

Table S3

The target measures across the speaking conditions, presented for male, female, and all speakers.

| | Conversational | | | | Less Clear | | | | More Clear | | | |
|----------------------------------|----------------|--------|--------|--------|------------|--------|--------|--------|------------|--------|---------|--------|
| | HC | | PD | | HC | | PD | | HC | | PD | |
| | M | SD | M | SD | M | SD | M | SD | M | SD | M | SD |
| All Speakers | | | | | | | | | | | | |
| Intelligibility (VAS) | 82.31 | 26.98 | 61.06 | 38.45 | 70.88 | 33.86 | 54.49 | 39.33 | 87.68 | 22.59 | 66.25 | 37.48 |
| Articulatory Precision (VAS) | 76.09 | 27.10 | 53.34 | 35.58 | 57.70 | 33.02 | 42.92 | 35.34 | 84.19 | 23.14 | 60.40 | 35.89 |
| Acoustic VSA (kHz ²) | 238.44 | 132.84 | 140.22 | 77.97 | 243.83 | 189.49 | 129.82 | 114.25 | 335.81 | 192.62 | 178.75 | 146.81 |
| Acoustic Distance (Hz) | 532.94 | 224.19 | 518.58 | 254.01 | 609.13 | 362.49 | 490.95 | 338.06 | 839.04 | 369.38 | 681.48 | 339.54 |
| F2 Slope (Hz/ms) | 4.11 | 1.71 | 3.48 | 1.91 | 4.16 | 2.07 | 3.35 | 1.90 | 3.31 | 1.15 | 2.91 | 1.16 |
| Kinematic VSA (mm ²) | 50.96 | 22.96 | 55.75 | 32.07 | 46.55 | 23.79 | 44.07 | 25.99 | 67.18 | 36.84 | 65.04 | 36.87 |
| Kinematic Distance (mm) | 11.64 | 3.80 | 10.24 | 5.93 | 11.71 | 4.83 | 9.07 | 5.28 | 15.63 | 4.64 | 13.91 | 7.12 |
| Kinematic Speed (mm/s) | 172.45 | 71.66 | 152.13 | 72.87 | 167.05 | 75.84 | 135.63 | 70.28 | 187.01 | 82.04 | 159.41 | 71.37 |
| Female Speakers | | | | | | | | | | | | |
| Intelligibility (VAS) | 86.31 | 23.34 | 83.51 | 25.39 | 72.43 | 32.99 | 77.73 | 29.46 | 91.17 | 19.36 | 89.91 | 19.68 |
| Articulatory Precision (VAS) | 83.51 | 21.10 | 77.77 | 24.36 | 59.50 | 32.59 | 67.00 | 29.01 | 87.72 | 20.77 | 84.87 | 21.69 |
| Acoustic VSA (kHz ²) | 350.01 | 91.60 | 220.67 | 73.73 | 384.85 | 170.77 | 222.94 | 172.19 | 483.87 | 165.42 | 332.19 | 192.78 |
| Acoustic Distance (Hz) | 649.28 | 241.91 | 732.90 | 211.90 | 804.25 | 378.90 | 846.39 | 360.57 | 1123.95 | 252.68 | 1031.16 | 259.59 |
| F2 Slope (Hz/ms) | 4.45 | 1.91 | 4.70 | 1.67 | 4.67 | 2.07 | 5.03 | 2.10 | 3.58 | 1.08 | 3.57 | 1.02 |
| Kinematic VSA (mm ²) | 43.82 | 15.36 | 54.88 | 20.79 | 38.25 | 17.81 | 43.68 | 14.04 | 58.93 | 31.09 | 72.63 | 37.88 |
| Kinematic Distance (mm) | 11.45 | 4.21 | 13.09 | 3.64 | 12.01 | 4.32 | 12.70 | 3.78 | 15.90 | 4.96 | 17.90 | 3.51 |
| Kinematic Speed (mm/s) | 166.69 | 52.64 | 194.46 | 62.98 | 149.16 | 44.34 | 176.41 | 64.34 | 167.23 | 66.46 | 180.54 | 44.75 |
| Male Speakers | | | | | | | | | | | | |
| Intelligibility (VAS) | 78.24 | 29.71 | 52.54 | 39.14 | 69.29 | 34.69 | 45.67 | 39.02 | 84.13 | 24.98 | 57.27 | 38.71 |
| Articulatory Precision (VAS) | 68.85 | 30.19 | 44.32 | 34.83 | 55.94 | 33.37 | 34.03 | 33.27 | 80.74 | 24.78 | 51.36 | 35.88 |
| Acoustic VSA (kHz ²) | 126.86 | 33.11 | 110.05 | 56.03 | 102.81 | 48.89 | 94.90 | 60.17 | 187.75 | 46.39 | 121.21 | 69.54 |
| Acoustic Distance (Hz) | 419.12 | 128.56 | 440.17 | 221.60 | 414.01 | 210.58 | 360.48 | 214.22 | 554.12 | 214.69 | 553.55 | 268.34 |
| F2 Slope (Hz/ms) | 3.78 | 1.43 | 3.03 | 1.80 | 3.65 | 1.96 | 2.73 | 1.39 | 3.05 | 1.17 | 2.67 | 1.11 |
| Kinematic VSA (mm ²) | 58.11 | 27.74 | 56.09 | 36.26 | 54.84 | 27.03 | 44.23 | 29.91 | 75.44 | 42.00 | 62.01 | 37.35 |
| Kinematic Distance (mm) | 11.81 | 3.38 | 9.13 | 6.29 | 11.41 | 5.32 | 7.63 | 5.12 | 15.36 | 4.34 | 12.31 | 7.58 |
| Kinematic Speed (mm/s) | 178.08 | 86.57 | 135.64 | 70.07 | 185.33 | 95.31 | 119.65 | 66.29 | 206.80 | 91.62 | 151.35 | 77.95 |