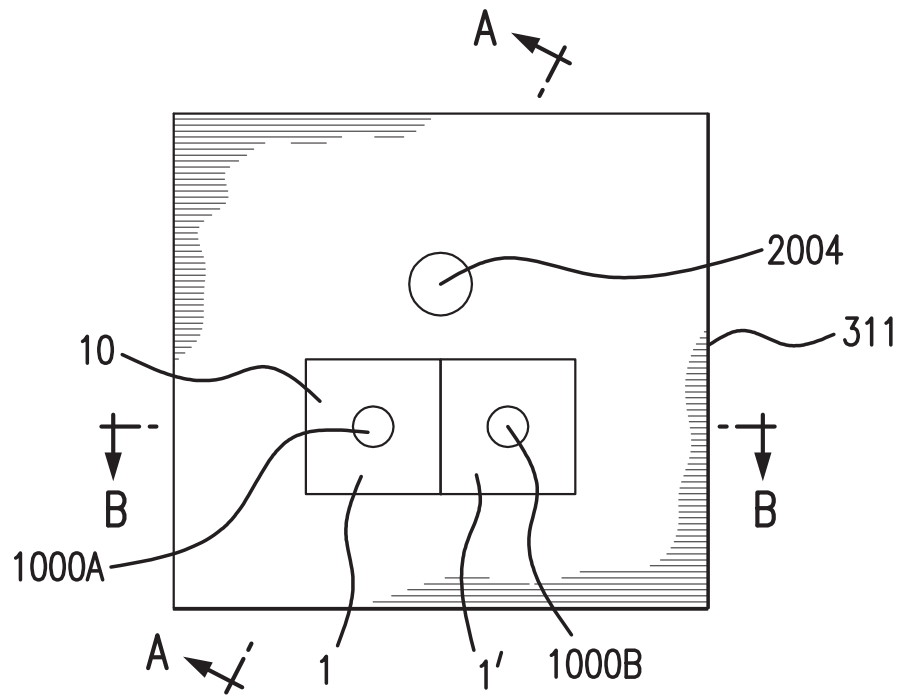
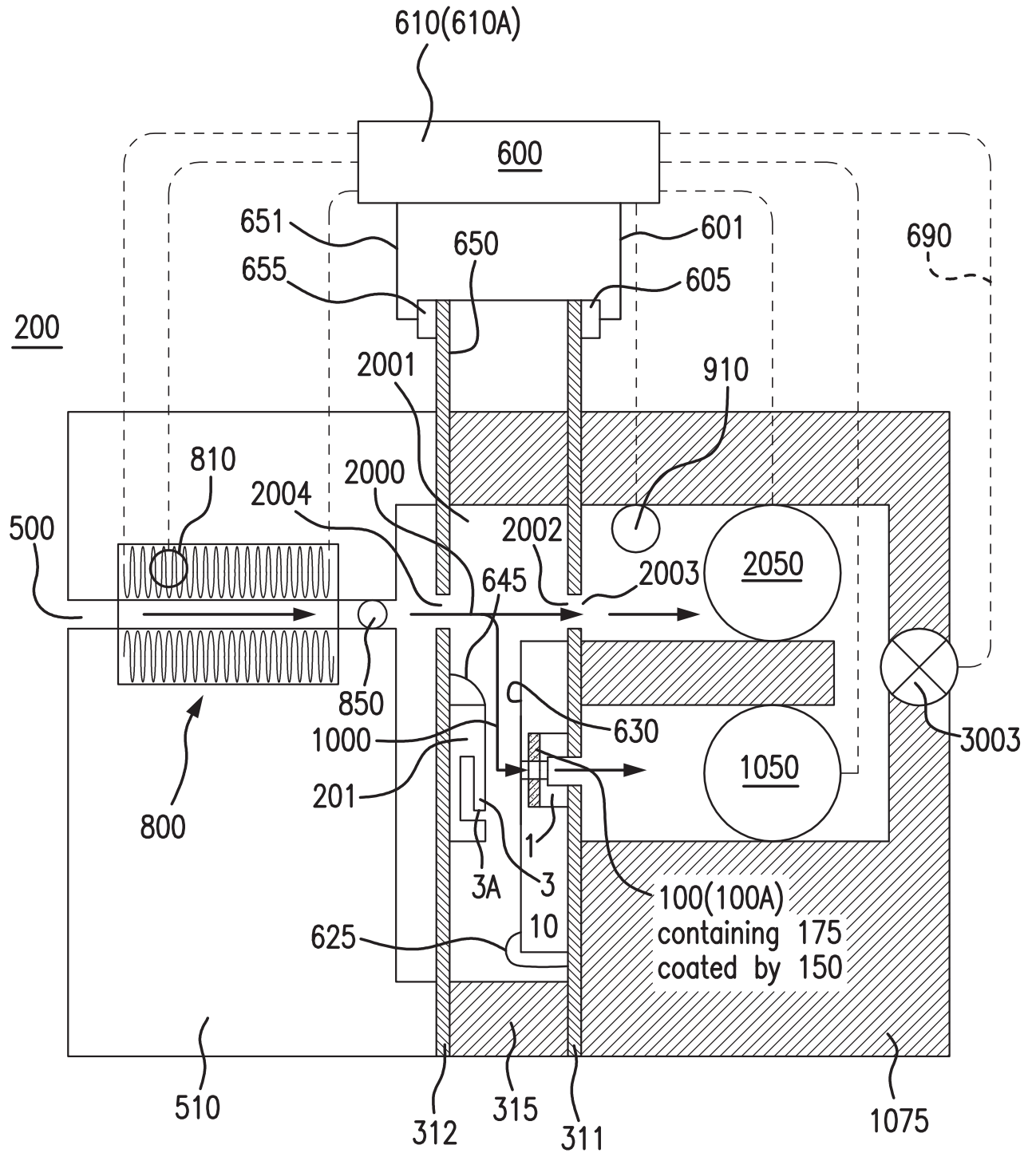
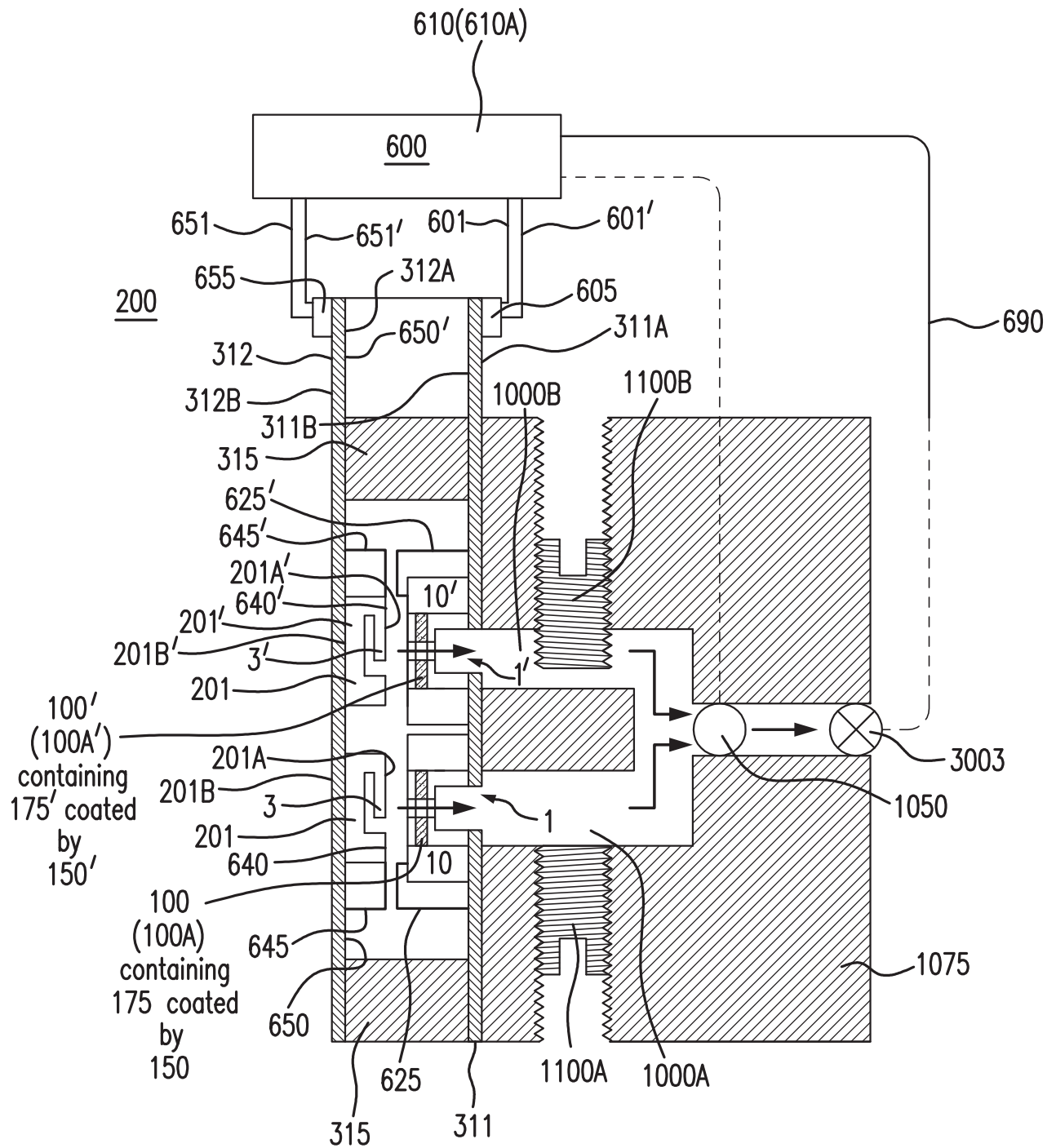
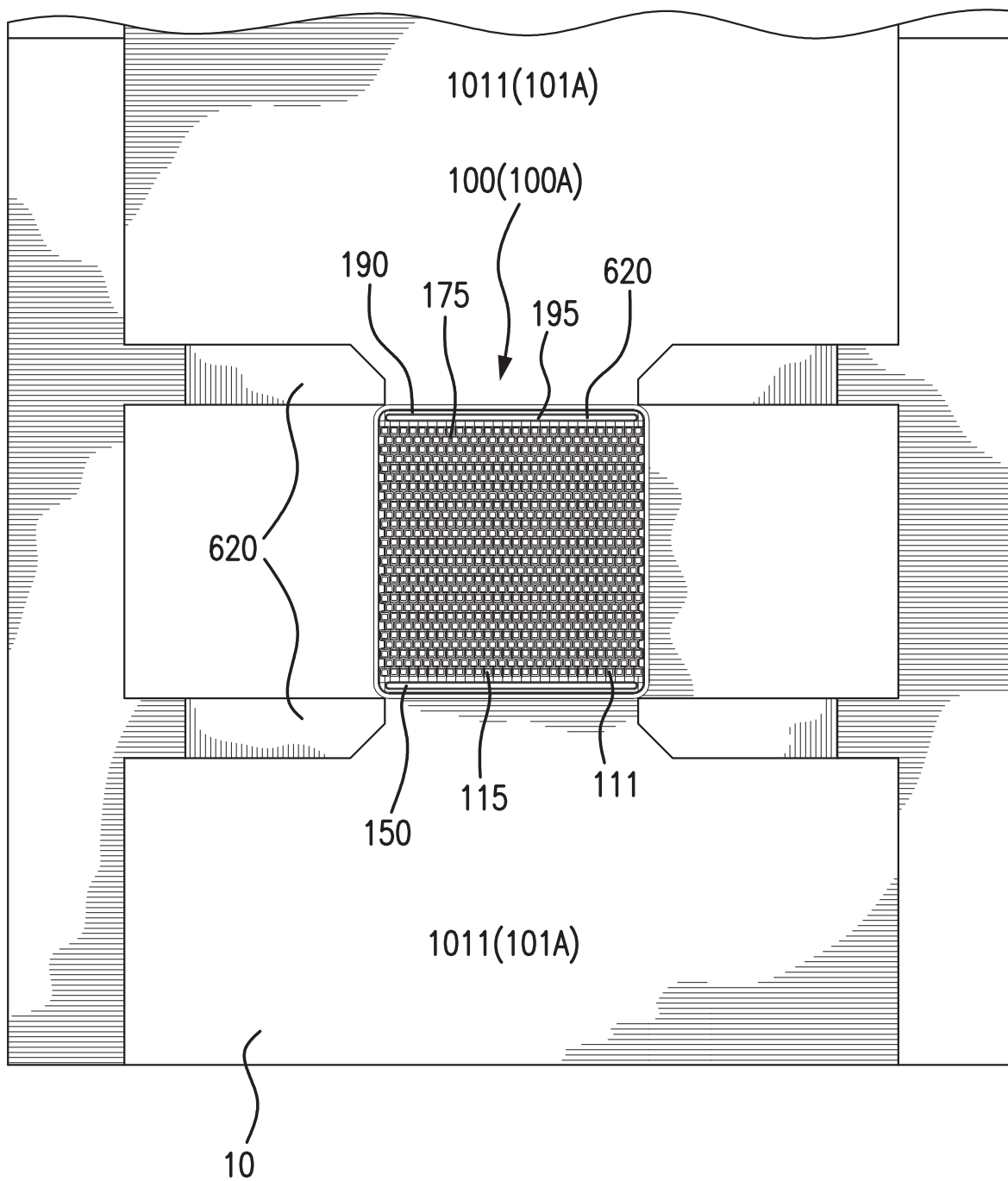


**FIG. 1**

**FIG. 2**

**FIG. 3**

**FIG. 4A**

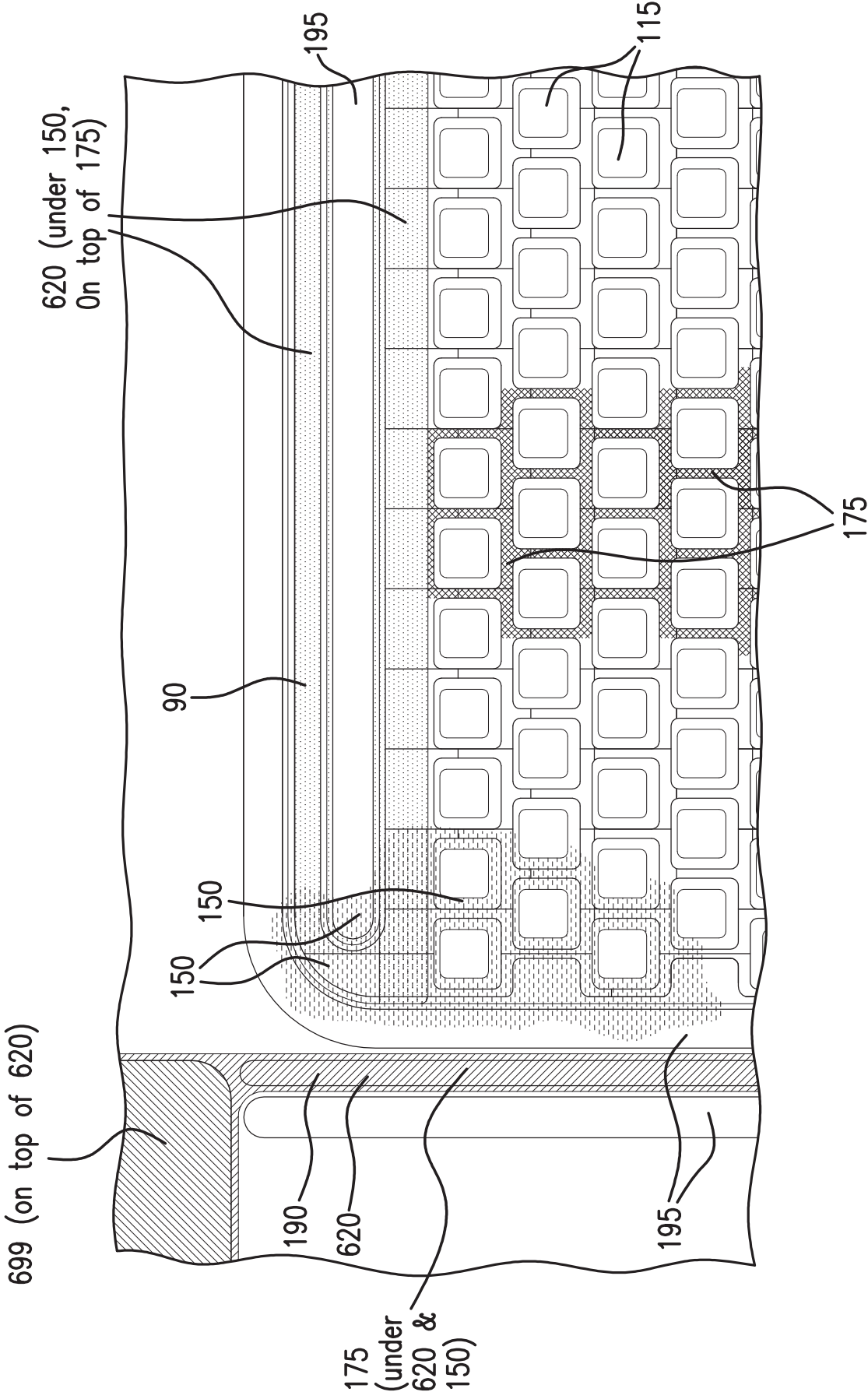


FIG. 4B

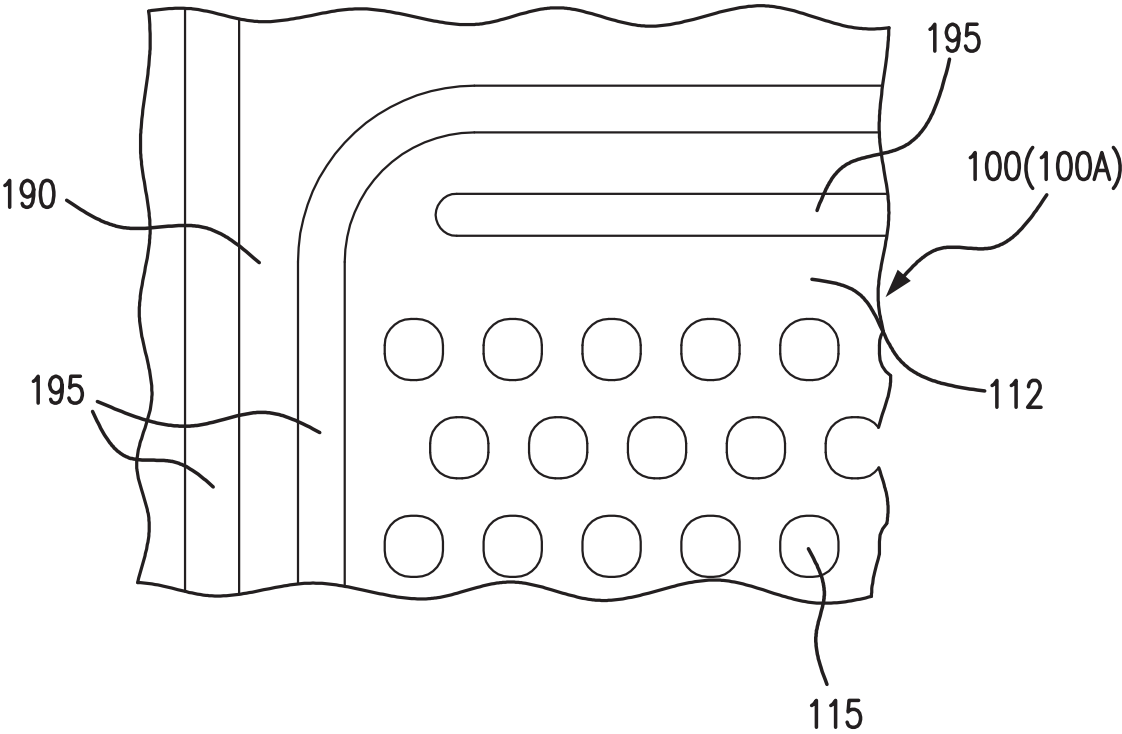


FIG. 4C

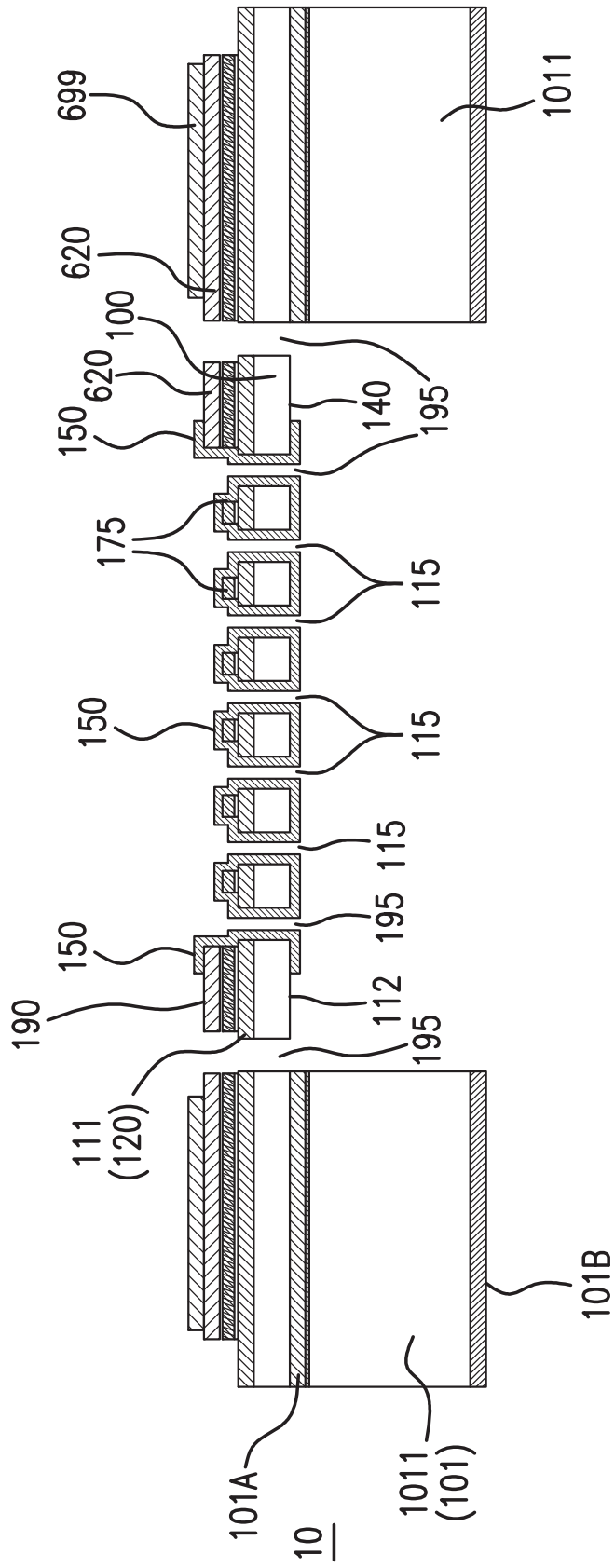
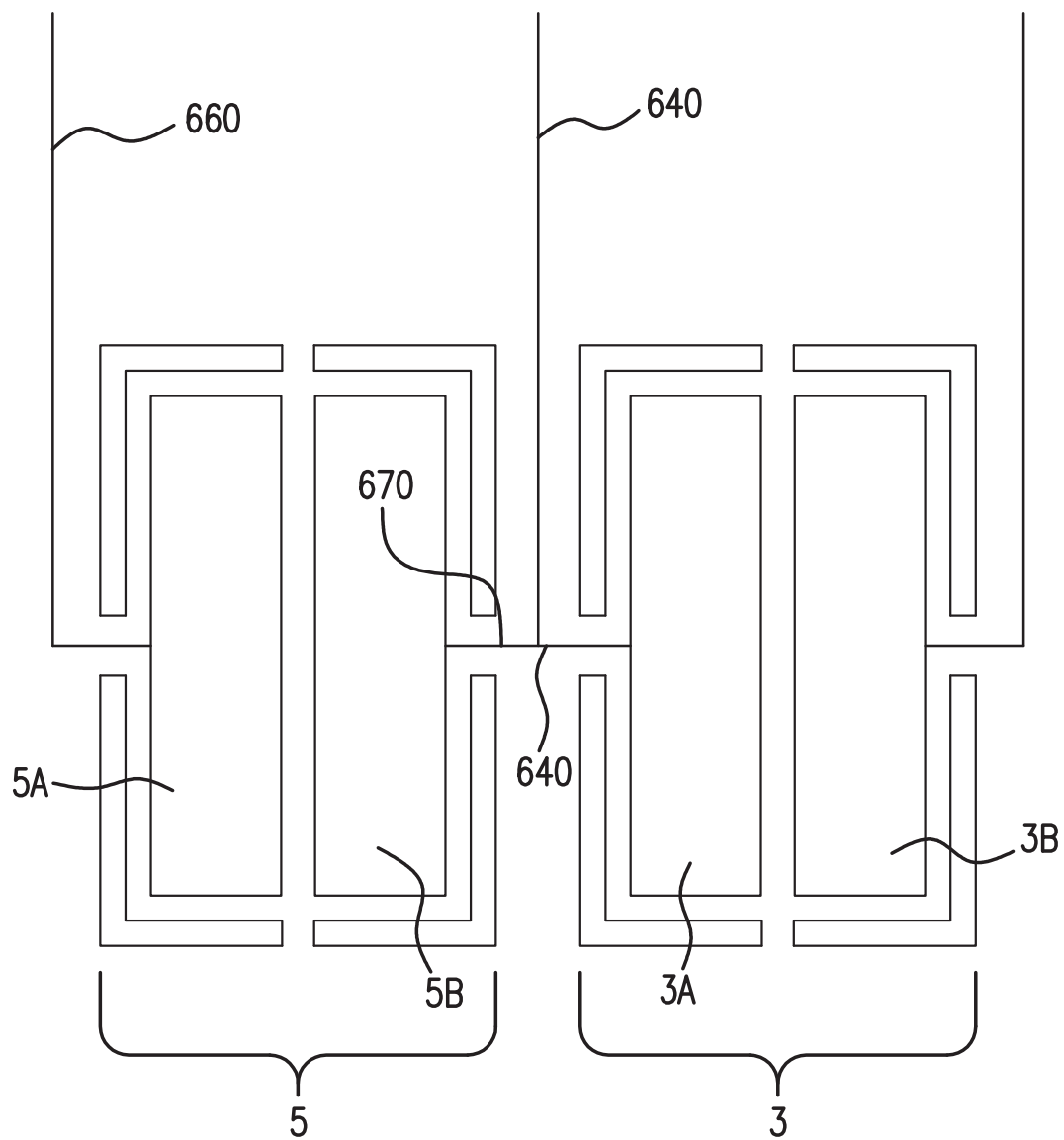
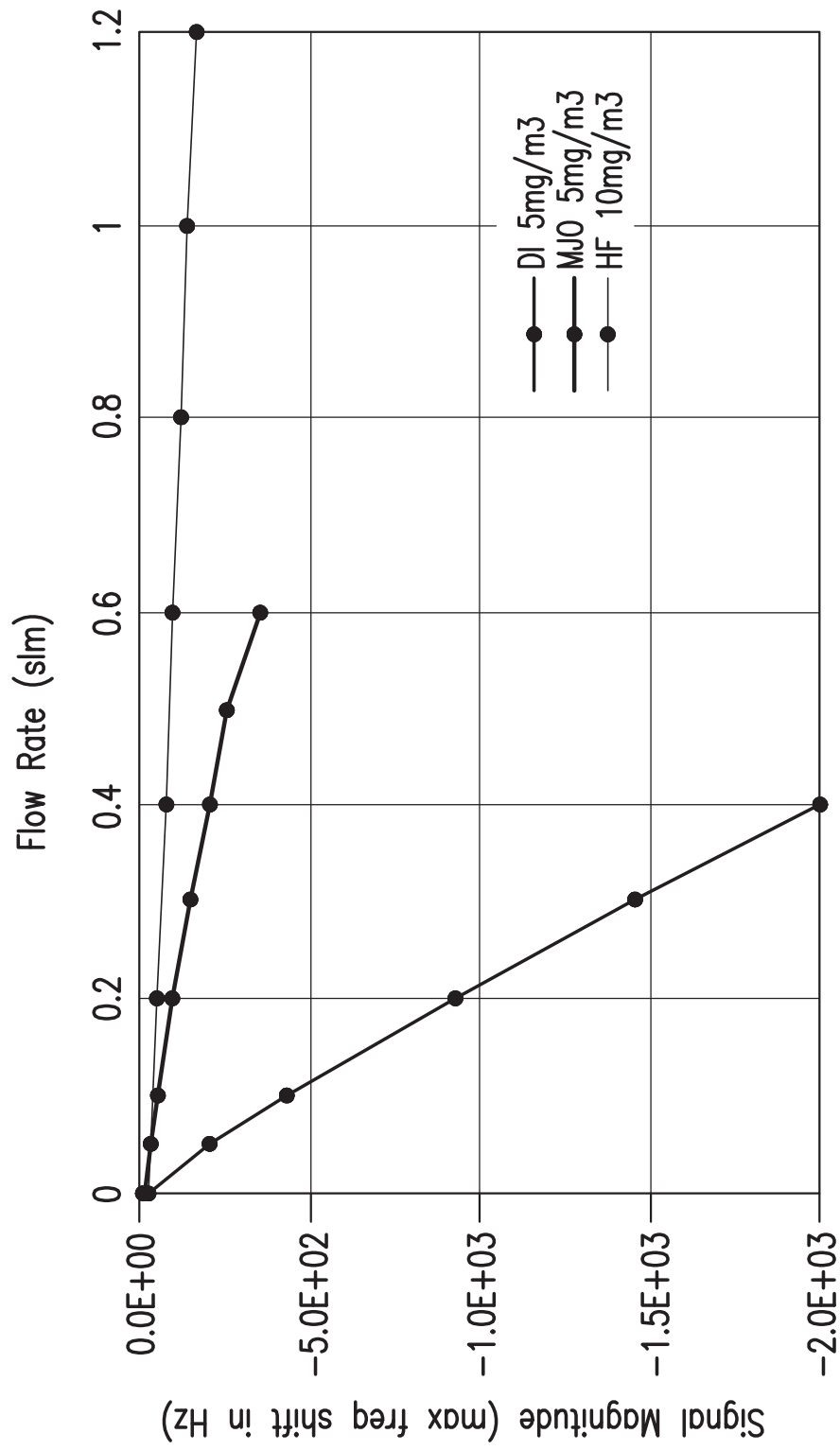
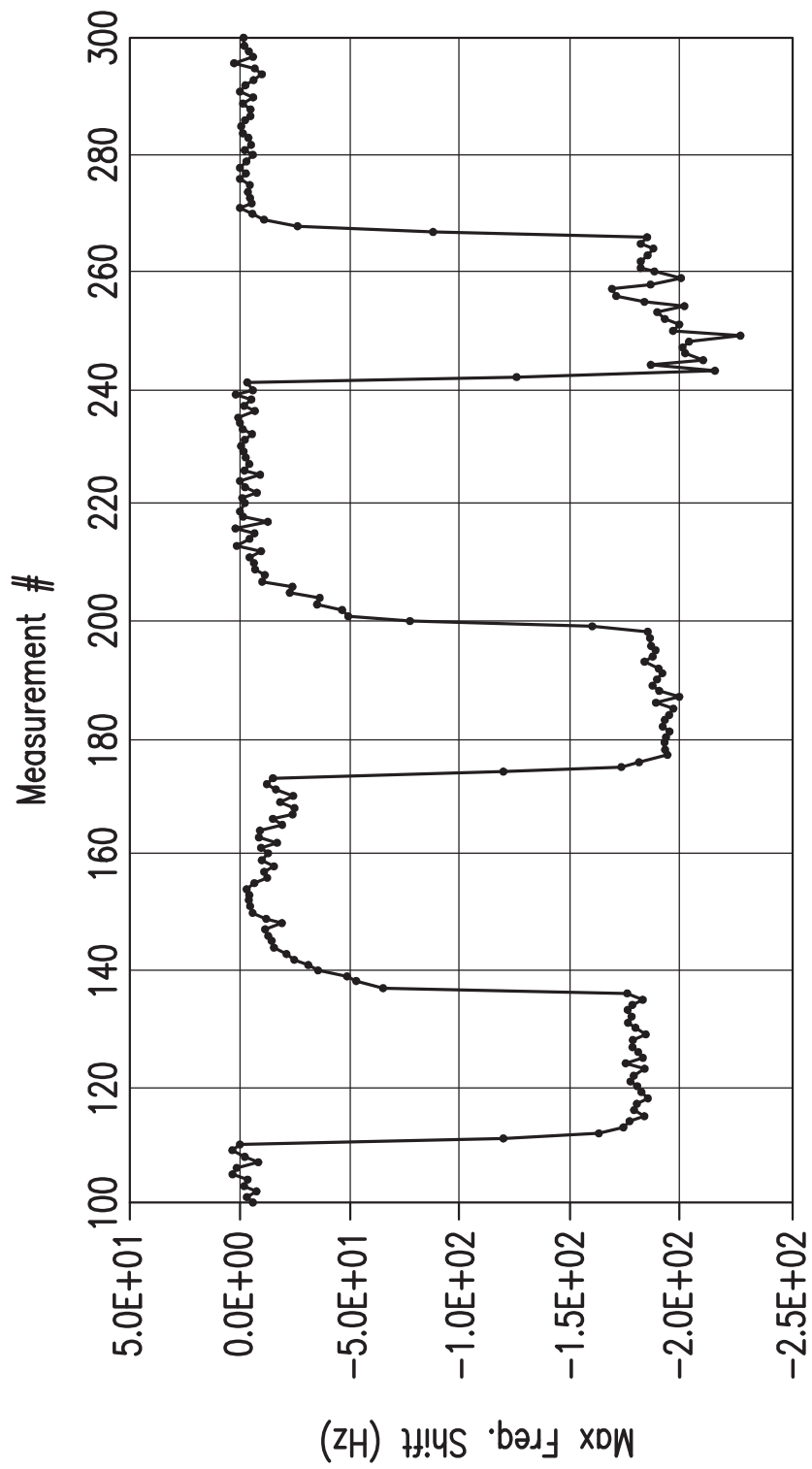
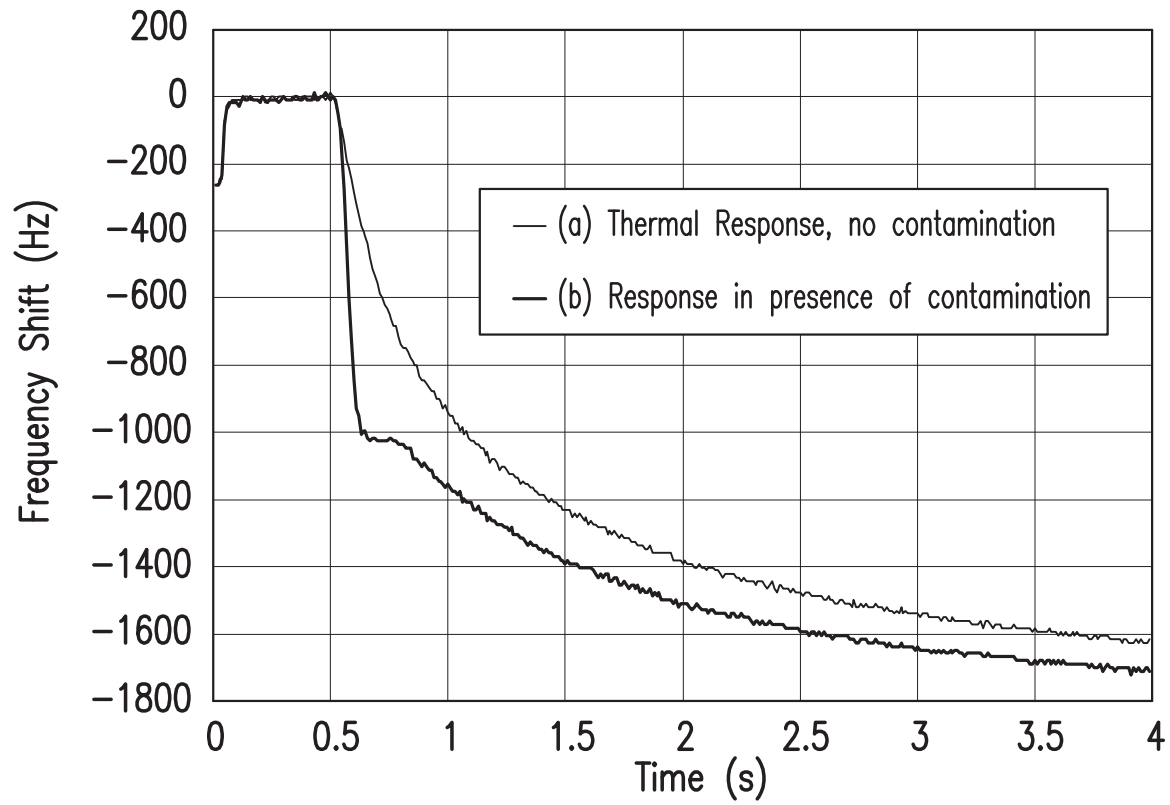
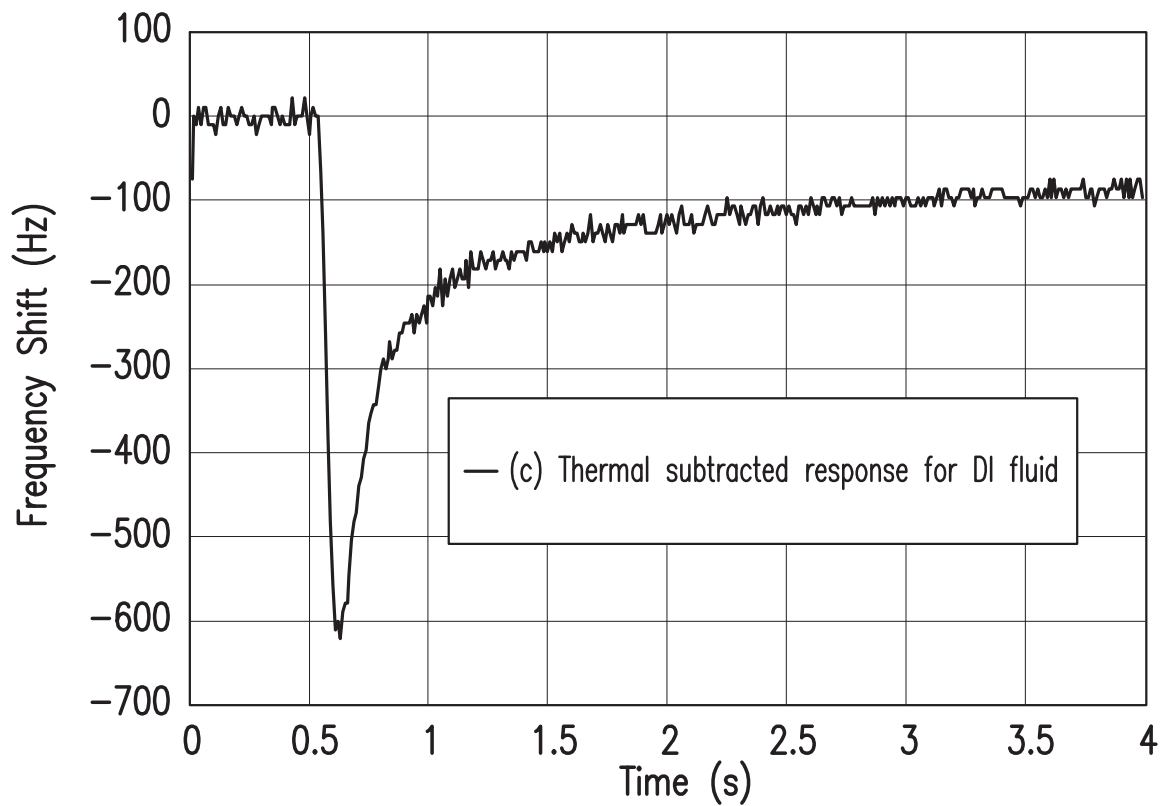


FIG. 4D

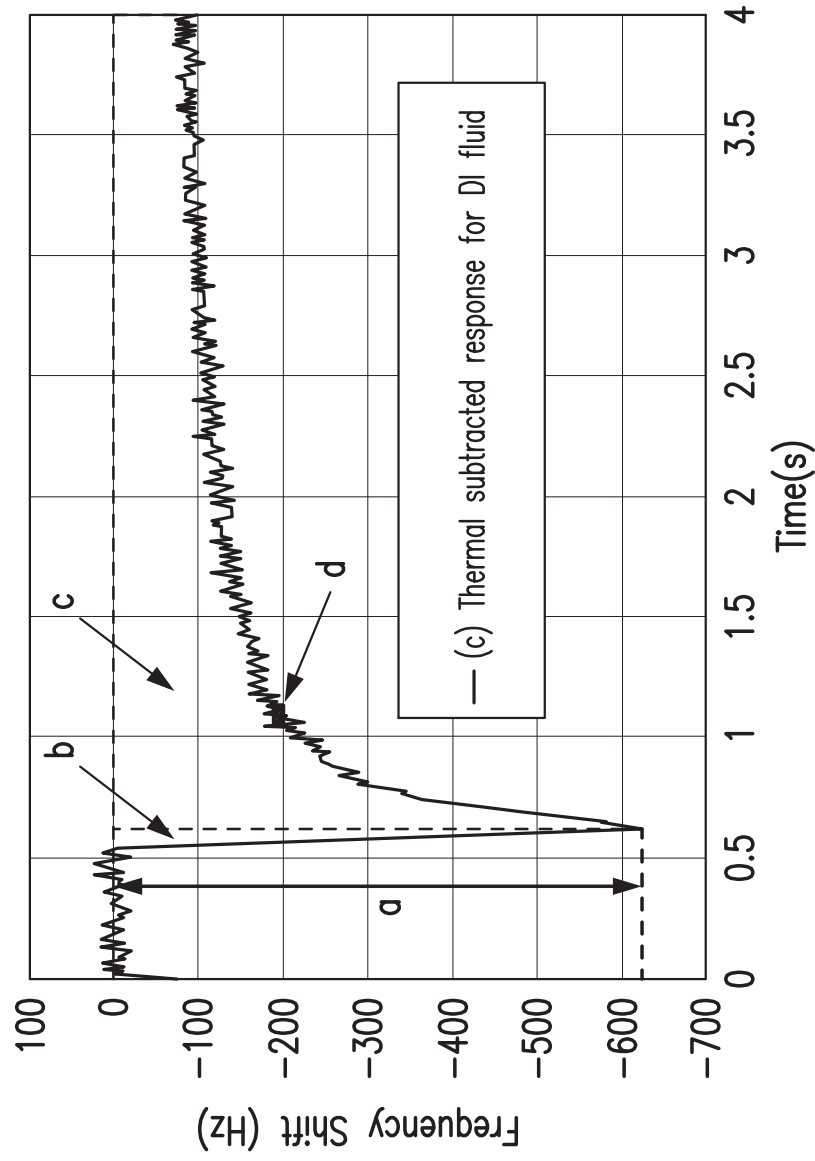
**FIG. 5**

**FIG. 6**

**FIG. 7**

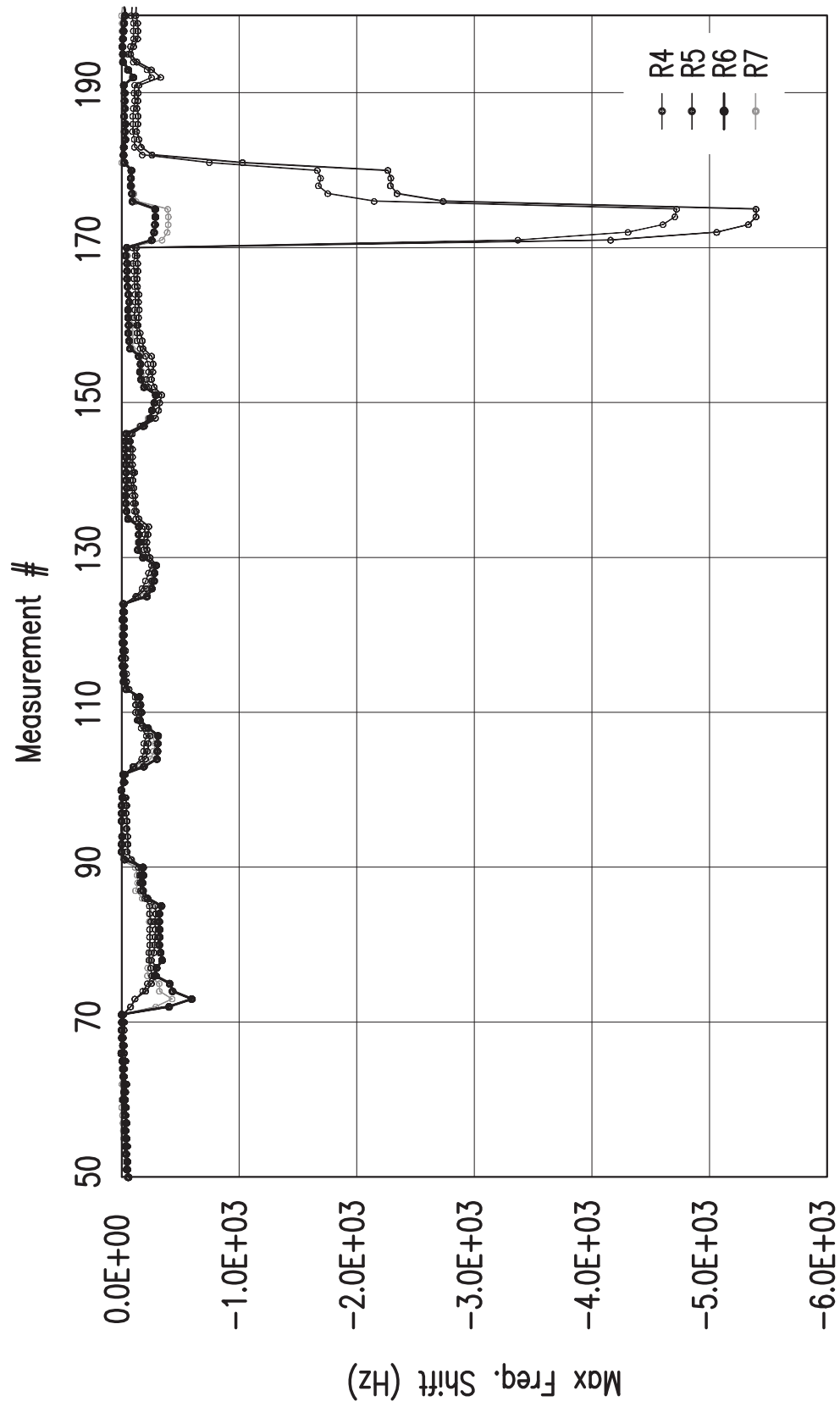
**FIG. 8****FIG. 9**

Features are calculated from the "thermal subtracted responses"



- a) Maximum frequency shift (MFS): the MFS seen during the response
- b) Sum before peak (SB): area under the curve before the MFS
- c) Sum after peak (SA): area under the curve after the MFS
- d) Segment #5 (S5): the average of the 37th thru 46th frequency measurements following the MFS

FIG. 10

**FIG. 11**

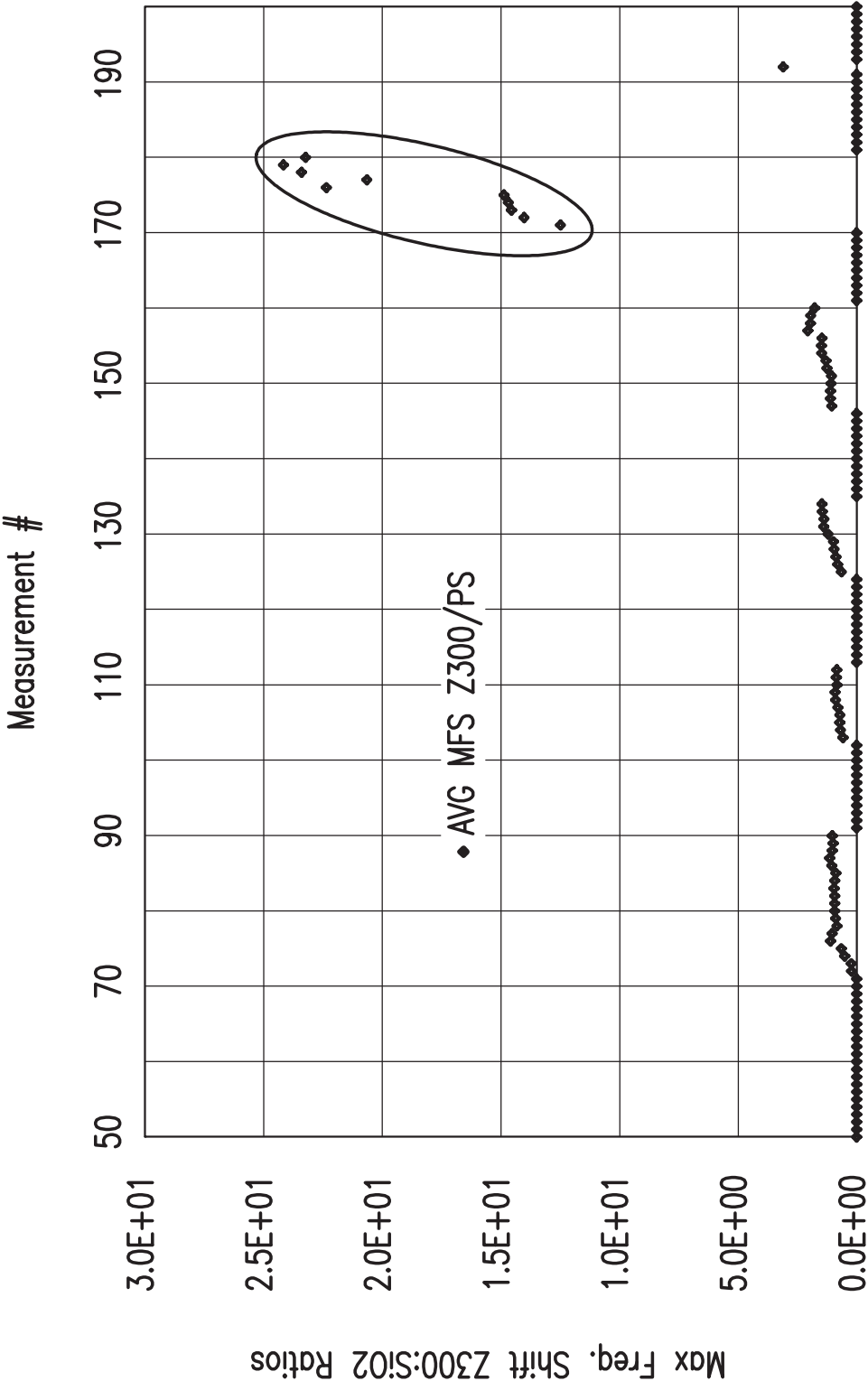


FIG. 12