

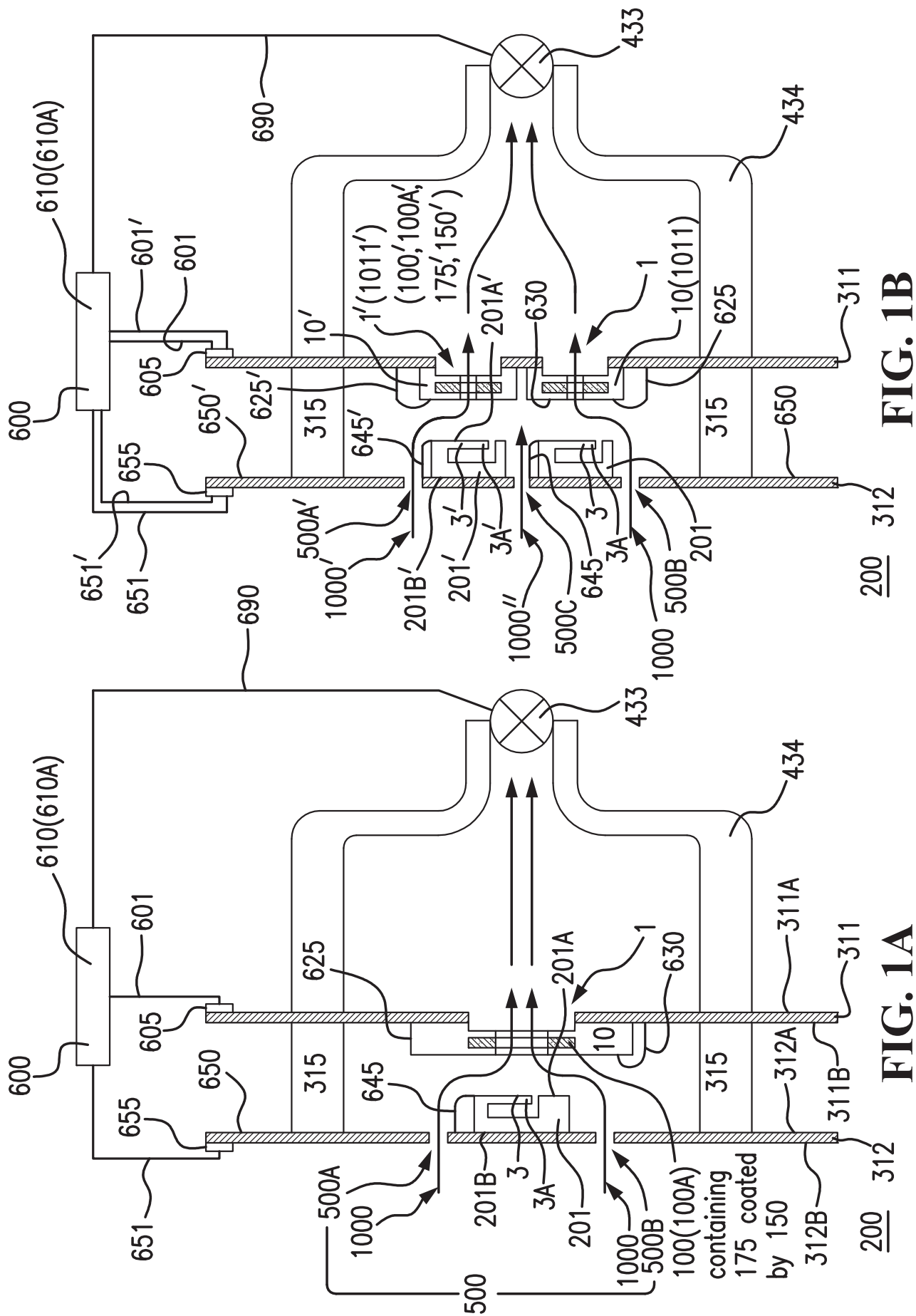
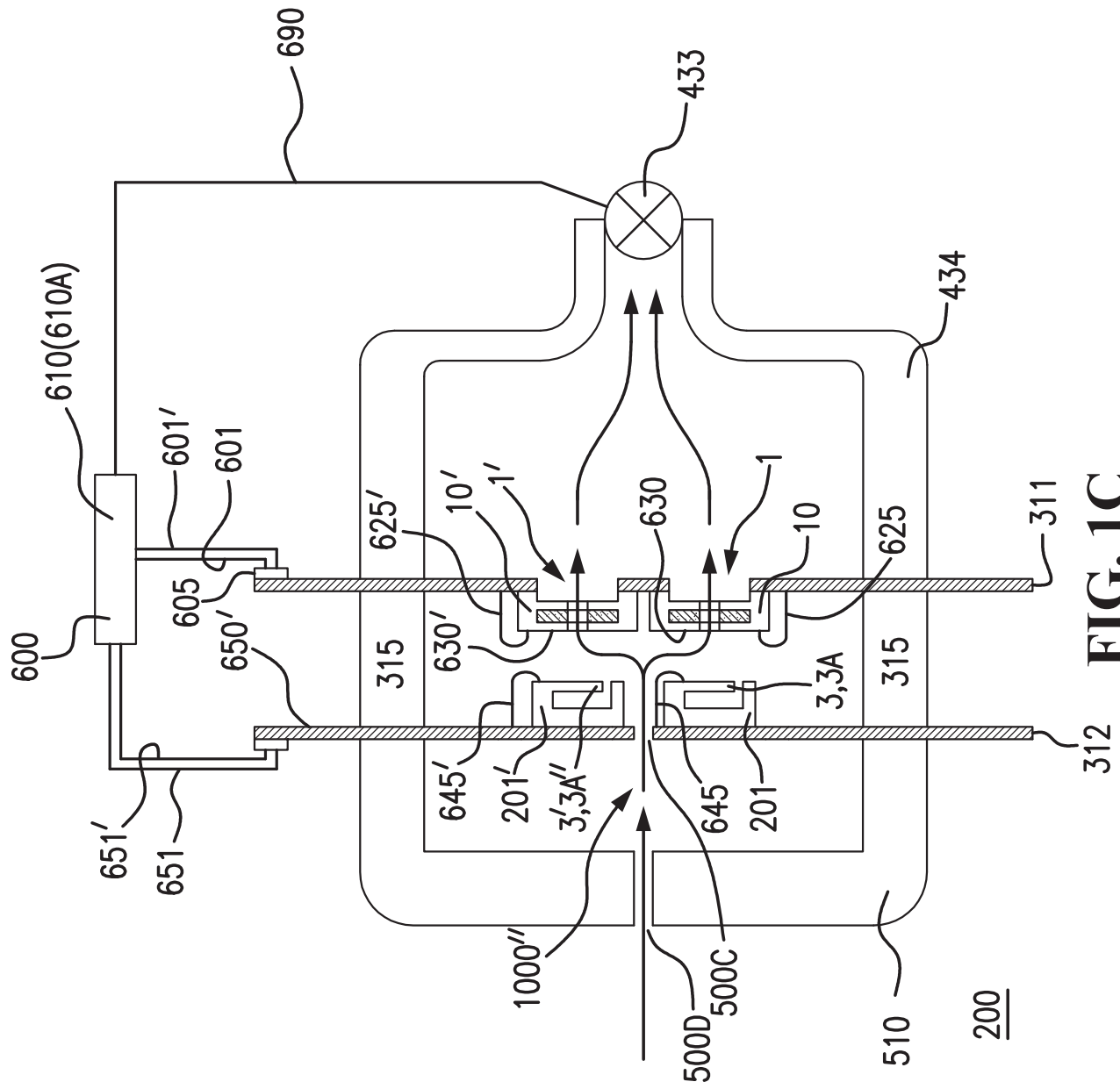
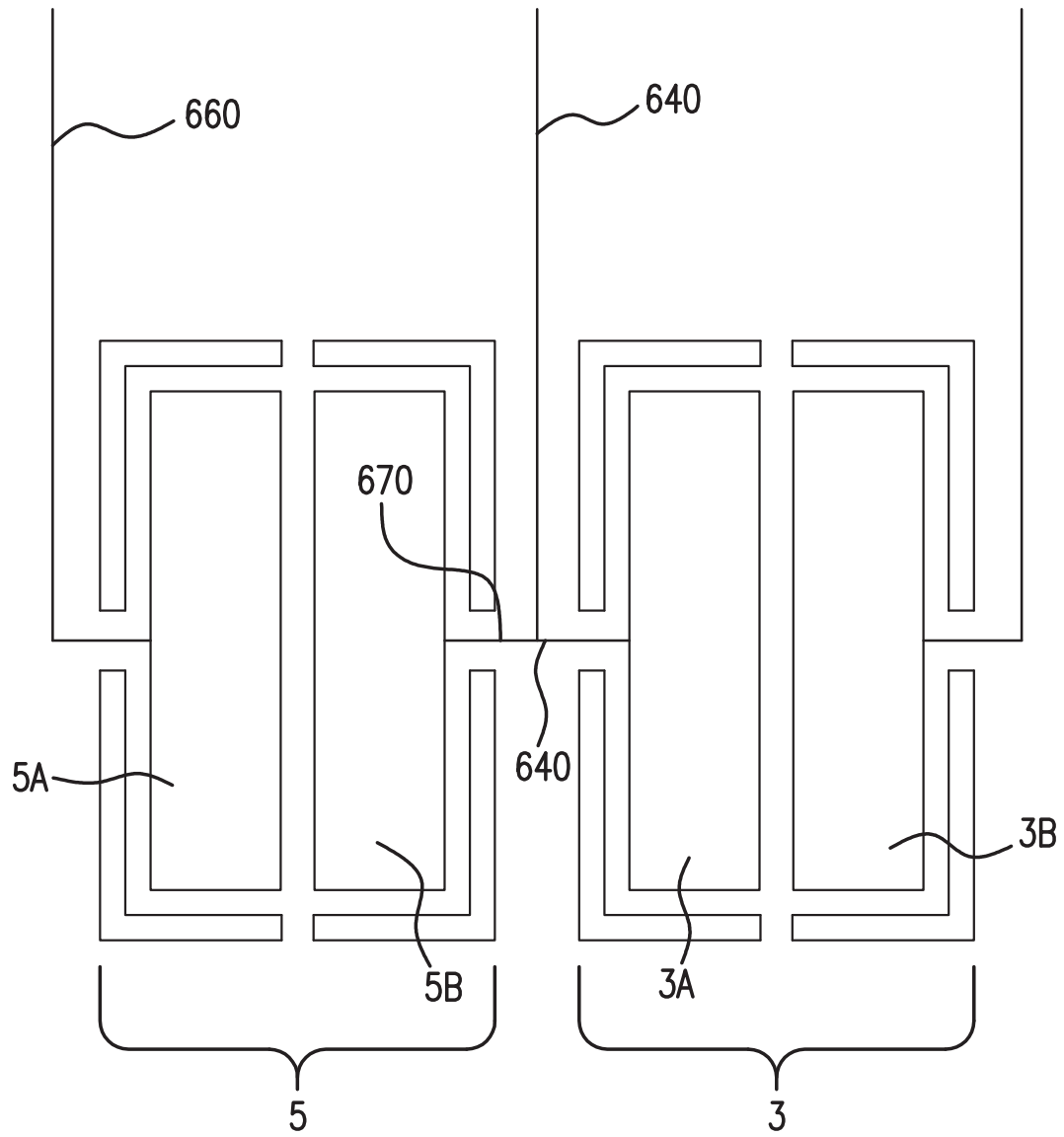
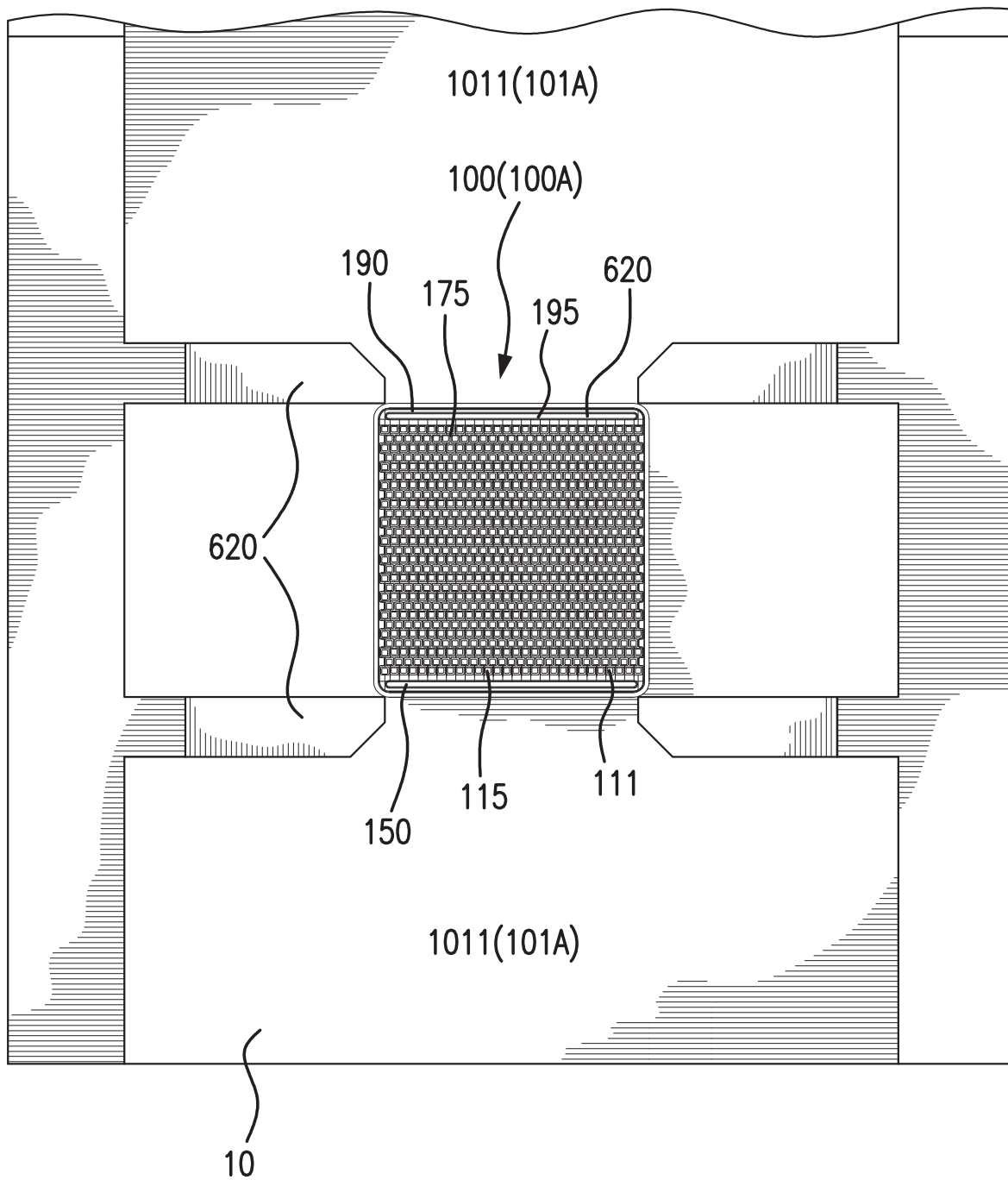


FIG. 1B

FIG. 1A



**FIG. 2**

**FIG. 3A**

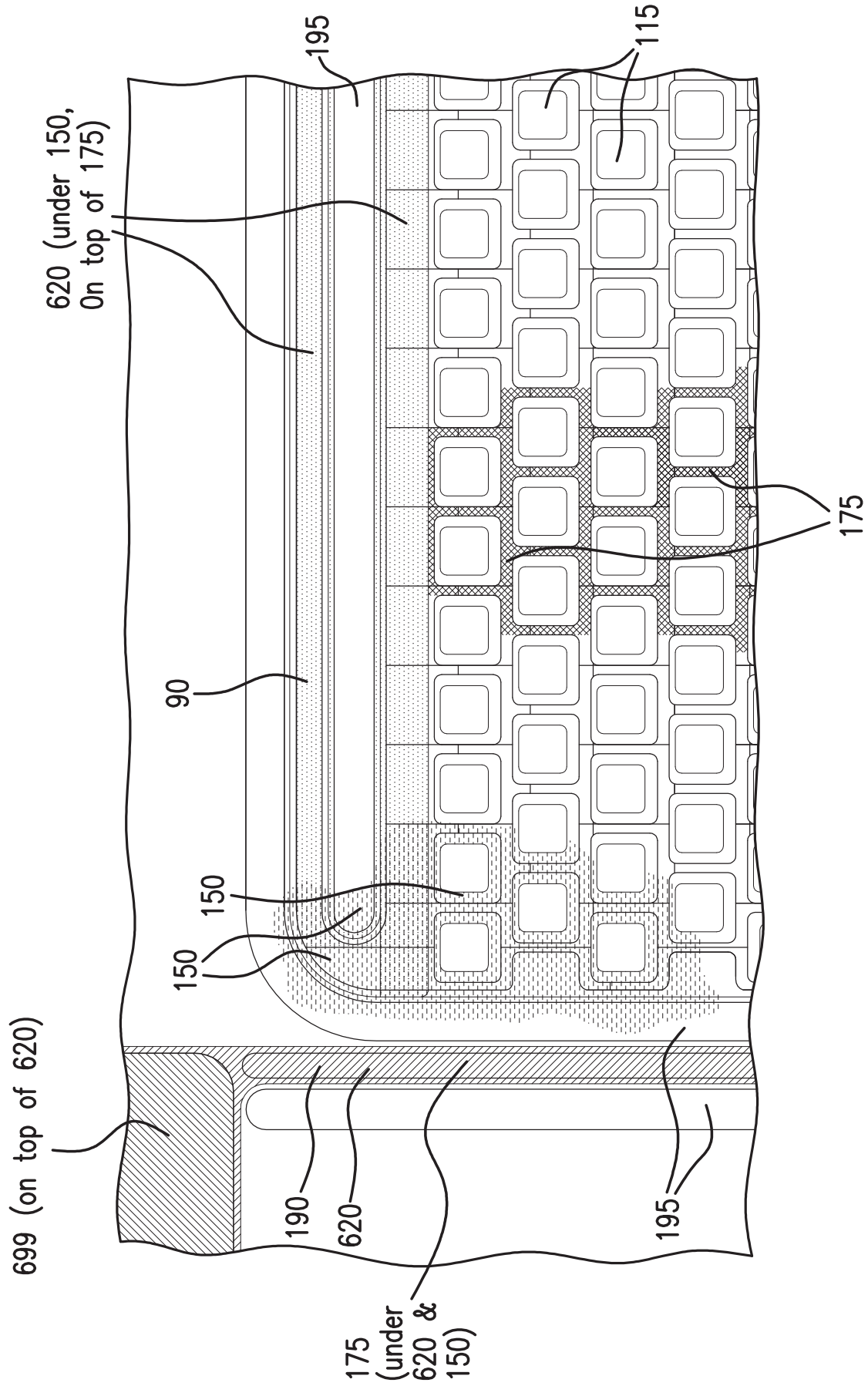
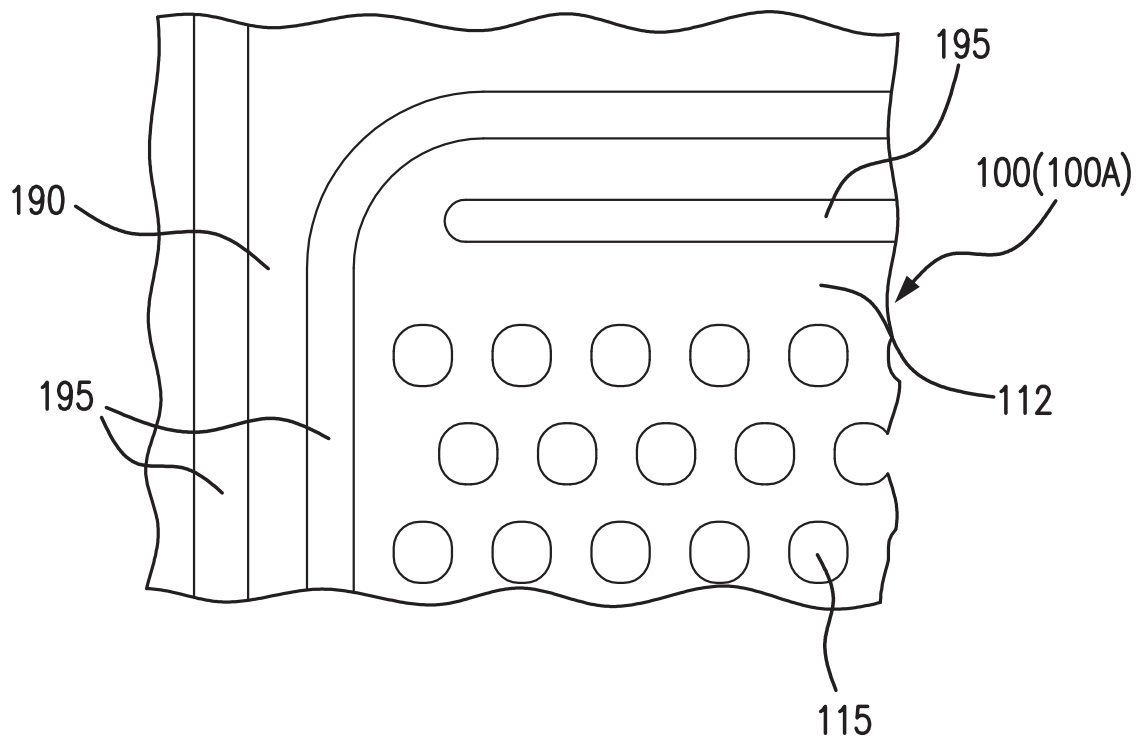


FIG. 3B

**FIG. 3C**

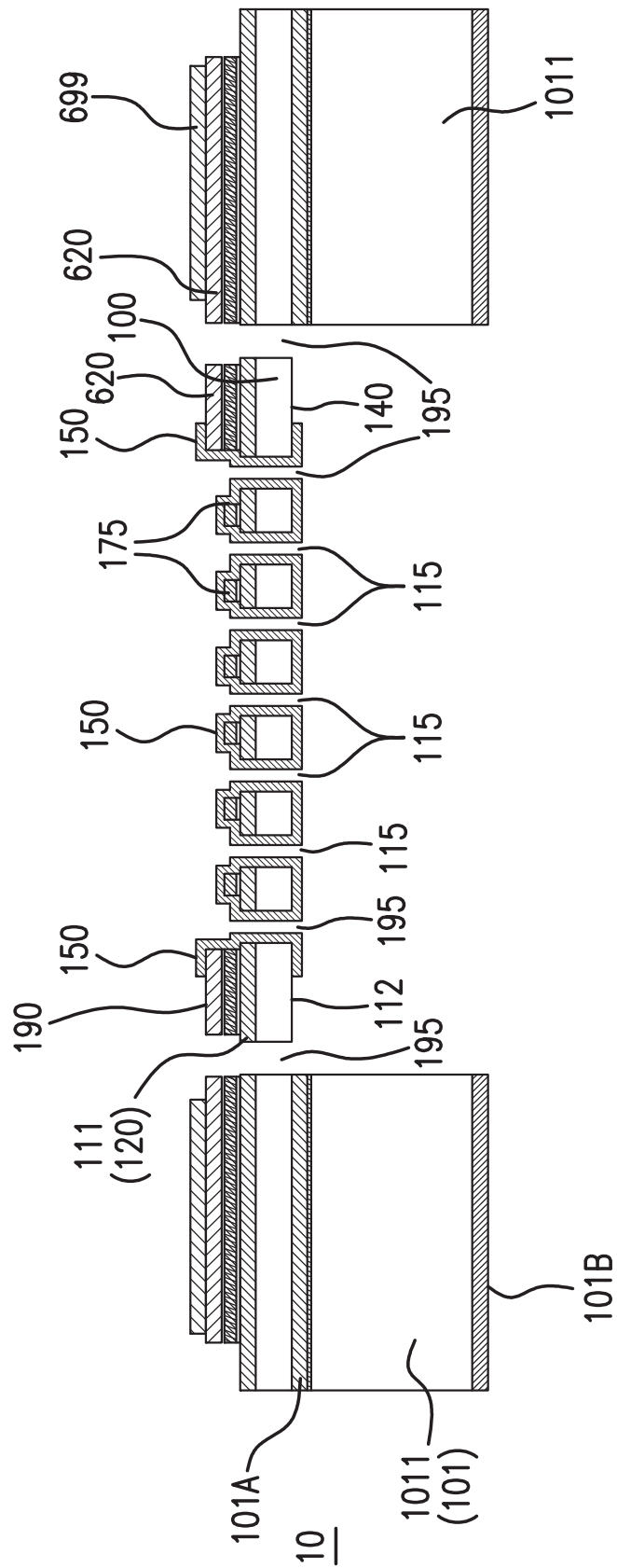
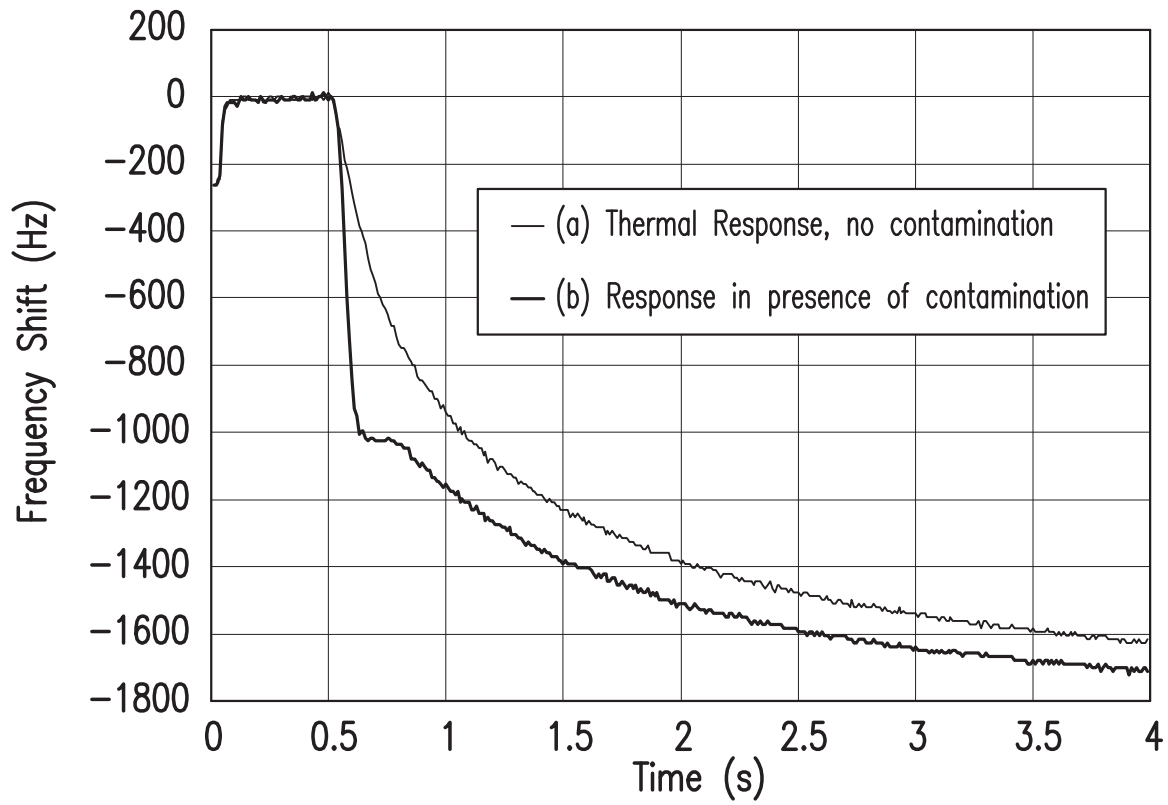
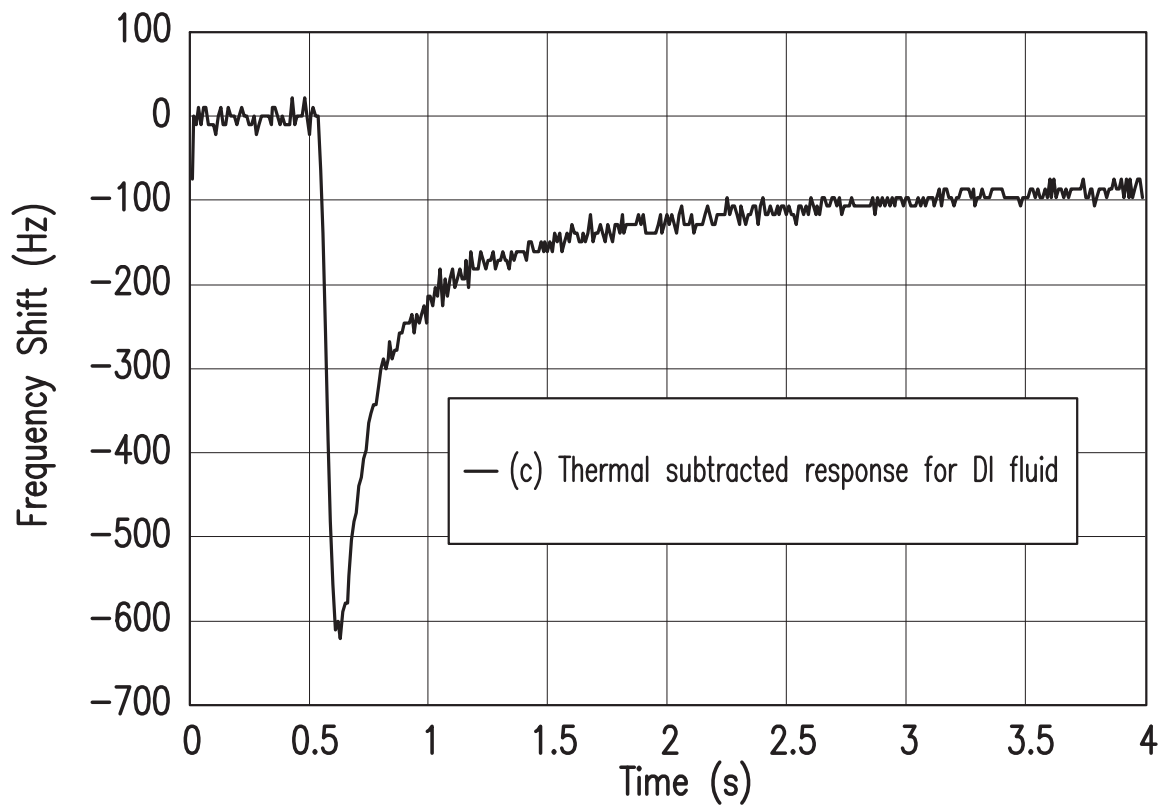
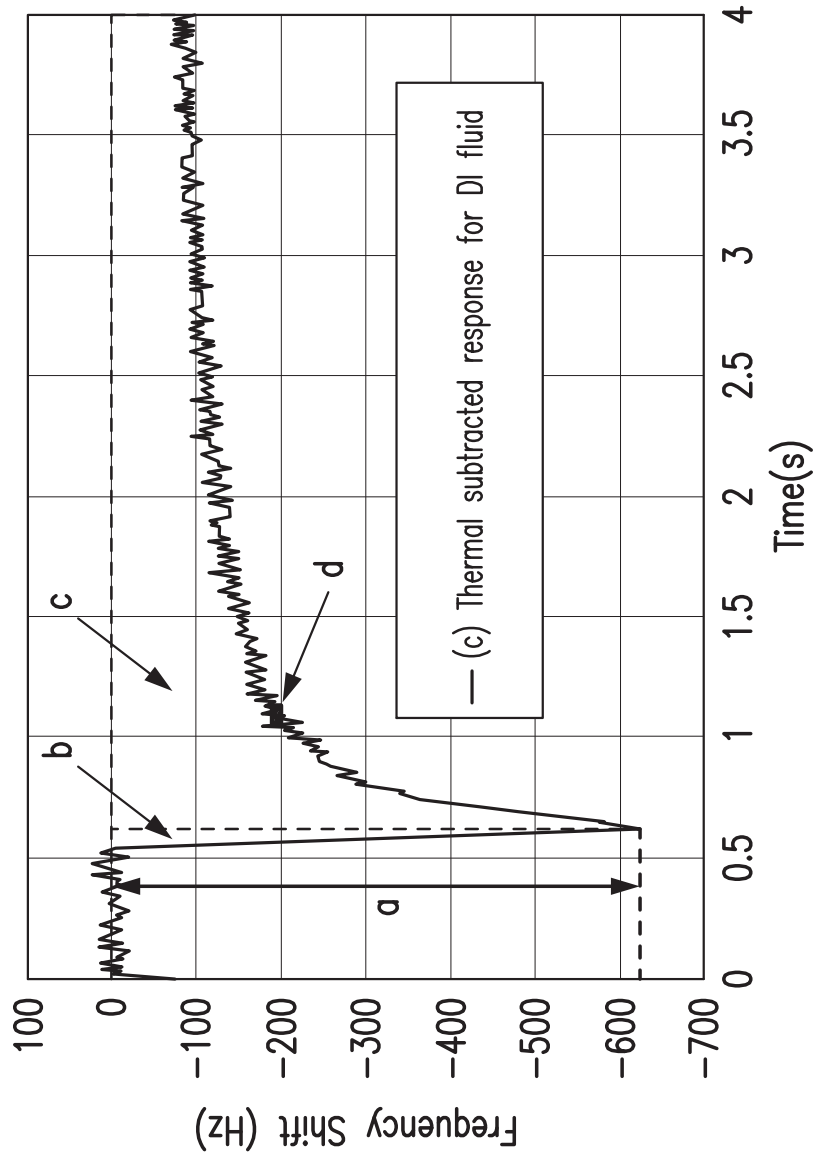


FIG. 3D

**FIG. 4****FIG. 5**

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. 6

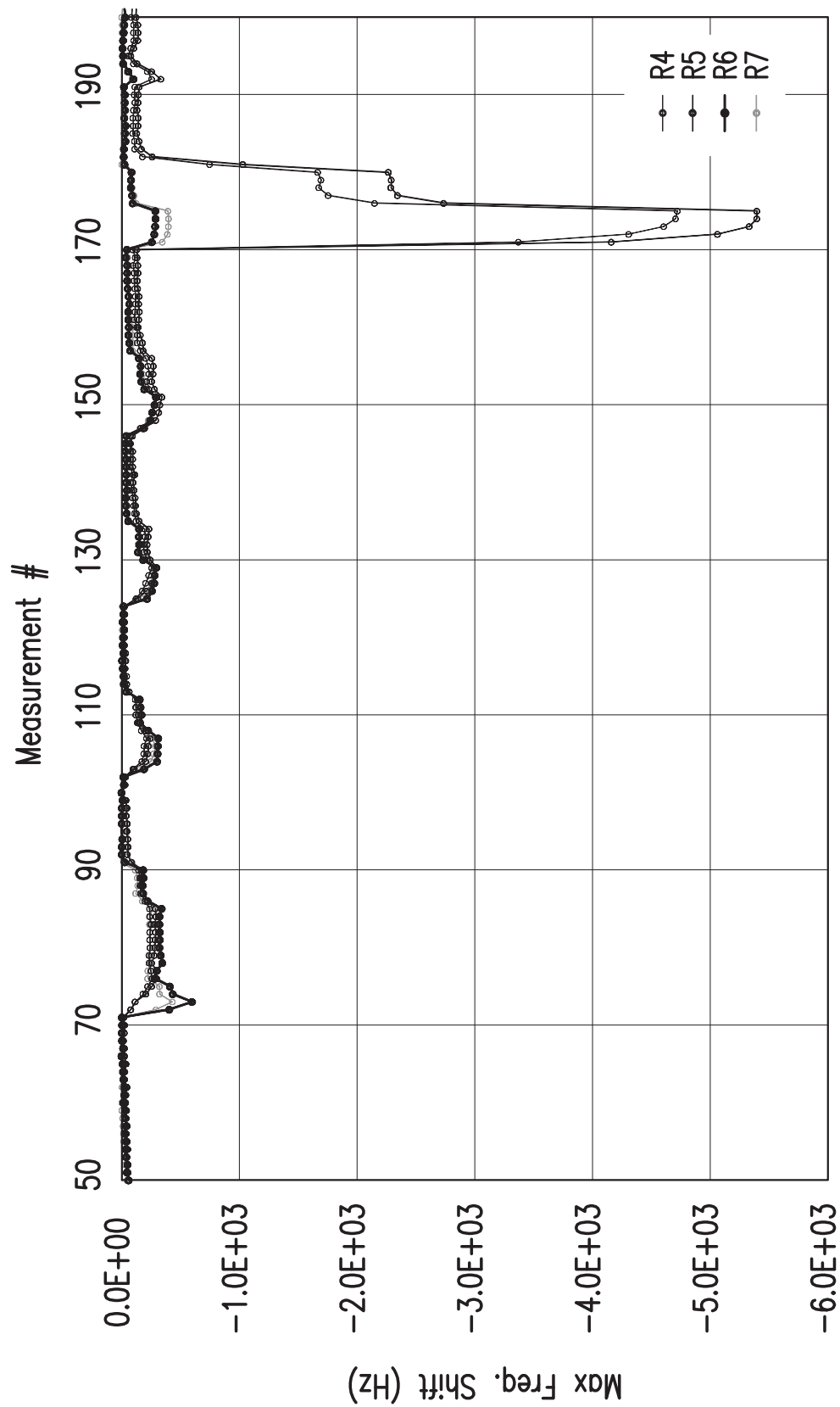


FIG. 7

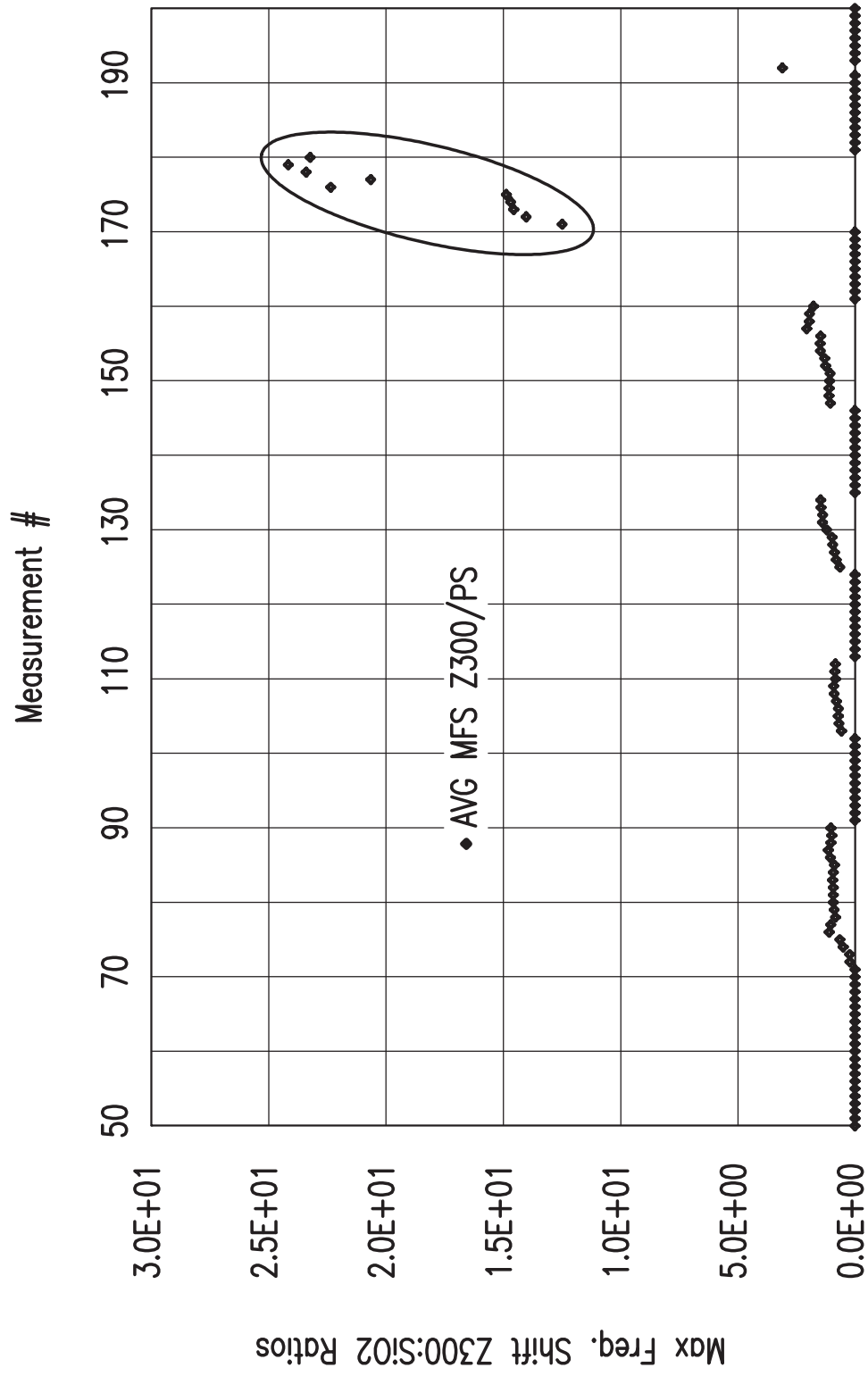


FIG. 8

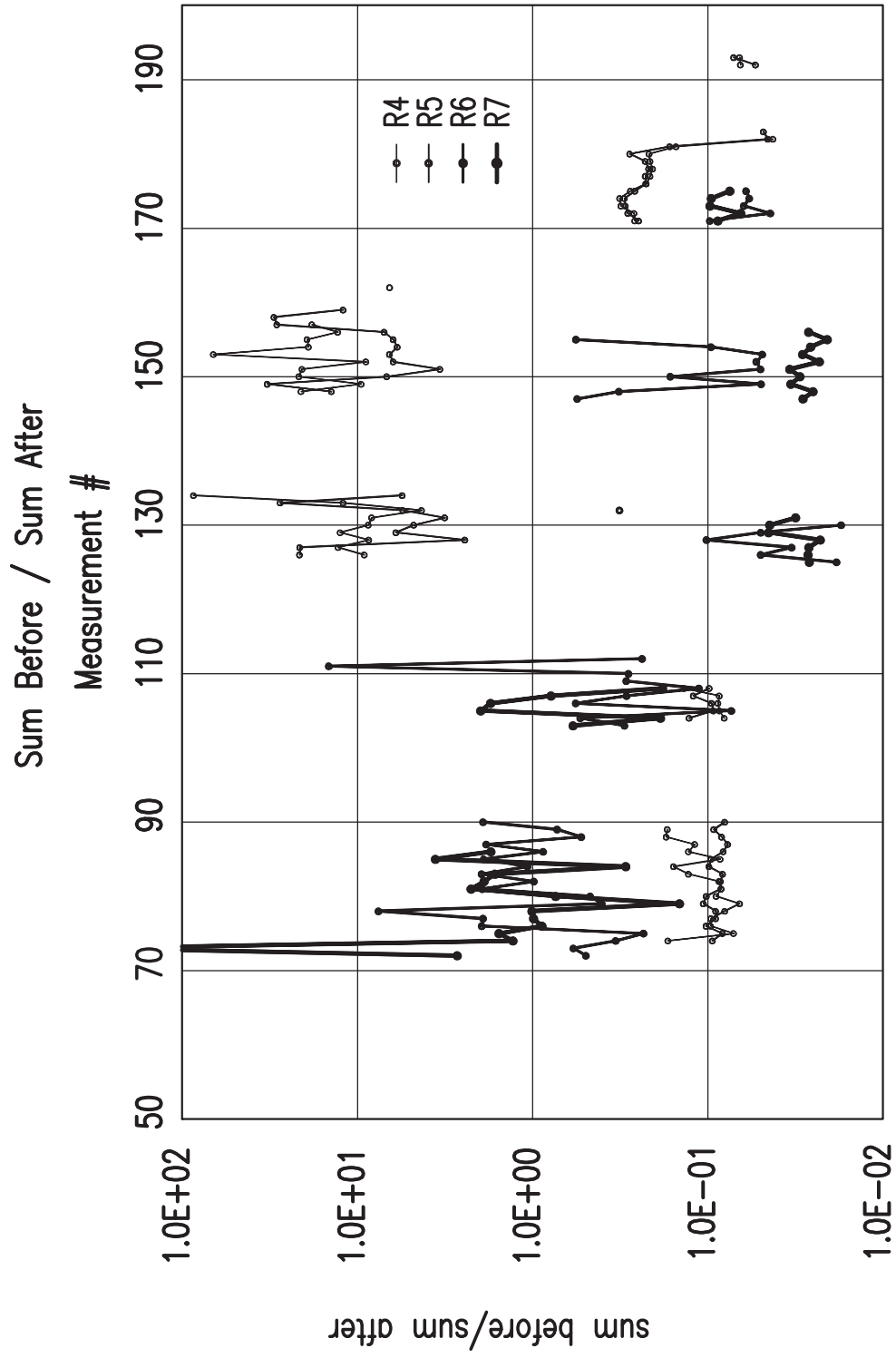


FIG. 9A

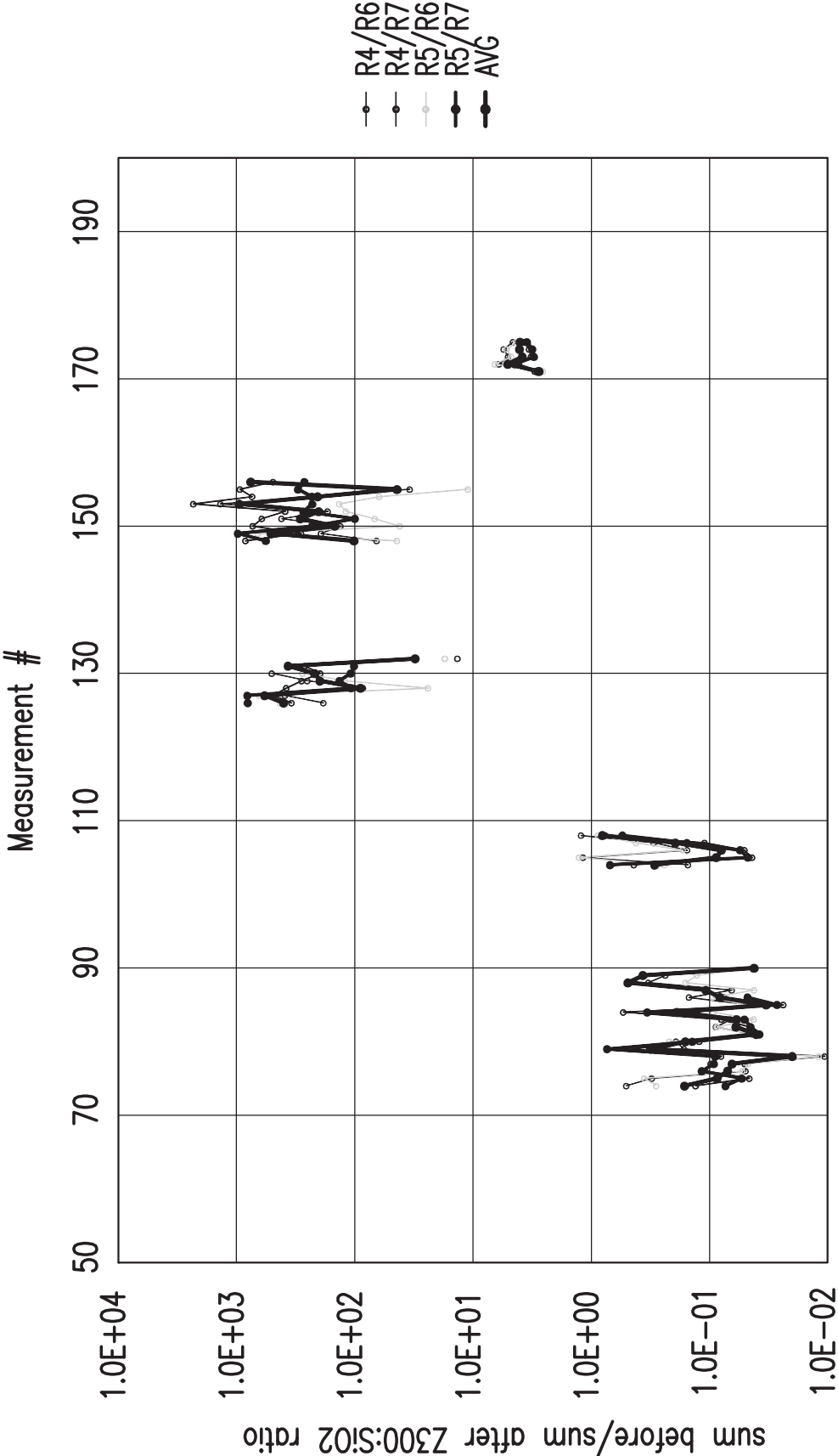


FIG. 9B

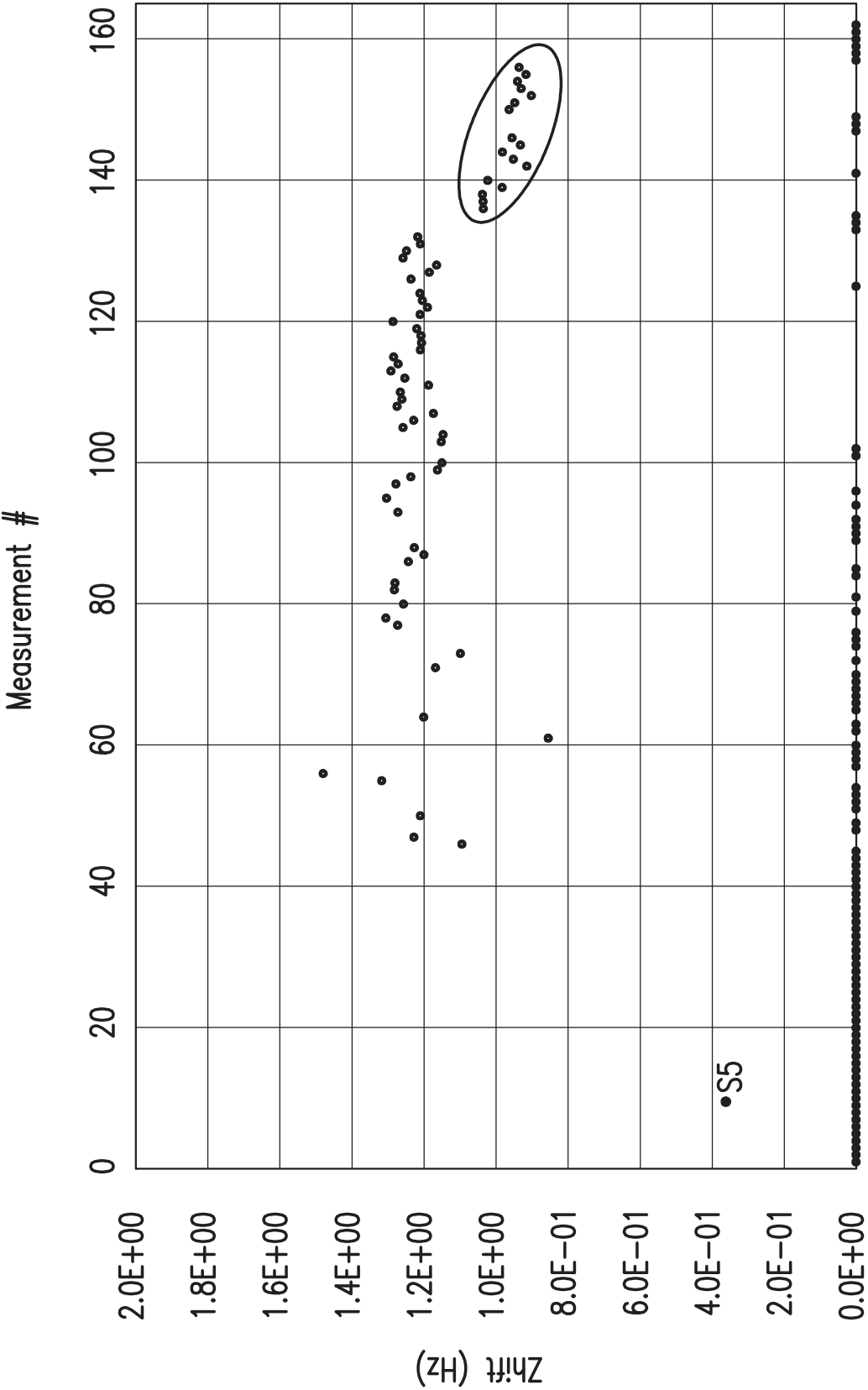


FIG. 10

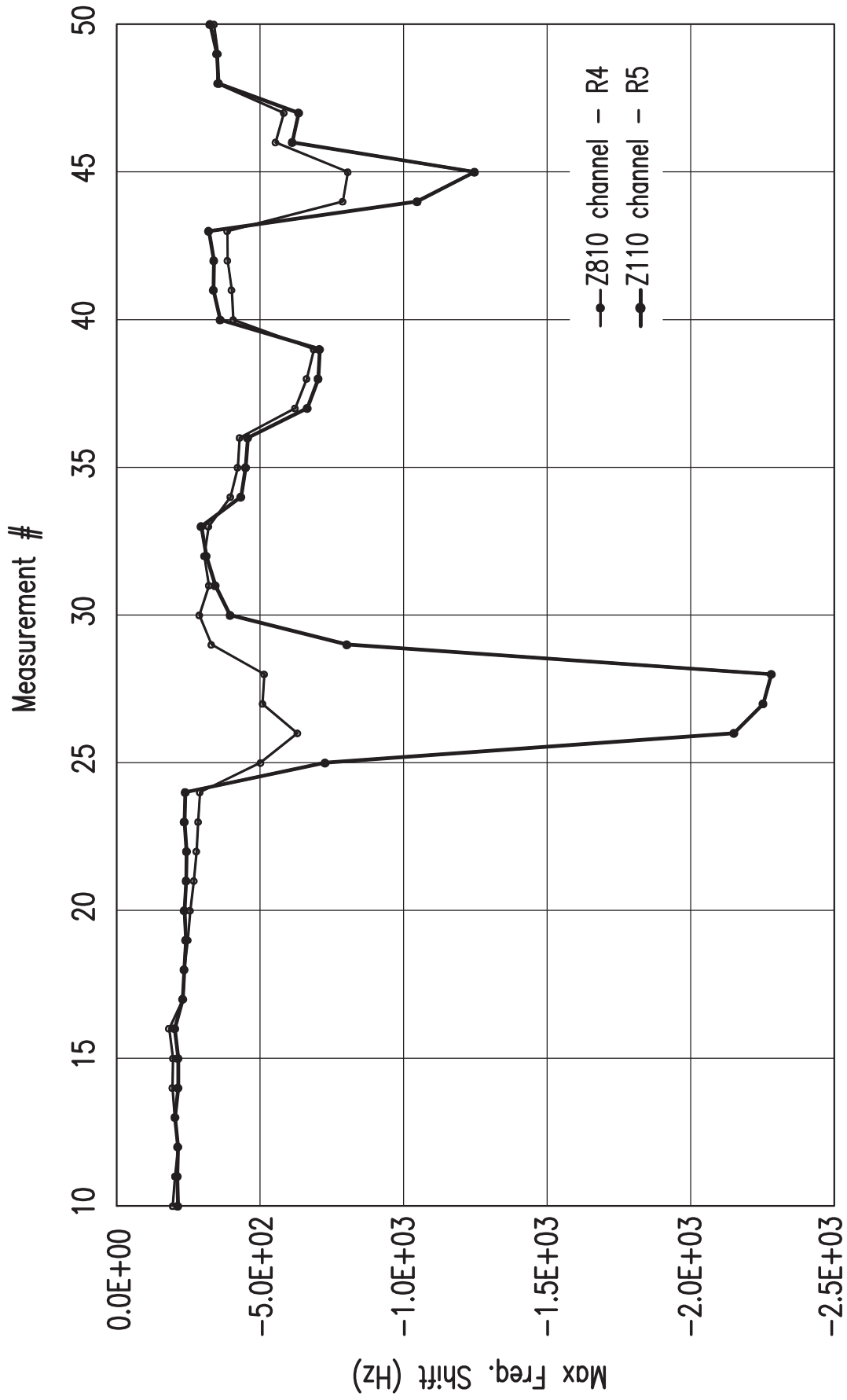


FIG. 11A

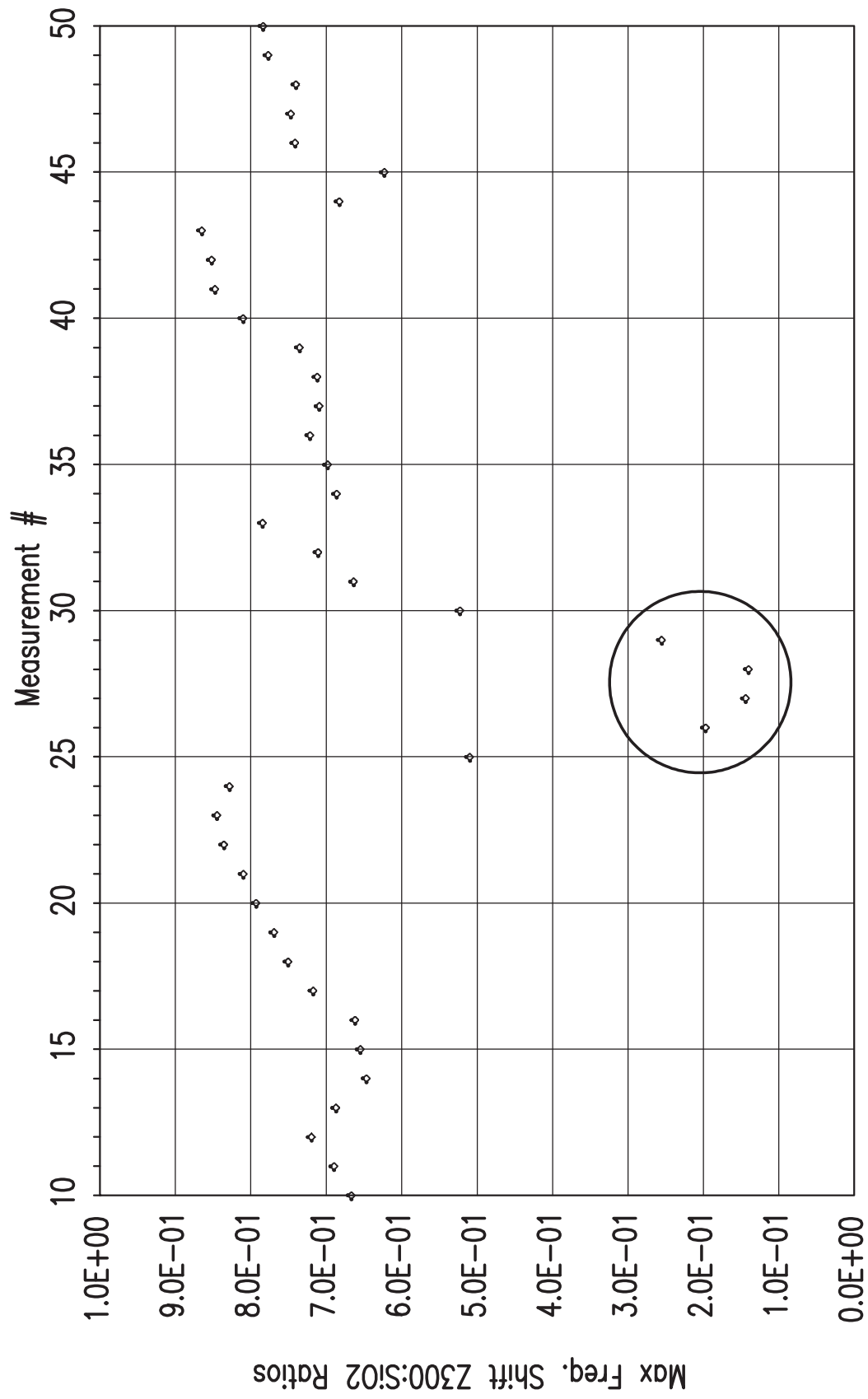


FIG. 11B