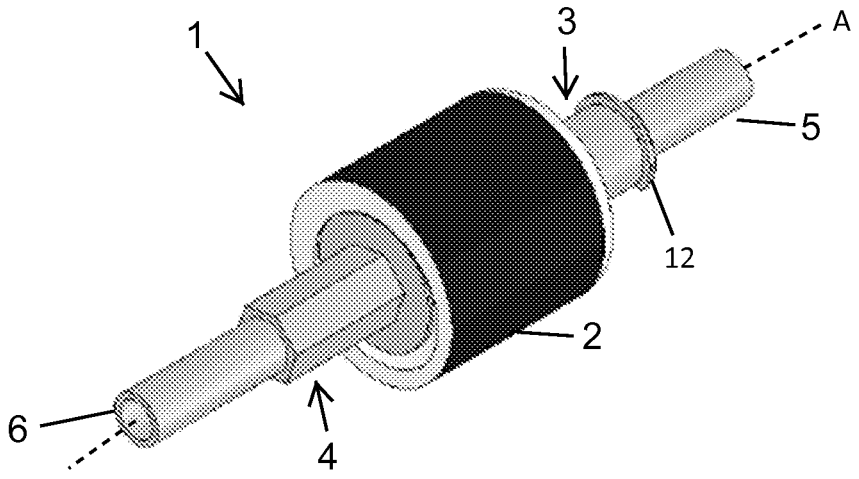


FIG. 1A

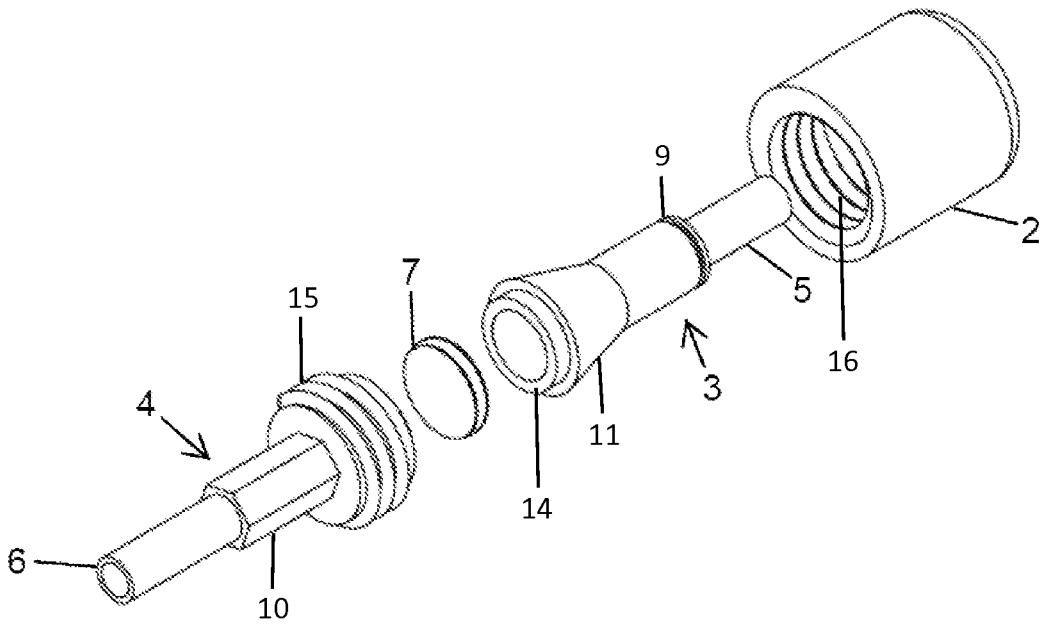


FIG. 1B

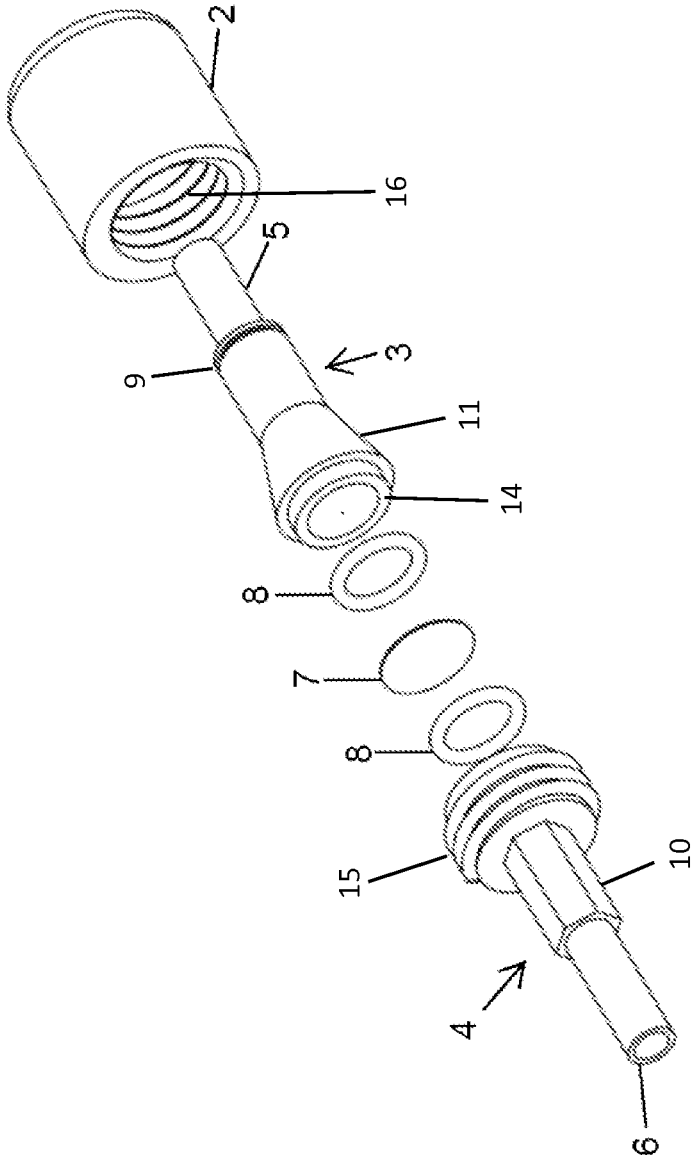


FIG. 1C

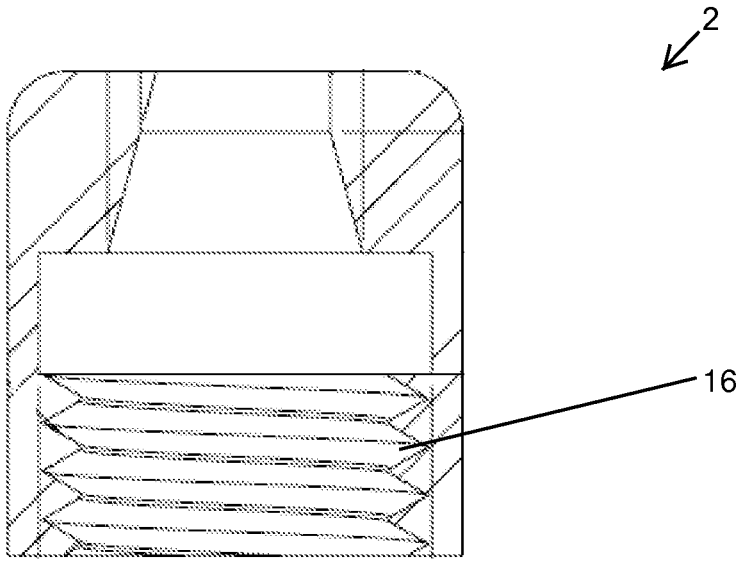


FIG. 1D

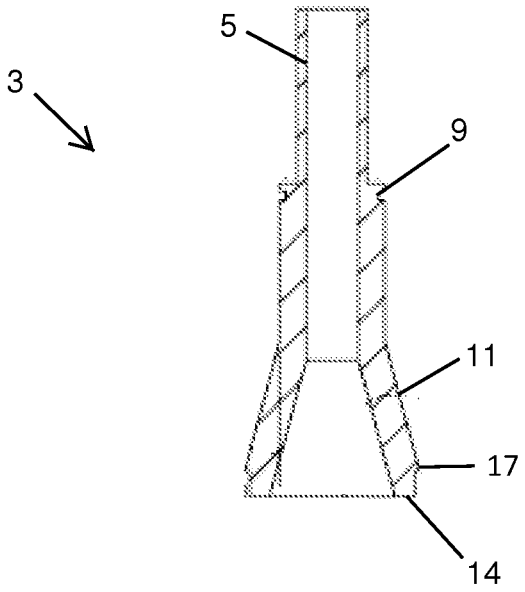


FIG. 1E

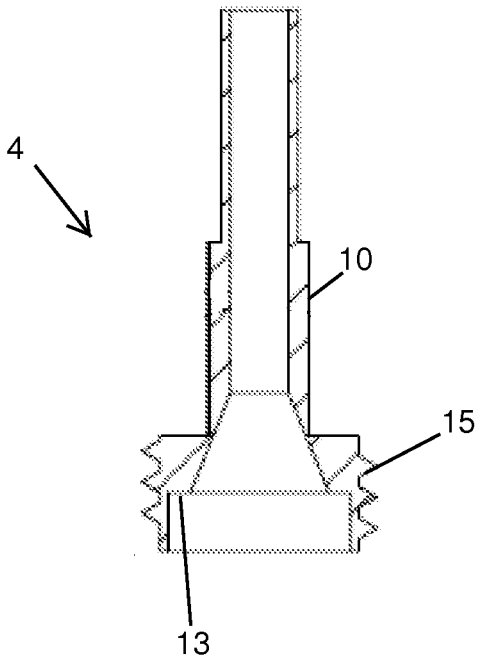


FIG. 1F

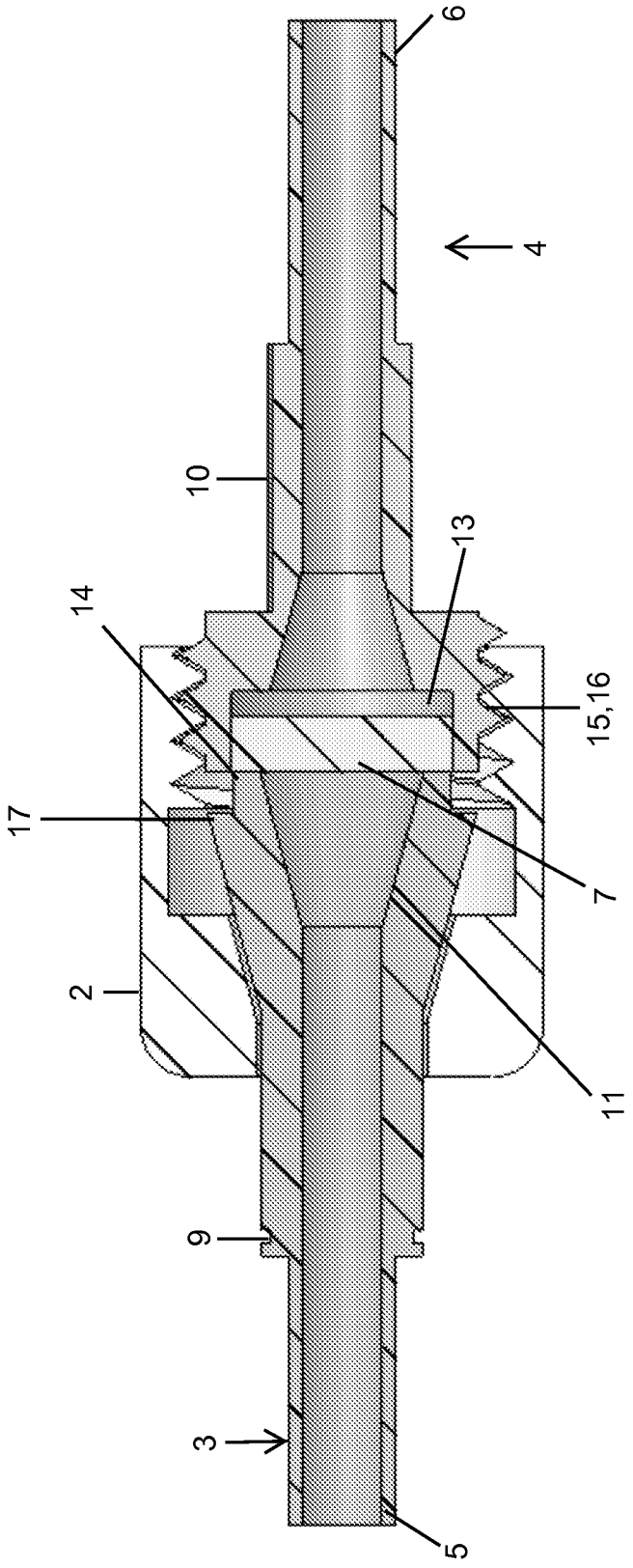


FIG. 1G

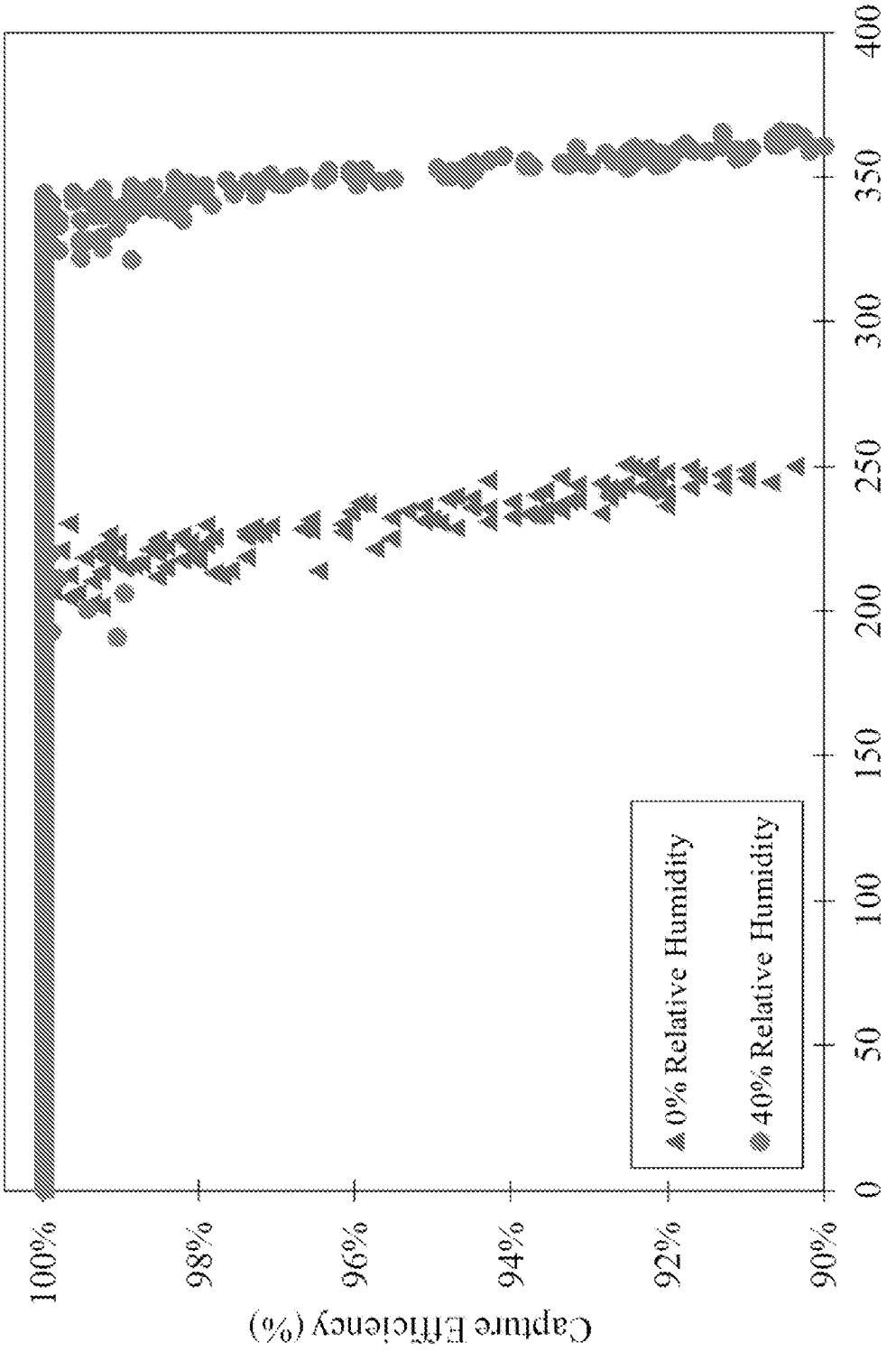

Capture Efficiency (%)
100%
98%
96%
94%
92%
90%
0
50
100
150
200
250
300
350
400
Capacity (ppb-h)
0% Relative Humidity
40% Relative Humidity

FIG. 2

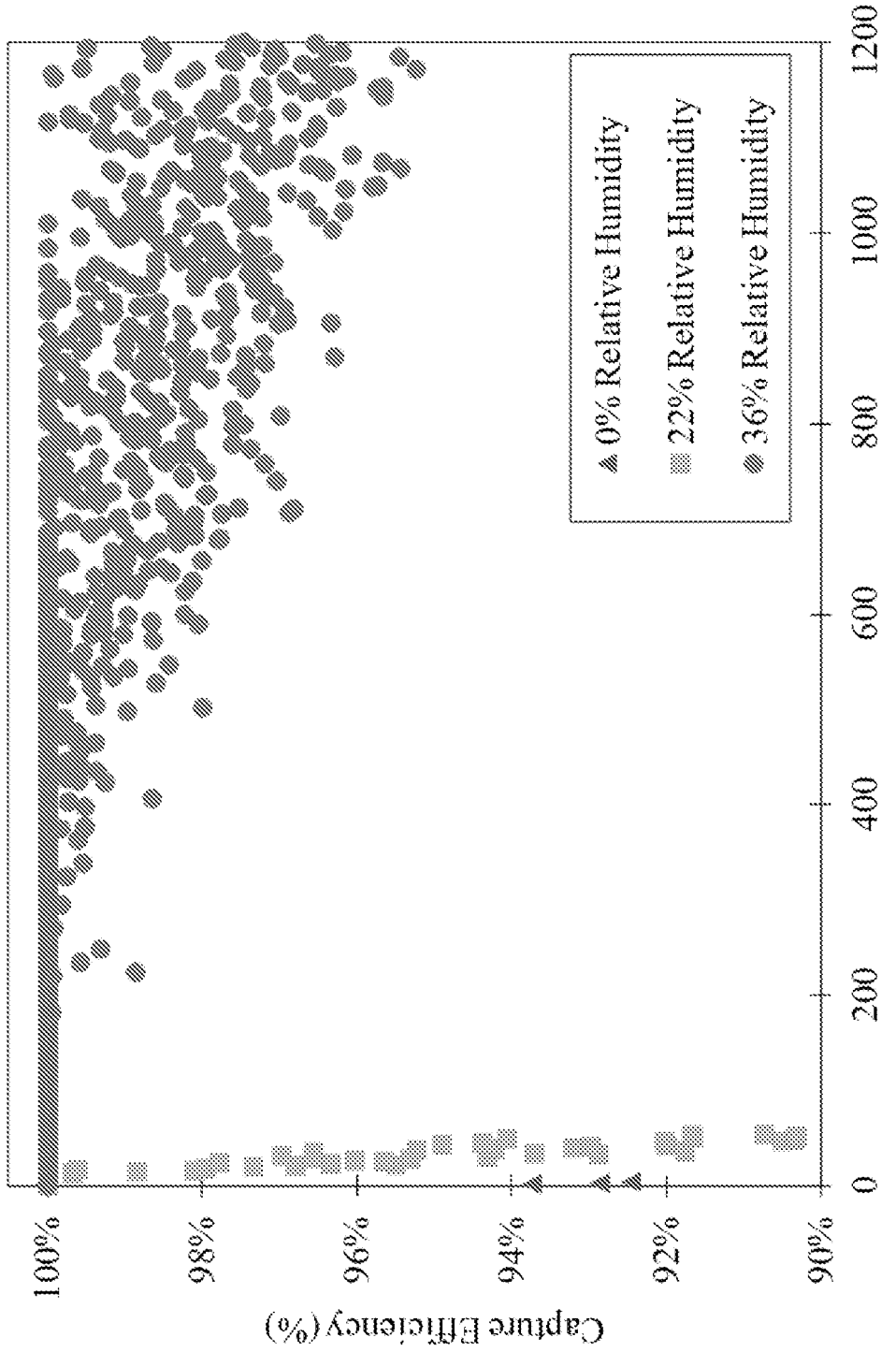

100%
98%
96%
94%
92%
90%
Capture Efficiency (%)
0
200
400
600
800
1000
1200
Capacity (ppb-h)
0% Relative Humidity
22% Relative Humidity
36% Relative Humidity

FIG. 3

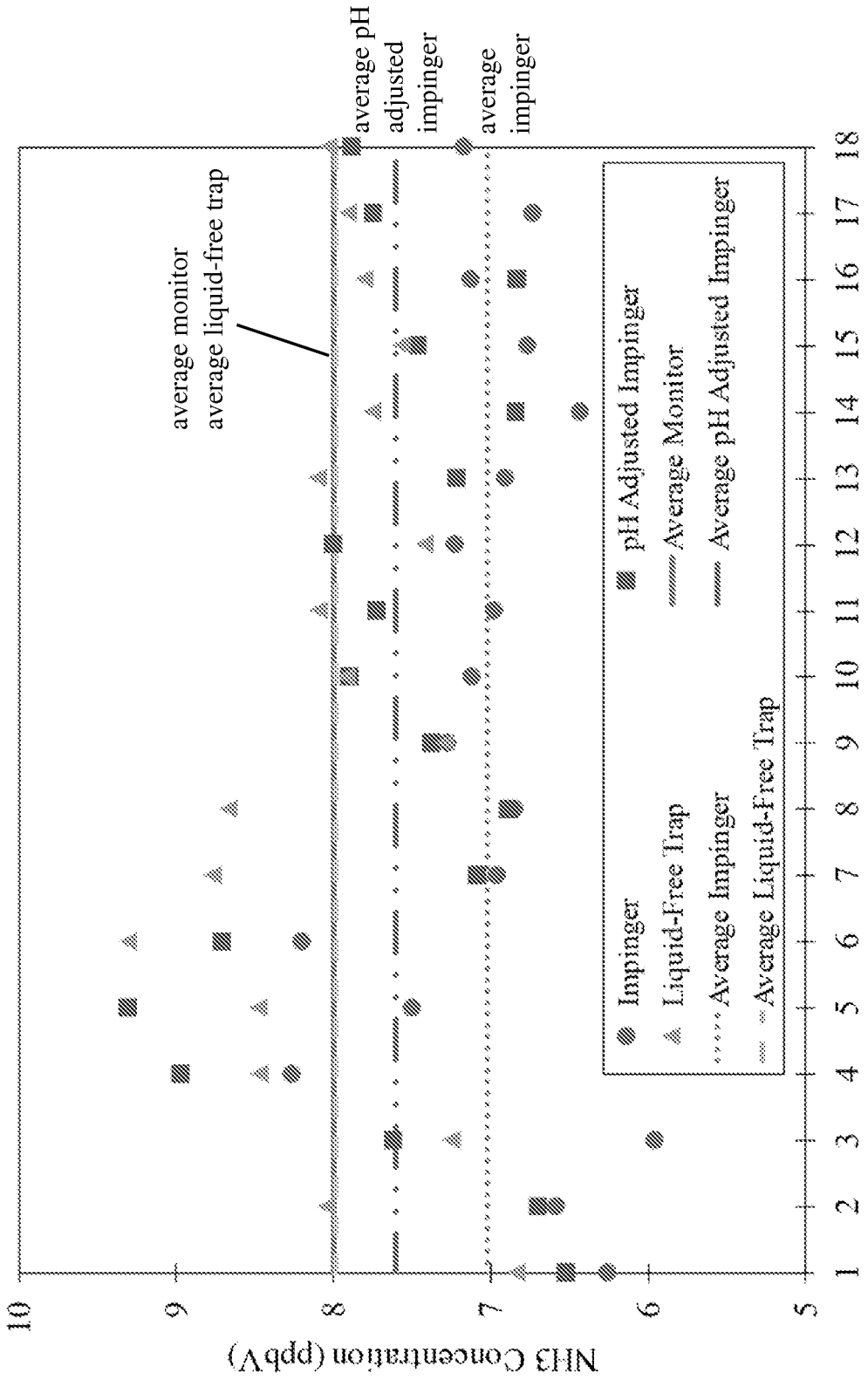

NH3 Concentration (ppbV)
10
9
8
7
6
5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
Test Number
average monitor
average liquid-free trap
average pH adjusted impinger
average impinger
Impinger
Liquid-Free Trap
Average Impinger
Average Liquid-Free Trap
pH Adjusted Impinger
Average Monitor
Average pH Adjusted Impinger

FIG. 4

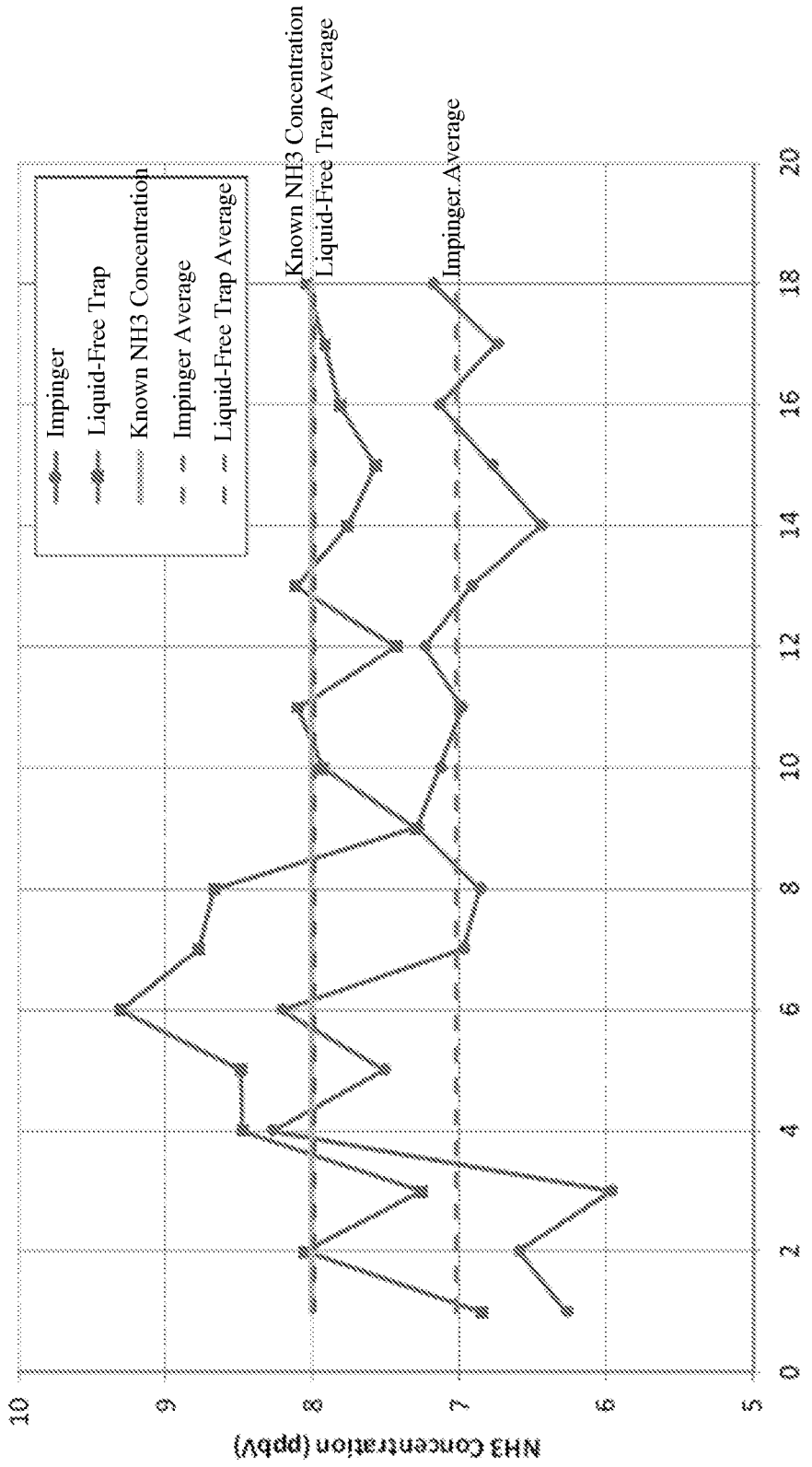

Impinger
Liquid-Free Trap
Known NH3 Concentration
Impinger Average
Liquid-Free Trap Average
Known NH3 Concentration
Liquid-Free Trap Average
Impinger Average
NH3 Concentration (ppbv)
10
9
8
7
6
5
0
2
4
6
8
10
12
14
16
18
20
Measurement Number

FIG. 5A

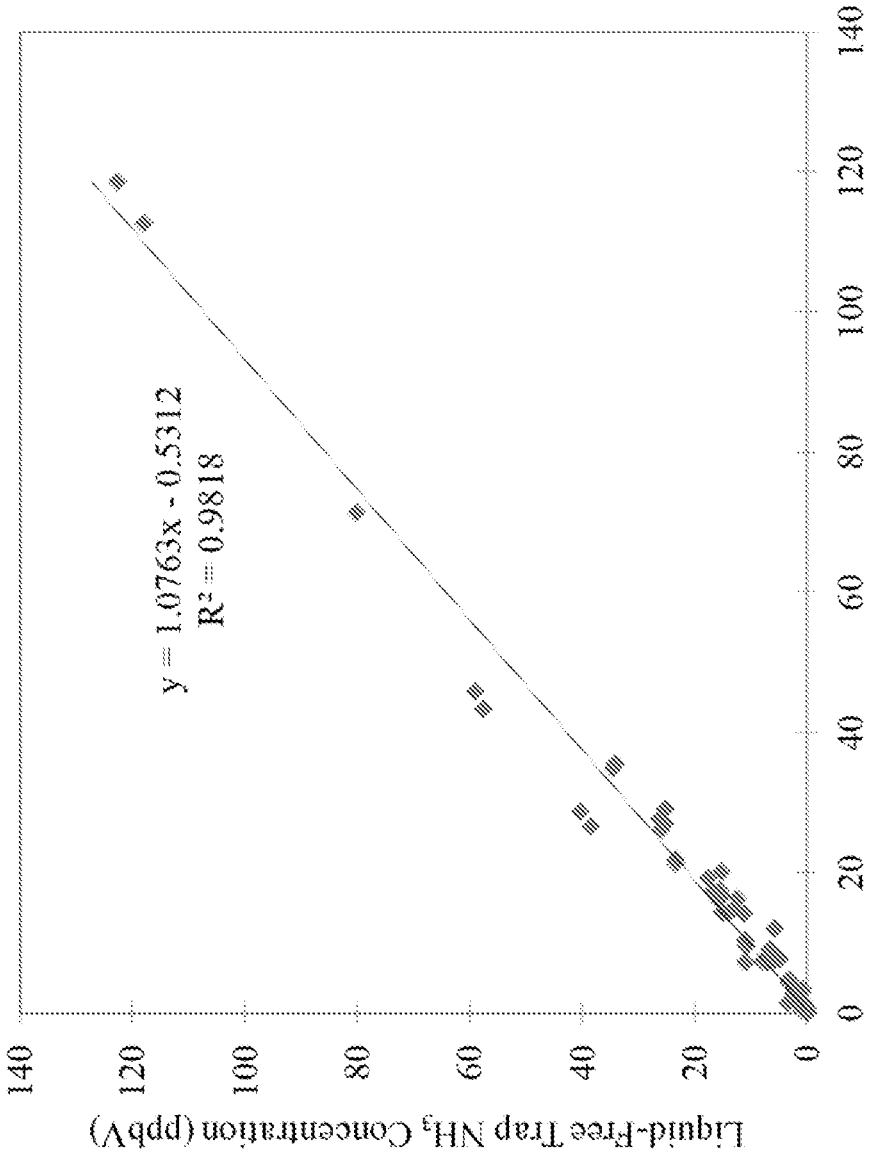

y = 1.0763x - 0.5312
R² = 0.9818
Liquid-Free Trap NH3 Concentration (ppbV)
Standard Impinger NH3 Concentration (ppbV)
0
20
40
60
80
100
120
140

FIG. 5B