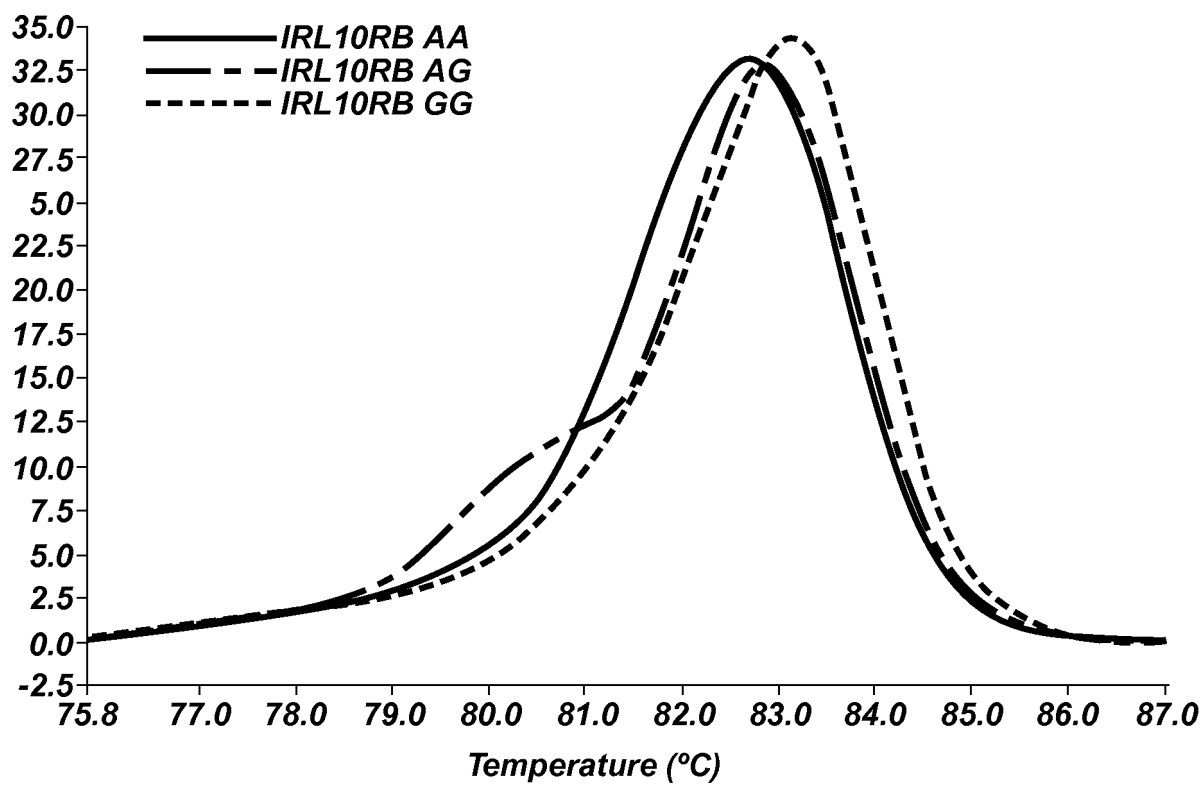


FIG. 3c

**FIG. 4a****FIG. 4b**

**FIG. 4c**

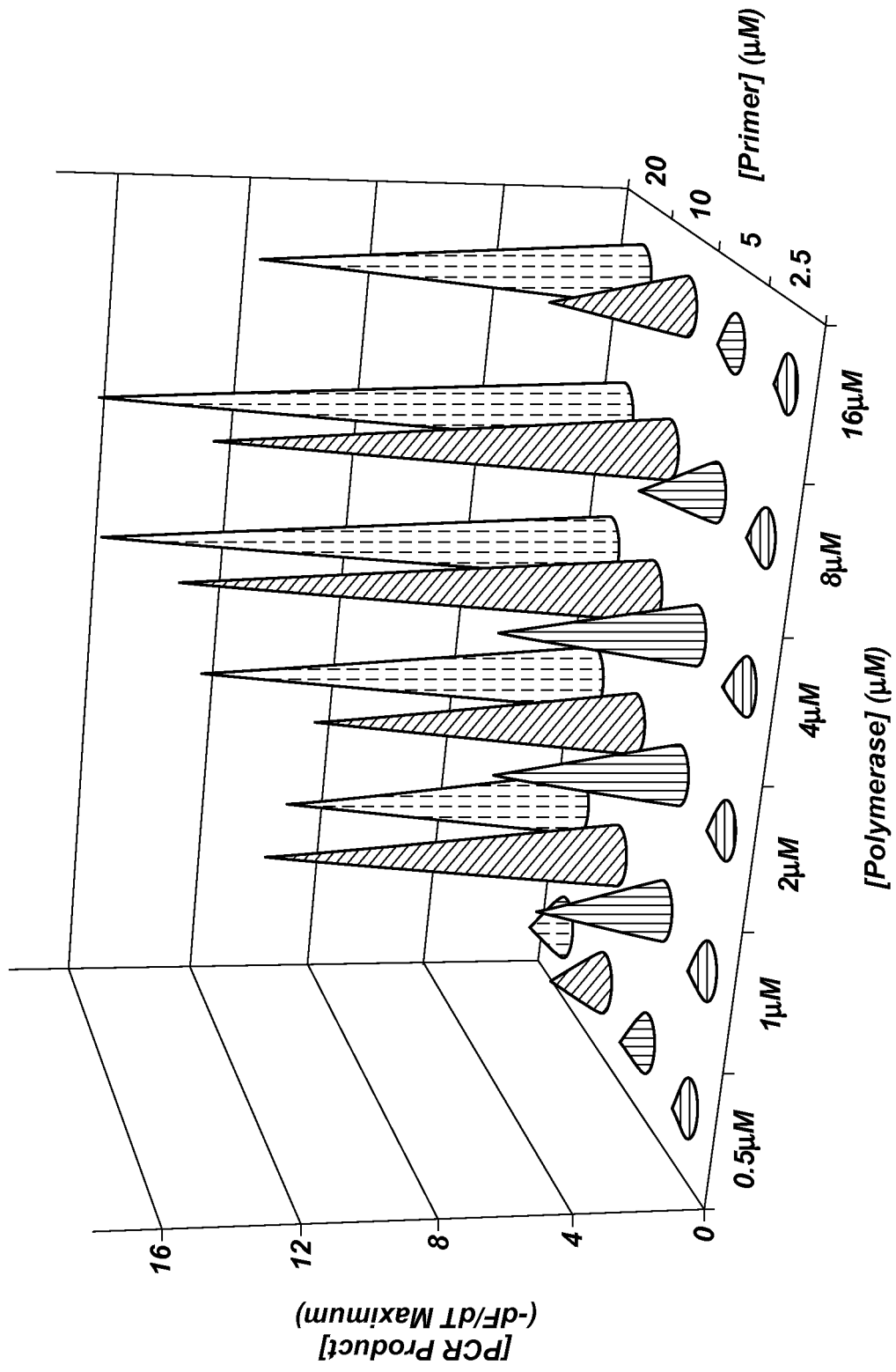


FIG. 5a

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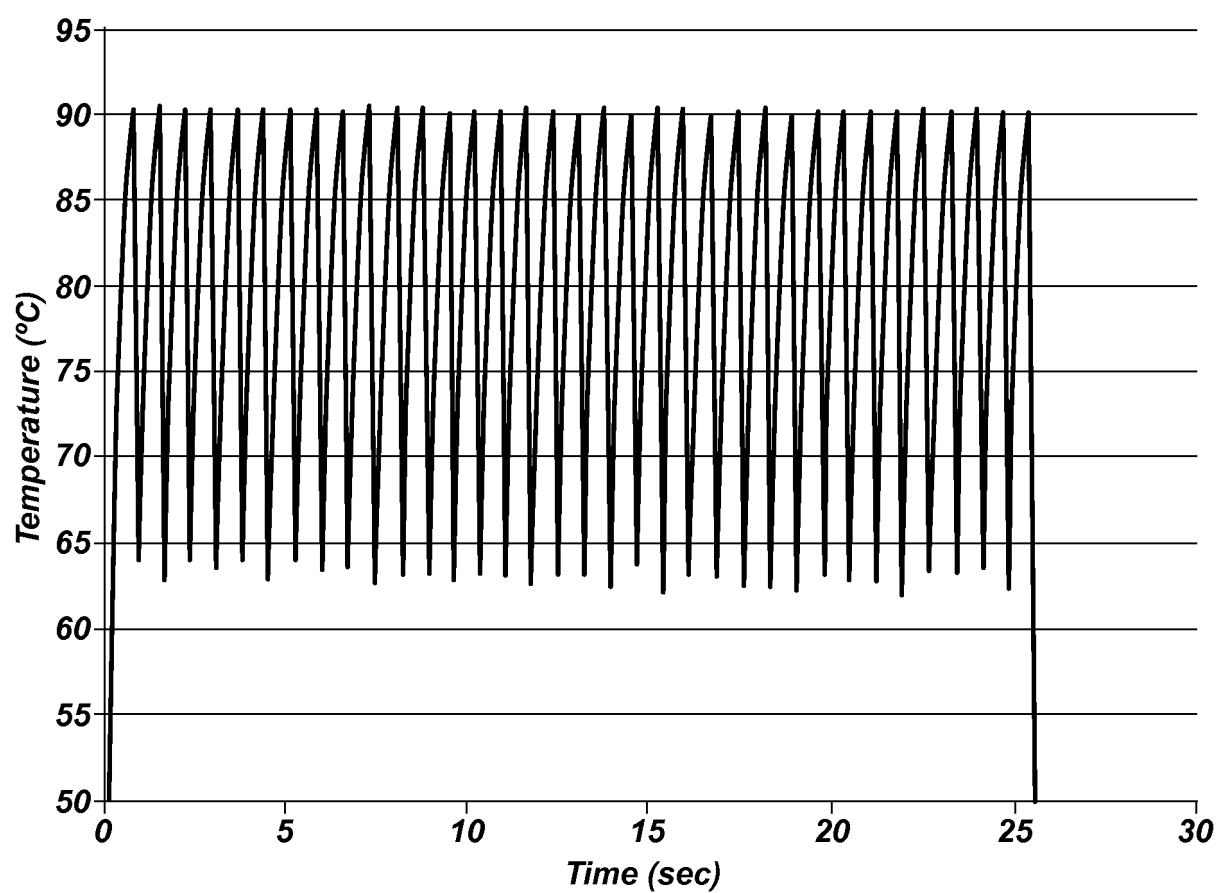


FIG. 5b

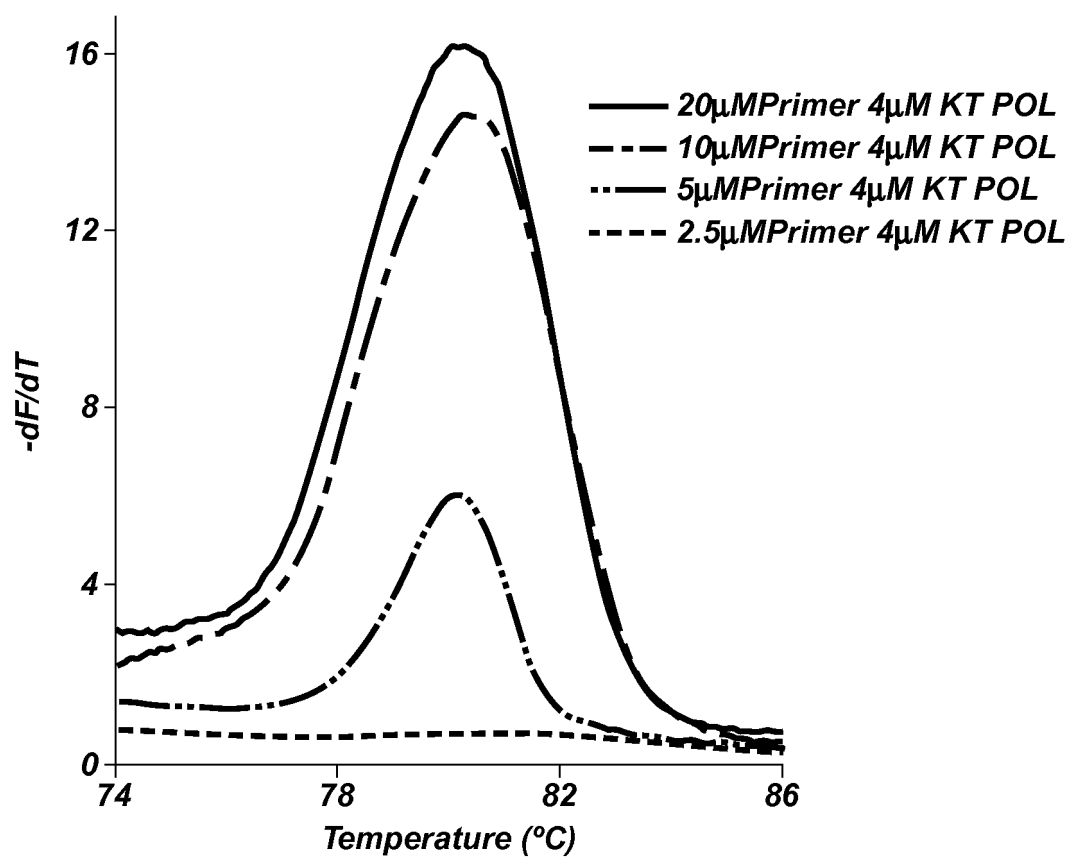


FIG. 5c

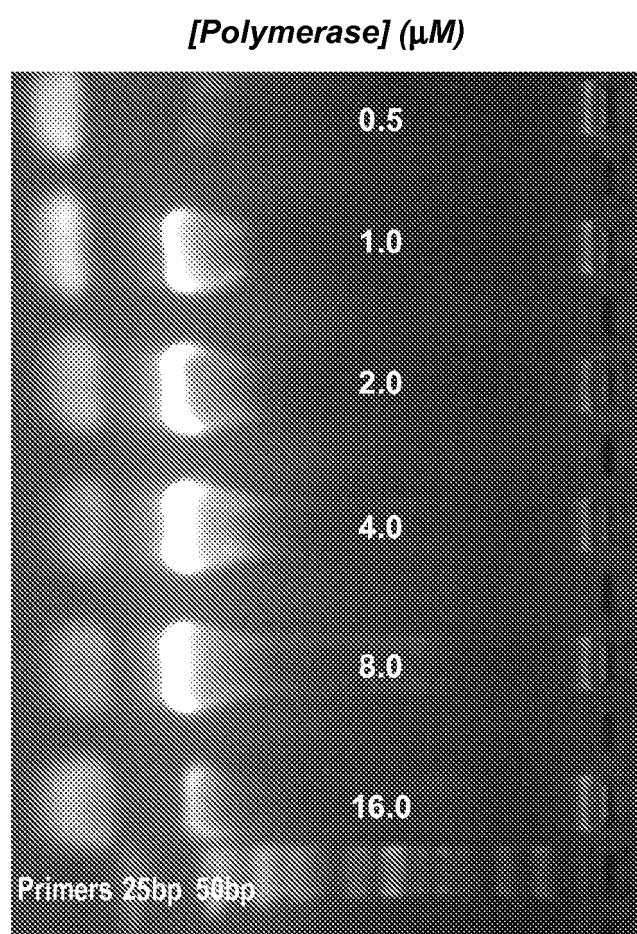


FIG. 5d

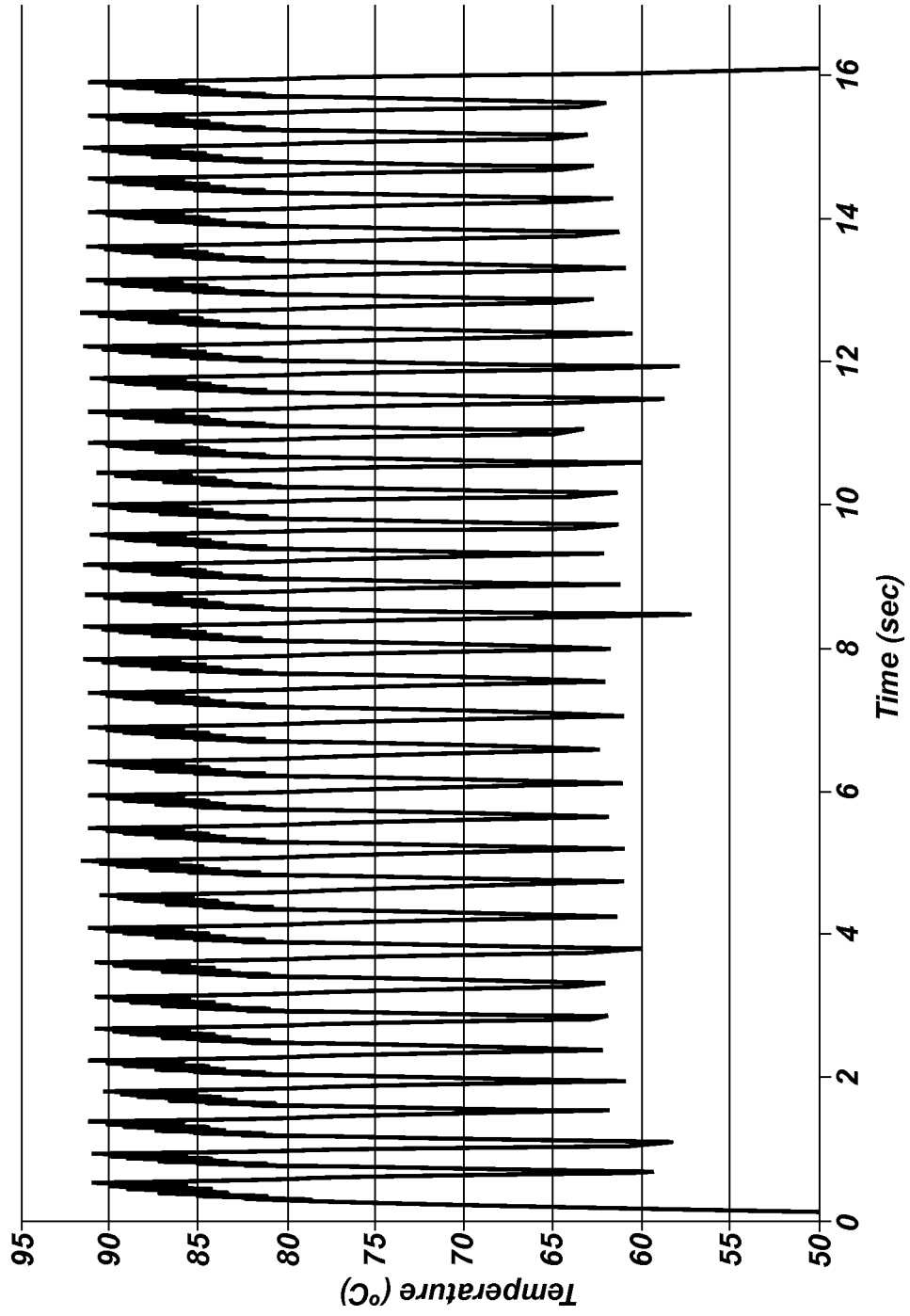


FIG. 6a

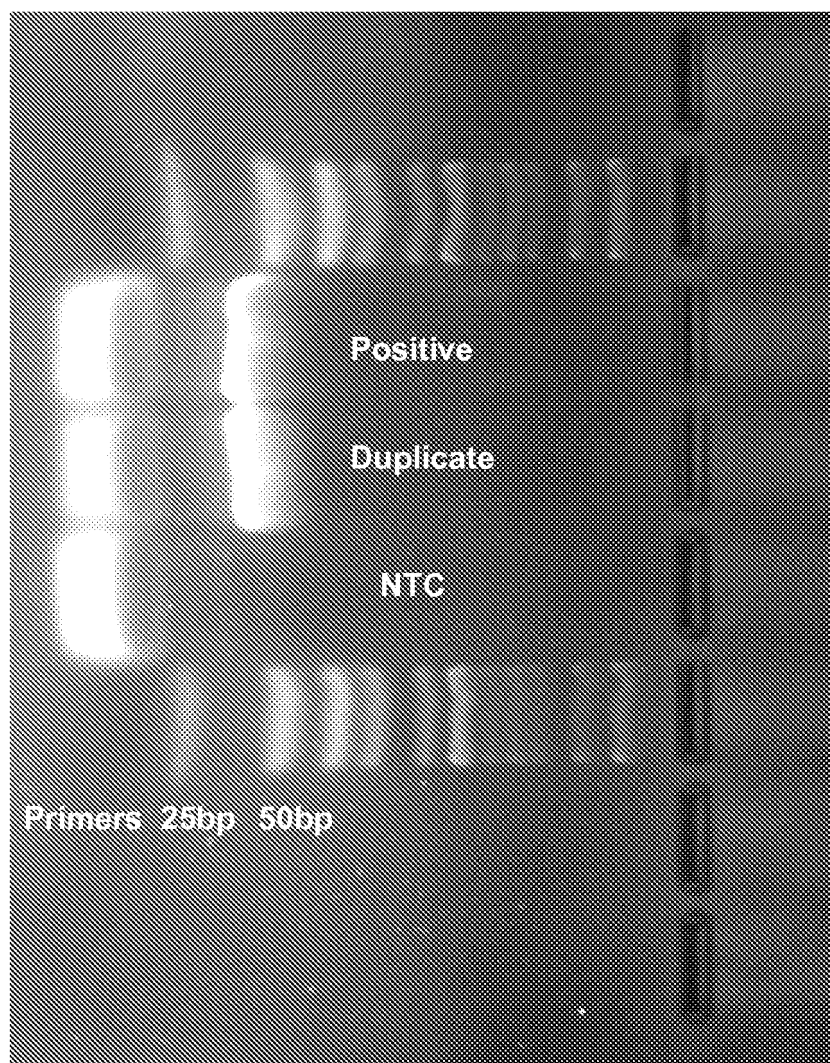
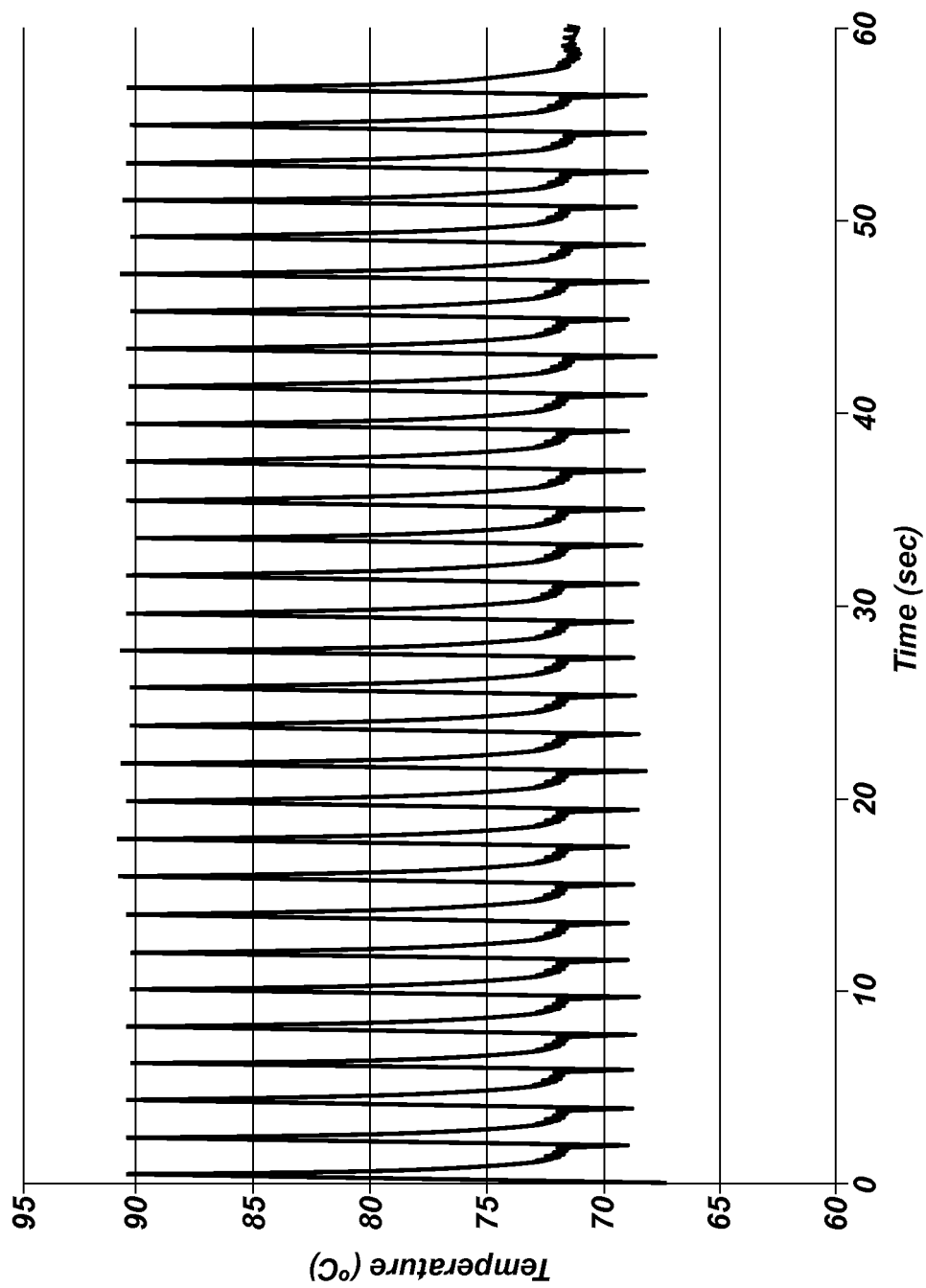


FIG. 6b

**FIG. 7a**

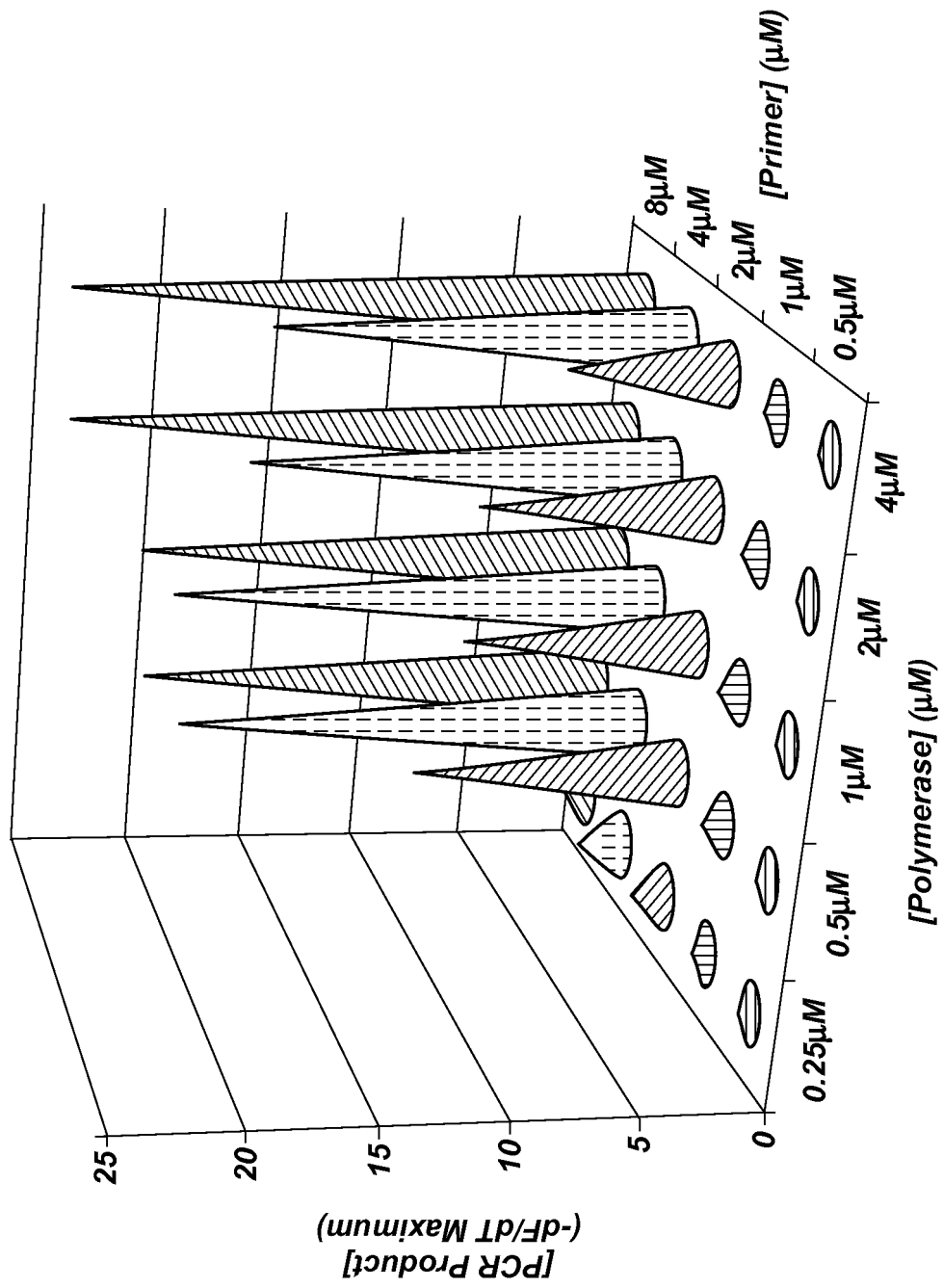
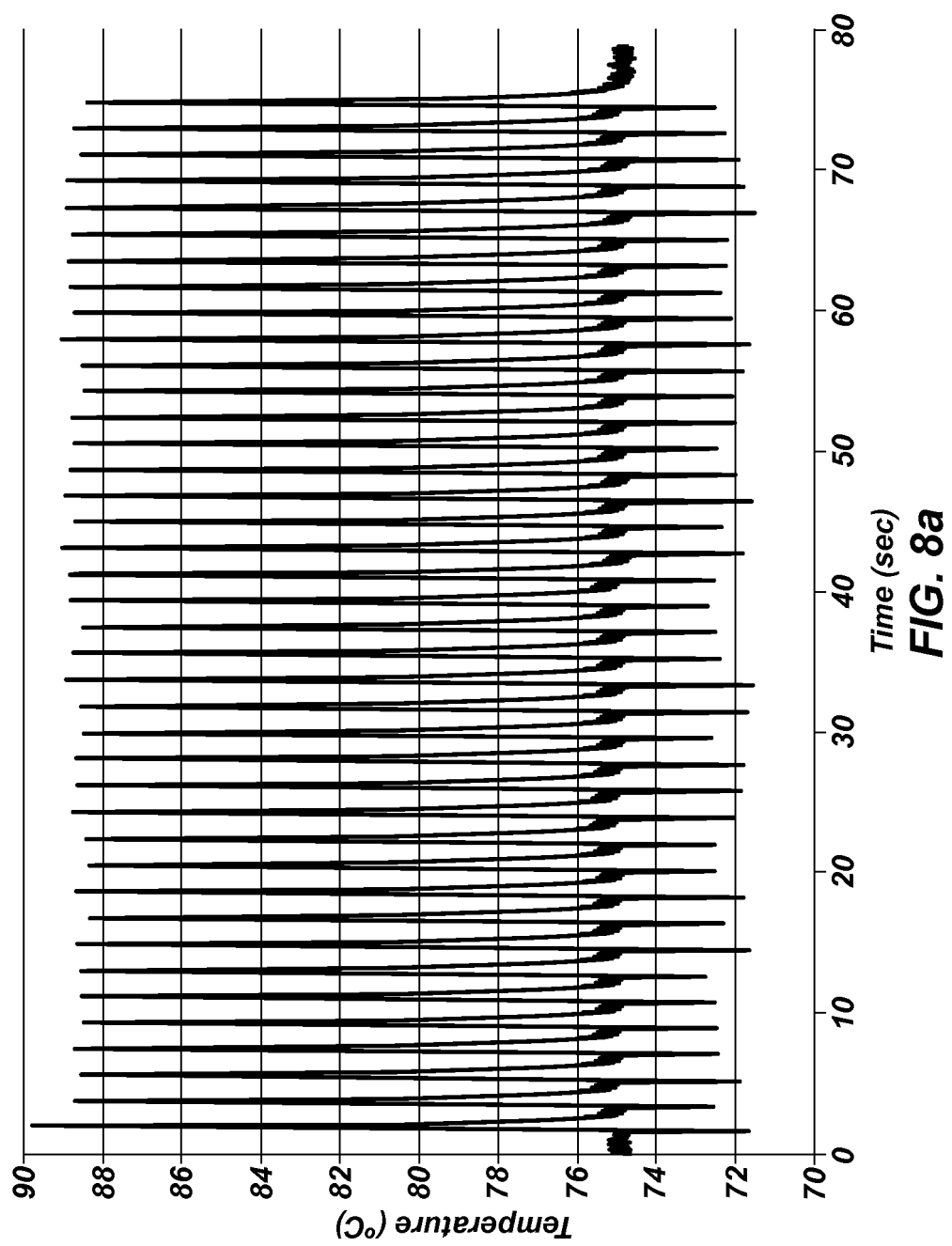
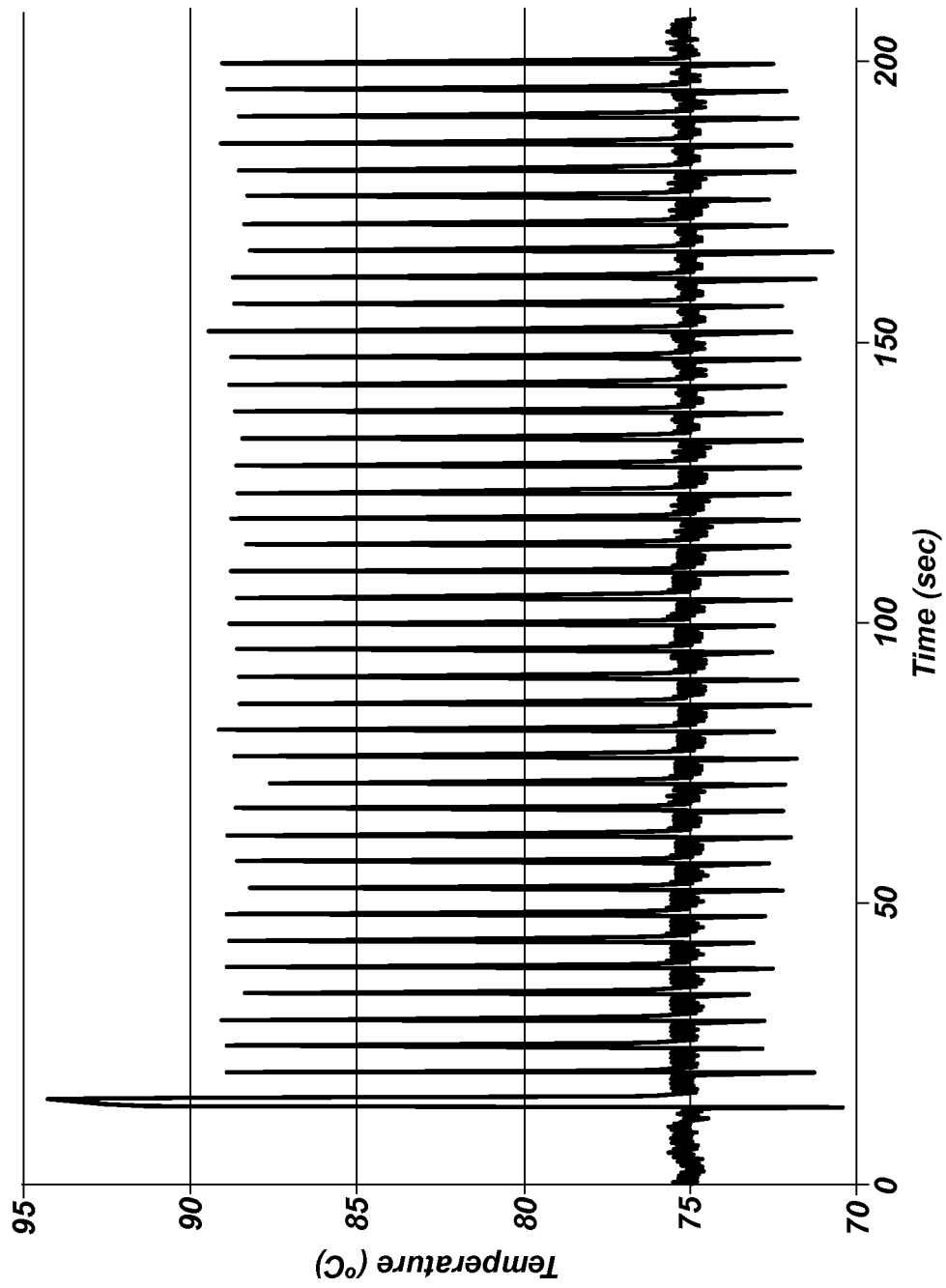


FIG. 7b



**FIG. 8b**

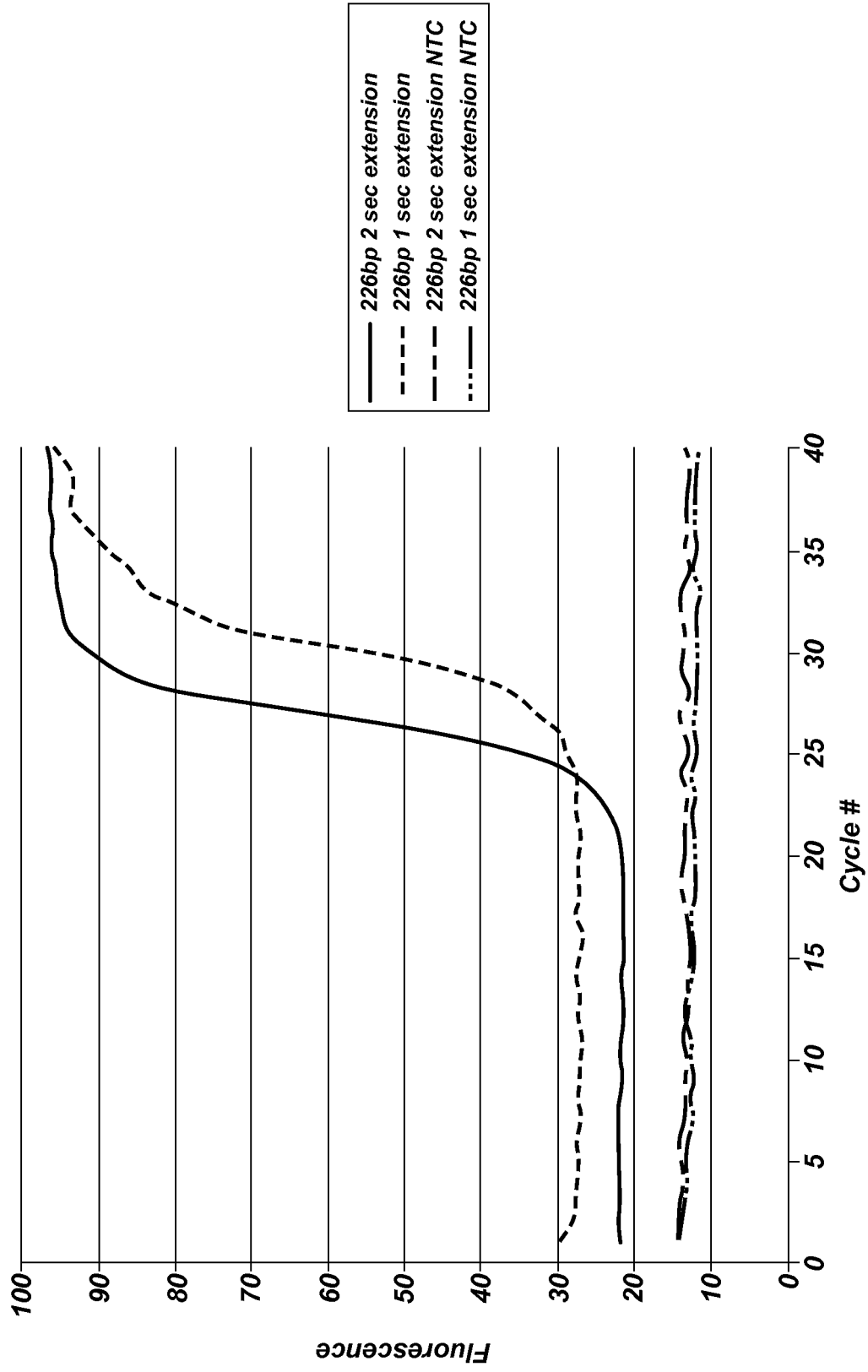


FIG. 8c

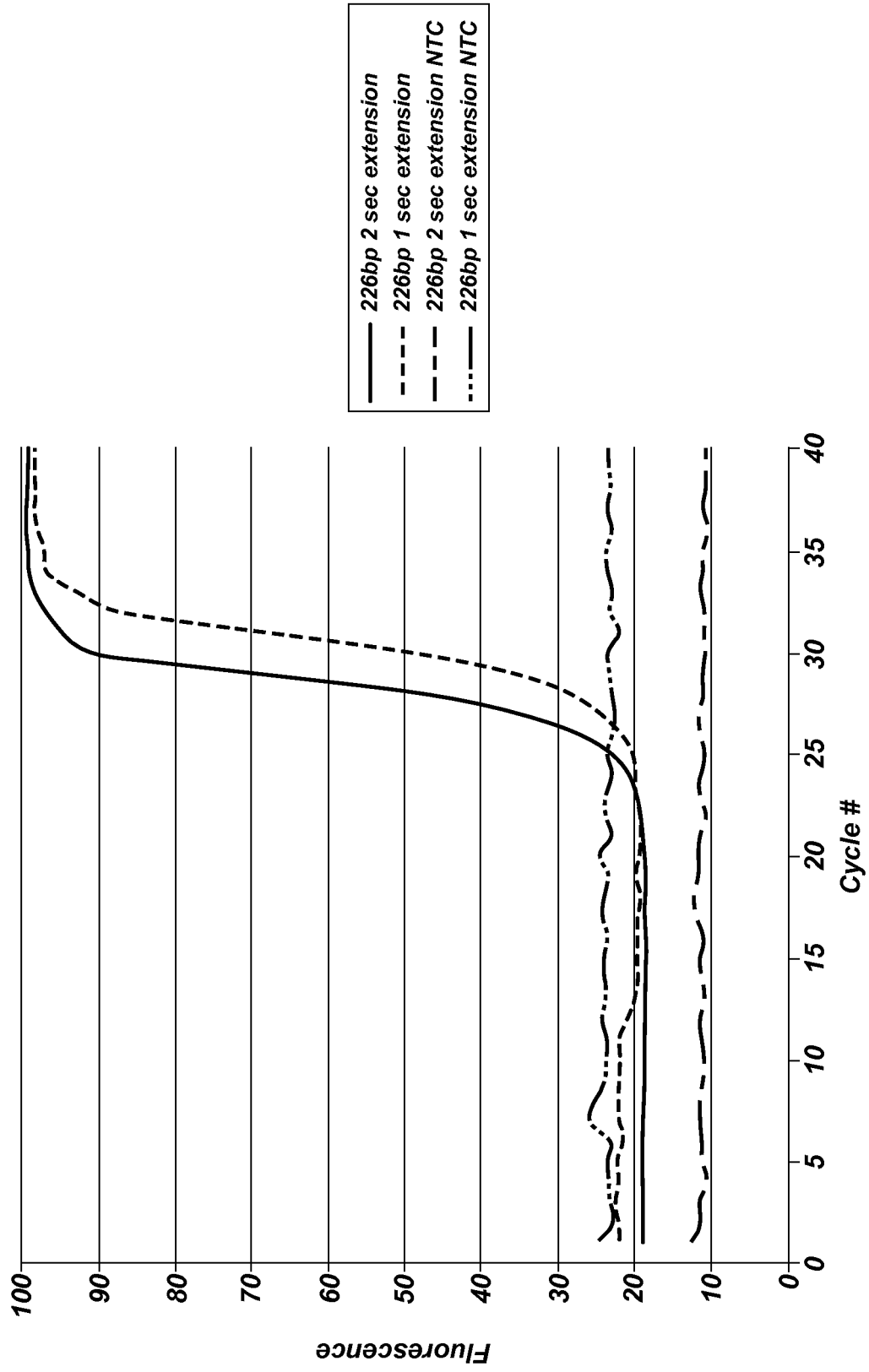
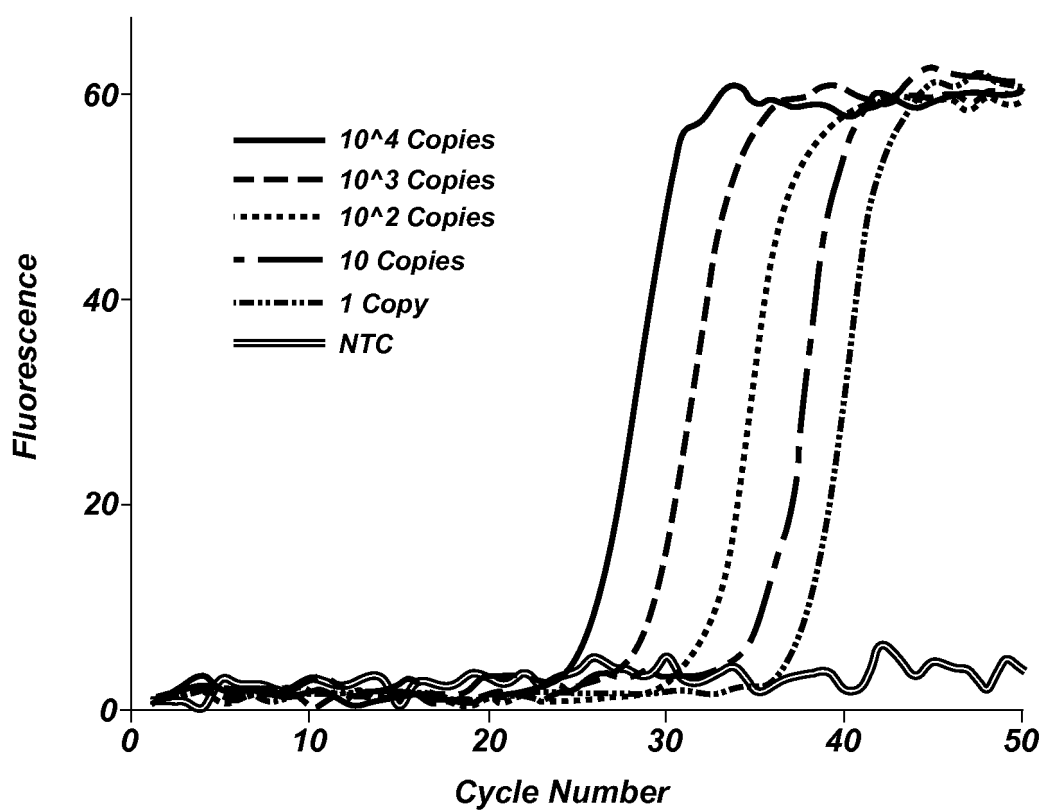
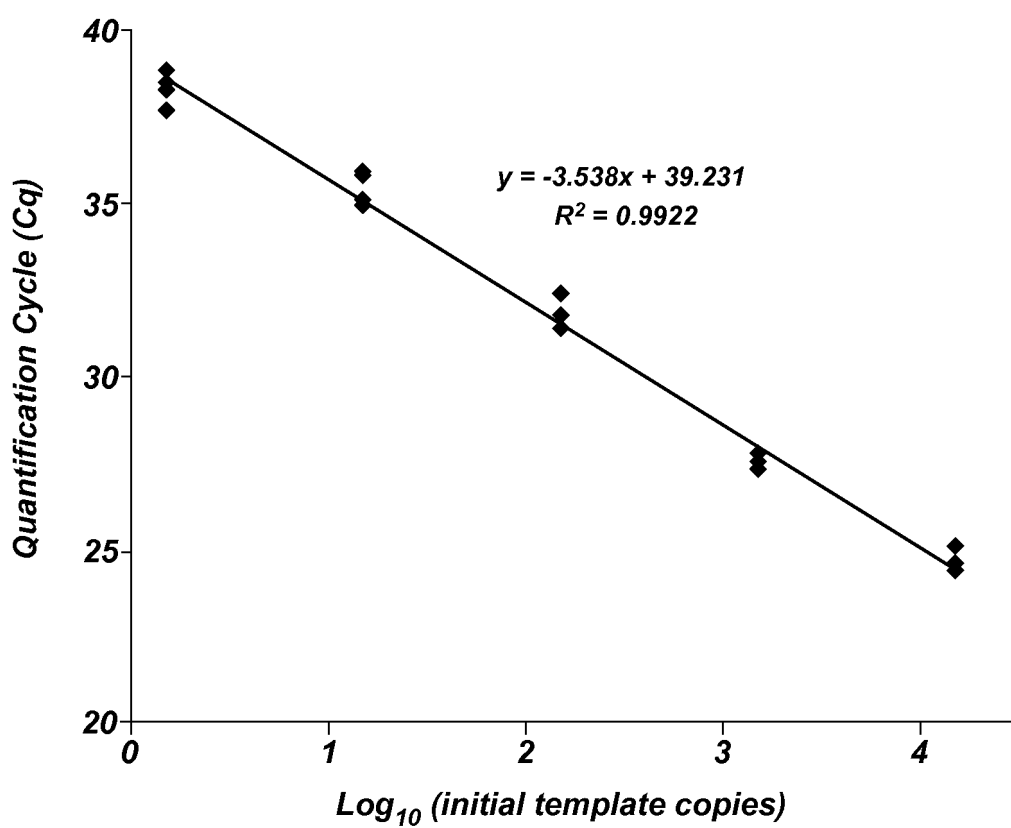


FIG. 8d

**FIG. 9a****FIG. 9b**

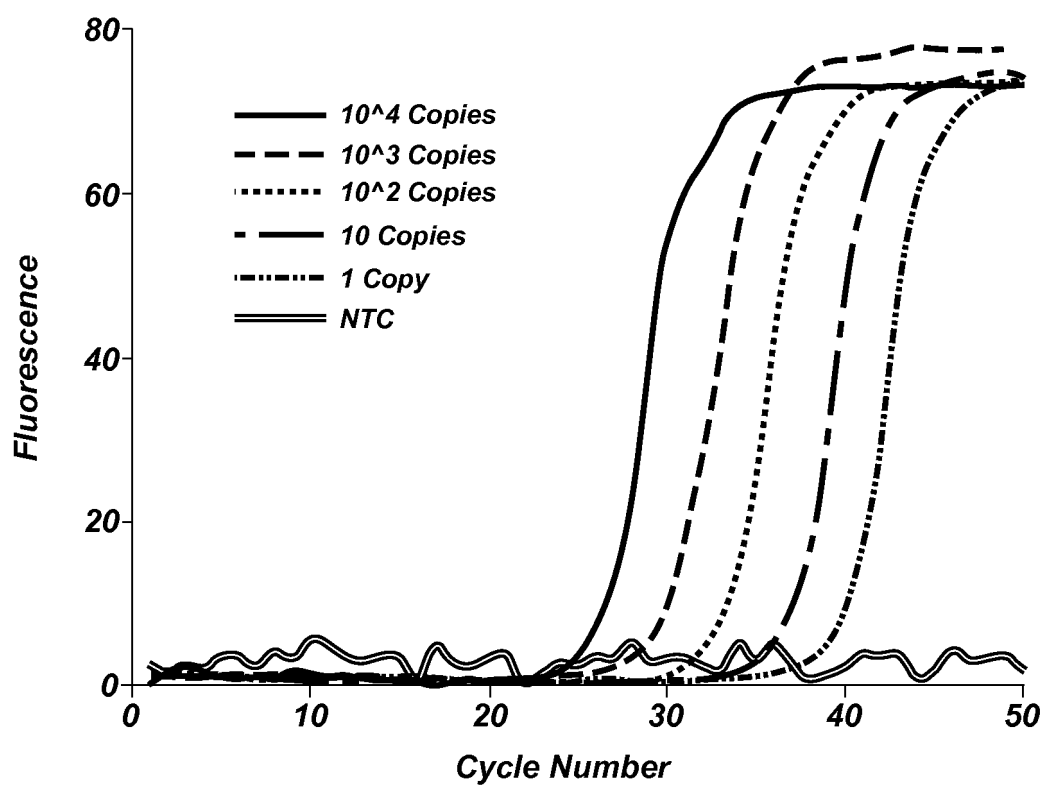


FIG. 9c

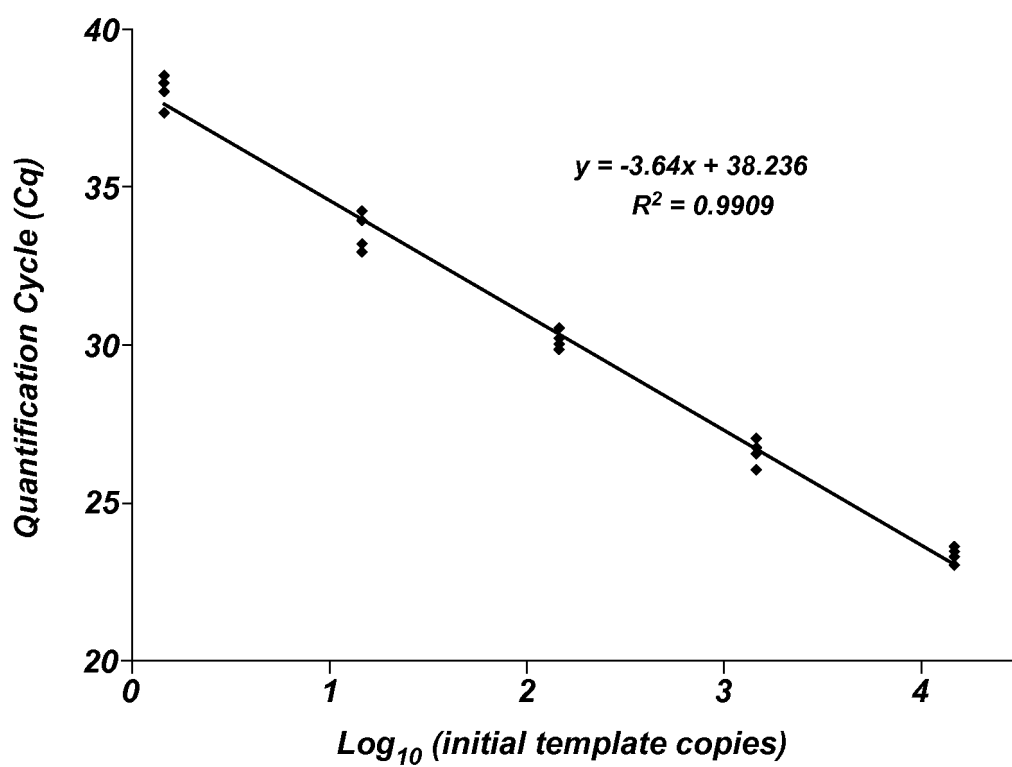


FIG. 9d

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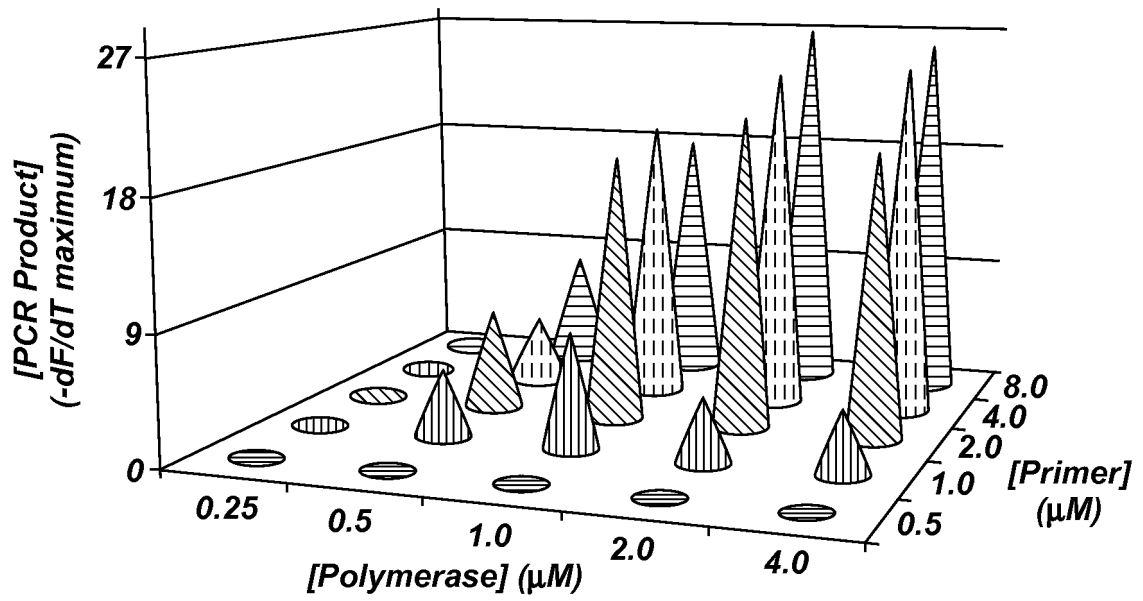


FIG. 10a

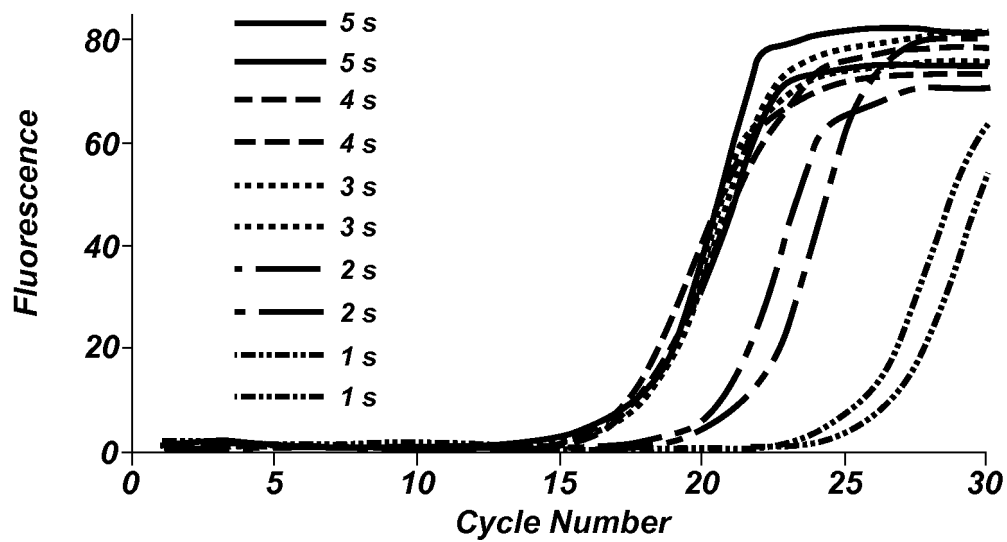


FIG. 10b

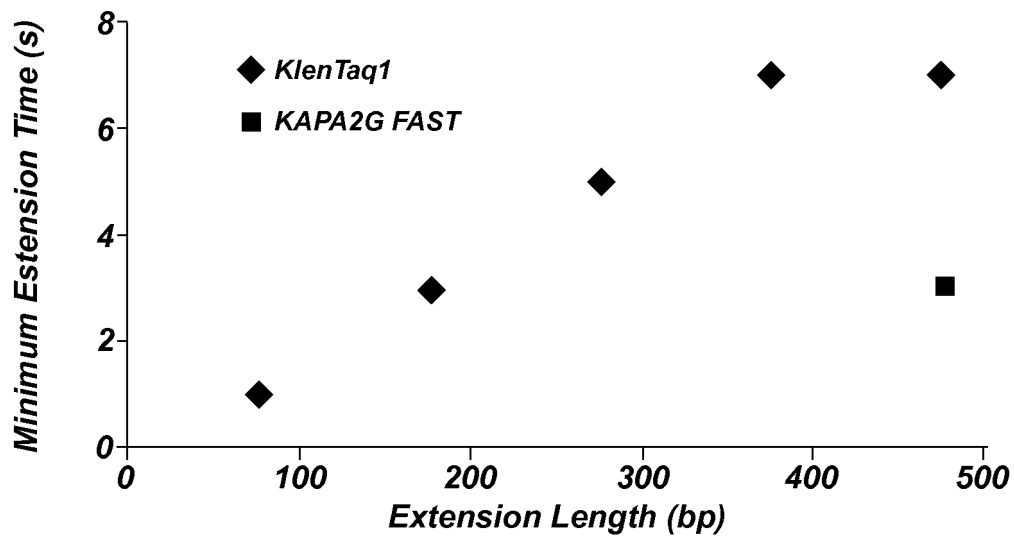


FIG. 10c

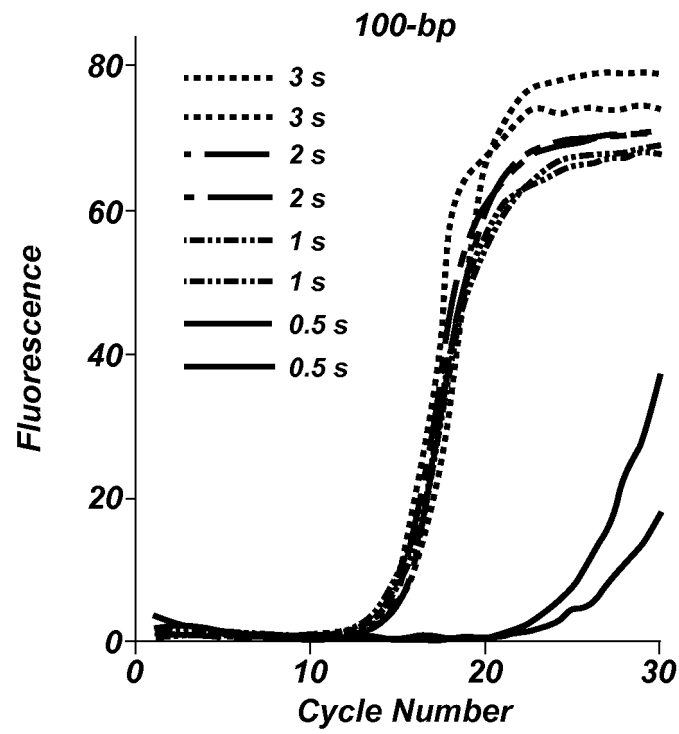


FIG. 11a

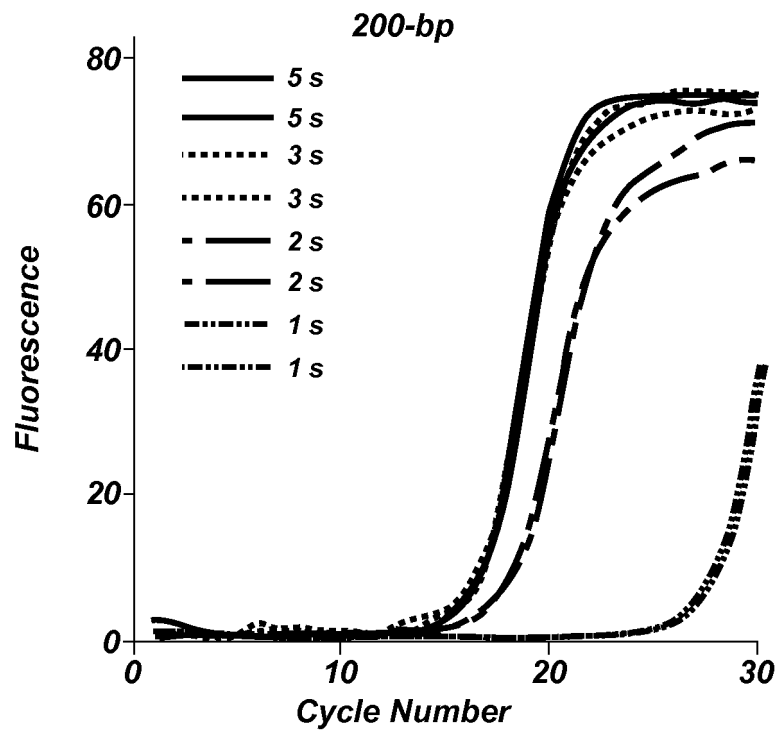
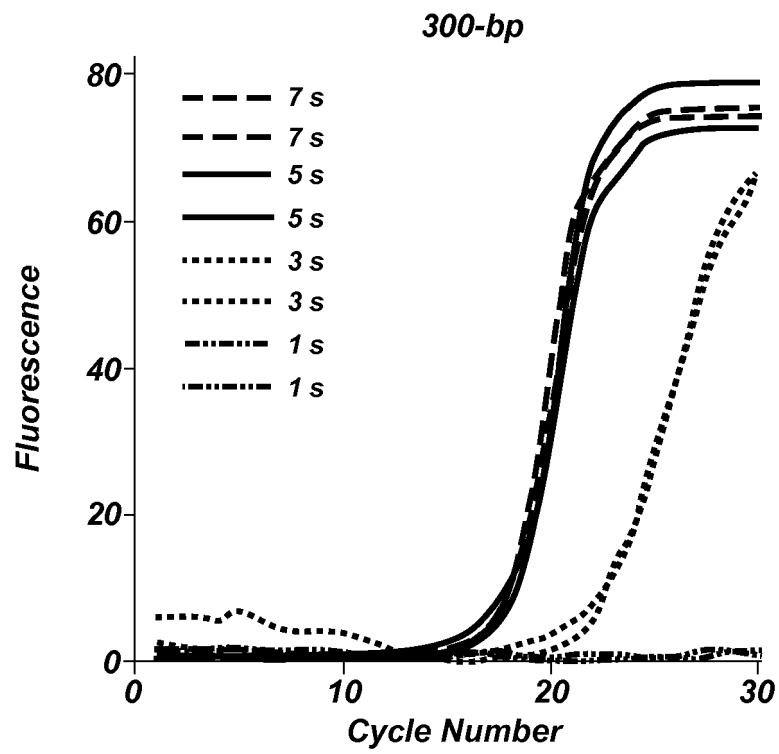
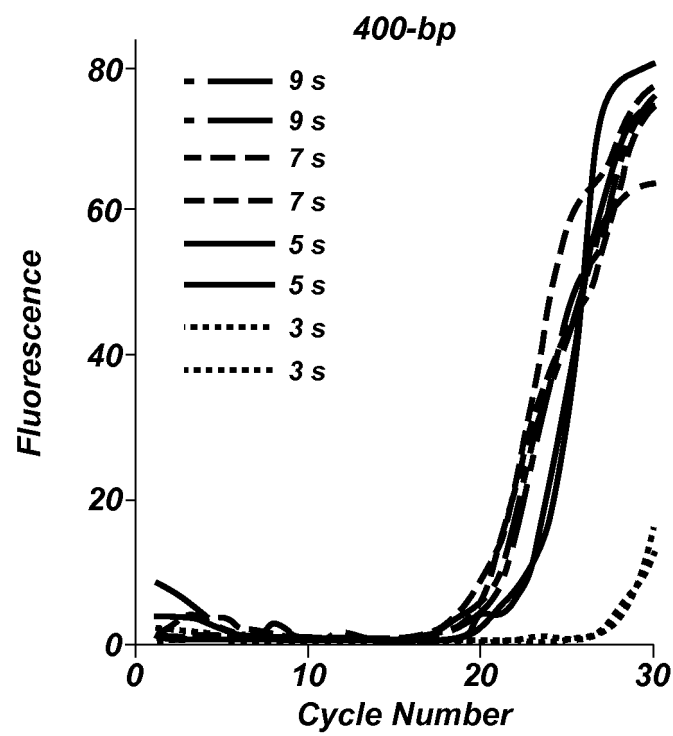


FIG. 11b

**FIG. 11c****FIG. 11d**

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500-bp

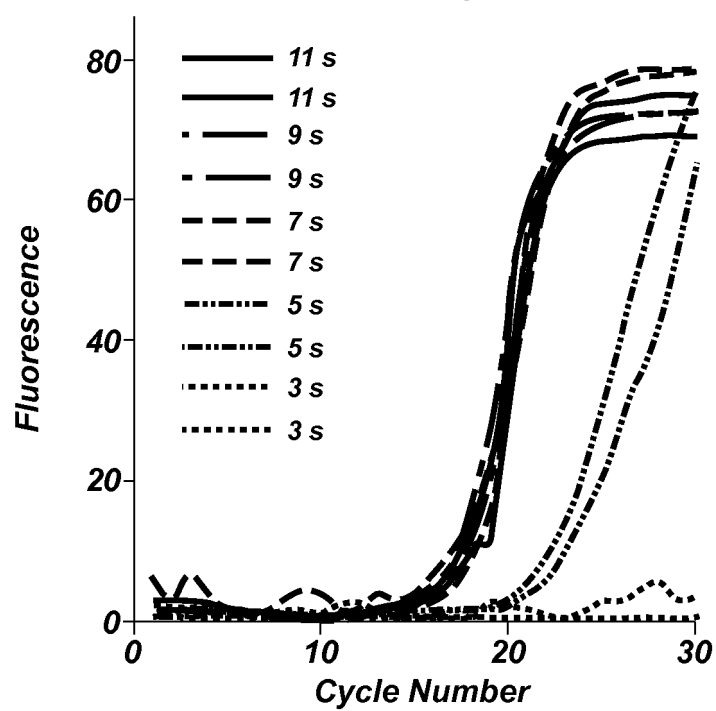


FIG. 11e

Mg++ Optimization for 0.42 s/cycle PCR

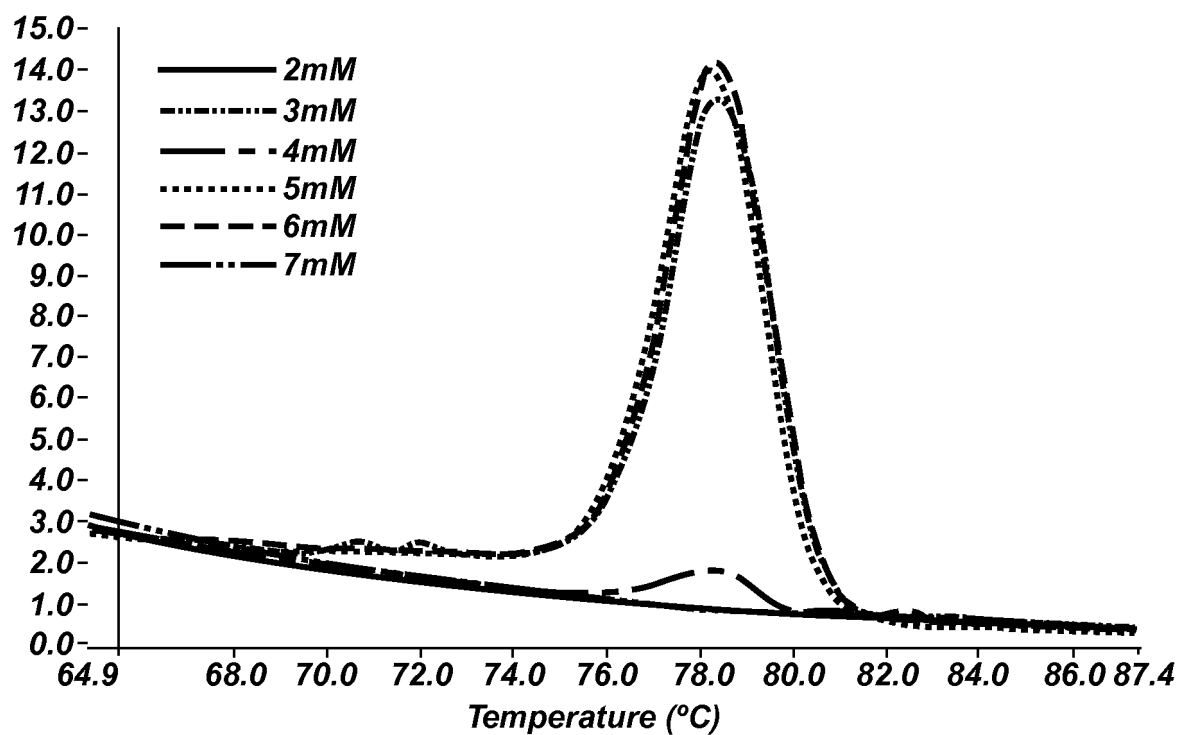


FIG. 12a

Mg++ Optimization for 0.42 s/cycle PCR Gel

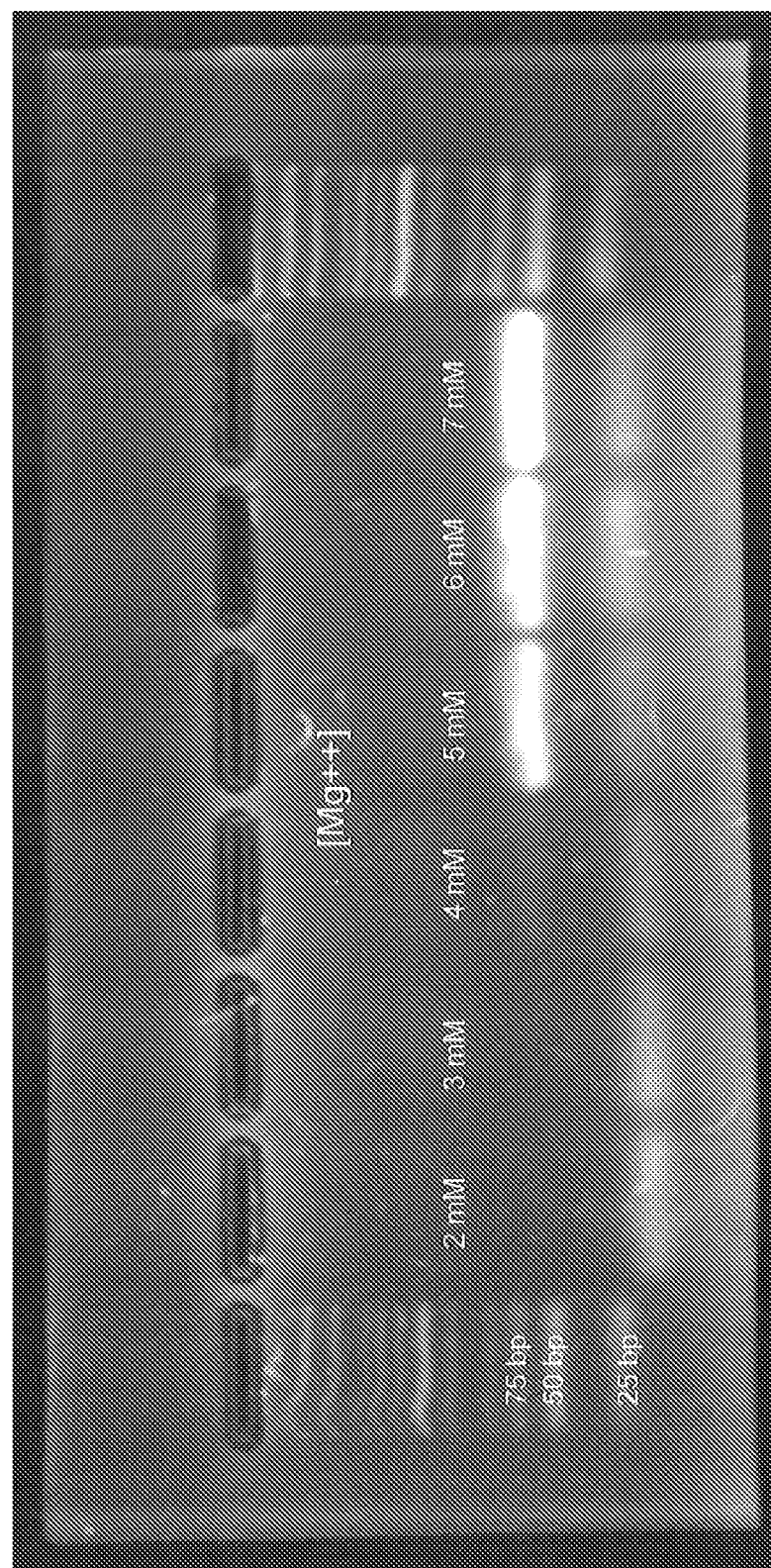


FIG. 12b

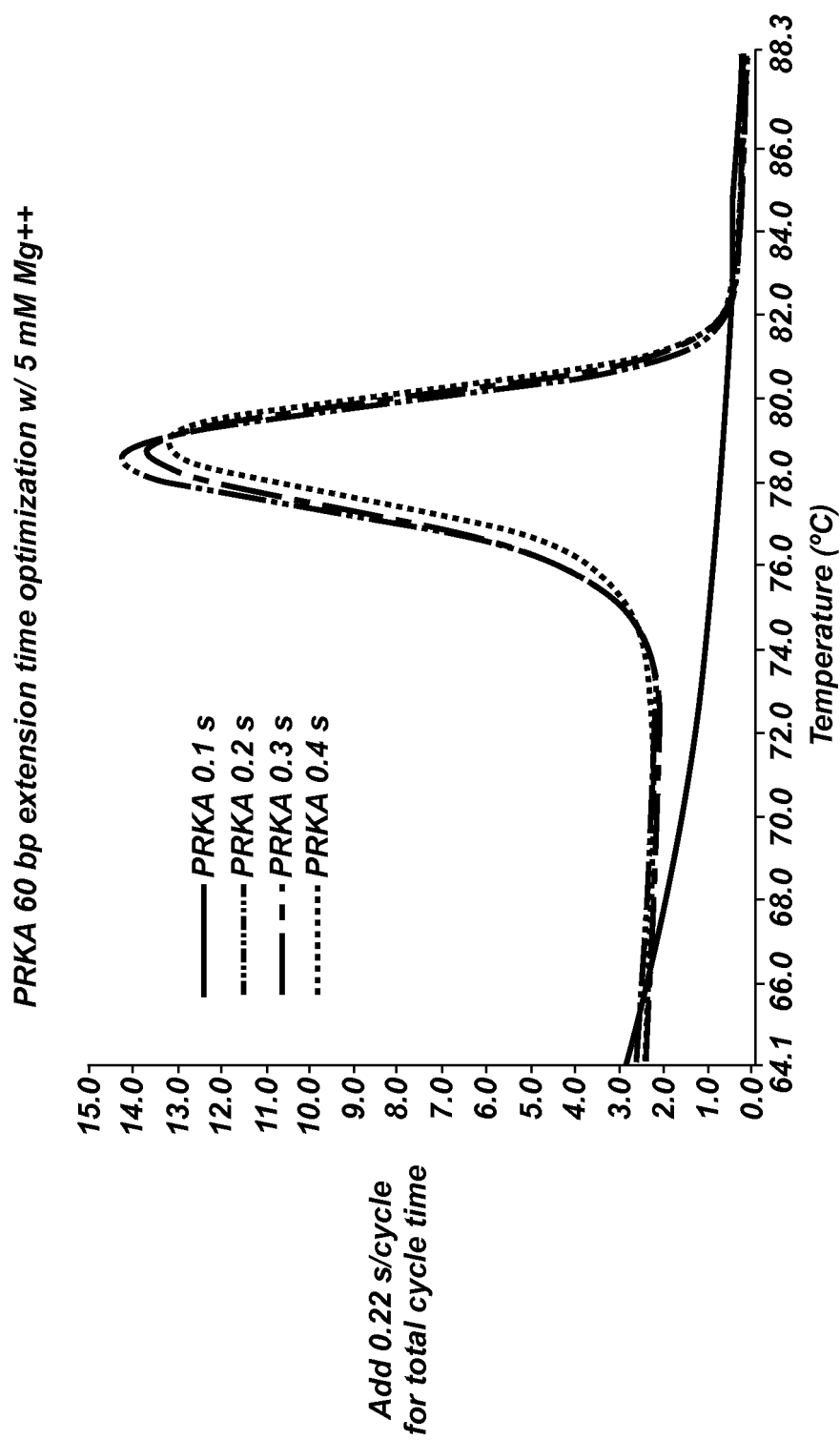


FIG. 13a

Extension Time Optimization w/ 5 mM Mg⁺⁺ Gel

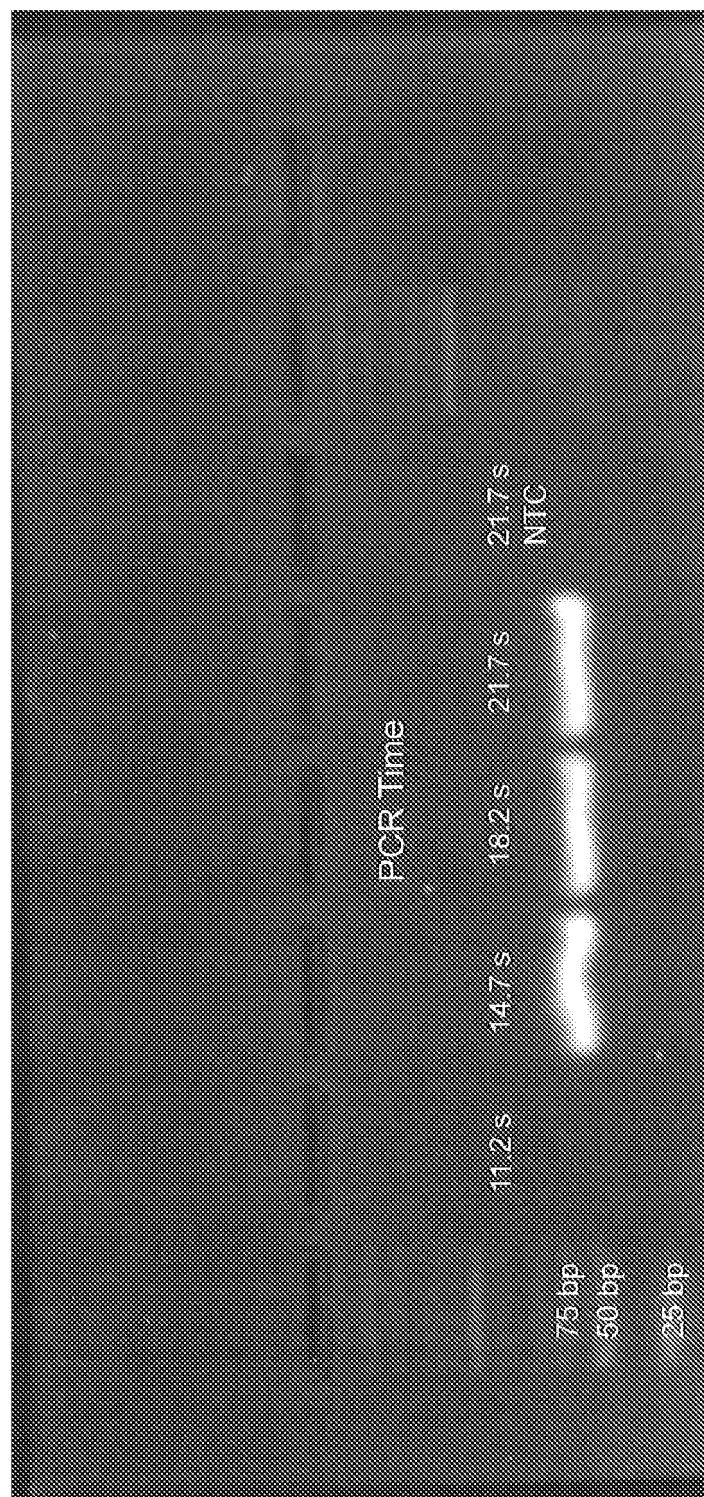


FIG. 13b

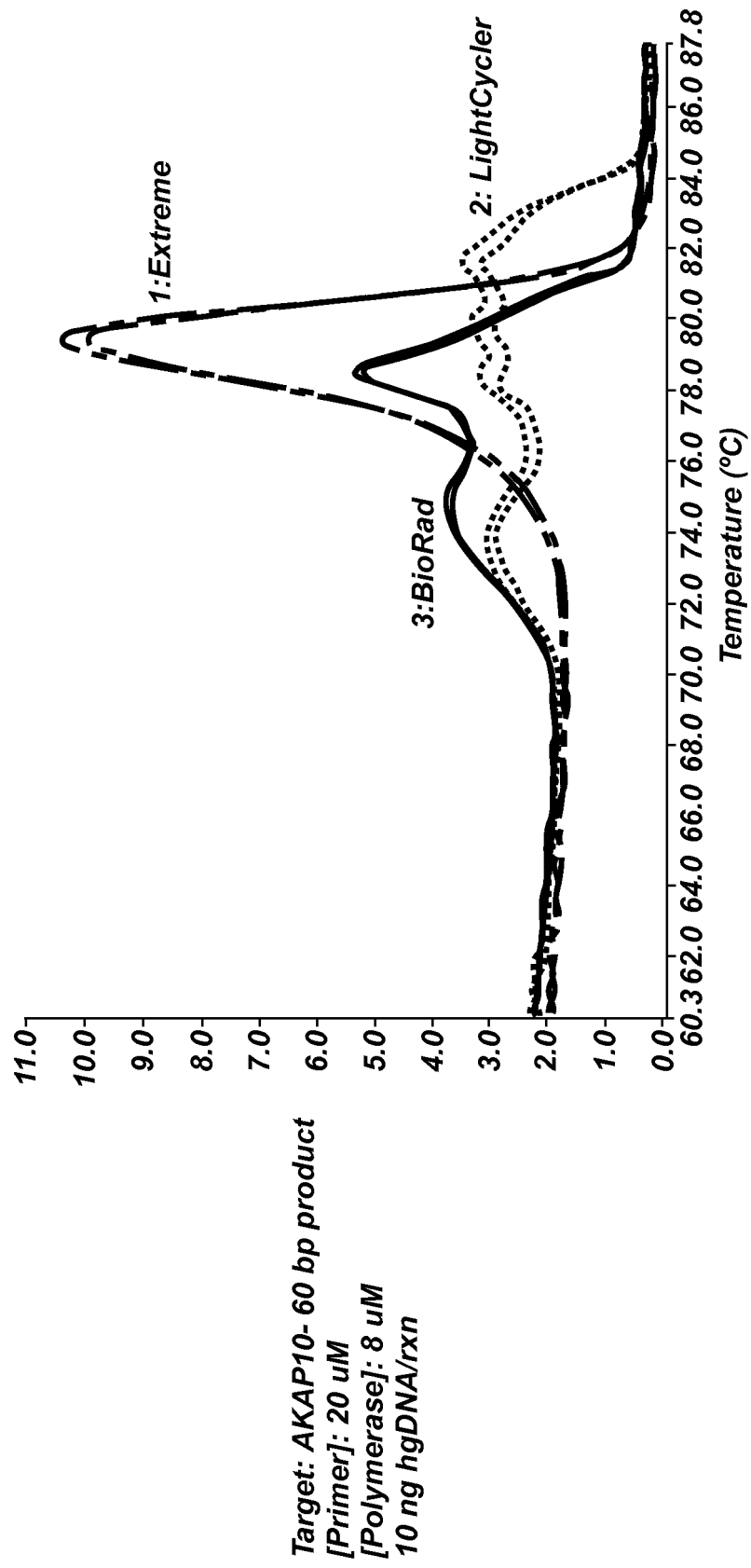


FIG. 14a

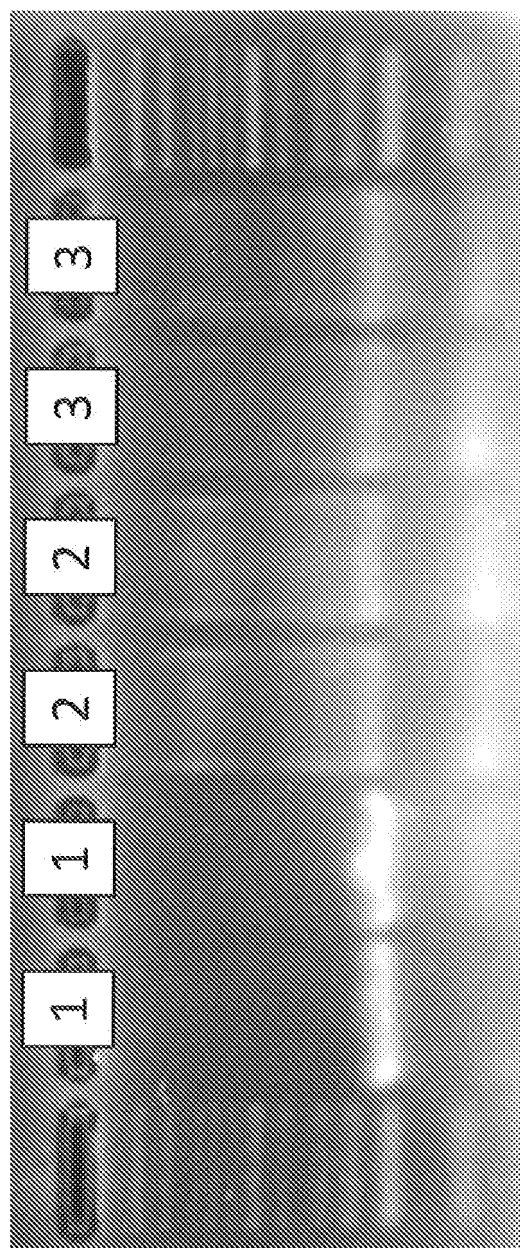


FIG. 14b

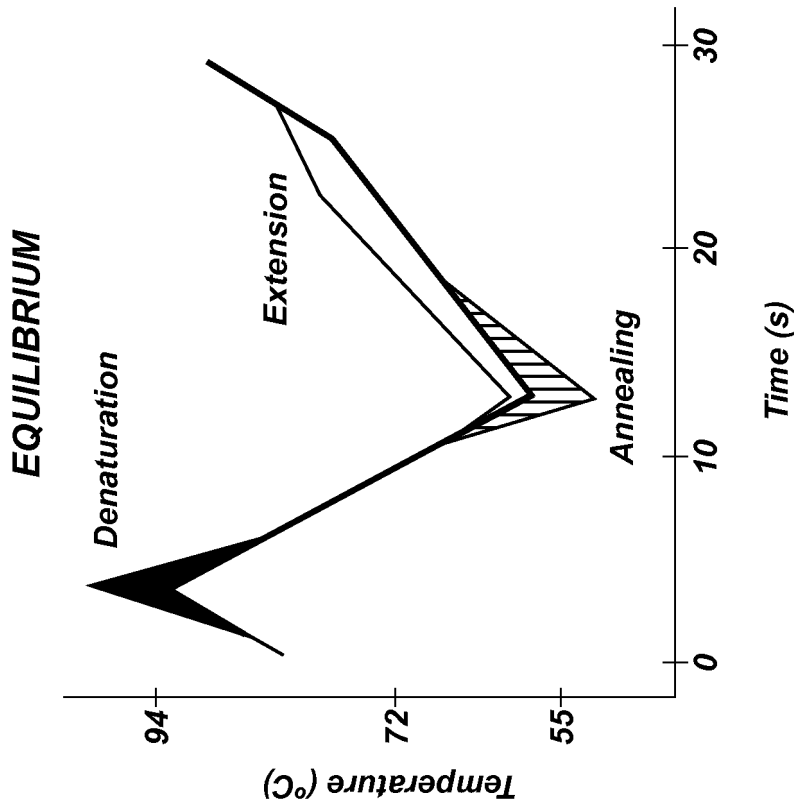


FIG. 15b

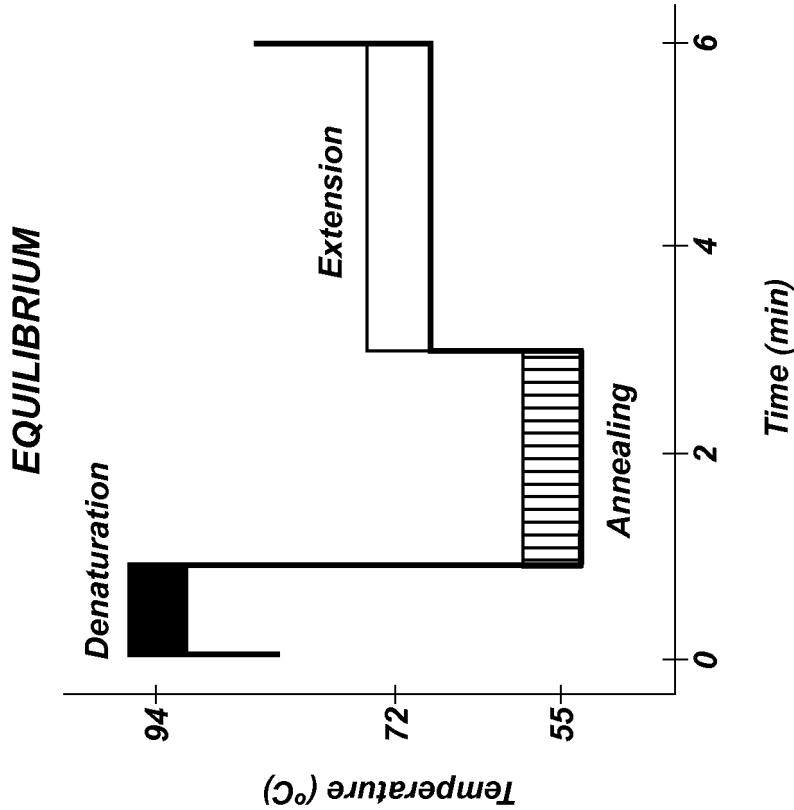


FIG. 15a