**Scenario 3, Metric $E_1$: Corrections: SP Data-Yes; SP Mix-Yes; Spectrum-Yes**

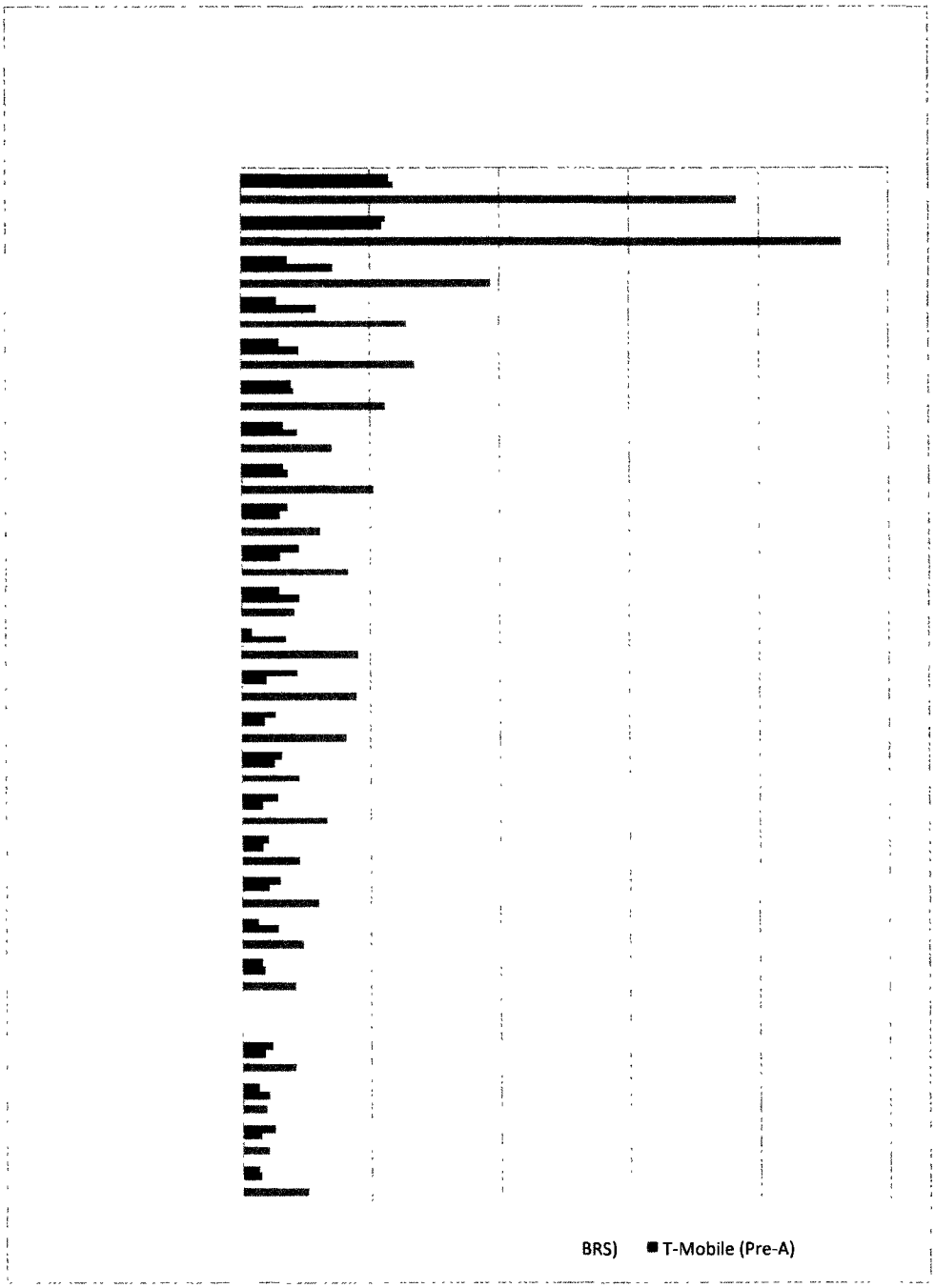


**Figure 7: Scenario 3, Metric $E_1$ (Corrections: SP Data-YES, SP Mix-YES, Spectrum-YES)**

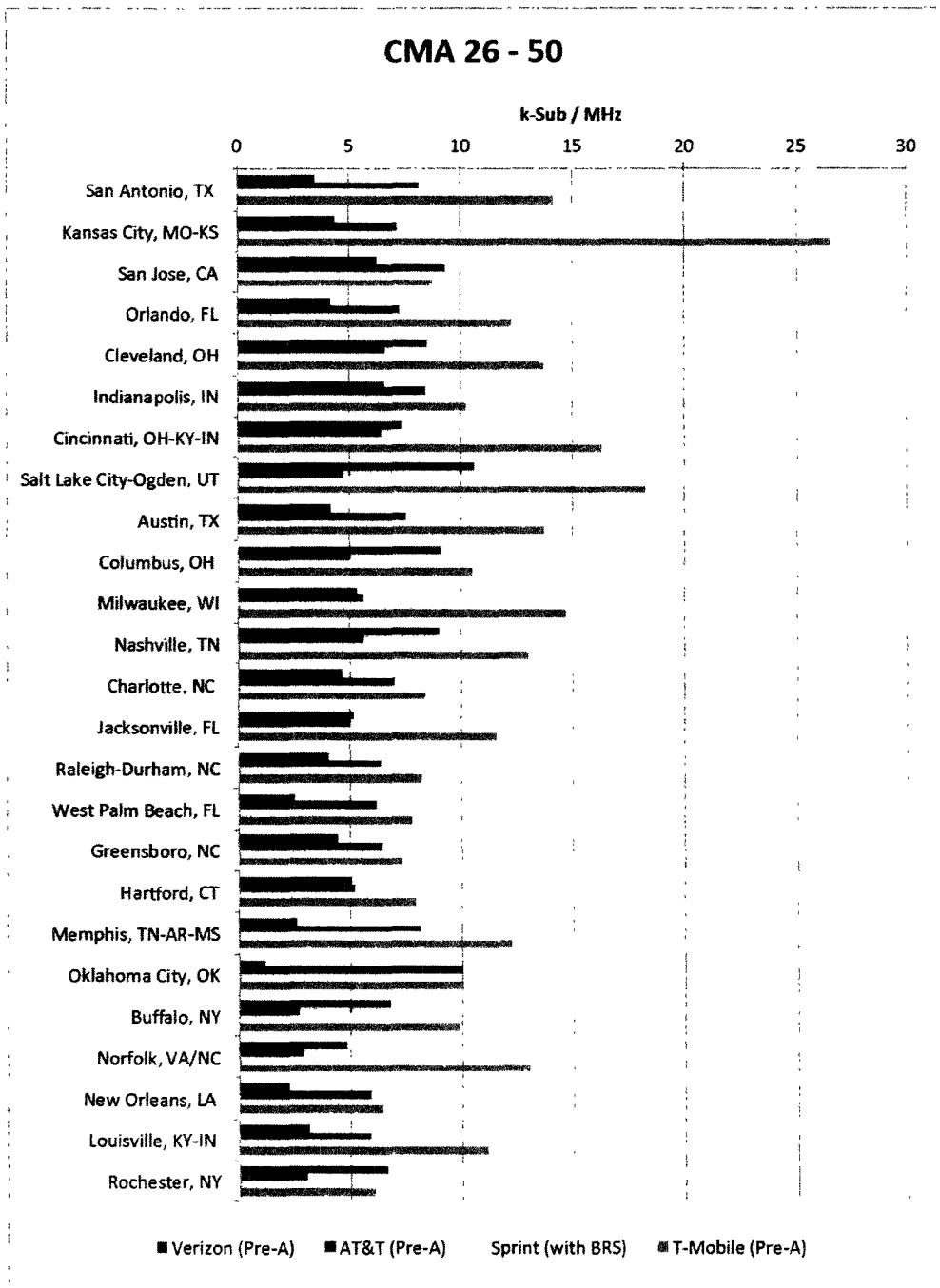


**Figure 8: Scenario 3, Metric $E_1$ (Corrections: SP Data-YES, SP Mix-YES, Spectrum-YES)**

***Corrections to Efficiency Metric $E_2$***

15. As with Metric $E_1$, we have also prepared a corrected analysis using Verizon Wireless' proposed Metric $E_2$. making the same three corrections as we made above for Metric $E_1$. The mathematics works as follows. Note that the calculations and parameters reflect the characteristics of each specific carrier. $S_i$ is the "Spectrum Share" metric for CMA number $i$, and $S_T$ is the total "Spectrum Share" across the top 50 U.S. CMAs. $C_i$ is the "Customer Share" metric for CMA number $i$, and $C_T$ is the total "Spectrum Share" across the top 50 U.S. CMAs. Thus:

$$S_i = W_i * F_i / R * F_T$$

$$C_i = M_i / P_i$$

and:

$$S_T = \Sigma^{49}{}_{i=1} (W_i * F_i * P_i) / \Sigma^{49}{}_{i=1} (R * F_T * P_i)$$

$$C_T = \Sigma^{49}{}_{i=1} M_i / \Sigma^{49}{}_{i=1} P_i$$

where:

$R$ = the relative subscriber correction factor for the carrier as compared to a reference value of 14.6 (the value for a 40%/60% smart/feature phone mix with a 35x smartphone multiplication factor with respect to a feature phone).

$$R_{Carrier} = B_{Carrier} / 14.6$$

$W_i$ = spectrum band value correction factor in CMA i

$F_i$ = carrier spectrum holdings in CMA number $i$ (MHz)

$F_T$ = the total available spectrum for carrier use in a CMA (= 399 MHz for all CMAs)[7]

$M_i$ = Number of subscribers served by the carrier in CMA number $i$

$P_i$ = total number of Pops in CMA number $i$

[7] This does not include PCS G-block spectrum that Sprint has not fully deployed.

$i$ = ordered index of top 50 U.S. CMAs (Puerto Rico excluded), 1=largest CMA. $E_{V,i}$ is the inferred Verizon efficiency metric for CMA number $i$, and $E_{V,T}$ is the inferred total Verizon efficiency metric across the top 50 U.S. CMAs.

$$E_{2,i} = S_i / C_i$$

$$E_{2,T} = S_T / C_T$$

16. As above for Metric $E_1$, the results of our corrected analysis under Metric $E_2$ are shown graphically in Figures 9-16 below. To each of the four scenarios is devoted two graphs, the first for the Top 25 CMAs (except Puerto Rico, where Verizon Wireless does not provide service using its own network) and the second for CMAs 26-50. The results can be tabulated as follows:

| Top 50 Markets -- BEST in Market | TMUS | Verizon | AT&T | Sprint |
|---|---|---|---|---|
| Scenario 0 (Verizon Wireless Uncorrected) | 2 | 25 | 22 | 0 |
| Scenario 1 (Smartphone Mix Correction Only) | 4 | 14 | 29 | 2 |
| Scenario 2 (SmartpPhone Mix and Usage Corrections Only) | 26 | 9 | 4 | 10 |
| Scenario 3 (Smartphone Mix and usage and Spectrum Corrections), | 34 | 2 | 3 | 10 |

**Table 9: Metric $E_2$ Best by Market (Top 50 CMAs, excluding Puerto Rico)**

17. The results here for Metric $E_2$ are fully consistent with those shown above for Metric $E_1$. Here again, *only* in the uncorrected market-by-market analysis does Verizon efficiency match that of the other carriers. Making only the correction for smartphone mix again puts Verizon Wireless well behind AT&T in the number of Top 50 markets in which it leads. Corrected further for smartphone *usage*, the analysis again shows that T-Mobile is the leader in far and away the most markets, with Verizon Wireless now coming in third, after Sprint. Finally, adding the correction for spectrum propagation characteristics is made, Verizon Wireless again

leads in only two of the Top 50 markets, putting it in last place among the four largest carriers. As before, though these results are disaggregated by market, and therefore are more revealing than the averaged results set forth in Table 2 above, both trend in the same direction.[8]

[8] Note that the T-Mobile and Verizon Wireless bars in Figures 11 and 12 match those from Table 5 in my original Declaration. For this scenario, the analysis is the same, but AT&T and Sprint have been added.

***Efficiency Plots***

**Scenario 0, Metric $E_2$: Corrections: SP Data-No; SP Mix-No; Spectrum-No**

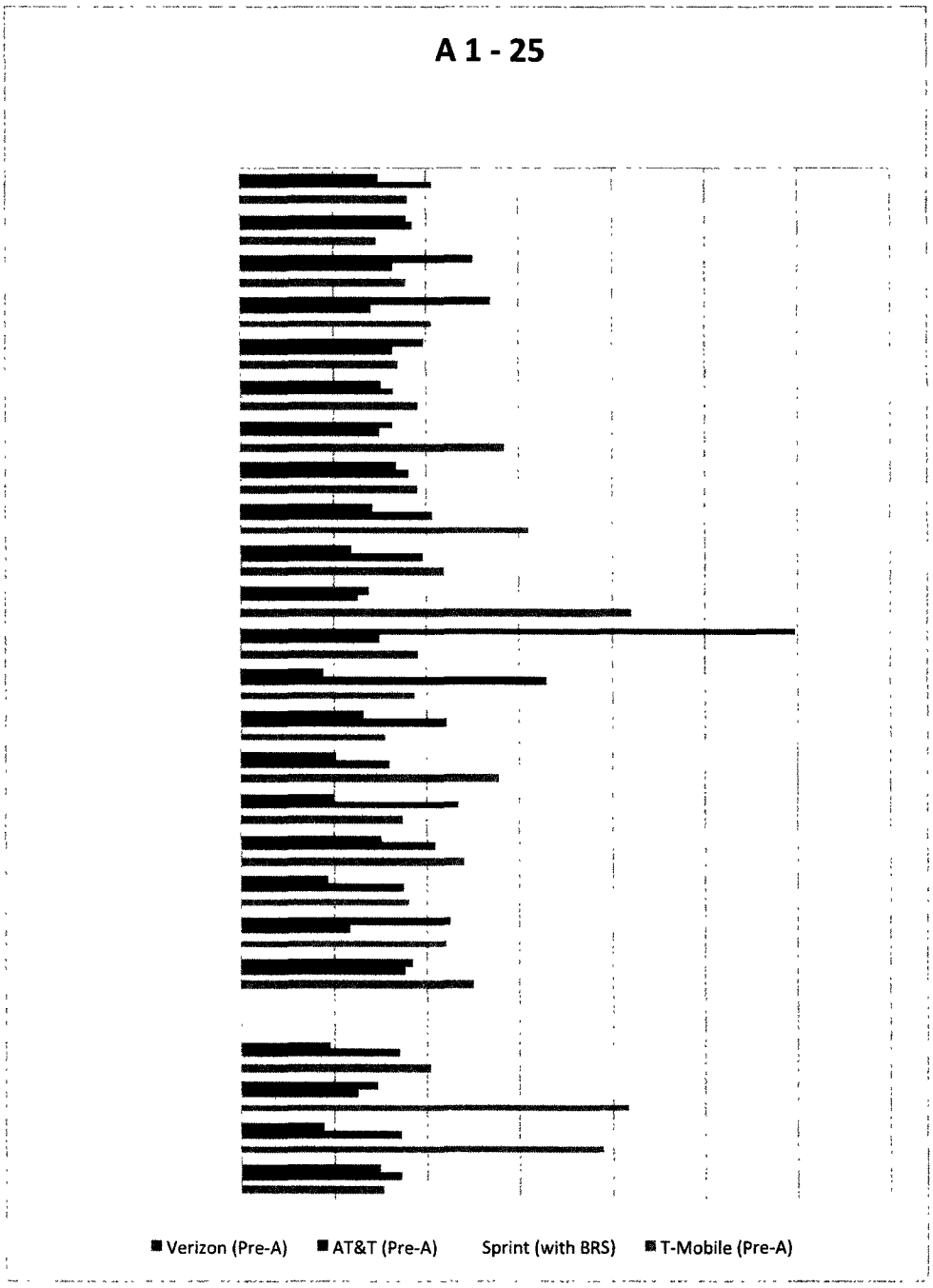


**Figure 9: Scenario 0, Metric $E_2$ (Corrections: SP Data-NO, SP Mix-NO, Spectrum-NO) (smaller is better)**

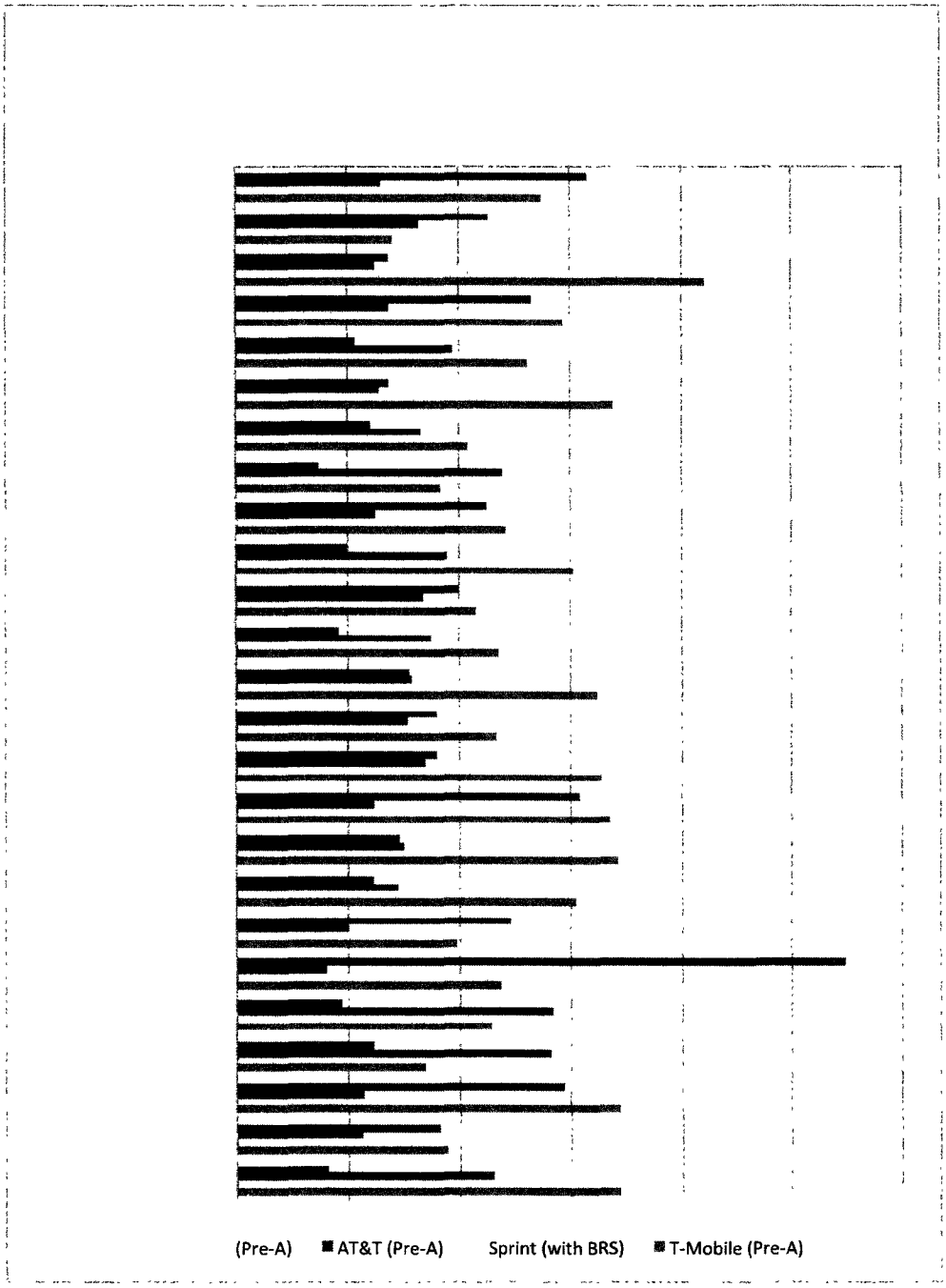


**Figure 10: Scenario 0, Metric $E_2$ (Corrections: SP Data-NO, SP Mix-NO, Spectrum-NO) (smaller is better)**

**Scenario 1, Metric $E_2$: Corrections: SP Data-No; SP Mix-Yes; Spectrum-No**

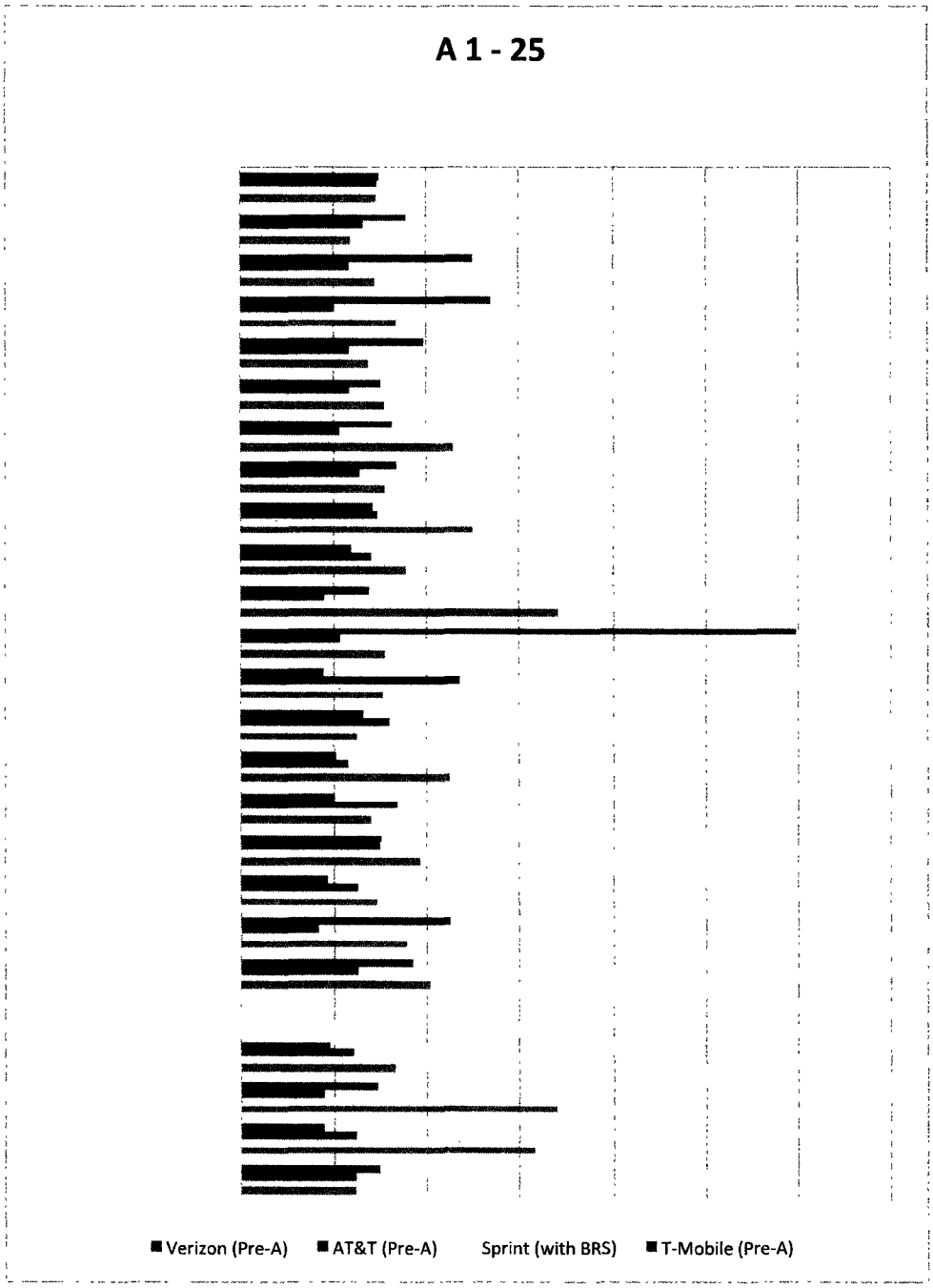


**Figure 11: Scenario 1, Metric $E_2$ (Corrections: SP Data-NO, SP Mix-YES, Spectrum-NO) (smaller is better)**

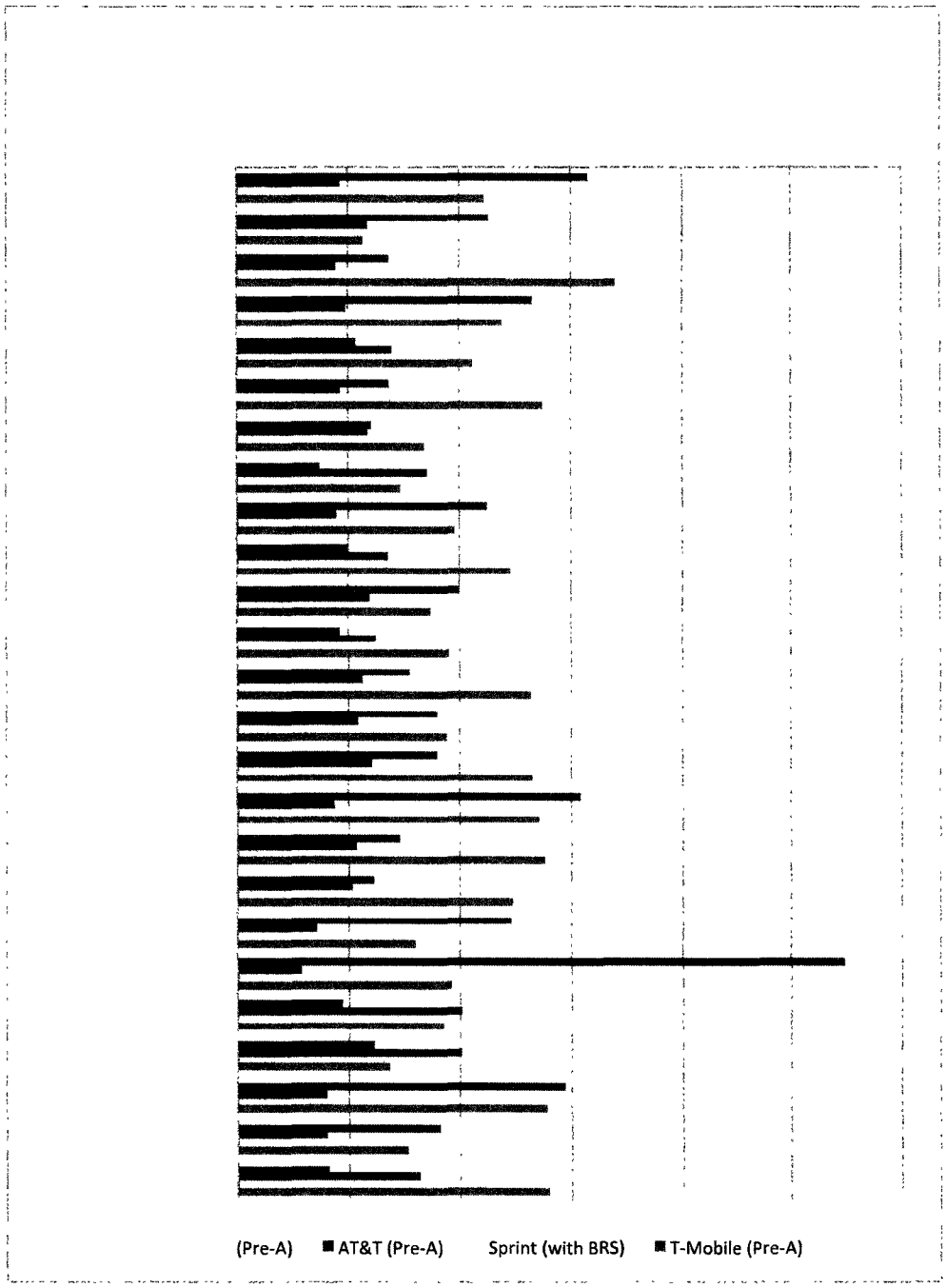


**Figure 12: Scenario 1, Metric $E_2$ (Corrections: SP Data-NO, SP Mix-YES, Spectrum-NO) (smaller is better)**

**Scenario 2, Metric $E_2$: Corrections: SP Data-Yes; SP Mix-Yes; Spectrum-No**

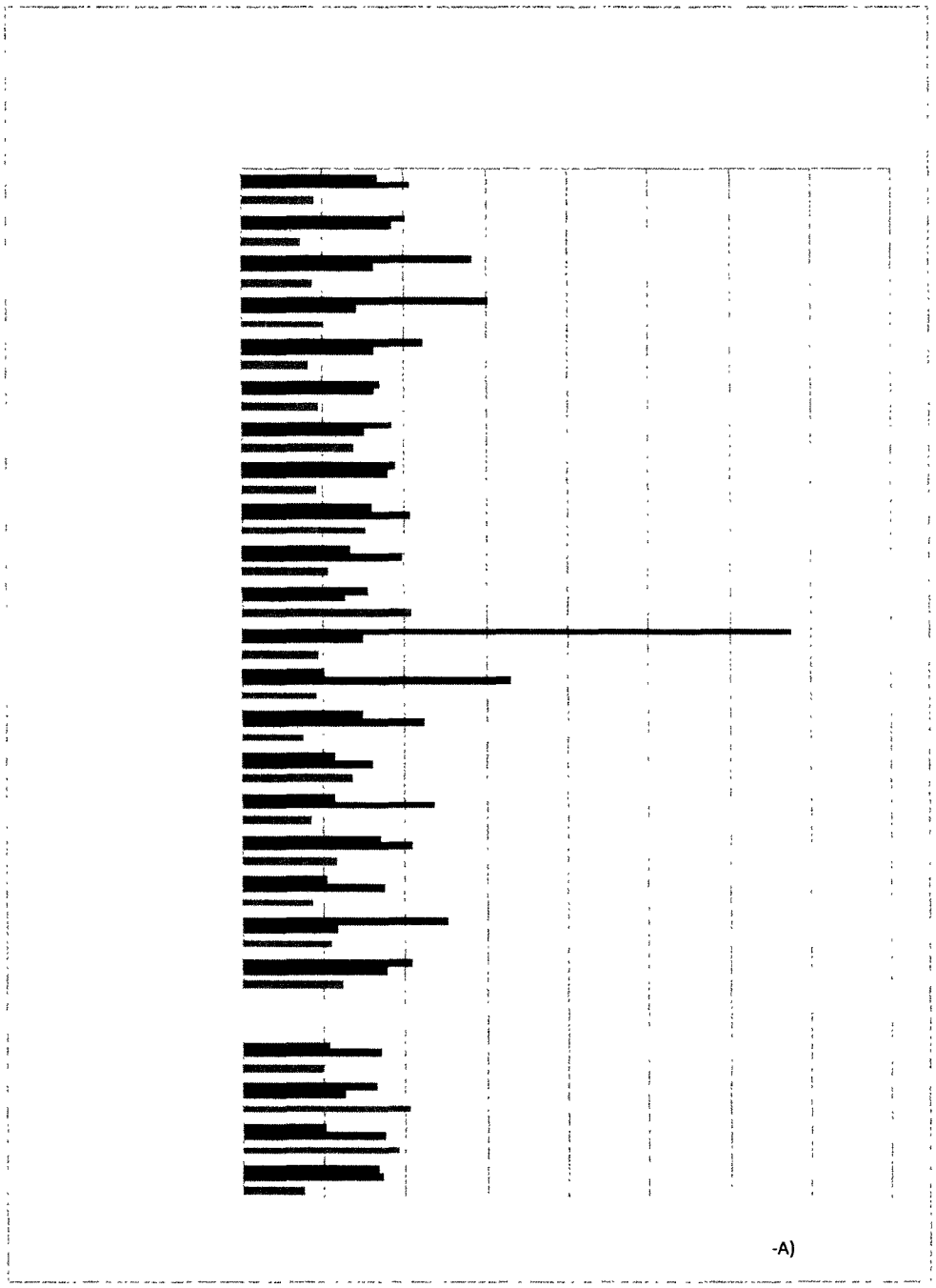


**Figure 13: Scenario 2, Metric $E_2$ (Corrections: SP Data-YES, SP Mix-YES, Spectrum-NO) (smaller is better)**

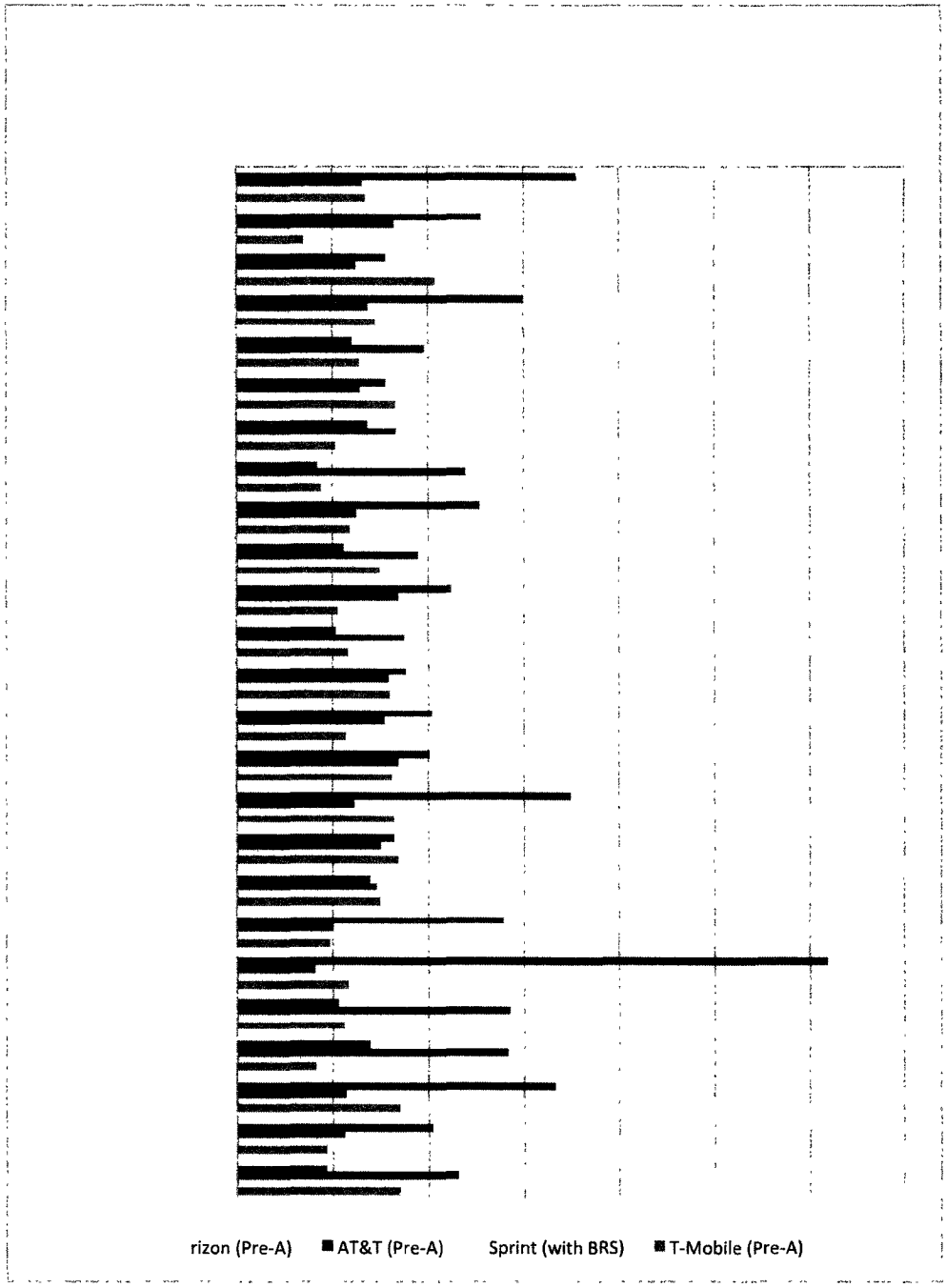


**Figure 14: Scenario 2, Metric $E_2$ (Corrections: SP Data-YES, SP Mix-YES, Spectrum-NO) (smaller is better)**

**Scenario 3, Metric $E_2$: Corrections: SP Data-Yes; SP Mix-Yes; Spectrum-Yes**

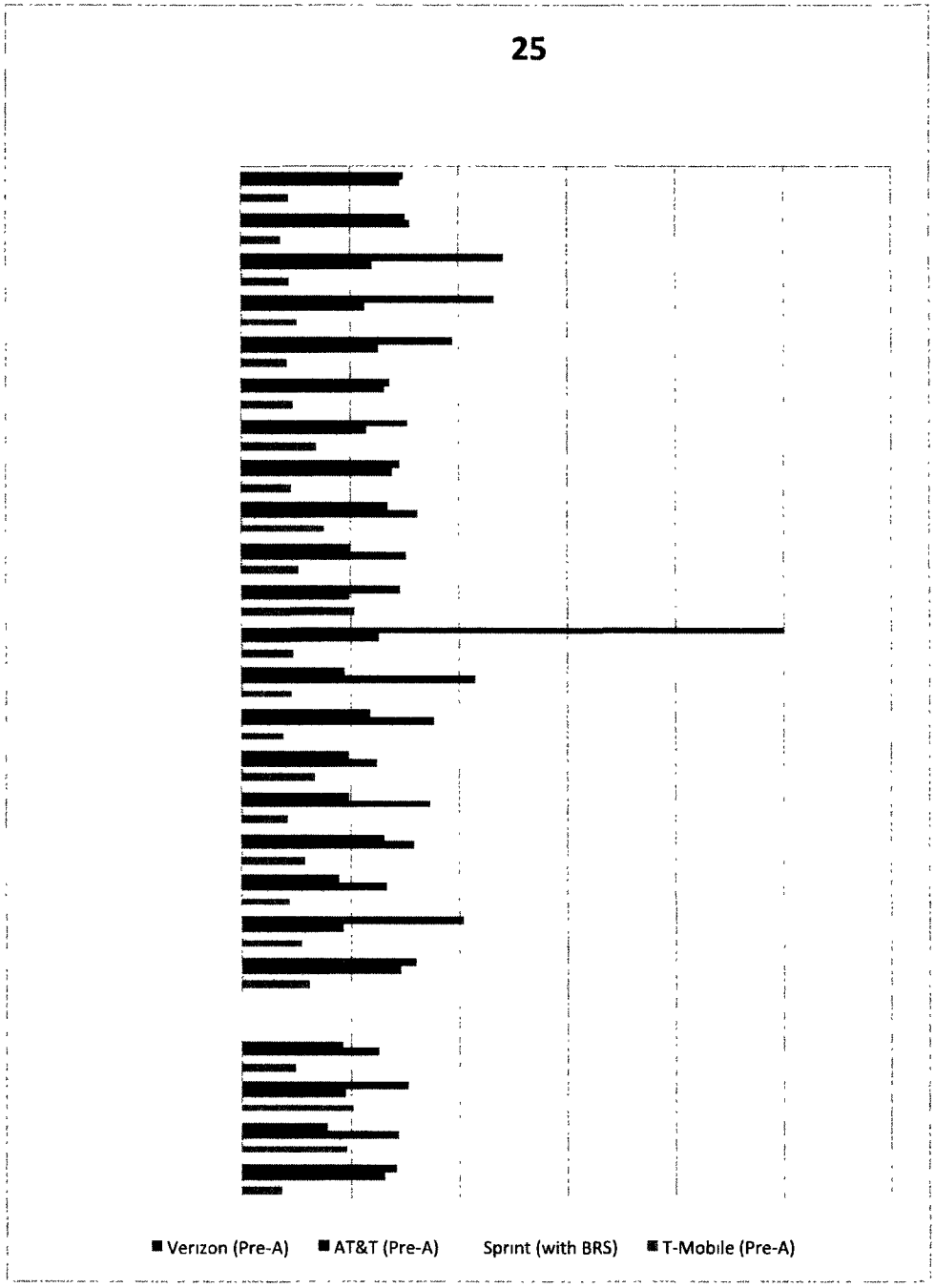


**Figure 15: Scenario 3, Metric $E_2$ (Corrections: SP Data-YES, SP Mix-YES, Spectrum-YES) (smaller is better)**

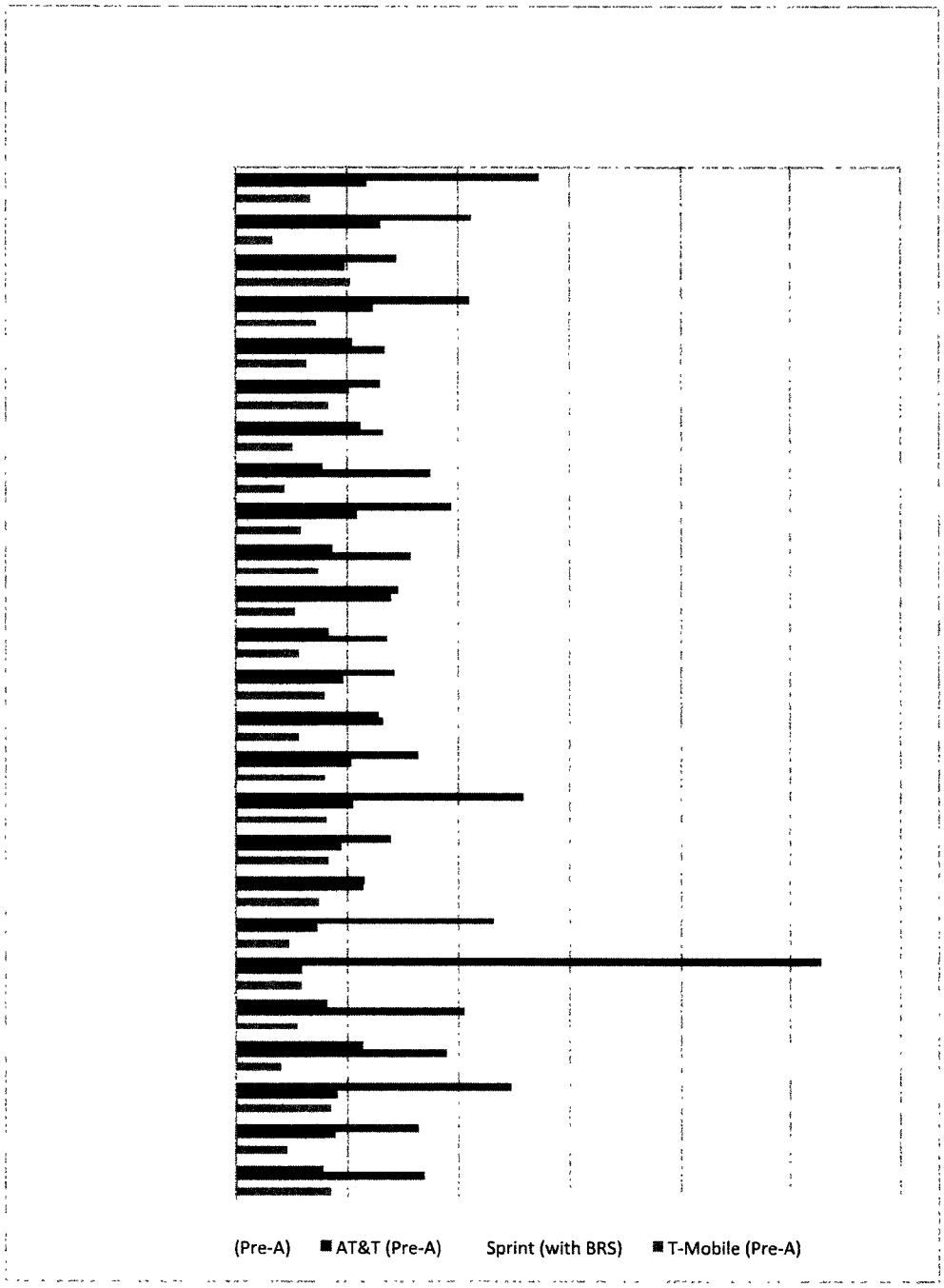


**Figure 16: Scenario 3, Metric $E_2$ (Corrections: SP Data-YES, SP Mix-YES, Spectrum-YES) (smaller is better)**

**Conclusion**

18. In summary, when correct comparisons are made, instead of the incomplete and therefore misleading ones presented by Applicants, it becomes clear that Verizon Wireless' claims of greater spectrum efficiency are simply wrong, and that Verizon Wireless is not a leader, but lags the industry in wringing the maximum use out of its spectrum. This is true under either metric of network operator efficiency: as measured by either customer connections per MHz of spectrum or the ratio of operator spectrum share to customer connections share. And it is true when Verizon Wireless' analysis is corrected for smartphone mix alone, for smartphone mix plus smartphone usage, or for both smartphone corrections plus spectrum differences.

[SIGNATURE ON NEXT PAGE]

Pursuant to 28 U.S.C. § 1746, I declare under penalty of perjury under the laws of the United States that the foregoing is true and correct to the best of my knowledge, information, and belief. Executed this 26th day of May, 2012.

Dennis A. Roberson

# REFERENCES

[1] "In the Matter of Application of Cellco Partnership d/b/a Verizon Wireless and SpectrumCo LLC For Consent To Assign Licenses and Application of Cellco Partnership d/b/a Verizon Wireless and Cox TMI Wireless, LLC For Consent To Assign Licenses"; WT Docket No. 12-4; PETITION TO DENY OF T-MOBILE, USA, INC.; February 21, 2012.

[2] "Cisco Visual Networking Index: Global Mobile Data Traffic Forecast Update, 2011–2016," *Cisco White Paper*, 2012.

[3] "In the Matter of Application of Cellco Partnership d/b/a Verizon Wireless and SpectrumCo, LLC For Consent To Assign Licenses Application of Cellco Partnership d/b/a Verizon Wireless and Cox TMI Wireless, LLC For Consent To Assign Licenses;" WT Docket No. 12-4; JOINT OPPOSITION TO PETITIONS TO DENY AND COMMENTS

[4] "Telecom, Cable and Satellite, Spectrum and Competition Overview," J.P.Morgan, 5 March 2012.

[5] "Confessions of an iPhone Data Hog," *Wall Street Journal*, 27 January 2012.

# APPENDIX

In the tables that follow, market share data is taken from "Q42011 Market Share Data," provided by **[***BEGIN CONFIDENTIAL***]** **[***END CONFIDENTIAL***]** to T-Mobile. Spectrum holdings information is taken from information assembled and prepared by T-Mobile based on FCC records.

## *T-Mobile Data*

155,339,399 Total # Subs: 20,250,632

| | | | Market Share | # Subs |
|---|---|---|---|---|
| 1 | Los Angeles-Long Beach/Anaheim-CA | 17,174,570 | 13.8% | 2,370,669 |
| 2 | New York, NY-NJ/Nassau-Suffolk,NY/Newark | 16,808,740 | 17.0% | 2,864,344 |
| 3 | Chicago, IL | 8,507,569 | 16.9% | 1,437,039 |
| 4 | Dallas-Fort Worth, TX | 6,557,576 | 12.1% | 794,547 |
| 5 | Houston, TX | 5,637,211 | 20.6% | 1,160,814 |
| 6 | Philadelphia, PA | 5,289,675 | 13.1% | 692,813 |
| 7 | Atlanta, GA | 4,914,273 | 12.4% | 608,269 |
| 8 | Washington, DC-MD-VA | 4,809,725 | 10.5% | 506,339 |
| 9 | Detroit/Ann Arbor, MI | 4,733,459 | 9.7% | 459,276 |
| 10 | Boston-Lowell-Brockton-Lawrence-MANH | 4,508,380 | 11.4% | 514,959 |
| 11 | San Francisco-Oakland, CA | 4,375,435 | 8.3% | 364,256 |
| 12 | Miami-Fort Lauderdale-Hollywood, FL | 4,302,210 | 15.6% | 673,028 |
| 13 | Phoenix, AZ | 4,087,980 | 16.0% | 654,379 |
| 14 | Minneapolis-St. Paul, MN-WI | 3,133,944 | 19.3% | 603,311 |
| 15 | San Diego, CA | 3,088,346 | 11.7% | 361,358 |
| 16 | Denver-Boulder, CO | 2,804,706 | 14.4% | 404,285 |
| 17 | Baltimore, MD | 2,655,604 | 10.5% | 278,032 |
| 18 | Seattle-Everett, WA | 2,652,469 | 16.6% | 440,790 |
| 19 | St. Louis, MO-IL | 2,636,325 | 9.1% | 239,761 |
| 20 | Tampa-St. Petersburg, FL | 2,593,519 | 13.0% | 336,124 |
| 21 | San Juan-Caguas, PR | | | 0 |
| 22 | Portland, OR-WA | 2,119,028 | 12.3% | 260,160 |
| 23 | Sacramento, CA | 1,973,687 | 7.8% | 154,102 |
| 24 | Pittsburgh, PA | 1,959,627 | 7.7% | 151,038 |
| 25 | Las Vegas, NV | 1,926,570 | 16.3% | 313,992 |
| 26 | San Antonio, TX | 1926040 | 10.9% | 210,221 |
| 27 | Kansas City, MO-KS | 1867083 | 17.6% | 328,440 |
| 28 | San Jose, CA | 1813429 | 8.3% | 150,969 |
| 29 | Orlando, FL | 1787599 | 12.3% | 220,131 |
| 30 | Cleveland, OH | 1781739 | 10.2% | 181,831 |
| 31 | Indianapolis, IN | 1715519 | 7.1% | 121,525 |
| 32 | Cincinnati, OH-KY-IN | 1689049 | 9.5% | 161,056 |
| 33 | Salt Lake City-Ogden, UT | 1654325 | 19.1% | 315,808 |
| 34 | Austin, TX | 1641645 | 12.4% | 203,094 |
| 35 | Columbus, OH | 1580339 | 9.9% | 155,922 |
| 36 | Milwaukee, WI | 1568884 | 6.9% | 108,876 |
| 37 | Nashville-Davidson, TN | 1521132 | 6.4% | 96,683 |
| 38 | Charlotte-Gastonia, NC | 1349794 | 6.1% | 82,907 |
| 39 | Jacksonville, FL | 1339750 | 12.8% | 171,722 |
| 40 | Raleigh-Durham, NC | 1333905 | 6.1% | 81,086 |
| 41 | West Palm Beach-Boca Raton, FL | 1290147 | 9.0% | 115,518 |
| 42 | Greensboro-Winston-Salem-High Point, NC | 1237144 | 5.8% | 72,286 |
| 43 | Hartford-New Britain-Bristol, CT | 1200820 | 8.2% | 98,400 |
| 44 | Memphis, TN-AR-MS | 1197246 | 10.1% | 120,981 |
| 45 | Oklahoma City, OK | 1193409 | 10.5% | 125,183 |
| 46 | Buffalo, NY | 1123559 | 8.7% | 98,185 |
| 47 | Norfolk-Virginia Beach-Portsmouth, VA/NC | 1099797 | 11.7% | 129,102 |
| 48 | New Orleans, LA | 1092333 | 6.5% | 71,363 |
| 49 | Louisville, KY-IN | 1046107 | 10.5% | 110,362 |
| 50 | Rochester, NY | 1037977 | 7.3% | 75,295 |

| | | Pre-Acquisition Spectrum Holdings | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 700 MHz | Cellular | SMR | PCS | AWS | BRS | Other | TOTAL |
| 1 | Los Angeles-Long Beach/Anaheim-CA | 0.0 | 0.0 | 0.0 | 20.0 | 30.0 | 0.0 | 0.0 | 50.0 |
| 2 | New York, NY-NJ/Nassau-Suffolk,NY/Newark | 0.0 | 0.0 | 0.0 | 20.0 | 30.0 | 0.0 | 0.0 | 50.0 |
| 3 | Chicago, IL | 0.0 | 0.0 | 0.0 | 30.0 | 30.0 | 0.0 | 0.0 | 60.0 |
| 4 | Dallas-Fort Worth, TX | 0.0 | 0.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 50.0 |
| 5 | Houston, TX | 0.0 | 0.0 | 0.0 | 30.0 | 40.0 | 0.0 | 0.0 | 70.0 |
| 6 | Philadelphia, PA | 0.0 | 0.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 50.0 |
| 7 | Atlanta, GA | 0.0 | 0.0 | 0.0 | 30.0 | 40.0 | 0.0 | 0.0 | 70.0 |
| 8 | Washington, DC-MD-VA | 0.0 | 0.0 | 0.0 | 20.0 | 20.0 | 0.0 | 0.0 | 40.0 |
| 9 | Detroit/Ann Arbor, MI | 0.0 | 0.0 | 0.0 | 30.0 | 30.0 | 0.0 | 0.0 | 60.0 |
| 10 | Boston-Lowell-Brockton-Lawrence-MANH | 0.0 | 0.0 | 0.0 | 20.0 | 30.0 | 0.0 | 0.0 | 50.0 |
| 11 | San Francisco-Oakland, CA | 0.0 | 0.0 | 0.0 | 30.0 | 40.0 | 0.0 | 0.0 | 70.0 |
| 12 | Miami-Fort Lauderdale-Hollywood, FL | 0.0 | 0.0 | 0.0 | 20.0 | 40.0 | 0.0 | 0.0 | 60.0 |
| 13 | Phoenix, AZ | 0.0 | 0.0 | 0.0 | 30.0 | 30.0 | 0.0 | 0.0 | 60.0 |
| 14 | Minneapolis-St. Paul, MN-WI | 0.0 | 0.0 | 0.0 | 40.0 | 20.0 | 0.0 | 0.0 | 60.0 |
| 15 | San Diego, CA | 0.0 | 0.0 | 0.0 | 25.0 | 40.0 | 0.0 | 0.0 | 65.0 |
| 16 | Denver-Boulder, CO | 0.0 | 0.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 50.0 |
| 17 | Baltimore, MD | 0.0 | 0.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 50.0 |
| 18 | Seattle-Everett, WA | 0.0 | 0.0 | 0.0 | 30.0 | 30.0 | 0.0 | 0.0 | 60.0 |
| 19 | St. Louis, MO-IL | 0.0 | 0.0 | 0.0 | 30.0 | 10.0 | 0.0 | 0.0 | 40.0 |
| 20 | Tampa-St. Petersburg, FL | 0.0 | 0.0 | 0.0 | 25.0 | 40.0 | 0.0 | 0.0 | 65.0 |
| 21 | San Juan-Caguas, PR | 0.0 | 0.0 | 0.0 | 25.0 | 30.0 | 0.0 | 0.0 | 55.0 |
| 22 | Portland, OR-WA | 0.0 | 0.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 50.0 |
| 23 | Sacramento, CA | 0.0 | 0.0 | 0.0 | 25.0 | 40.0 | 0.0 | 0.0 | 65.0 |
| 24 | Pittsburgh, PA | 0.0 | 0.0 | 0.0 | 30.0 | 30.0 | 0.0 | 0.0 | 60.0 |
| 25 | Las Vegas, NV | 0.0 | 0.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 50.0 |
| 26 | San Antonio, TX | 0.0 | 0.0 | 0.0 | 30.0 | 30.0 | 0.0 | 0.0 | 60.0 |
| 27 | Kansas City, MO-KS | 0.0 | 0.0 | 0.0 | 40.0 | 10.0 | 0.0 | 0.0 | 50.0 |
| 28 | San Jose, CA | 0.0 | 0.0 | 0.0 | 30.0 | 40.0 | 0.0 | 0.0 | 70.0 |
| 29 | Orlando, FL | 0.0 | 0.0 | 0.0 | 32.5 | 40.0 | 0.0 | 0.0 | 72.5 |
| 30 | Cleveland, OH | 0.0 | 0.0 | 0.0 | 23.6 | 30.0 | 0.0 | 0.0 | 53.6 |
| 31 | Indianapolis, IN | 0.0 | 0.0 | 0.0 | 28.1 | 20.0 | 0.0 | 0.0 | 48.1 |
| 32 | Cincinnati, OH-KY-IN | 0.0 | 0.0 | 0.0 | 30.0 | 10.0 | 0.0 | 0.0 | 40.0 |
| 33 | Salt Lake City-Ogden, UT | 0.0 | 0.0 | 0.0 | 30.0 | 40.0 | 0.0 | 0.0 | 70.0 |
| 34 | Austin, TX | 0.0 | 0.0 | 0.0 | 30.0 | 30.0 | 0.0 | 0.0 | 60.0 |
| 35 | Columbus, OH | 0.0 | 0.0 | 0.0 | 30.0 | 30.0 | 0.0 | 0.0 | 60.0 |
| 36 | Milwaukee, WI | 0.0 | 0.0 | 0.0 | 20.0 | 10.0 | 0.0 | 0.0 | 30.0 |
| 37 | Nashville-Davidson, TN | 0.0 | 0.0 | 0.0 | 20.0 | 10.0 | 0.0 | 0.0 | 30.0 |
| 38 | Charlotte-Gastonia, NC | 0.0 | 0.0 | 0.0 | 20.0 | 20.0 | 0.0 | 0.0 | 40.0 |
| 39 | Jacksonville, FL | 0.0 | 0.0 | 0.0 | 30.0 | 30.0 | 0.0 | 0.0 | 60.0 |
| 40 | Raleigh-Durham, NC | 0.0 | 0.0 | 0.0 | 20.0 | 20.0 | 0.0 | 0.0 | 40.0 |
| 41 | West Palm Beach-Boca Raton, FL | 0.0 | 0.0 | 0.0 | 20.0 | 40.0 | 0.0 | 0.0 | 60.0 |
| 42 | Greensboro-Winston-Salem-High Point, NC | 0.0 | 0.0 | 0.0 | 20.0 | 20.0 | 0.0 | 0.0 | 40.0 |
| 43 | Hartford-New Britain-Bristol, CT | 0.0 | 0.0 | 0.0 | 20.0 | 30.0 | 0.0 | 0.0 | 50.0 |
| 44 | Memphis, TN-AR-MS | 0.0 | 0.0 | 0.0 | 30.0 | 10.0 | 0.0 | 0.0 | 40.0 |
| 45 | Oklahoma City, OK | 0.0 | 0.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 50.0 |
| 46 | Buffalo, NY | 0.0 | 0.0 | 0.0 | 30.0 | 10.0 | 0.0 | 0.0 | 40.0 |
| 47 | Norfolk-Virginia Beach-Portsmouth, VA/NC | 0.0 | 0.0 | 0.0 | 20.0 | 20.0 | 0.0 | 0.0 | 40.0 |
| 48 | New Orleans, LA | 0.0 | 0.0 | 0.0 | 25.0 | 20.0 | 0.0 | 0.0 | 45.0 |
| 49 | Louisville, KY-IN | 0.0 | 0.0 | 0.0 | 30.0 | 10.0 | 0.0 | 0.0 | 40.0 |
| 50 | Rochester, NY | 0.0 | 0.0 | 0.0 | 40.0 | 10.0 | 0.0 | 0.0 | 50.0 |

## *Verizon Data*

155,339,399 Total # Subs: 45,605,703

| | | | Market Share | # Subs |
|---|---|---|---|---|
| 1 | Los Angeles-Long Beach/Anaheim-CA | 17,174,570 | 30.7% | 5,267,194 |
| 2 | New York, NY-NJ/Nassau-Suffolk,NY/Newark | 16,808,740 | 33.3% | 5,604,981 |
| 3 | Chicago, IL | 8,507,569 | 20.1% | 1,714,156 |
| 4 | Dallas-Fort Worth, TX | 6,557,576 | 11.9% | 782,909 |
| 5 | Houston, TX | 5,637,211 | 20.1% | 1,130,526 |
| 6 | Philadelphia, PA | 5,289,675 | 32.7% | 1,727,483 |
| 7 | Atlanta, GA | 4,914,273 | 27.3% | 1,343,179 |
| 8 | Washington, DC-MD-VA | 4,809,725 | 32.4% | 1,558,510 |
| 9 | Detroit/Ann Arbor, MI | 4,733,459 | 31.1% | 1,473,950 |
| 10 | Boston-Lowell-Brockton-Lawrence-MANH | 4,508,380 | 40.8% | 1,837,444 |
| 11 | San Francisco-Oakland, CA | 4,375,435 | 25.0% | 1,092,887 |
| 12 | Miami-Fort Lauderdale-Hollywood, FL | 4,302,210 | 8.0% | 346,011 |
| 13 | Phoenix, AZ | 4,087,980 | 45.5% | 1,860,829 |
| 14 | Minneapolis-St. Paul, MN-WI | 3,133,944 | 37.6% | 1,178,100 |
| 15 | San Diego, CA | 3,088,346 | 32.8% | 1,012,709 |
| 16 | Denver-Boulder, CO | 2,804,706 | 39.2% | 1,099,591 |
| 17 | Baltimore, MD | 2,655,604 | 36.1% | 958,663 |
| 18 | Seattle-Everett, WA | 2,652,469 | 35.9% | 951,945 |
| 19 | St. Louis, MO-IL | 2,636,325 | 17.2% | 453,750 |
| 20 | Tampa-St. Petersburg, FL | 2,593,519 | 29.6% | 768,925 |
| 21 | San Juan-Caguas, PR | | | 0 |
| 22 | Portland, OR-WA | 2,119,028 | 34.9% | 738,693 |
| 23 | Sacramento, CA | 1,973,687 | 23.7% | 466,907 |
| 24 | Pittsburgh, PA | 1,959,627 | 48.3% | 947,327 |
| 25 | Las Vegas, NV | 1,926,570 | 22.6% | 434,454 |
| 26 | San Antonio, TX | 1926040 | 10.1% | 195,230 |
| 27 | Kansas City, MO-KS | 1867083 | 19.7% | 367,378 |
| 28 | San Jose, CA | 1813429 | 25.0% | 452,955 |
| 29 | Orlando, FL | 1787599 | 15.8% | 282,836 |
| 30 | Cleveland, OH | 1781739 | 53.2% | 947,579 |
| 31 | Indianapolis, IN | 1715519 | 32.2% | 552,362 |
| 32 | Cincinnati, OH-KY-IN | 1689049 | 45.4% | 766,180 |
| 33 | Salt Lake City-Ogden, UT | 1654325 | 37.6% | 622,090 |
| 34 | Austin, TX | 1641645 | 14.2% | 233,168 |
| 35 | Columbus, OH | 1580339 | 43.5% | 687,958 |
| 36 | Milwaukee, WI | 1568884 | 18.0% | 282,978 |
| 37 | Nashville-Davidson, TN | 1521132 | 41.7% | 634,216 |
| 38 | Charlotte-Gastonia, NC | 1349794 | 42.8% | 578,376 |
| 39 | Jacksonville, FL | 1339750 | 22.7% | 304,572 |
| 40 | Raleigh-Durham, NC | 1333905 | 37.3% | 496,949 |
| 41 | West Palm Beach-Boca Raton, FL | 1290147 | 15.5% | 200,255 |
| 42 | Greensboro-Winston-Salem-High Point, NC | 1237144 | 42.4% | 524,013 |
| 43 | Hartford-New Britain-Bristol, CT | 1200820 | 35.8% | 429,849 |
| 44 | Memphis, TN-AR-MS | 1197246 | 18.1% | 216,126 |
| 45 | Oklahoma City, OK | 1193409 | 9.2% | 110,334 |
| 46 | Buffalo, NY | 1123559 | 45.9% | 515,525 |
| 47 | Norfolk-Virginia Beach-Portsmouth, VA/NC | 1099797 | 45.2% | 497,461 |
| 48 | New Orleans, LA | 1092333 | 16.4% | 179,276 |
| 49 | Louisville, KY-IN | 1046107 | 21.2% | 221,673 |
| 50 | Rochester, NY | 1037977 | 53.5% | 555,240 |

| | | Pre-Acquisition Spectrum Holdings | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 700 MHz | Cellular | SMR | PCS | AWS | BRS | Other | TOTAL |
| 1 | Los Angeles-Long Beach/Anaheim-CA | 46.0 | 25.0 | 0.0 | 20.0 | 0.0 | 0.0 | 0.0 | 91.0 |
| 2 | New York, NY-NJ/Nassau-Suffolk,NY/Newark | 34.0 | 25.0 | 0.0 | 40.0 | 20.0 | 0.0 | 0.0 | 119.0 |
| 3 | Chicago, IL | 46.0 | 25.0 | 0.0 | 10.0 | 20.0 | 0.0 | 0.0 | 101.0 |
| 4 | Dallas-Fort Worth, TX | 34.0 | 0.0 | 0.0 | 30.0 | 0.0 | 0.0 | 0.0 | 64.0 |
| 5 | Houston, TX | 34.0 | 25.0 | 0.0 | 20.0 | 0.0 | 0.0 | 0.0 | 79.0 |
| 6 | Philadelphia, PA | 34.0 | 25.0 | 0.0 | 20.0 | 20.0 | 0.0 | 0.0 | 99.0 |
| 7 | Atlanta, GA | 34.0 | 25.0 | 0.0 | 10.0 | 20.0 | 0.0 | 0.0 | 89.0 |
| 8 | Washington, DC-MD-VA | 34.0 | 25.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 109.0 |
| 9 | Detroit/Ann Arbor, MI | 34.0 | 25.0 | 0.0 | 10.0 | 20.0 | 0.0 | 0.0 | 89.0 |
| 10 | Boston-Lowell-Brockton-Lawrence-MANH | 22.0 | 25.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 97.0 |
| 11 | San Francisco-Oakland, CA | 34.0 | 25.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 69.0 |
| 12 | Miami-Fort Lauderdale-Hollywood, FL | 46.0 | 0.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 96.0 |
| 13 | Phoenix, AZ | 22.0 | 50.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 82.0 |
| 14 | Minneapolis-St. Paul, MN-WI | 34.0 | 25.0 | 0.0 | 20.0 | 20.0 | 0.0 | 0.0 | 99.0 |
| 15 | San Diego, CA | 22.0 | 25.0 | 0.0 | 20.0 | 0.0 | 0.0 | 0.0 | 67.0 |
| 16 | Denver-Boulder, CO | 34.0 | 25.0 | 0.0 | 20.0 | 0.0 | 0.0 | 0.0 | 79.0 |
| 17 | Baltimore, MD | 34.0 | 25.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 109.0 |
| 18 | Seattle-Everett, WA | 22.0 | 25.0 | 0.0 | 20.0 | 0.0 | 0.0 | 0.0 | 67.0 |
| 19 | St. Louis, MO-IL | 22.0 | 25.0 | 0.0 | 10.0 | 20.0 | 0.0 | 0.0 | 77.0 |
| 20 | Tampa-St. Petersburg, FL | 34.0 | 25.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 109.0 |
| 21 | San Juan-Caguas, PR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22 | Portland, OR-WA | 22.0 | 25.0 | 0.0 | 20.0 | 0.0 | 0.0 | 0.0 | 67.0 |
| 23 | Sacramento, CA | 34.0 | 25.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 69.0 |
| 24 | Pittsburgh, PA | 22.0 | 25.0 | 0.0 | 20.0 | 20.0 | 0.0 | 0.0 | 87.0 |
| 25 | Las Vegas, NV | 22.0 | 25.0 | 0.0 | 20.0 | 0.0 | 0.0 | 0.0 | 67.0 |
| 26 | San Antonio, TX | 34.0 | 0.0 | 0.0 | 30.0 | 0.0 | 0.0 | 0.0 | 64.0 |
| 27 | Kansas City, MO-KS | 34.0 | 25.0 | 0.0 | 10.0 | 20.0 | 0.0 | 0.0 | 89.0 |
| 28 | San Jose, CA | 34.0 | 25.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 69.0 |
| 29 | Orlando, FL | 34.0 | 0.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 84.0 |
| 30 | Cleveland, OH | 34.0 | 50.0 | 0.0 | 10.0 | 20.0 | 0.0 | 0.0 | 114.0 |
| 31 | Indianapolis, IN | 34.0 | 25.0 | 0.0 | 10.0 | 20.0 | 0.0 | 0.0 | 89.0 |
| 32 | Cincinnati, OH-KY-IN | 46.0 | 25.0 | 0.0 | 20.0 | 20.0 | 0.0 | 0.0 | 111.0 |
| 33 | Salt Lake City-Ogden, UT | 22.0 | 25.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 57.0 |
| 34 | Austin, TX | 34.0 | 0.0 | 0.0 | 30.0 | 0.0 | 0.0 | 0.0 | 64.0 |
| 35 | Columbus, OH | 22.0 | 25.0 | 0.0 | 20.0 | 20.0 | 0.0 | 0.0 | 87.0 |
| 36 | Milwaukee, WI | 22.0 | 0.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 72.0 |
| 37 | Nashville-Davidson, TN | 22.0 | 25.0 | 0.0 | 10.0 | 20.0 | 0.0 | 0.0 | 77.0 |
| 38 | Charlotte-Gastonia, NC | 34.0 | 50.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 134.0 |
| 39 | Jacksonville, FL | 22.0 | 0.0 | 0.0 | 40.0 | 20.0 | 0.0 | 0.0 | 82.0 |
| 40 | Raleigh-Durham, NC | 34.0 | 50.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 134.0 |
| 41 | West Palm Beach-Boca Raton, FL | 46.0 | 0.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 96.0 |
| 42 | Greensboro-Winston-Salem-High Point, NC | 34.0 | 50.0 | 0.0 | 20.0 | 20.0 | 0.0 | 0.0 | 124.0 |
| 43 | Hartford-New Britain-Bristol, CT | 34.0 | 25.0 | 0.0 | 10.0 | 20.0 | 0.0 | 0.0 | 89.0 |
| 44 | Memphis, TN-AR-MS | 34.0 | 25.0 | 0.0 | 10.0 | 20.0 | 0.0 | 0.0 | 89.0 |
| 45 | Oklahoma City, OK | 46.0 | 25.0 | 0.0 | 30.0 | 0.0 | 0.0 | 0.0 | 101.0 |
| 46 | Buffalo, NY | 22.0 | 25.0 | 0.0 | 20.0 | 20.0 | 0.0 | 0.0 | 87.0 |
| 47 | Norfolk-Virginia Beach-Portsmouth, VA/NC | 22.0 | 50.0 | 0.0 | 20.0 | 20.0 | 0.0 | 0.0 | 112.0 |
| 48 | New Orleans, LA | 22.0 | 25.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 97.0 |
| 49 | Louisville, KY-IN | 22.0 | 25.0 | 0.0 | 10.0 | 20.0 | 0.0 | 0.0 | 77.0 |
| 50 | Rochester, NY | 34.0 | 25.0 | 0.0 | 10.0 | 20.0 | 0.0 | 0.0 | 89.0 |

## *AT&T Data*

155,339,399 Total # Subs: 47,237,753

| | | | Market Share | # Subs |
|---|---|---|---|---|
| 1 | Los Angeles-Long Beach/Anaheim-CA | 17,174,570 | 29.0% | 4,973,870 |
| 2 | New York, NY-NJ/Nassau-Suffolk,NY/Newark | 16,808,740 | 24.6% | 4,142,251 |
| 3 | Chicago, IL | 8,507,569 | 28.6% | 2,434,486 |
| 4 | Dallas-Fort Worth, TX | 6,557,576 | 46.6% | 3,057,656 |
| 5 | Houston, TX | 5,637,211 | 32.2% | 1,813,583 |
| 6 | Philadelphia, PA | 5,289,675 | 31.1% | 1,644,241 |
| 7 | Atlanta, GA | 4,914,273 | 35.1% | 1,725,431 |
| 8 | Washington, DC-MD-VA | 4,809,725 | 29.2% | 1,406,045 |
| 9 | Detroit/Ann Arbor, MI | 4,733,459 | 23.2% | 1,097,915 |
| 10 | Boston-Lowell-Brockton-Lawrence-MANH | 4,508,380 | 28.5% | 1,284,499 |
| 11 | San Francisco-Oakland, CA | 4,375,435 | 44.2% | 1,933,333 |
| 12 | Miami-Fort Lauderdale-Hollywood, FL | 4,302,210 | 33.1% | 1,424,730 |
| 13 | Phoenix, AZ | 4,087,980 | 15.2% | 623,020 |
| 14 | Minneapolis-St. Paul, MN-WI | 3,133,944 | 21.4% | 671,428 |
| 15 | San Diego, CA | 3,088,346 | 31.3% | 967,403 |
| 16 | Denver-Boulder, CO | 2,804,706 | 24.6% | 690,837 |
| 17 | Baltimore, MD | 2,655,604 | 25.3% | 671,248 |
| 18 | Seattle-Everett, WA | 2,652,469 | 30.1% | 799,714 |
| 19 | St. Louis, MO-IL | 2,636,325 | 40.9% | 1,077,049 |
| 20 | Tampa-St. Petersburg, FL | 2,593,519 | 24.1% | 625,204 |
| 21 | San Juan-Caguas, PR | | | 0 |
| 22 | Portland, OR-WA | 2,119,028 | 34.0% | 720,253 |
| 23 | Sacramento, CA | 1,973,687 | 43.8% | 863,818 |
| 24 | Pittsburgh, PA | 1,959,627 | 24.6% | 481,919 |
| 25 | Las Vegas, NV | 1,926,570 | 30.6% | 590,376 |
| 26 | San Antonio, TX | 1926040 | 38.3% | 736,730 |
| 27 | Kansas City, MO-KS | 1867083 | 28.9% | 539,631 |
| 28 | San Jose, CA | 1813429 | 44.2% | 801,283 |
| 29 | Orlando, FL | 1787599 | 36.5% | 653,166 |
| 30 | Cleveland, OH | 1781739 | 20.5% | 365,563 |
| 31 | Indianapolis, IN | 1715519 | 36.9% | 632,567 |
| 32 | Cincinnati, OH-KY-IN | 1689049 | 22.1% | 372,677 |
| 33 | Salt Lake City-Ogden, UT | 1654325 | 25.1% | 416,051 |
| 34 | Austin, TX | 1641645 | 43.9% | 719,862 |
| 35 | Columbus, OH | 1580339 | 22.5% | 355,346 |
| 36 | Milwaukee, WI | 1568884 | 25.4% | 398,029 |
| 37 | Nashville-Davidson, TN | 1521132 | 28.7% | 435,873 |
| 38 | Charlotte-Gastonia, NC | 1349794 | 24.8% | 334,915 |
| 39 | Jacksonville, FL | 1339750 | 36.0% | 481,832 |
| 40 | Raleigh-Durham, NC | 1333905 | 23.1% | 307,723 |
| 41 | West Palm Beach-Boca Raton, FL | 1290147 | 39.7% | 512,125 |
| 42 | Greensboro-Winston-Salem-High Point, NC | 1237144 | 22.6% | 279,691 |
| 43 | Hartford-New Britain-Bristol, CT | 1200820 | 36.6% | 438,966 |
| 44 | Memphis, TN-AR-MS | 1197246 | 46.1% | 552,521 |
| 45 | Oklahoma City, OK | 1193409 | 57.1% | 682,032 |
| 46 | Buffalo, NY | 1123559 | 21.7% | 244,286 |
| 47 | Norfolk-Virginia Beach-Portsmouth, VA/NC | 1099797 | 16.0% | 175,760 |
| 48 | New Orleans, LA | 1092333 | 39.5% | 431,829 |
| 49 | Louisville, KY-IN | 1046107 | 42.0% | 439,645 |
| 50 | Rochester, NY | 1037977 | 20.2% | 209,345 |

| | | Pre-Acquisition Spectrum Holdings | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 700 MHz | Cellular | SMR | PCS | AWS | BRS | Other | TOTAL |
| 1 | Los Angeles-Long Beach/Anaheim-CA | 24.0 | 25.0 | 0.0 | 40.0 | 30.0 | 0.0 | 0.0 | 119.0 |
| 2 | New York, NY-NJ/Nassau-Suffolk,NY/Newark | 36.0 | 25.0 | 0.0 | 30.0 | 0.0 | 0.0 | 0.0 | 91.0 |
| 3 | Chicago, IL | 18.0 | 25.0 | 0.0 | 40.0 | 10.0 | 0.0 | 0.0 | 93.0 |
| 4 | Dallas-Fort Worth, TX | 30.0 | 50.0 | 0.0 | 20.0 | 30.0 | 0.0 | 0.0 | 130.0 |
| 5 | Houston, TX | 30.0 | 25.0 | 0.0 | 40.0 | 10.0 | 0.0 | 0.0 | 105.0 |
| 6 | Philadelphia, PA | 36.0 | 25.0 | 0.0 | 40.0 | 0.0 | 0.0 | 0.0 | 101.0 |
| 7 | Atlanta, GA | 30.0 | 25.0 | 0.0 | 40.0 | 10.0 | 0.0 | 0.0 | 105.0 |
| 8 | Washington, DC-MD-VA | 30.0 | 25.0 | 0.0 | 40.0 | 10.0 | 0.0 | 0.0 | 105.0 |
| 9 | Detroit/Ann Arbor, MI | 30.0 | 25.0 | 0.0 | 40.0 | 0.0 | 0.0 | 0.0 | 95.0 |
| 10 | Boston-Lowell-Brockton-Lawrence-MANH | 36.0 | 25.0 | 0.0 | 40.0 | 10.0 | 0.0 | 0.0 | 111.0 |
| 11 | San Francisco-Oakland, CA | 36.0 | 25.0 | 0.0 | 40.0 | 10.0 | 0.0 | 0.0 | 111.0 |
| 12 | Miami-Fort Lauderdale-Hollywood, FL | 18.0 | 50.0 | 0.0 | 20.0 | 10.0 | 0.0 | 0.0 | 98.0 |
| 13 | Phoenix, AZ | 30.0 | 0.0 | 0.0 | 40.0 | 30.0 | 0.0 | 0.0 | 100.0 |
| 14 | Minneapolis-St. Paul, MN-WI | 30.0 | 25.0 | 0.0 | 30.0 | 9.7 | 0.0 | 0.0 | 94.7 |
| 15 | San Diego, CA | 30.0 | 25.0 | 0.0 | 35.0 | 10.0 | 0.0 | 0.0 | 100.0 |
| 16 | Denver-Boulder, CO | 30.0 | 25.0 | 0.0 | 30.0 | 30.0 | 0.0 | 0.0 | 115.0 |
| 17 | Baltimore, MD | 30.0 | 25.0 | 0.0 | 40.0 | 10.0 | 0.0 | 0.0 | 105.0 |
| 18 | Seattle-Everett, WA | 30.0 | 25.0 | 0.0 | 40.0 | 10.0 | 0.0 | 0.0 | 105.0 |
| 19 | St. Louis, MO-IL | 30.0 | 25.0 | 0.0 | 40.0 | 0.0 | 0.0 | 0.0 | 95.0 |
| 20 | Tampa-St. Petersburg, FL | 30.0 | 25.0 | 0.0 | 30.0 | 0.0 | 0.0 | 0.0 | 85.0 |
| 21 | San Juan-Caguas, PR | 18.0 | 25.0 | 0.0 | 50.0 | 10.0 | 0.0 | 0.0 | 103.0 |
| 22 | Portland, OR-WA | 30.0 | 25.0 | 0.0 | 30.0 | 30.0 | 0.0 | 0.0 | 115.0 |
| 23 | Sacramento, CA | 30.0 | 25.0 | 0.0 | 45.0 | 10.0 | 0.0 | 0.0 | 110.0 |
| 24 | Pittsburgh, PA | 30.0 | 25.0 | 0.0 | 30.0 | 0.0 | 0.0 | 0.0 | 85.0 |
| 25 | Las Vegas, NV | 30.0 | 25.0 | 0.0 | 40.0 | 10.0 | 0.0 | 0.0 | 105.0 |
| 26 | San Antonio, TX | 30.0 | 50.0 | 0.0 | 10.0 | 10.0 | 0.0 | 0.0 | 100.0 |
| 27 | Kansas City, MO-KS | 30.0 | 25.0 | 0.0 | 30.0 | 10.0 | 0.0 | 0.0 | 95.0 |
| 28 | San Jose, CA | 36.0 | 25.0 | 0.0 | 40.0 | 10.0 | 0.0 | 0.0 | 111.0 |
| 29 | Orlando, FL | 30.0 | 50.0 | 0.0 | 20.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| 30 | Cleveland, OH | 30.0 | 0.0 | 0.0 | 50.0 | 0.0 | 0.0 | 0.0 | 80.0 |
| 31 | Indianapolis, IN | 30.0 | 25.0 | 0.0 | 40.0 | 0.0 | 0.0 | 0.0 | 95.0 |
| 32 | Cincinnati, OH-KY-IN | 18.0 | 25.0 | 0.0 | 10.0 | 20.0 | 0.0 | 0.0 | 73.0 |
| 33 | Salt Lake City-Ogden, UT | 30.0 | 25.0 | 0.0 | 45.0 | 20.0 | 0.0 | 0.0 | 120.0 |
| 34 | Austin, TX | 30.0 | 50.0 | 0.0 | 20.0 | 10.0 | 0.0 | 0.0 | 110.0 |
| 35 | Columbus, OH | 30.0 | 25.0 | 0.0 | 30.0 | 0.0 | 0.0 | 0.0 | 85.0 |
| 36 | Milwaukee, WI | 30.0 | 25.0 | 0.0 | 30.0 | 0.0 | 0.0 | 0.0 | 85.0 |
| 37 | Nashville-Davidson, TN | 30.0 | 25.0 | 0.0 | 45.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| 38 | Charlotte-Gastonia, NC | 18.0 | 0.0 | 0.0 | 40.0 | 20.0 | 0.0 | 0.0 | 78.0 |
| 39 | Jacksonville, FL | 30.0 | 50.0 | 0.0 | 10.0 | 20.0 | 0.0 | 0.0 | 110.0 |
| 40 | Raleigh-Durham, NC | 18.0 | 0.0 | 0.0 | 40.0 | 20.0 | 0.0 | 0.0 | 78.0 |
| 41 | West Palm Beach-Boca Raton, FL | 18.0 | 50.0 | 0.0 | 20.0 | 10.0 | 0.0 | 0.0 | 98.0 |
| 42 | Greensboro-Winston-Salem-High Point, NC | 18.0 | 0.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 68.0 |
| 43 | Hartford-New Britain-Bristol, CT | 36.0 | 25.0 | 0.0 | 45.0 | 0.0 | 0.0 | 0.0 | 106.0 |
| 44 | Memphis, TN-AR-MS | 18.0 | 25.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 93.0 |
| 45 | Oklahoma City, OK | 18.0 | 25.0 | 0.0 | 20.0 | 30.0 | 0.0 | 0.0 | 93.0 |
| 46 | Buffalo, NY | 30.0 | 25.0 | 0.0 | 28.1 | 40.0 | 0.0 | 0.0 | 123.1 |
| 47 | Norfolk-Virginia Beach-Portsmouth, VA/NC | 30.0 | 0.0 | 0.0 | 40.0 | 20.0 | 0.0 | 0.0 | 90.0 |
| 48 | New Orleans, LA | 30.0 | 25.0 | 0.0 | 35.0 | 0.0 | 0.0 | 0.0 | 90.0 |
| 49 | Louisville, KY-IN | 30.0 | 25.0 | 0.0 | 39.3 | 0.0 | 0.0 | 0.0 | 94.3 |
| 50 | Rochester, NY | 18.0 | 25.0 | 0.0 | 30.0 | 20.0 | 0.0 | 0.0 | 93.0 |

## *Sprint Data*

155,339,399 Total # Subs: 30,408,895

| | | | Market Share | # Subs |
|---|---|---|---|---|
| 1 | Los Angeles-Long Beach/Anaheim-CA | 17,174,570 | 18.9% | 3,250,625 |
| 2 | New York, NY-NJ/Nassau-Suffolk,NY/Newark | 16,808,740 | 20.4% | 3,421,705 |
| 3 | Chicago, IL | 8,507,569 | 21.7% | 1,848,405 |
| 4 | Dallas-Fort Worth, TX | 6,557,576 | 17.1% | 1,119,315 |
| 5 | Houston, TX | 5,637,211 | 20.5% | 1,153,108 |
| 6 | Philadelphia, PA | 5,289,675 | 17.1% | 905,723 |
| 7 | Atlanta, GA | 4,914,273 | 15.8% | 777,282 |
| 8 | Washington, DC-MD-VA | 4,809,725 | 24.0% | 1,153,274 |
| 9 | Detroit/Ann Arbor, MI | 4,733,459 | 26.0% | 1,231,681 |
| 10 | Boston-Lowell-Brockton-Lawrence-MANH | 4,508,380 | 14.3% | 645,624 |
| 11 | San Francisco-Oakland, CA | 4,375,435 | 13.5% | 590,898 |
| 12 | Miami-Fort Lauderdale-Hollywood, FL | 4,302,210 | 19.7% | 847,586 |
| 13 | Phoenix, AZ | 4,087,980 | 15.6% | 639,165 |
| 14 | Minneapolis-St. Paul, MN-WI | 3,133,944 | 21.7% | 681,105 |
| 15 | San Diego, CA | 3,088,346 | 19.5% | 602,460 |
| 16 | Denver-Boulder, CO | 2,804,706 | 14.1% | 396,627 |
| 17 | Baltimore, MD | 2,655,604 | 24.4% | 647,044 |
| 18 | Seattle-Everett, WA | 2,652,469 | 16.9% | 447,813 |
| 19 | St. Louis, MO-IL | 2,636,325 | 24.8% | 652,797 |
| 20 | Tampa-St. Petersburg, FL | 2,593,519 | 20.6% | 533,910 |
| 21 | San Juan-Caguas, PR | | | 0 |
| 22 | Portland, OR-WA | 2,119,028 | 13.5% | 285,489 |
| 23 | Sacramento, CA | 1,973,687 | 13.4% | 264,401 |
| 24 | Pittsburgh, PA | 1,959,627 | 13.5% | 263,655 |
| 25 | Las Vegas, NV | 1,926,570 | 19.3% | 371,701 |
| 26 | San Antonio, TX | 1926040 | 27.5% | 528,849 |
| 27 | Kansas City, MO-KS | 1867083 | 29.7% | 555,137 |
| 28 | San Jose, CA | 1813429 | 13.5% | 244,902 |
| 29 | Orlando, FL | 1787599 | 25.4% | 454,467 |
| 30 | Cleveland, OH | 1781739 | 16.1% | 286,766 |
| 31 | Indianapolis, IN | 1715519 | 23.2% | 397,226 |
| 32 | Cincinnati, OH-KY-IN | 1689049 | 18.2% | 306,686 |
| 33 | Salt Lake City-Ogden, UT | 1654325 | 14.1% | 232,596 |
| 34 | Austin, TX | 1641645 | 24.0% | 393,282 |
| 35 | Columbus, OH | 1580339 | 24.1% | 381,114 |
| 36 | Milwaukee, WI | 1568884 | 20.9% | 327,570 |
| 37 | Nashville-Davidson, TN | 1521132 | 17.3% | 263,786 |
| 38 | Charlotte-Gastonia, NC | 1349794 | 22.5% | 303,894 |
| 39 | Jacksonville, FL | 1339750 | 21.3% | 285,489 |
| 40 | Raleigh-Durham, NC | 1333905 | 24.6% | 328,025 |
| 41 | West Palm Beach-Boca Raton, FL | 1290147 | 20.3% | 262,142 |
| 42 | Greensboro-Winston-Salem-High Point, NC | 1237144 | 23.7% | 293,641 |
| 43 | Hartford-New Britain-Bristol, CT | 1200820 | 18.5% | 222,364 |
| 44 | Memphis, TN-AR-MS | 1197246 | 15.6% | 186,422 |
| 45 | Oklahoma City, OK | 1193409 | 13.9% | 166,224 |
| 46 | Buffalo, NY | 1123559 | 18.0% | 201,963 |
| 47 | Norfolk-Virginia Beach-Portsmouth, VA/NC | 1099797 | 24.3% | 266,836 |
| 48 | New Orleans, LA | 1092333 | 37.5% | 409,865 |
| 49 | Louisville, KY-IN | 1046107 | 20.8% | 217,748 |
| 50 | Rochester, NY | 1037977 | 15.5% | 160,509 |

| | | With BRS Spectrum Holdings | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 700 MHz | Cellular | SMR | PCS | AWS | BRS | Other | TOTAL |
| 1 | Los Angeles-Long Beach/Anaheim-CA | 0.0 | 0.0 | 17.1 | 40.0 | 0.0 | 55.5 | 0.0 | 112.6 |
| 2 | New York, NY-NJ/Nassau-Suffolk,NY/Newark | 0.0 | 0.0 | 18.0 | 40.0 | 0.0 | 45.1 | 0.0 | 103.0 |
| 3 | Chicago, IL | 0.0 | 0.0 | 17.8 | 30.0 | 0.0 | 55.5 | 0.0 | 103.3 |
| 4 | Dallas-Fort Worth, TX | 0.0 | 0.0 | 17.6 | 40.0 | 0.0 | 55.5 | 0.0 | 113.1 |
| 5 | Houston, TX | 0.0 | 0.0 | 18.4 | 30.0 | 0.0 | 55.5 | 0.0 | 103.9 |
| 6 | Philadelphia, PA | 0.0 | 0.0 | 17.8 | 40.0 | 0.0 | 55.5 | 0.0 | 113.3 |
| 7 | Atlanta, GA | 0.0 | 0.0 | 18.0 | 30.0 | 0.0 | 55.5 | 0.0 | 103.5 |
| 8 | Washington, DC-MD-VA | 0.0 | 0.0 | 18.4 | 40.0 | 0.0 | 43.5 | 0.0 | 101.9 |
| 9 | Detroit/Ann Arbor, MI | 0.0 | 0.0 | 17.8 | 40.0 | 0.0 | 55.5 | 0.0 | 113.3 |
| 10 | Boston-Lowell-Brockton-Lawrence-MANH | 0.0 | 0.0 | 16.0 | 40.0 | 0.0 | 39.0 | 0.0 | 95.0 |
| 11 | San Francisco-Oakland, CA | 0.0 | 0.0 | 18.4 | 30.0 | 0.0 | 51.9 | 0.0 | 100.3 |
| 12 | Miami-Fort Lauderdale-Hollywood, FL | 0.0 | 0.0 | 16.5 | 30.0 | 0.0 | 44.0 | 0.0 | 90.5 |
| 13 | Phoenix, AZ | 0.0 | 0.0 | 17.0 | 40.0 | 0.0 | 55.5 | 0.0 | 112.5 |
| 14 | Minneapolis-St. Paul, MN-WI | 0.0 | 0.0 | 18.5 | 30.0 | 0.0 | 55.4 | 0.0 | 103.9 |
| 15 | San Diego, CA | 0.0 | 0.0 | 15.8 | 40.0 | 0.0 | 50.0 | 0.0 | 105.8 |
| 16 | Denver-Boulder, CO | 0.0 | 0.0 | 16.5 | 26.3 | 0.0 | 55.5 | 0.0 | 98.3 |
| 17 | Baltimore, MD | 0.0 | 0.0 | 18.2 | 30.0 | 0.0 | 55.5 | 0.0 | 103.7 |
| 18 | Seattle-Everett, WA | 0.0 | 0.0 | 16.0 | 40.0 | 0.0 | 55.5 | 0.0 | 111.5 |
| 19 | St. Louis, MO-IL | 0.0 | 0.0 | 17.2 | 40.0 | 0.0 | 55.5 | 0.0 | 112.7 |
| 20 | Tampa-St. Petersburg, FL | 0.0 | 0.0 | 17.3 | 35.0 | 0.0 | 55.5 | 0.0 | 107.8 |
| 21 | San Juan-Caguas, PR | 0.0 | 0.0 | 17.0 | 30.0 | 0.0 | 49.6 | 0.0 | 96.6 |
| 22 | Portland, OR-WA | 0.0 | 0.0 | 18.5 | 40.0 | 0.0 | 55.5 | 0.0 | 114.0 |
| 23 | Sacramento, CA | 0.0 | 0.0 | 18.4 | 30.0 | 0.0 | 54.4 | 0.0 | 102.8 |
| 24 | Pittsburgh, PA | 0.0 | 0.0 | 18.1 | 40.0 | 0.0 | 45.0 | 0.0 | 103.0 |
| 25 | Las Vegas, NV | 0.0 | 0.0 | 17.3 | 40.0 | 0.0 | 28.0 | 0.0 | 85.3 |
| 26 | San Antonio, TX | 0.0 | 0.0 | 18.1 | 40.0 | 0.0 | 55.5 | 0.0 | 113.6 |
| 27 | Kansas City, MO-KS | 0.0 | 0.0 | 17.3 | 40.0 | 0.0 | 55.5 | 0.0 | 112.8 |
| 28 | San Jose, CA | 0.0 | 0.0 | 18.4 | 30.0 | 0.0 | 55.5 | 0.0 | 103.9 |
| 29 | Orlando, FL | 0.0 | 0.0 | 17.0 | 37.5 | 0.0 | 55.5 | 0.0 | 110.0 |
| 30 | Cleveland, OH | 0.0 | 0.0 | 17.1 | 30.0 | 0.0 | 55.5 | 0.0 | 102.6 |
| 31 | Indianapolis, IN | 0.0 | 0.0 | 18.1 | 31.9 | 0.0 | 55.5 | 0.0 | 105.5 |
| 32 | Cincinnati, OH-KY-IN | 0.0 | 0.0 | 18.1 | 30.0 | 0.0 | 55.5 | 0.0 | 103.6 |
| 33 | Salt Lake City-Ogden, UT | 0.0 | 0.0 | 16.8 | 30.0 | 0.0 | 55.5 | 0.0 | 102.3 |
| 34 | Austin, TX | 0.0 | 0.0 | 18.0 | 40.0 | 0.0 | 55.5 | 0.0 | 113.5 |
| 35 | Columbus, OH | 0.0 | 0.0 | 17.9 | 40.0 | 0.0 | 55.5 | 0.0 | 113.4 |
| 36 | Milwaukee, WI | 0.0 | 0.0 | 18.8 | 30.0 | 0.0 | 50.1 | 0.0 | 98.8 |
| 37 | Nashville-Davidson, TN | 0.0 | 0.0 | 17.7 | 40.0 | 0.0 | 55.5 | 0.0 | 113.2 |
| 38 | Charlotte-Gastonia, NC | 0.0 | 0.0 | 17.8 | 30.0 | 0.0 | 55.5 | 0.0 | 103.3 |
| 39 | Jacksonville, FL | 0.0 | 0.0 | 17.9 | 30.0 | 0.0 | 55.5 | 0.0 | 103.4 |
| 40 | Raleigh-Durham, NC | 0.0 | 0.0 | 17.8 | 30.0 | 0.0 | 55.5 | 0.0 | 103.3 |
| 41 | West Palm Beach-Boca Raton, FL | 0.0 | 0.0 | 16.5 | 30.0 | 0.0 | 39.0 | 0.0 | 85.5 |
| 42 | Greensboro-Winston-Salem-High Point, NC | 0.0 | 0.0 | 17.7 | 40.0 | 0.0 | 37.3 | 0.0 | 95.0 |
| 43 | Hartford-New Britain-Bristol, CT | 0.0 | 0.0 | 16.1 | 40.0 | 0.0 | 55.5 | 0.0 | 111.6 |
| 44 | Memphis, TN-AR-MS | 0.0 | 0.0 | 18.3 | 30.0 | 0.0 | 55.5 | 0.0 | 103.8 |
| 45 | Oklahoma City, OK | 0.0 | 0.0 | 18.8 | 30.0 | 0.0 | 55.5 | 0.0 | 104.3 |
| 46 | Buffalo, NY | 0.0 | 0.0 | 15.3 | 40.0 | 0.0 | 44.5 | 0.0 | 99.8 |
| 47 | Norfolk-Virginia Beach-Portsmouth, VA/NC | 0.0 | 0.0 | 18.5 | 30.0 | 0.0 | 55.5 | 0.0 | 104.0 |
| 48 | New Orleans, LA | 0.0 | 0.0 | 18.3 | 36.0 | 0.0 | 49.7 | 0.0 | 103.9 |
| 49 | Louisville, KY-IN | 0.0 | 0.0 | 17.4 | 40.0 | 0.0 | 55.5 | 0.0 | 112.9 |
| 50 | Rochester, NY | 0.0 | 0.0 | 15.2 | 40.0 | 0.0 | 55.5 | 0.0 | 110.7 |