

# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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|           |            | 8       | 0         | 19.09            | 19.12            | 19.16            | 20.00   |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | 8       | 4         | 19.28            | 19.18            | 19.12            | 20.00   |
|           |            | 8       | 7         | 19.14            | 19.07            | 19.16            | 20.00   |
|           |            | 15      | 0         | 19.00            | 18.91            | 18.98            | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>19975 | Channel<br>20175 | Channel<br>20375 | Tune up |
| 5MHz      | QPSK       | 1       | 0         | 24.15            | 24.09            | 24.00            | 25.00   |
|           |            | 1       | 13        | 24.18            | 24.25            | 24.18            | 25.00   |
|           |            | 1       | 24        | 23.96            | 23.99            | 23.92            | 25.00   |
|           |            | 12      | 0         | 23.03            | 22.98            | 23.04            | 24.00   |
|           |            | 12      | 6         | 23.04            | 23.01            | 23.02            | 24.00   |
|           |            | 12      | 13        | 23.01            | 22.92            | 22.99            | 24.00   |
|           | 16QAM      | 25      | 0         | 22.92            | 23.02            | 22.95            | 24.00   |
|           |            | 1       | 0         | 23.20            | 23.21            | 23.15            | 24.00   |
|           |            | 1       | 13        | 23.07            | 23.00            | 22.96            | 24.00   |
|           |            | 1       | 24        | 22.87            | 22.94            | 22.89            | 24.00   |
|           |            | 12      | 0         | 21.93            | 21.97            | 22.05            | 23.00   |
|           |            | 12      | 6         | 22.12            | 22.13            | 22.03            | 23.00   |
|           | 64QAM      | 12      | 13        | 22.00            | 22.04            | 21.94            | 23.00   |
|           |            | 25      | 0         | 21.83            | 21.91            | 21.94            | 23.00   |
|           |            | 1       | 0         | 22.09            | 22.02            | 22.07            | 23.00   |
|           |            | 1       | 13        | 22.11            | 22.01            | 22.00            | 23.00   |
|           |            | 1       | 24        | 22.14            | 22.06            | 22.00            | 23.00   |
|           |            | 12      | 0         | 21.03            | 21.08            | 21.12            | 22.00   |
| 10MHz     | QPSK       | 12      | 6         | 21.01            | 21.04            | 21.08            | 22.00   |
|           |            | 12      | 13        | 21.07            | 21.10            | 21.12            | 22.00   |
|           |            | 25      | 0         | 20.78            | 20.87            | 20.87            | 22.00   |
|           | 16QAM      | 1       | 0         | 19.00            | 19.06            | 19.11            | 20.00   |
|           |            | 1       | 13        | 19.18            | 19.10            | 19.01            | 20.00   |
|           |            | 1       | 24        | 19.16            | 19.12            | 19.04            | 20.00   |
|           | 64QAM      | 12      | 0         | 19.05            | 19.08            | 18.98            | 20.00   |
|           |            | 12      | 6         | 19.18            | 19.16            | 19.16            | 20.00   |
|           |            | 12      | 13        | 19.09            | 19.08            | 19.07            | 20.00   |
|           |            | 25      | 0         | 18.90            | 18.86            | 18.79            | 20.00   |
|           | 256QAM     | 1       | 0         | 24.02            | 24.00            | 24.09            | 25.00   |
|           |            | 1       | 25        | 24.18            | 24.20            | 24.26            | 25.00   |
|           |            | 1       | 49        | 23.89            | 23.95            | 24.03            | 25.00   |
|           |            | 25      | 0         | 23.04            | 23.02            | 22.96            | 24.00   |
|           |            | 25      | 13        | 23.05            | 23.06            | 22.99            | 24.00   |
|           |            | 25      | 25        | 22.83            | 22.87            | 22.88            | 24.00   |
| 10MHz     | QPSK       | 50      | 0         | 22.97            | 23.04            | 22.94            | 24.00   |
|           |            | 1       | 0         | 23.09            | 23.15            | 23.18            | 24.00   |
|           |            | 1       | 25        | 22.99            | 22.97            | 23.04            | 24.00   |
|           |            | 1       | 49        | 23.05            | 23.02            | 22.94            | 24.00   |
|           |            | 25      | 0         | 22.03            | 22.04            | 21.96            | 23.00   |
|           |            | 25      | 13        | 21.98            | 22.08            | 21.99            | 23.00   |
|           | 16QAM      | 25      | 25        | 22.04            | 21.98            | 22.01            | 23.00   |
|           |            | 50      | 0         | 21.93            | 22.00            | 21.97            | 23.00   |
|           | 64QAM      | 1       | 0         | 22.09            | 22.05            | 22.13            | 23.00   |
|           |            | 1       | 25        | 21.98            | 21.95            | 22.01            | 23.00   |
|           |            | 1       | 49        | 21.96            | 22.04            | 22.13            | 23.00   |
|           |            | 25      | 0         | 21.11            | 21.03            | 21.00            | 22.00   |
|           | 256QAM     | 25      | 13        | 20.90            | 20.97            | 20.89            | 22.00   |
|           |            | 25      | 25        | 21.09            | 21.09            | 21.06            | 22.00   |
|           |            | 50      | 0         | 20.99            | 20.91            | 20.93            | 22.00   |
|           |            | 1       | 0         | 19.02            | 19.05            | 19.06            | 20.00   |
|           |            | 1       | 25        | 19.02            | 19.09            | 18.99            | 20.00   |
|           |            | 1       | 49        | 19.26            | 19.22            | 19.14            | 20.00   |
|           |            | 25      | 0         | 18.93            | 19.01            | 19.05            | 20.00   |



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|           |            | 25      | 13        | 19.06   | 19.16   | 19.07   | 20.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 19.22   | 19.13   | 19.09   | 20.00   |
|           |            | 50      | 0         | 18.76   | 18.85   | 18.93   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.98   | 23.97   | 23.93   | 25.00   |
|           |            | 1       | 38        | 24.14   | 24.12   | 24.14   | 25.00   |
|           |            | 1       | 74        | 24.02   | 24.05   | 24.00   | 25.00   |
|           |            | 36      | 0         | 23.06   | 23.05   | 23.01   | 24.00   |
|           |            | 36      | 18        | 23.12   | 23.05   | 23.13   | 24.00   |
|           |            | 36      | 39        | 22.94   | 22.94   | 22.87   | 24.00   |
|           | 16QAM      | 75      | 0         | 23.04   | 22.96   | 22.95   | 24.00   |
|           |            | 1       | 0         | 23.06   | 23.11   | 23.20   | 24.00   |
|           |            | 1       | 38        | 23.00   | 23.02   | 22.96   | 24.00   |
|           |            | 1       | 74        | 23.10   | 23.10   | 23.01   | 24.00   |
|           |            | 36      | 0         | 22.14   | 22.06   | 21.96   | 23.00   |
|           |            | 36      | 18        | 22.02   | 22.05   | 21.97   | 23.00   |
|           | 64QAM      | 36      | 39        | 21.95   | 21.95   | 22.02   | 23.00   |
|           |            | 75      | 0         | 22.11   | 22.04   | 22.14   | 23.00   |
|           |            | 1       | 0         | 21.93   | 21.97   | 21.96   | 23.00   |
|           |            | 1       | 38        | 21.97   | 21.98   | 21.91   | 23.00   |
|           |            | 1       | 74        | 21.99   | 22.05   | 22.14   | 23.00   |
|           |            | 36      | 0         | 20.98   | 21.01   | 21.04   | 22.00   |
|           | 256QAM     | 36      | 18        | 20.93   | 20.93   | 20.87   | 22.00   |
|           |            | 36      | 39        | 20.97   | 21.04   | 21.05   | 22.00   |
|           |            | 75      | 0         | 20.97   | 20.89   | 20.90   | 22.00   |
|           |            | 1       | 0         | 19.07   | 19.08   | 19.11   | 20.00   |
|           |            | 1       | 38        | 19.00   | 19.05   | 19.05   | 20.00   |
|           |            | 1       | 74        | 19.07   | 19.14   | 19.15   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 20175   | /       |         |
| 20MHz     | QPSK       | 1       | 0         | /       | 24.05   | /       | 25.00   |
|           |            | 1       | 50        | /       | 24.04   | /       | 25.00   |
|           |            | 1       | 99        | /       | 24.00   | /       | 25.00   |
|           |            | 50      | 0         | /       | 23.02   | /       | 24.00   |
|           |            | 50      | 25        | /       | 23.00   | /       | 24.00   |
|           |            | 50      | 50        | /       | 22.96   | /       | 24.00   |
|           | 16QAM      | 100     | 0         | /       | 22.98   | /       | 24.00   |
|           |            | 1       | 0         | /       | 23.05   | /       | 24.00   |
|           |            | 1       | 50        | /       | 23.02   | /       | 24.00   |
|           |            | 1       | 99        | /       | 23.04   | /       | 24.00   |
|           |            | 50      | 0         | /       | 22.05   | /       | 23.00   |
|           |            | 50      | 25        | /       | 22.06   | /       | 23.00   |
|           | 64QAM      | 50      | 50        | /       | 22.02   | /       | 23.00   |
|           |            | 100     | 0         | /       | 21.96   | /       | 23.00   |
|           |            | 1       | 0         | /       | 22.06   | /       | 23.00   |
|           |            | 1       | 50        | /       | 22.01   | /       | 23.00   |
|           |            | 1       | 99        | /       | 22.03   | /       | 23.00   |
|           |            | 50      | 0         | /       | 21.02   | /       | 22.00   |
|           | 256QAM     | 50      | 25        | /       | 20.98   | /       | 22.00   |
|           |            | 50      | 50        | /       | 21.01   | /       | 22.00   |
|           |            | 100     | 0         | /       | 20.98   | /       | 22.00   |
|           |            | 1       | 0         | /       | 19.03   | /       | 20.00   |
|           |            | 1       | 50        | /       | 18.97   | /       | 20.00   |
|           |            | 1       | 99        | /       | 19.05   | /       | 20.00   |
|           |            | 50      | 0         | /       | 19.02   | /       | 20.00   |
|           |            | 50      | 25        | /       | 19.05   | /       | 20.00   |



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|  |  |     |    |   |       |   |       |
|--|--|-----|----|---|-------|---|-------|
|  |  | 50  | 50 | / | 18.97 | / | 20.00 |
|  |  | 100 | 0  | / | 18.95 | / | 20.00 |

| LTE Band 4 DSI 2 |            |         |           | Conducted Power(dBm) |                  |                  |         |
|------------------|------------|---------|-----------|----------------------|------------------|------------------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel<br>19957     | Channel<br>20175 | Channel<br>20393 | Tune up |
| 1.4MHz           | QPSK       | 1       | 0         | 19.40                | 19.37            | 19.41            | 20.50   |
|                  |            | 1       | 2         | 19.45                | 19.40            | 19.42            | 20.50   |
|                  |            | 1       | 5         | 19.46                | 19.56            | 19.58            | 20.50   |
|                  |            | 3       | 0         | 19.58                | 19.49            | 19.49            | 20.50   |
|                  |            | 3       | 2         | 19.47                | 19.45            | 19.49            | 20.50   |
|                  |            | 3       | 3         | 19.38                | 19.34            | 19.43            | 20.50   |
|                  | 16QAM      | 6       | 0         | 19.15                | 19.17            | 19.11            | 20.50   |
|                  |            | 1       | 0         | 19.58                | 19.64            | 19.63            | 20.50   |
|                  |            | 1       | 2         | 19.73                | 19.64            | 19.59            | 20.50   |
|                  |            | 1       | 5         | 19.61                | 19.57            | 19.65            | 20.50   |
|                  |            | 3       | 0         | 19.49                | 19.44            | 19.52            | 20.50   |
|                  |            | 3       | 2         | 19.45                | 19.47            | 19.41            | 20.50   |
|                  | 64QAM      | 3       | 3         | 19.34                | 19.35            | 19.32            | 20.50   |
|                  |            | 6       | 0         | 19.52                | 19.55            | 19.49            | 20.50   |
|                  |            | 1       | 0         | 19.55                | 19.59            | 19.53            | 20.50   |
|                  |            | 1       | 2         | 19.63                | 19.60            | 19.52            | 20.50   |
|                  |            | 1       | 5         | 19.70                | 19.77            | 19.81            | 20.50   |
|                  |            | 3       | 0         | 19.63                | 19.58            | 19.55            | 20.50   |
| 3MHz             | QPSK       | 3       | 2         | 19.31                | 19.35            | 19.28            | 20.50   |
|                  |            | 3       | 3         | 19.59                | 19.51            | 19.59            | 20.50   |
|                  |            | 6       | 0         | 19.34                | 19.42            | 19.46            | 20.50   |
|                  | 16QAM      | 1       | 0         | 18.98                | 18.95            | 18.95            | 20.00   |
|                  |            | 1       | 2         | 18.97                | 19.02            | 19.12            | 20.00   |
|                  |            | 1       | 5         | 18.79                | 18.86            | 18.79            | 20.00   |
|                  | 64QAM      | 3       | 0         | 19.27                | 19.27            | 19.19            | 20.00   |
|                  |            | 3       | 2         | 19.12                | 19.16            | 19.12            | 20.00   |
|                  |            | 3       | 3         | 18.93                | 19.01            | 19.08            | 20.00   |
|                  |            | 6       | 0         | 18.86                | 18.85            | 18.79            | 20.00   |
|                  | 256QAM     | 1       | 0         | 19.36                | 19.45            | 19.51            | 20.50   |
|                  |            | 1       | 7         | 19.33                | 19.39            | 19.38            | 20.50   |
|                  |            | 1       | 14        | 19.60                | 19.65            | 19.56            | 20.50   |
|                  |            | 8       | 0         | 19.53                | 19.46            | 19.56            | 20.50   |
|                  |            | 8       | 4         | 19.27                | 19.37            | 19.46            | 20.50   |
|                  |            | 8       | 7         | 19.43                | 19.41            | 19.38            | 20.50   |
| 3MHz             | QPSK       | 15      | 0         | 19.16                | 19.26            | 19.34            | 20.50   |
|                  | 16QAM      | 1       | 0         | 19.68                | 19.61            | 19.65            | 20.50   |
|                  |            | 1       | 7         | 19.61                | 19.66            | 19.61            | 20.50   |
|                  |            | 1       | 14        | 19.39                | 19.47            | 19.52            | 20.50   |
|                  |            | 8       | 0         | 19.37                | 19.39            | 19.29            | 20.50   |
|                  |            | 8       | 4         | 19.50                | 19.43            | 19.43            | 20.50   |
| 3MHz             | 16QAM      | 8       | 7         | 19.46                | 19.38            | 19.48            | 20.50   |
|                  |            | 15      | 0         | 19.60                | 19.54            | 19.61            | 20.50   |
|                  | 64QAM      | 1       | 0         | 19.63                | 19.59            | 19.68            | 20.50   |
|                  |            | 1       | 7         | 19.71                | 19.66            | 19.64            | 20.50   |
|                  |            | 1       | 14        | 19.80                | 19.77            | 19.73            | 20.50   |
|                  |            | 8       | 0         | 19.65                | 19.57            | 19.62            | 20.50   |
| 3MHz             | 64QAM      | 8       | 4         | 19.44                | 19.45            | 19.48            | 20.50   |
|                  |            | 8       | 7         | 19.60                | 19.60            | 19.62            | 20.50   |
|                  |            | 15      | 0         | 19.37                | 19.39            | 19.29            | 20.50   |
|                  | 256QAM     | 1       | 0         | 19.09                | 19.04            | 18.98            | 20.00   |
|                  |            | 1       | 7         | 19.04                | 18.96            | 18.96            | 20.00   |



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|           |            | 1       | 14        | 19.01   | 18.92   | 18.89   | 20.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 0         | 19.17   | 19.19   | 19.26   | 20.00   |
|           |            | 8       | 4         | 19.26   | 19.21   | 19.12   | 20.00   |
|           |            | 8       | 7         | 18.97   | 19.01   | 18.95   | 20.00   |
|           |            | 15      | 0         | 18.93   | 18.88   | 18.88   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 19.56   | 19.54   | 19.58   | 20.50   |
|           |            | 1       | 13        | 19.26   | 19.36   | 19.34   | 20.50   |
|           |            | 1       | 24        | 19.67   | 19.73   | 19.70   | 20.50   |
|           |            | 12      | 0         | 19.48   | 19.44   | 19.49   | 20.50   |
|           |            | 12      | 6         | 19.28   | 19.32   | 19.33   | 20.50   |
|           |            | 12      | 13        | 19.39   | 19.31   | 19.34   | 20.50   |
|           | 16QAM      | 25      | 0         | 19.32   | 19.35   | 19.27   | 20.50   |
|           |            | 1       | 0         | 19.73   | 19.67   | 19.72   | 20.50   |
|           |            | 1       | 13        | 19.66   | 19.63   | 19.68   | 20.50   |
|           |            | 1       | 24        | 19.49   | 19.57   | 19.48   | 20.50   |
|           |            | 12      | 0         | 19.40   | 19.43   | 19.44   | 20.50   |
|           |            | 12      | 6         | 19.48   | 19.53   | 19.46   | 20.50   |
|           | 64QAM      | 12      | 13        | 19.53   | 19.44   | 19.37   | 20.50   |
|           |            | 25      | 0         | 19.61   | 19.59   | 19.53   | 20.50   |
|           |            | 1       | 0         | 19.74   | 19.65   | 19.74   | 20.50   |
|           |            | 1       | 13        | 19.69   | 19.64   | 19.56   | 20.50   |
|           |            | 1       | 24        | 19.66   | 19.71   | 19.70   | 20.50   |
|           |            | 12      | 0         | 19.52   | 19.48   | 19.52   | 20.50   |
|           | 256QAM     | 12      | 6         | 19.42   | 19.48   | 19.43   | 20.50   |
|           |            | 12      | 13        | 19.46   | 19.52   | 19.60   | 20.50   |
|           |            | 25      | 0         | 19.54   | 19.46   | 19.50   | 20.50   |
|           |            | 1       | 0         | 19.02   | 19.08   | 19.11   | 20.00   |
|           |            | 1       | 13        | 19.05   | 18.95   | 18.87   | 20.00   |
|           |            | 1       | 24        | 19.03   | 18.98   | 18.96   | 20.00   |
| 10MHz     | QPSK       | 12      | 0         | 19.19   | 19.10   | 19.15   | 20.00   |
|           |            | 12      | 6         | 19.22   | 19.16   | 19.11   | 20.00   |
|           |            | 12      | 13        | 19.14   | 19.10   | 19.13   | 20.00   |
|           |            | 25      | 0         | 18.90   | 18.94   | 18.91   | 20.00   |
|           | 16QAM      | 1       | 0         | 19.41   | 19.48   | 19.55   | 20.50   |
|           |            | 1       | 25        | 19.38   | 19.35   | 19.25   | 20.50   |
|           |            | 1       | 49        | 19.69   | 19.71   | 19.68   | 20.50   |
|           |            | 25      | 0         | 19.53   | 19.49   | 19.42   | 20.50   |
|           |            | 25      | 13        | 19.46   | 19.40   | 19.46   | 20.50   |
|           |            | 25      | 25        | 19.42   | 19.37   | 19.40   | 20.50   |
|           | 64QAM      | 50      | 0         | 19.23   | 19.31   | 19.26   | 20.50   |
|           |            | 1       | 0         | 19.68   | 19.60   | 19.50   | 20.50   |
|           |            | 1       | 25        | 19.58   | 19.64   | 19.59   | 20.50   |
|           |            | 1       | 49        | 19.52   | 19.54   | 19.47   | 20.50   |
|           |            | 25      | 0         | 19.27   | 19.36   | 19.30   | 20.50   |
|           |            | 25      | 13        | 19.48   | 19.51   | 19.49   | 20.50   |
|           | 256QAM     | 25      | 25        | 19.40   | 19.46   | 19.43   | 20.50   |
|           |            | 50      | 0         | 19.57   | 19.50   | 19.52   | 20.50   |
|           |            | 1       | 0         | 19.66   | 19.58   | 19.58   | 20.50   |
|           |            | 1       | 25        | 19.47   | 19.54   | 19.45   | 20.50   |
|           |            | 1       | 49        | 19.59   | 19.62   | 19.57   | 20.50   |
|           |            | 25      | 0         | 19.51   | 19.55   | 19.59   | 20.50   |
| 10MHz     | QPSK       | 25      | 13        | 19.51   | 19.53   | 19.55   | 20.50   |
|           |            | 25      | 25        | 19.42   | 19.45   | 19.51   | 20.50   |
|           |            | 50      | 0         | 19.49   | 19.51   | 19.44   | 20.50   |
|           | 16QAM      | 1       | 0         | 18.91   | 19.01   | 19.02   | 20.00   |
|           |            | 1       | 25        | 19.00   | 19.04   | 19.06   | 20.00   |
|           |            | 1       | 49        | 19.02   | 19.04   | 19.02   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 19.41   | 19.48   | 19.55   | 20.50   |
|           |            | 1       | 25        | 19.38   | 19.35   | 19.25   | 20.50   |
|           |            | 1       | 49        | 19.69   | 19.71   | 19.68   | 20.50   |
|           |            | 25      | 0         | 19.53   | 19.49   | 19.42   | 20.50   |
|           |            | 25      | 13        | 19.46   | 19.40   | 19.46   | 20.50   |
|           |            | 25      | 25        | 19.42   | 19.37   | 19.40   | 20.50   |
|           | 16QAM      | 50      | 0         | 19.23   | 19.31   | 19.26   | 20.50   |
|           |            | 1       | 0         | 19.68   | 19.60   | 19.50   | 20.50   |
|           |            | 1       | 25        | 19.58   | 19.64   | 19.59   | 20.50   |
|           |            | 1       | 49        | 19.52   | 19.54   | 19.47   | 20.50   |
|           |            | 25      | 0         | 19.27   | 19.36   | 19.30   | 20.50   |
|           |            | 25      | 13        | 19.48   | 19.51   | 19.49   | 20.50   |
|           | 64QAM      | 25      | 25        | 19.40   | 19.46   | 19.43   | 20.50   |
|           |            | 50      | 0         | 19.57   | 19.50   | 19.52   | 20.50   |
|           |            | 1       | 0         | 19.66   | 19.58   | 19.58   | 20.50   |
|           |            | 1       | 25        | 19.47   | 19.54   | 19.45   | 20.50   |
|           |            | 1       | 49        | 19.59   | 19.62   | 19.57   | 20.50   |
|           |            | 25      | 0         | 19.51   | 19.55   | 19.59   | 20.50   |
| 10MHz     | QPSK       | 25      | 13        | 19.51   | 19.53   | 19.55   | 20.50   |
|           |            | 25      | 25        | 19.42   | 19.45   | 19.51   | 20.50   |
|           |            | 50      | 0         | 19.49   | 19.51   | 19.44   | 20.50   |
|           | 16QAM      | 1       | 0         | 18.91   | 19.01   | 19.02   | 20.00   |
|           |            | 1       | 25        | 19.00   | 19.04   | 19.06   | 20.00   |
|           |            | 1       | 49        | 19.02   | 19.04   | 19.02   | 20.00   |



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|           |            | 25      | 0         | 19.17            | 19.17            | 19.27            | 20.00   |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | 25      | 13        | 19.14            | 19.11            | 19.14            | 20.00   |
|           |            | 25      | 25        | 19.11            | 19.11            | 19.21            | 20.00   |
|           |            | 50      | 0         | 19.01            | 18.93            | 18.86            | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20025 | Channel<br>20175 | Channel<br>20325 | Tune up |
| 15MHz     | QPSK       | 1       | 0         | 19.38            | 19.39            | 19.37            | 20.50   |
|           |            | 1       | 38        | 19.42            | 19.40            | 19.41            | 20.50   |
|           |            | 1       | 74        | 19.58            | 19.61            | 19.70            | 20.50   |
|           |            | 36      | 0         | 19.58            | 19.55            | 19.48            | 20.50   |
|           |            | 36      | 18        | 19.55            | 19.47            | 19.43            | 20.50   |
|           |            | 36      | 39        | 19.38            | 19.42            | 19.47            | 20.50   |
|           | 16QAM      | 75      | 0         | 19.36            | 19.38            | 19.29            | 20.50   |
|           |            | 1       | 0         | 19.70            | 19.62            | 19.60            | 20.50   |
|           |            | 1       | 38        | 19.48            | 19.58            | 19.61            | 20.50   |
|           |            | 1       | 74        | 19.55            | 19.55            | 19.57            | 20.50   |
|           |            | 36      | 0         | 19.40            | 19.46            | 19.51            | 20.50   |
|           |            | 36      | 18        | 19.59            | 19.58            | 19.52            | 20.50   |
|           | 64QAM      | 36      | 39        | 19.46            | 19.50            | 19.44            | 20.50   |
|           |            | 75      | 0         | 19.53            | 19.54            | 19.59            | 20.50   |
|           |            | 1       | 0         | 19.43            | 19.52            | 19.61            | 20.50   |
|           |            | 1       | 38        | 19.46            | 19.49            | 19.44            | 20.50   |
|           |            | 1       | 74        | 19.67            | 19.67            | 19.76            | 20.50   |
|           |            | 36      | 0         | 19.48            | 19.58            | 19.63            | 20.50   |
|           | 256QAM     | 36      | 18        | 19.61            | 19.59            | 19.54            | 20.50   |
|           |            | 36      | 39        | 19.39            | 19.44            | 19.34            | 20.50   |
|           |            | 75      | 0         | 19.44            | 19.42            | 19.36            | 20.50   |
|           |            | 1       | 0         | 19.05            | 19.00            | 19.03            | 20.00   |
|           |            | 1       | 38        | 19.07            | 19.01            | 18.96            | 20.00   |
|           |            | 1       | 74        | 18.89            | 18.94            | 18.94            | 20.00   |
| 20MHz     | QPSK       | 36      | 0         | 19.12            | 19.12            | 19.02            | 20.00   |
|           |            | 36      | 18        | 18.92            | 19.02            | 19.11            | 20.00   |
|           |            | 36      | 39        | 19.14            | 19.08            | 19.05            | 20.00   |
|           |            | 75      | 0         | 18.75            | 18.83            | 18.75            | 20.00   |
|           | 16QAM      | 1       | 0         | /                | 19.48            | /                | 20.50   |
|           |            | 1       | 50        | /                | 19.50            | /                | 20.50   |
|           |            | 1       | 99        | /                | 19.55            | /                | 20.50   |
|           |            | 50      | 0         | /                | 19.54            | /                | 20.50   |
|           |            | 50      | 25        | /                | 19.54            | /                | 20.50   |
|           |            | 50      | 50        | /                | 19.48            | /                | 20.50   |
|           | 64QAM      | 100     | 0         | /                | 19.43            | /                | 20.50   |
|           |            | 1       | 0         | /                | 19.57            | /                | 20.50   |
|           |            | 1       | 50        | /                | 19.53            | /                | 20.50   |
|           |            | 1       | 99        | /                | 19.57            | /                | 20.50   |
|           |            | 50      | 0         | /                | 19.55            | /                | 20.50   |
|           |            | 50      | 25        | /                | 19.54            | /                | 20.50   |
|           | 256QAM     | 50      | 50        | /                | 19.54            | /                | 20.50   |
|           |            | 100     | 0         | /                | 19.48            | /                | 20.50   |
|           |            | 1       | 0         | /                | 19.56            | /                | 20.50   |
|           |            | 1       | 50        | /                | 19.49            | /                | 20.50   |
|           |            | 1       | 99        | /                | 19.58            | /                | 20.50   |
|           |            | 50      | 0         | /                | 19.57            | /                | 20.50   |
| 20MHz     | QPSK       | 50      | 25        | /                | 19.53            | /                | 20.50   |
|           |            | 50      | 50        | /                | 19.53            | /                | 20.50   |
|           |            | 100     | 0         | /                | 19.43            | /                | 20.50   |
|           | 16QAM      | 1       | 0         | /                | 19.56            | /                | 20.50   |
|           |            | 1       | 50        | /                | 19.49            | /                | 20.50   |
|           |            | 1       | 99        | /                | 19.58            | /                | 20.50   |
|           | 64QAM      | 50      | 0         | /                | 19.57            | /                | 20.50   |
|           |            | 50      | 25        | /                | 19.53            | /                | 20.50   |
|           |            | 50      | 50        | /                | 19.53            | /                | 20.50   |
|           |            | 100     | 0         | /                | 19.43            | /                | 20.50   |
|           | 256QAM     | 1       | 0         | /                | 19.04            | /                | 20.00   |
|           |            | 1       | 50        | /                | 18.98            | /                | 20.00   |
|           |            | 1       | 99        | /                | 19.02            | /                | 20.00   |
|           |            | 50      | 0         | /                | 19.04            | /                | 20.00   |



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|  |  |     |    |   |       |   |       |
|--|--|-----|----|---|-------|---|-------|
|  |  | 50  | 25 | / | 19.03 | / | 20.00 |
|  |  | 50  | 50 | / | 18.99 | / | 20.00 |
|  |  | 100 | 0  | / | 18.93 | / | 20.00 |

| LTE Band 4 DSI 3 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 1.4MHz           | QPSK       | 1       | 0         | 19957                | 20175   | 20393   | 18.50   |
|                  |            | 1       | 2         | 17.53                | 17.43   | 17.38   | 18.50   |
|                  |            | 1       | 5         | 17.48                | 17.47   | 17.39   | 18.50   |
|                  |            | 3       | 0         | 17.58                | 17.53   | 17.59   | 18.50   |
|                  |            | 3       | 2         | 17.47                | 17.57   | 17.59   | 18.50   |
|                  |            | 3       | 3         | 17.79                | 17.69   | 17.73   | 18.50   |
|                  | 16QAM      | 3       | 0         | 17.56                | 17.66   | 17.67   | 18.50   |
|                  |            | 6       | 0         | 17.45                | 17.48   | 17.47   | 18.50   |
|                  |            | 1       | 0         | 17.48                | 17.41   | 17.49   | 18.50   |
|                  |            | 1       | 2         | 17.77                | 17.74   | 17.72   | 18.50   |
|                  |            | 1       | 5         | 17.61                | 17.53   | 17.54   | 18.50   |
|                  |            | 3       | 0         | 17.71                | 17.65   | 17.69   | 18.50   |
|                  | 64QAM      | 3       | 2         | 17.57                | 17.57   | 17.59   | 18.50   |
|                  |            | 3       | 3         | 17.56                | 17.61   | 17.70   | 18.50   |
|                  |            | 6       | 0         | 17.78                | 17.85   | 17.86   | 18.50   |
|                  |            | 1       | 0         | 17.69                | 17.61   | 17.66   | 18.50   |
|                  |            | 1       | 2         | 17.43                | 17.35   | 17.26   | 18.50   |
|                  |            | 1       | 5         | 17.48                | 17.41   | 17.43   | 18.50   |
|                  | 256QAM     | 3       | 0         | 17.60                | 17.57   | 17.54   | 18.50   |
|                  |            | 3       | 2         | 17.36                | 17.30   | 17.27   | 18.50   |
|                  |            | 3       | 3         | 17.60                | 17.57   | 17.61   | 18.50   |
|                  |            | 6       | 0         | 17.52                | 17.45   | 17.38   | 18.50   |
|                  |            | 1       | 0         | 17.59                | 17.61   | 17.68   | 18.50   |
|                  |            | 1       | 2         | 17.60                | 17.52   | 17.57   | 18.50   |
| 3MHz             | QPSK       | 1       | 5         | 17.18                | 17.17   | 17.27   | 18.50   |
|                  |            | 3       | 0         | 17.45                | 17.54   | 17.56   | 18.50   |
|                  |            | 3       | 2         | 17.45                | 17.40   | 17.43   | 18.50   |
|                  |            | 3       | 3         | 17.59                | 17.58   | 17.61   | 18.50   |
|                  |            | 6       | 0         | 17.76                | 17.76   | 17.74   | 18.50   |
|                  |            | 1       | 0         | 17.38                | 17.43   | 17.53   | 18.50   |
|                  | 16QAM      | 1       | 7         | 17.43                | 17.40   | 17.35   | 18.50   |
|                  |            | 1       | 14        | 17.61                | 17.52   | 17.45   | 18.50   |
|                  |            | 8       | 0         | 17.65                | 17.62   | 17.64   | 18.50   |
|                  |            | 8       | 4         | 17.71                | 17.72   | 17.80   | 18.50   |
|                  |            | 8       | 7         | 17.58                | 17.61   | 17.56   | 18.50   |
|                  |            | 15      | 0         | 17.48                | 17.48   | 17.47   | 18.50   |
|                  | 64QAM      | 1       | 0         | 17.32                | 17.37   | 17.30   | 18.50   |
|                  |            | 1       | 7         | 17.68                | 17.78   | 17.75   | 18.50   |
|                  |            | 1       | 14        | 17.62                | 17.57   | 17.48   | 18.50   |
|                  |            | 8       | 0         | 17.58                | 17.57   | 17.60   | 18.50   |
|                  |            | 8       | 4         | 17.51                | 17.51   | 17.47   | 18.50   |
|                  |            | 8       | 7         | 17.59                | 17.59   | 17.55   | 18.50   |
|                  | 256QAM     | 15      | 0         | 17.80                | 17.76   | 17.86   | 18.50   |
|                  |            | 1       | 0         | 17.68                | 17.59   | 17.62   | 18.50   |
|                  |            | 1       | 7         | 17.25                | 17.33   | 17.38   | 18.50   |
|                  |            | 1       | 14        | 17.54                | 17.51   | 17.53   | 18.50   |
|                  |            | 8       | 0         | 17.50                | 17.58   | 17.48   | 18.50   |
|                  |            | 8       | 4         | 17.36                | 17.33   | 17.34   | 18.50   |



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|           |            | 1       | 7         | 17.47   | 17.51   | 17.55   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 14        | 17.08   | 17.17   | 17.24   | 18.50   |
|           |            | 8       | 0         | 17.56   | 17.59   | 17.63   | 18.50   |
|           |            | 8       | 4         | 17.48   | 17.45   | 17.45   | 18.50   |
|           |            | 8       | 7         | 17.76   | 17.67   | 17.66   | 18.50   |
|           |            | 15      | 0         | 17.67   | 17.70   | 17.69   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 17.43   | 17.36   | 17.42   | 18.50   |
|           |            | 1       | 13        | 17.32   | 17.38   | 17.46   | 18.50   |
|           |            | 1       | 24        | 17.61   | 17.51   | 17.51   | 18.50   |
|           |            | 12      | 0         | 17.72   | 17.66   | 17.71   | 18.50   |
|           |            | 12      | 6         | 17.64   | 17.71   | 17.74   | 18.50   |
|           |            | 12      | 13        | 17.53   | 17.61   | 17.52   | 18.50   |
|           | 16QAM      | 25      | 0         | 17.55   | 17.54   | 17.57   | 18.50   |
|           |            | 1       | 0         | 17.37   | 17.46   | 17.39   | 18.50   |
|           |            | 1       | 13        | 17.72   | 17.68   | 17.64   | 18.50   |
|           |            | 1       | 24        | 17.49   | 17.51   | 17.58   | 18.50   |
|           |            | 12      | 0         | 17.76   | 17.66   | 17.72   | 18.50   |
|           |            | 12      | 6         | 17.61   | 17.59   | 17.63   | 18.50   |
|           | 64QAM      | 12      | 13        | 17.74   | 17.69   | 17.77   | 18.50   |
|           |            | 25      | 0         | 17.67   | 17.69   | 17.64   | 18.50   |
|           |            | 1       | 0         | 17.42   | 17.49   | 17.58   | 18.50   |
|           |            | 1       | 13        | 17.51   | 17.42   | 17.48   | 18.50   |
|           |            | 1       | 24        | 17.55   | 17.56   | 17.50   | 18.50   |
|           |            | 12      | 0         | 17.60   | 17.56   | 17.65   | 18.50   |
| 10MHz     | QPSK       | 12      | 6         | 17.46   | 17.40   | 17.36   | 18.50   |
|           |            | 12      | 13        | 17.51   | 17.60   | 17.58   | 18.50   |
|           |            | 25      | 0         | 17.35   | 17.38   | 17.38   | 18.50   |
|           | 16QAM      | 1       | 0         | 17.40   | 17.47   | 17.54   | 18.50   |
|           |            | 1       | 13        | 17.44   | 17.54   | 17.52   | 18.50   |
|           |            | 1       | 24        | 17.23   | 17.23   | 17.20   | 18.50   |
|           | 64QAM      | 12      | 0         | 17.53   | 17.51   | 17.48   | 18.50   |
|           |            | 12      | 6         | 17.40   | 17.50   | 17.50   | 18.50   |
|           |            | 12      | 13        | 17.68   | 17.58   | 17.54   | 18.50   |
|           | 256QAM     | 25      | 0         | 17.52   | 17.61   | 17.58   | 18.50   |
|           |            | 1       | 0         | 17.38   | 17.36   | 17.31   | 18.50   |
|           |            | 1       | 25        | 17.38   | 17.44   | 17.37   | 18.50   |
|           |            | 1       | 49        | 17.50   | 17.51   | 17.42   | 18.50   |
|           |            | 25      | 0         | 17.56   | 17.64   | 17.62   | 18.50   |
|           |            | 25      | 13        | 17.56   | 17.65   | 17.66   | 18.50   |
|           | 16QAM      | 25      | 25        | 17.51   | 17.52   | 17.42   | 18.50   |
|           |            | 50      | 0         | 17.37   | 17.46   | 17.47   | 18.50   |
|           |            | 1       | 0         | 17.50   | 17.55   | 17.64   | 18.50   |
|           |            | 1       | 25        | 17.52   | 17.59   | 17.58   | 18.50   |
|           |            | 1       | 49        | 17.53   | 17.57   | 17.63   | 18.50   |
|           |            | 25      | 0         | 17.66   | 17.72   | 17.74   | 18.50   |
|           | 64QAM      | 25      | 13        | 17.46   | 17.51   | 17.43   | 18.50   |
|           |            | 25      | 25        | 17.66   | 17.65   | 17.63   | 18.50   |
|           |            | 50      | 0         | 17.62   | 17.59   | 17.66   | 18.50   |
|           |            | 1       | 0         | 17.56   | 17.56   | 17.54   | 18.50   |
|           |            | 1       | 25        | 17.32   | 17.32   | 17.42   | 18.50   |
|           |            | 1       | 49        | 17.56   | 17.60   | 17.67   | 18.50   |
|           | 256QAM     | 25      | 0         | 17.67   | 17.66   | 17.74   | 18.50   |
|           |            | 25      | 13        | 17.37   | 17.47   | 17.37   | 18.50   |
|           |            | 25      | 25        | 17.49   | 17.57   | 17.62   | 18.50   |
|           |            | 50      | 0         | 17.50   | 17.46   | 17.38   | 18.50   |
|           |            | 1       | 0         | 17.65   | 17.55   | 17.51   | 18.50   |
|           |            | 1       | 25        | 17.62   | 17.64   | 17.60   | 18.50   |



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|           |            | 1       | 49        | 17.41   | 17.33   | 17.33   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 17.67   | 17.58   | 17.61   | 18.50   |
|           |            | 25      | 13        | 17.52   | 17.60   | 17.53   | 18.50   |
|           |            | 25      | 25        | 17.42   | 17.49   | 17.45   | 18.50   |
|           |            | 50      | 0         | 17.59   | 17.57   | 17.57   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 17.42   | 17.42   | 17.51   | 18.50   |
|           |            | 1       | 38        | 17.30   | 17.37   | 17.41   | 18.50   |
|           |            | 1       | 74        | 17.64   | 17.56   | 17.53   | 18.50   |
|           |            | 36      | 0         | 17.70   | 17.62   | 17.53   | 18.50   |
|           |            | 36      | 18        | 17.55   | 17.65   | 17.64   | 18.50   |
|           |            | 36      | 39        | 17.57   | 17.51   | 17.48   | 18.50   |
|           |            | 75      | 0         | 17.42   | 17.47   | 17.49   | 18.50   |
|           | 16QAM      | 1       | 0         | 17.52   | 17.45   | 17.55   | 18.50   |
|           |            | 1       | 38        | 17.57   | 17.57   | 17.53   | 18.50   |
|           |            | 1       | 74        | 17.68   | 17.63   | 17.73   | 18.50   |
|           |            | 36      | 0         | 17.61   | 17.62   | 17.59   | 18.50   |
|           |            | 36      | 18        | 17.33   | 17.42   | 17.33   | 18.50   |
|           |            | 36      | 39        | 17.64   | 17.58   | 17.53   | 18.50   |
|           |            | 75      | 0         | 17.52   | 17.57   | 17.63   | 18.50   |
|           | 64QAM      | 1       | 0         | 17.53   | 17.60   | 17.58   | 18.50   |
|           |            | 1       | 38        | 17.30   | 17.40   | 17.47   | 18.50   |
|           |            | 1       | 74        | 17.52   | 17.58   | 17.55   | 18.50   |
|           |            | 36      | 0         | 17.61   | 17.62   | 17.58   | 18.50   |
|           |            | 36      | 18        | 17.45   | 17.52   | 17.54   | 18.50   |
|           |            | 36      | 39        | 17.56   | 17.51   | 17.54   | 18.50   |
|           |            | 75      | 0         | 17.42   | 17.48   | 17.42   | 18.50   |
|           | 256QAM     | 1       | 0         | 17.49   | 17.48   | 17.52   | 18.50   |
|           |            | 1       | 38        | 17.64   | 17.56   | 17.65   | 18.50   |
|           |            | 1       | 74        | 17.30   | 17.37   | 17.43   | 18.50   |
|           |            | 36      | 0         | 17.69   | 17.60   | 17.67   | 18.50   |
|           |            | 36      | 18        | 17.51   | 17.59   | 17.56   | 18.50   |
|           |            | 36      | 39        | 17.55   | 17.55   | 17.48   | 18.50   |
|           |            | 75      | 0         | 17.55   | 17.47   | 17.37   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 20175   | /       |         |
| 20MHz     | QPSK       | 1       | 0         | /       | 17.46   | /       | 18.50   |
|           |            | 1       | 50        | /       | 17.45   | /       | 18.50   |
|           |            | 1       | 99        | /       | 17.50   | /       | 18.50   |
|           |            | 50      | 0         | /       | 17.55   | /       | 18.50   |
|           |            | 50      | 25        | /       | 17.55   | /       | 18.50   |
|           |            | 50      | 50        | /       | 17.53   | /       | 18.50   |
|           |            | 100     | 0         | /       | 17.44   | /       | 18.50   |
|           | 16QAM      | 1       | 0         | /       | 17.54   | /       | 18.50   |
|           |            | 1       | 50        | /       | 17.59   | /       | 18.50   |
|           |            | 1       | 99        | /       | 17.54   | /       | 18.50   |
|           |            | 50      | 0         | /       | 17.54   | /       | 18.50   |
|           |            | 50      | 25        | /       | 17.50   | /       | 18.50   |
|           |            | 50      | 50        | /       | 17.49   | /       | 18.50   |
|           |            | 100     | 0         | /       | 17.51   | /       | 18.50   |
|           | 64QAM      | 1       | 0         | /       | 17.53   | /       | 18.50   |
|           |            | 1       | 50        | /       | 17.49   | /       | 18.50   |
|           |            | 1       | 99        | /       | 17.58   | /       | 18.50   |
|           |            | 50      | 0         | /       | 17.55   | /       | 18.50   |
|           |            | 50      | 25        | /       | 17.54   | /       | 18.50   |
|           |            | 50      | 50        | /       | 17.53   | /       | 18.50   |
|           |            | 100     | 0         | /       | 17.47   | /       | 18.50   |
|           | 256QAM     | 1       | 0         | /       | 17.56   | /       | 18.50   |
|           |            | 1       | 50        | /       | 17.46   | /       | 18.50   |
|           |            | 1       | 99        | /       | 17.47   | /       | 18.50   |



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|  |  |     |    |   |       |   |       |
|--|--|-----|----|---|-------|---|-------|
|  |  | 50  | 0  | / | 17.56 | / | 18.50 |
|  |  | 50  | 25 | / | 17.50 | / | 18.50 |
|  |  | 50  | 50 | / | 17.51 | / | 18.50 |
|  |  | 100 | 0  | / | 17.45 | / | 18.50 |

| LTE Band 7 DSI 1 |            |         |           | Conducted Power(dBm) |                  |                  |         |
|------------------|------------|---------|-----------|----------------------|------------------|------------------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel<br>20775     | Channel<br>21100 | Channel<br>21425 | Tune up |
| 5MHz             | QPSK       | 1       | 0         | 23.07                | 23.39            | 23.48            | 24.00   |
|                  |            | 1       | 13        | 23.23                | 23.35            | 23.64            | 24.00   |
|                  |            | 1       | 24        | 23.34                | 23.35            | 23.75            | 24.00   |
|                  |            | 12      | 0         | 22.85                | 22.45            | 22.66            | 23.00   |
|                  |            | 12      | 6         | 22.61                | 22.57            | 22.70            | 23.00   |
|                  |            | 12      | 13        | 22.59                | 22.37            | 22.66            | 23.00   |
|                  | 16QAM      | 25      | 0         | 22.44                | 22.54            | 22.64            | 23.00   |
|                  |            | 1       | 0         | 22.18                | 22.40            | 22.54            | 23.00   |
|                  |            | 1       | 13        | 22.86                | 21.95            | 22.71            | 23.00   |
|                  |            | 1       | 24        | 22.59                | 22.35            | 22.85            | 23.00   |
|                  |            | 12      | 0         | 21.85                | 21.52            | 21.22            | 22.00   |
|                  |            | 12      | 6         | 21.75                | 21.47            | 21.69            | 22.00   |
|                  | 64QAM      | 12      | 13        | 21.57                | 21.19            | 21.54            | 22.00   |
|                  |            | 25      | 0         | 21.61                | 21.54            | 21.55            | 22.00   |
|                  |            | 1       | 0         | 20.99                | 20.99            | 21.58            | 22.00   |
|                  |            | 1       | 13        | 21.71                | 21.47            | 21.82            | 22.00   |
|                  |            | 1       | 24        | 21.63                | 21.43            | 21.71            | 22.00   |
|                  |            | 12      | 0         | 20.87                | 20.35            | 20.55            | 21.00   |
| 10MHz            | QPSK       | 12      | 6         | 20.72                | 20.28            | 20.62            | 21.00   |
|                  |            | 12      | 13        | 20.64                | 20.56            | 20.86            | 21.00   |
|                  |            | 25      | 0         | 20.54                | 20.59            | 20.73            | 21.00   |
|                  | 16QAM      | 1       | 0         | 18.59                | 18.24            | 18.51            | 19.00   |
|                  |            | 1       | 13        | 18.51                | 18.49            | 18.76            | 19.00   |
|                  |            | 1       | 24        | 18.61                | 18.29            | 18.86            | 19.00   |
|                  | 64QAM      | 12      | 0         | 18.86                | 18.54            | 18.66            | 19.00   |
|                  |            | 12      | 6         | 18.68                | 18.34            | 18.66            | 19.00   |
|                  |            | 12      | 13        | 18.45                | 18.29            | 18.85            | 19.00   |
|                  |            | 25      | 0         | 18.79                | 18.20            | 18.67            | 19.00   |
| Bandwidth        | Modulation | RB size | RB offset | Channel<br>20800     | Channel<br>21100 | Channel<br>21400 | Tune up |
| 10MHz            | QPSK       | 1       | 0         | 23.02                | 23.44            | 23.51            | 24.00   |
|                  |            | 1       | 25        | 23.20                | 23.30            | 23.63            | 24.00   |
|                  |            | 1       | 49        | 23.33                | 23.30            | 23.80            | 24.00   |
|                  |            | 25      | 0         | 22.85                | 22.37            | 22.62            | 23.00   |
|                  |            | 25      | 13        | 22.69                | 22.47            | 22.73            | 23.00   |
|                  |            | 25      | 25        | 22.55                | 22.46            | 22.68            | 23.00   |
|                  | 16QAM      | 50      | 0         | 22.52                | 22.45            | 22.65            | 23.00   |
|                  |            | 1       | 0         | 22.24                | 22.38            | 22.56            | 23.00   |
|                  |            | 1       | 25        | 22.87                | 22.03            | 22.77            | 23.00   |
|                  |            | 1       | 49        | 22.64                | 22.39            | 22.84            | 23.00   |
|                  |            | 25      | 0         | 21.85                | 21.52            | 21.30            | 22.00   |
|                  |            | 25      | 13        | 21.76                | 21.53            | 21.67            | 22.00   |
| 10MHz            | 64QAM      | 25      | 25        | 21.65                | 21.23            | 21.63            | 22.00   |
|                  |            | 50      | 0         | 21.52                | 21.55            | 21.54            | 22.00   |
|                  |            | 1       | 0         | 21.02                | 20.91            | 21.54            | 22.00   |
|                  |            | 1       | 25        | 21.79                | 21.54            | 21.83            | 22.00   |
|                  |            | 1       | 49        | 21.59                | 21.37            | 21.61            | 22.00   |
|                  |            | 25      | 0         | 20.93                | 20.40            | 20.64            | 21.00   |
|                  | 64QAM      | 25      | 13        | 20.69                | 20.31            | 20.70            | 21.00   |
|                  |            | 25      | 25        | 20.74                | 20.53            | 20.93            | 21.00   |
|                  |            | 50      | 0         | 20.57                | 20.51            | 20.67            | 21.00   |



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|           |            | 1       | 0         | 18.60            | 18.17            | 18.44            | 19.00   |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | 1       | 25        | 18.61            | 18.44            | 18.83            | 19.00   |
|           |            | 1       | 49        | 18.59            | 18.39            | 18.88            | 19.00   |
|           |            | 25      | 0         | 18.90            | 18.49            | 18.63            | 19.00   |
|           |            | 25      | 13        | 18.78            | 18.33            | 18.74            | 19.00   |
|           |            | 25      | 25        | 18.52            | 18.29            | 18.91            | 19.00   |
|           |            | 50      | 0         | 18.74            | 18.24            | 18.73            | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20825 | Channel<br>21100 | Channel<br>21375 | Tune up |
| 15MHz     | QPSK       | 1       | 0         | 23.08            | 23.44            | 23.55            | 24.00   |
|           |            | 1       | 38        | 23.27            | 23.39            | 23.69            | 24.00   |
|           |            | 1       | 74        | 23.35            | 23.32            | 23.70            | 24.00   |
|           |            | 36      | 0         | 22.84            | 22.41            | 22.65            | 23.00   |
|           |            | 36      | 18        | 22.69            | 22.42            | 22.75            | 23.00   |
|           |            | 36      | 39        | 22.56            | 22.42            | 22.77            | 23.00   |
|           |            | 75      | 0         | 22.61            | 22.39            | 22.59            | 23.00   |
|           | 16QAM      | 1       | 0         | 22.16            | 22.35            | 22.58            | 23.00   |
|           |            | 1       | 38        | 22.89            | 22.08            | 22.69            | 23.00   |
|           |            | 1       | 74        | 22.58            | 22.45            | 22.89            | 23.00   |
|           |            | 36      | 0         | 21.88            | 21.46            | 21.38            | 22.00   |
|           |            | 36      | 18        | 21.74            | 21.52            | 21.61            | 22.00   |
|           |            | 36      | 39        | 21.62            | 21.26            | 21.64            | 22.00   |
|           |            | 75      | 0         | 21.59            | 21.45            | 21.62            | 22.00   |
|           | 64QAM      | 1       | 0         | 21.10            | 21.00            | 21.46            | 22.00   |
|           |            | 1       | 38        | 21.82            | 21.45            | 21.81            | 22.00   |
|           |            | 1       | 74        | 21.56            | 21.41            | 21.65            | 22.00   |
|           |            | 36      | 0         | 20.98            | 20.33            | 20.64            | 21.00   |
|           |            | 36      | 18        | 20.69            | 20.41            | 20.74            | 21.00   |
|           |            | 36      | 39        | 20.65            | 20.52            | 20.83            | 21.00   |
|           |            | 75      | 0         | 20.67            | 20.49            | 20.62            | 21.00   |
|           | 256QAM     | 1       | 0         | 18.64            | 18.26            | 18.51            | 19.00   |
|           |            | 1       | 38        | 18.68            | 18.44            | 18.85            | 19.00   |
|           |            | 1       | 74        | 18.50            | 18.45            | 18.84            | 19.00   |
|           |            | 36      | 0         | 18.84            | 18.48            | 18.63            | 19.00   |
|           |            | 36      | 18        | 18.74            | 18.29            | 18.71            | 19.00   |
|           |            | 36      | 39        | 18.45            | 18.35            | 18.83            | 19.00   |
|           |            | 75      | 0         | 18.74            | 18.33            | 18.74            | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20850 | Channel<br>21100 | Channel<br>21350 | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 23.05            | 23.46            | 23.62            | 24.00   |
|           |            | 1       | 50        | 23.25            | 23.49            | 23.65            | 24.00   |
|           |            | 1       | 99        | 23.27            | 23.35            | 23.63            | 24.00   |
|           |            | 50      | 0         | 22.89            | 22.41            | 22.70            | 23.00   |
|           |            | 50      | 25        | 22.69            | 22.32            | 22.69            | 23.00   |
|           |            | 50      | 50        | 22.57            | 22.35            | 22.85            | 23.00   |
|           |            | 100     | 0         | 22.71            | 22.33            | 22.68            | 23.00   |
|           | 16QAM      | 1       | 0         | 22.26            | 22.33            | 22.52            | 23.00   |
|           |            | 1       | 50        | 22.84            | 22.14            | 22.59            | 23.00   |
|           |            | 1       | 99        | 22.63            | 22.38            | 22.95            | 23.00   |
|           |            | 50      | 0         | 21.89            | 21.37            | 21.48            | 22.00   |
|           |            | 50      | 25        | 21.82            | 21.44            | 21.70            | 22.00   |
|           |            | 50      | 50        | 21.61            | 21.31            | 21.74            | 22.00   |
|           |            | 100     | 0         | 21.69            | 21.41            | 21.59            | 22.00   |
|           | 64QAM      | 1       | 0         | 21.07            | 21.03            | 21.36            | 22.00   |
|           |            | 1       | 50        | 21.82            | 21.45            | 21.80            | 22.00   |
|           |            | 1       | 99        | 21.47            | 21.33            | 21.62            | 22.00   |
|           |            | 50      | 0         | 20.94            | 20.32            | 20.65            | 21.00   |
|           |            | 50      | 25        | 20.75            | 20.41            | 20.64            | 21.00   |
|           |            | 50      | 50        | 20.61            | 20.43            | 20.86            | 21.00   |
|           |            | 100     | 0         | 20.75            | 20.46            | 20.71            | 21.00   |
|           | 256QAM     | 1       | 0         | 18.70            | 18.28            | 18.46            | 19.00   |



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|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 50 | 18.65 | 18.37 | 18.75 | 19.00 |
|  |  | 1   | 99 | 18.44 | 18.48 | 18.80 | 19.00 |
|  |  | 50  | 0  | 18.82 | 18.43 | 18.56 | 19.00 |
|  |  | 50  | 25 | 18.66 | 18.31 | 18.76 | 19.00 |
|  |  | 50  | 50 | 18.50 | 18.35 | 18.84 | 19.00 |
|  |  | 100 | 0  | 18.69 | 18.41 | 18.76 | 19.00 |

| LTE Band 7 DSI 2 |            |         |           | Conducted Power(dBm) |                  |                  |         |
|------------------|------------|---------|-----------|----------------------|------------------|------------------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel<br>20775     | Channel<br>21100 | Channel<br>21425 | Tune up |
| 5MHz             | QPSK       | 1       | 0         | 17.11                | 17.37            | 17.66            | 18.00   |
|                  |            | 1       | 13        | 17.19                | 17.50            | 17.98            | 18.00   |
|                  |            | 1       | 24        | 17.16                | 17.41            | 17.65            | 18.00   |
|                  |            | 12      | 0         | 17.70                | 17.31            | 17.58            | 18.00   |
|                  |            | 12      | 6         | 17.73                | 17.21            | 17.64            | 18.00   |
|                  |            | 12      | 13        | 17.49                | 17.42            | 17.67            | 18.00   |
|                  |            | 25      | 0         | 17.73                | 17.41            | 17.60            | 18.00   |
|                  | 16QAM      | 1       | 0         | 17.50                | 17.27            | 17.42            | 18.00   |
|                  |            | 1       | 13        | 17.37                | 16.98            | 17.52            | 18.00   |
|                  |            | 1       | 24        | 17.62                | 17.48            | 17.62            | 18.00   |
|                  |            | 12      | 0         | 17.47                | 17.24            | 17.45            | 18.00   |
|                  |            | 12      | 6         | 17.41                | 17.41            | 17.66            | 18.00   |
|                  |            | 12      | 13        | 17.58                | 17.29            | 17.74            | 18.00   |
|                  |            | 25      | 0         | 17.69                | 17.56            | 17.58            | 18.00   |
|                  | 64QAM      | 1       | 0         | 17.06                | 17.05            | 17.27            | 18.00   |
|                  |            | 1       | 13        | 17.65                | 17.54            | 17.89            | 18.00   |
|                  |            | 1       | 24        | 17.54                | 17.23            | 17.41            | 18.00   |
|                  |            | 12      | 0         | 17.70                | 17.22            | 17.50            | 18.00   |
|                  |            | 12      | 6         | 17.84                | 17.54            | 17.48            | 18.00   |
|                  |            | 12      | 13        | 17.76                | 17.51            | 17.82            | 18.00   |
|                  |            | 25      | 0         | 17.73                | 17.39            | 17.69            | 18.00   |
|                  | 256QAM     | 1       | 0         | 17.61                | 17.30            | 17.22            | 18.00   |
|                  |            | 1       | 13        | 17.50                | 17.33            | 17.72            | 18.00   |
|                  |            | 1       | 24        | 17.39                | 17.34            | 17.92            | 18.00   |
|                  |            | 12      | 0         | 17.75                | 17.56            | 17.59            | 18.00   |
|                  |            | 12      | 6         | 17.65                | 17.41            | 17.78            | 18.00   |
|                  |            | 12      | 13        | 17.60                | 17.51            | 17.89            | 18.00   |
|                  |            | 25      | 0         | 17.87                | 17.46            | 17.86            | 18.00   |
| Bandwidth        | Modulation | RB size | RB offset | Channel<br>20800     | Channel<br>21100 | Channel<br>21400 | Tune up |
| 10MHz            | QPSK       | 1       | 0         | 17.14                | 17.35            | 17.69            | 18.00   |
|                  |            | 1       | 25        | 17.20                | 17.51            | 17.90            | 18.00   |
|                  |            | 1       | 49        | 17.16                | 17.37            | 17.58            | 18.00   |
|                  |            | 25      | 0         | 17.74                | 17.39            | 17.59            | 18.00   |
|                  |            | 25      | 13        | 17.76                | 17.30            | 17.57            | 18.00   |
|                  |            | 25      | 25        | 17.47                | 17.50            | 17.72            | 18.00   |
|                  |            | 50      | 0         | 17.73                | 17.40            | 17.59            | 18.00   |
|                  | 16QAM      | 1       | 0         | 17.40                | 17.29            | 17.44            | 18.00   |
|                  |            | 1       | 25        | 17.40                | 17.05            | 17.45            | 18.00   |
|                  |            | 1       | 49        | 17.62                | 17.45            | 17.56            | 18.00   |
|                  |            | 25      | 0         | 17.55                | 17.22            | 17.50            | 18.00   |
|                  |            | 25      | 13        | 17.50                | 17.35            | 17.56            | 18.00   |
|                  |            | 25      | 25        | 17.60                | 17.19            | 17.78            | 18.00   |
|                  |            | 50      | 0         | 17.61                | 17.52            | 17.65            | 18.00   |
|                  | 64QAM      | 1       | 0         | 17.05                | 16.95            | 17.29            | 18.00   |
|                  |            | 1       | 25        | 17.75                | 17.44            | 17.84            | 18.00   |
|                  |            | 1       | 49        | 17.55                | 17.20            | 17.51            | 18.00   |
|                  |            | 25      | 0         | 17.60                | 17.29            | 17.51            | 18.00   |
|                  |            | 25      | 13        | 17.83                | 17.52            | 17.56            | 18.00   |



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|           | 256QAM     | 25      | 25        | 17.68            | 17.44            | 17.80            | 18.00   |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | 50      | 0         | 17.76            | 17.42            | 17.72            | 18.00   |
|           |            | 1       | 0         | 17.51            | 17.31            | 17.32            | 18.00   |
|           |            | 1       | 25        | 17.57            | 17.28            | 17.66            | 18.00   |
|           |            | 1       | 49        | 17.48            | 17.40            | 17.87            | 18.00   |
|           |            | 25      | 0         | 17.77            | 17.55            | 17.61            | 18.00   |
|           |            | 25      | 13        | 17.58            | 17.37            | 17.83            | 18.00   |
|           |            | 25      | 25        | 17.61            | 17.43            | 17.96            | 18.00   |
|           |            | 50      | 0         | 17.85            | 17.38            | 17.82            | 18.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20825 | Channel<br>21100 | Channel<br>21375 | Tune up |
| 15MHz     | QPSK       | 1       | 0         | 17.18            | 17.43            | 17.70            | 18.00   |
|           |            | 1       | 38        | 17.29            | 17.47            | 17.82            | 18.00   |
|           |            | 1       | 74        | 17.16            | 17.32            | 17.53            | 18.00   |
|           |            | 36      | 0         | 17.70            | 17.39            | 17.68            | 18.00   |
|           |            | 36      | 18        | 17.68            | 17.24            | 17.64            | 18.00   |
|           |            | 36      | 39        | 17.46            | 17.41            | 17.69            | 18.00   |
|           |            | 75      | 0         | 17.75            | 17.37            | 17.61            | 18.00   |
|           | 16QAM      | 1       | 0         | 17.34            | 17.26            | 17.52            | 18.00   |
|           |            | 1       | 38        | 17.46            | 17.08            | 17.51            | 18.00   |
|           |            | 1       | 74        | 17.69            | 17.46            | 17.64            | 18.00   |
|           |            | 36      | 0         | 17.50            | 17.31            | 17.58            | 18.00   |
|           |            | 36      | 18        | 17.59            | 17.35            | 17.66            | 18.00   |
|           |            | 36      | 39        | 17.54            | 17.21            | 17.69            | 18.00   |
|           |            | 75      | 0         | 17.51            | 17.43            | 17.63            | 18.00   |
|           | 64QAM      | 1       | 0         | 17.01            | 17.03            | 17.32            | 18.00   |
|           |            | 1       | 38        | 17.81            | 17.54            | 17.76            | 18.00   |
|           |            | 1       | 74        | 17.50            | 17.29            | 17.58            | 18.00   |
|           |            | 36      | 0         | 17.58            | 17.28            | 17.53            | 18.00   |
|           |            | 36      | 18        | 17.78            | 17.43            | 17.61            | 18.00   |
|           |            | 36      | 39        | 17.64            | 17.39            | 17.74            | 18.00   |
|           |            | 75      | 0         | 17.77            | 17.39            | 17.75            | 18.00   |
|           | 256QAM     | 1       | 0         | 17.60            | 17.28            | 17.39            | 18.00   |
|           |            | 1       | 38        | 17.54            | 17.28            | 17.75            | 18.00   |
|           |            | 1       | 74        | 17.43            | 17.38            | 17.83            | 18.00   |
|           |            | 36      | 0         | 17.79            | 17.46            | 17.57            | 18.00   |
|           |            | 36      | 18        | 17.66            | 17.30            | 17.87            | 18.00   |
|           |            | 36      | 39        | 17.54            | 17.40            | 17.92            | 18.00   |
|           |            | 75      | 0         | 17.87            | 17.32            | 17.82            | 18.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20850 | Channel<br>21100 | Channel<br>21350 | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 17.10            | 17.50            | 17.66            | 18.00   |
|           |            | 1       | 50        | 17.28            | 17.44            | 17.72            | 18.00   |
|           |            | 1       | 99        | 17.24            | 17.32            | 17.61            | 18.00   |
|           |            | 50      | 0         | 17.61            | 17.46            | 17.66            | 18.00   |
|           |            | 50      | 25        | 17.63            | 17.33            | 17.68            | 18.00   |
|           |            | 50      | 50        | 17.55            | 17.33            | 17.64            | 18.00   |
|           |            | 100     | 0         | 17.68            | 17.38            | 17.66            | 18.00   |
|           | 16QAM      | 1       | 0         | 17.26            | 17.30            | 17.49            | 18.00   |
|           |            | 1       | 50        | 17.51            | 17.13            | 17.60            | 18.00   |
|           |            | 1       | 99        | 17.66            | 17.41            | 17.65            | 18.00   |
|           |            | 50      | 0         | 17.60            | 17.34            | 17.53            | 18.00   |
|           |            | 50      | 25        | 17.55            | 17.44            | 17.59            | 18.00   |
|           |            | 50      | 50        | 17.59            | 17.27            | 17.71            | 18.00   |
|           |            | 100     | 0         | 17.54            | 17.46            | 17.61            | 18.00   |
|           | 64QAM      | 1       | 0         | 17.11            | 17.08            | 17.35            | 18.00   |
|           |            | 1       | 50        | 17.81            | 17.50            | 17.80            | 18.00   |
|           |            | 1       | 99        | 17.51            | 17.34            | 17.60            | 18.00   |
|           |            | 50      | 0         | 17.64            | 17.33            | 17.61            | 18.00   |
|           |            | 50      | 25        | 17.70            | 17.40            | 17.65            | 18.00   |
|           |            | 50      | 50        | 17.66            | 17.38            | 17.84            | 18.00   |



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|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 100 | 0  | 17.80 | 17.48 | 17.66 | 18.00 |
|  | 256QAM | 1   | 0  | 17.65 | 17.22 | 17.47 | 18.00 |
|  |        | 1   | 50 | 17.62 | 17.36 | 17.80 | 18.00 |
|  |        | 1   | 99 | 17.44 | 17.46 | 17.82 | 18.00 |
|  |        | 50  | 0  | 17.77 | 17.45 | 17.61 | 18.00 |
|  |        | 50  | 25 | 17.69 | 17.37 | 17.78 | 18.00 |
|  |        | 50  | 50 | 17.55 | 17.36 | 17.83 | 18.00 |
|  |        | 100 | 0  | 17.80 | 17.35 | 17.75 | 18.00 |

| LTE Band 7 DSI 3 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz             | QPSK       | 1       | 0         | 20775                | 21100   | 21425   | 17.00   |
|                  |            | 1       | 13        | 16.28                | 16.50   | 16.75   | 17.00   |
|                  |            | 1       | 24        | 16.27                | 16.45   | 16.76   | 17.00   |
|                  |            | 12      | 0         | 16.24                | 16.18   | 16.68   | 17.00   |
|                  |            | 12      | 6         | 16.61                | 16.36   | 16.58   | 17.00   |
|                  |            | 12      | 13        | 16.72                | 16.39   | 16.52   | 17.00   |
|                  |            | 25      | 0         | 16.64                | 16.46   | 16.67   | 17.00   |
|                  | 16QAM      | 25      | 0         | 16.52                | 16.45   | 16.56   | 17.00   |
|                  |            | 1       | 0         | 16.39                | 16.39   | 16.29   | 17.00   |
|                  |            | 1       | 13        | 16.43                | 16.07   | 16.71   | 17.00   |
|                  |            | 1       | 24        | 16.73                | 16.28   | 16.49   | 17.00   |
|                  |            | 12      | 0         | 16.68                | 16.46   | 16.63   | 17.00   |
|                  |            | 12      | 6         | 16.39                | 16.45   | 16.64   | 17.00   |
|                  |            | 12      | 13        | 16.47                | 16.36   | 16.78   | 17.00   |
|                  | 64QAM      | 25      | 0         | 16.42                | 16.30   | 16.45   | 17.00   |
|                  |            | 1       | 0         | 16.05                | 16.06   | 16.28   | 17.00   |
|                  |            | 1       | 13        | 16.87                | 16.55   | 16.76   | 17.00   |
|                  |            | 1       | 24        | 16.64                | 16.44   | 16.72   | 17.00   |
|                  |            | 12      | 0         | 16.72                | 16.37   | 16.72   | 17.00   |
|                  |            | 12      | 6         | 16.67                | 16.28   | 16.54   | 17.00   |
|                  |            | 12      | 13        | 16.77                | 16.40   | 16.97   | 17.00   |
|                  | 256QAM     | 25      | 0         | 16.92                | 16.64   | 16.73   | 17.00   |
|                  |            | 1       | 0         | 16.50                | 16.15   | 16.39   | 17.00   |
|                  |            | 1       | 13        | 16.64                | 16.60   | 16.85   | 17.00   |
|                  |            | 1       | 24        | 16.60                | 16.28   | 16.60   | 17.00   |
|                  |            | 12      | 0         | 16.96                | 16.56   | 16.50   | 17.00   |
|                  |            | 12      | 6         | 16.67                | 16.32   | 16.74   | 17.00   |
|                  |            | 12      | 13        | 16.48                | 16.40   | 16.88   | 17.00   |
| 10MHz            | QPSK       | 25      | 0         | 16.78                | 16.26   | 16.75   | 17.00   |
|                  |            | 1       | 0         | 16.19                | 16.48   | 16.65   | 17.00   |
|                  |            | 1       | 25        | 16.20                | 16.47   | 16.77   | 17.00   |
|                  |            | 1       | 49        | 16.22                | 16.26   | 16.71   | 17.00   |
|                  |            | 25      | 0         | 16.70                | 16.39   | 16.57   | 17.00   |
|                  |            | 25      | 13        | 16.77                | 16.49   | 16.58   | 17.00   |
|                  |            | 25      | 25        | 16.54                | 16.48   | 16.65   | 17.00   |
|                  | 16QAM      | 50      | 0         | 16.52                | 16.37   | 16.47   | 17.00   |
|                  |            | 1       | 0         | 16.32                | 16.35   | 16.39   | 17.00   |
|                  |            | 1       | 25        | 16.51                | 16.15   | 16.72   | 17.00   |
|                  |            | 1       | 49        | 16.71                | 16.34   | 16.45   | 17.00   |
|                  |            | 25      | 0         | 16.59                | 16.38   | 16.62   | 17.00   |
|                  |            | 25      | 13        | 16.41                | 16.47   | 16.72   | 17.00   |
|                  |            | 25      | 25        | 16.52                | 16.37   | 16.69   | 17.00   |
|                  | 64QAM      | 50      | 0         | 16.49                | 16.40   | 16.50   | 17.00   |
|                  |            | 1       | 0         | 16.01                | 16.11   | 16.33   | 17.00   |
|                  |            | 1       | 25        | 16.99                | 16.52   | 16.74   | 17.00   |
|                  |            | 1       | 49        | 16.64                | 16.45   | 16.74   | 17.00   |



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|           |            | 25      | 0         | 16.76            | 16.35            | 16.73            | 17.00   |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | 25      | 13        | 16.67            | 16.37            | 16.58            | 17.00   |
|           |            | 25      | 25        | 16.72            | 16.43            | 16.98            | 17.00   |
|           |            | 50      | 0         | 16.83            | 16.61            | 16.79            | 17.00   |
|           | 256QAM     | 1       | 0         | 16.54            | 16.12            | 16.48            | 17.00   |
|           |            | 1       | 25        | 16.73            | 16.55            | 16.76            | 17.00   |
|           |            | 1       | 49        | 16.57            | 16.33            | 16.70            | 17.00   |
|           |            | 25      | 0         | 16.94            | 16.56            | 16.52            | 17.00   |
|           |            | 25      | 13        | 16.60            | 16.32            | 16.80            | 17.00   |
|           |            | 25      | 25        | 16.52            | 16.47            | 16.96            | 17.00   |
|           |            | 50      | 0         | 16.83            | 16.33            | 16.84            | 17.00   |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20825 | Channel<br>21100 | Channel<br>21375 | Tune up |
| 15MHz     | QPSK       | 1       | 0         | 16.11            | 16.53            | 16.68            | 17.00   |
|           |            | 1       | 38        | 16.17            | 16.47            | 16.84            | 17.00   |
|           |            | 1       | 74        | 16.26            | 16.36            | 16.65            | 17.00   |
|           |            | 36      | 0         | 16.62            | 16.42            | 16.60            | 17.00   |
|           |            | 36      | 18        | 16.74            | 16.42            | 16.61            | 17.00   |
|           |            | 36      | 39        | 16.53            | 16.40            | 16.63            | 17.00   |
|           | 16QAM      | 75      | 0         | 16.62            | 16.41            | 16.55            | 17.00   |
|           |            | 1       | 0         | 16.34            | 16.39            | 16.46            | 17.00   |
|           |            | 1       | 38        | 16.53            | 16.06            | 16.69            | 17.00   |
|           |            | 1       | 74        | 16.63            | 16.41            | 16.54            | 17.00   |
|           |            | 36      | 0         | 16.57            | 16.48            | 16.58            | 17.00   |
|           |            | 36      | 18        | 16.50            | 16.52            | 16.67            | 17.00   |
|           | 64QAM      | 36      | 39        | 16.58            | 16.32            | 16.68            | 17.00   |
|           |            | 75      | 0         | 16.56            | 16.40            | 16.57            | 17.00   |
|           |            | 1       | 0         | 16.10            | 16.05            | 16.39            | 17.00   |
|           |            | 1       | 38        | 16.94            | 16.48            | 16.84            | 17.00   |
|           |            | 1       | 74        | 16.58            | 16.37            | 16.67            | 17.00   |
|           |            | 36      | 0         | 16.77            | 16.28            | 16.63            | 17.00   |
|           | 256QAM     | 36      | 18        | 16.62            | 16.38            | 16.68            | 17.00   |
|           |            | 36      | 39        | 16.79            | 16.37            | 16.89            | 17.00   |
|           |            | 75      | 0         | 16.81            | 16.60            | 16.71            | 17.00   |
|           |            | 1       | 0         | 16.56            | 16.18            | 16.55            | 17.00   |
|           |            | 1       | 38        | 16.74            | 16.47            | 16.80            | 17.00   |
|           |            | 1       | 74        | 16.55            | 16.40            | 16.79            | 17.00   |
| 20MHz     | QPSK       | 36      | 0         | 16.92            | 16.52            | 16.57            | 17.00   |
|           |            | 36      | 18        | 16.65            | 16.37            | 16.78            | 17.00   |
|           |            | 36      | 39        | 16.61            | 16.37            | 16.93            | 17.00   |
|           |            | 75      | 0         | 16.80            | 16.32            | 16.83            | 17.00   |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
|           | 16QAM      | 1       | 0         | 16.13            | 16.52            | 16.65            | 17.00   |
|           |            | 1       | 50        | 16.25            | 16.47            | 16.77            | 17.00   |
|           |            | 1       | 99        | 16.23            | 16.27            | 16.62            | 17.00   |
|           |            | 50      | 0         | 16.60            | 16.50            | 16.64            | 17.00   |
|           |            | 50      | 25        | 16.65            | 16.36            | 16.68            | 17.00   |
|           |            | 50      | 50        | 16.52            | 16.37            | 16.59            | 17.00   |
|           | 64QAM      | 100     | 0         | 16.63            | 16.34            | 16.65            | 17.00   |
|           |            | 1       | 0         | 16.28            | 16.30            | 16.48            | 17.00   |
|           |            | 1       | 50        | 16.47            | 16.15            | 16.61            | 17.00   |
|           |            | 1       | 99        | 16.66            | 16.43            | 16.64            | 17.00   |
|           |            | 50      | 0         | 16.60            | 16.39            | 16.52            | 17.00   |
|           |            | 50      | 25        | 16.60            | 16.44            | 16.61            | 17.00   |
|           |            | 50      | 50        | 16.63            | 16.27            | 16.70            | 17.00   |
|           |            | 100     | 0         | 16.50            | 16.46            | 16.65            | 17.00   |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
|           | 256QAM     | 1       | 0         | 16.14            | 16.07            | 16.39            | 17.00   |
|           |            | 1       | 50        | 16.84            | 16.46            | 16.77            | 17.00   |
|           |            | 1       | 99        | 16.52            | 16.32            | 16.62            | 17.00   |
|           |            | 50      | 0         | 16.69            | 16.35            | 16.56            | 17.00   |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20850 | Channel<br>21100 | Channel<br>21350 | Tune up |



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|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 50  | 25 | 16.72 | 16.36 | 16.64 | 17.00 |
|  |        | 50  | 50 | 16.69 | 16.35 | 16.85 | 17.00 |
|  |        | 100 | 0  | 16.79 | 16.52 | 16.63 | 17.00 |
|  | 256QAM | 1   | 0  | 16.60 | 16.26 | 16.48 | 17.00 |
|  |        | 1   | 50 | 16.65 | 16.38 | 16.77 | 17.00 |
|  |        | 1   | 99 | 16.45 | 16.41 | 16.79 | 17.00 |
|  |        | 50  | 0  | 16.82 | 16.48 | 16.64 | 17.00 |
|  |        | 50  | 25 | 16.74 | 16.34 | 16.74 | 17.00 |
|  |        | 50  | 50 | 16.53 | 16.36 | 16.84 | 17.00 |
|  |        | 100 | 0  | 16.80 | 16.35 | 16.79 | 17.00 |

| LTE Band 66 DSI 1 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz            | QPSK       | 1       | 0         | 23.85                | 23.81   | 23.94   | 24.00   |
|                   |            | 1       | 2         | 23.69                | 23.81   | 23.66   | 24.00   |
|                   |            | 1       | 5         | 23.85                | 23.52   | 23.63   | 24.00   |
|                   |            | 3       | 0         | 23.56                | 23.99   | 23.70   | 24.00   |
|                   |            | 3       | 1         | 24.00                | 23.56   | 23.36   | 24.00   |
|                   |            | 3       | 3         | 23.87                | 23.96   | 23.98   | 24.00   |
|                   | 16QAM      | 6       | 0         | 22.58                | 22.89   | 22.88   | 23.00   |
|                   |            | 1       | 0         | 22.77                | 22.93   | 22.66   | 23.00   |
|                   |            | 1       | 2         | 22.63                | 22.78   | 22.86   | 23.00   |
|                   |            | 1       | 5         | 22.93                | 22.71   | 22.79   | 23.00   |
|                   |            | 3       | 0         | 22.75                | 23.00   | 22.91   | 23.00   |
|                   |            | 3       | 1         | 22.95                | 22.85   | 22.79   | 23.00   |
|                   | 64QAM      | 3       | 3         | 22.81                | 22.97   | 22.57   | 23.00   |
|                   |            | 6       | 0         | 21.75                | 21.88   | 21.91   | 22.00   |
|                   |            | 1       | 0         | 21.83                | 21.76   | 21.71   | 22.00   |
|                   |            | 1       | 2         | 21.71                | 21.86   | 21.59   | 22.00   |
|                   |            | 1       | 5         | 21.87                | 21.86   | 21.85   | 22.00   |
|                   |            | 3       | 0         | 21.65                | 21.78   | 21.68   | 22.00   |
|                   | 256QAM     | 3       | 1         | 21.76                | 21.98   | 21.76   | 22.00   |
|                   |            | 3       | 3         | 21.92                | 21.92   | 21.53   | 22.00   |
|                   |            | 6       | 0         | 20.79                | 20.82   | 20.89   | 21.00   |
|                   |            | 1       | 0         | 18.93                | 18.83   | 18.89   | 19.00   |
|                   |            | 1       | 2         | 18.76                | 18.91   | 18.89   | 19.00   |
|                   |            | 1       | 5         | 18.60                | 19.00   | 18.81   | 19.00   |
| 3MHz              | QPSK       | 3       | 0         | 18.61                | 18.70   | 18.90   | 19.00   |
|                   |            | 3       | 1         | 18.77                | 18.97   | 18.77   | 19.00   |
|                   |            | 3       | 3         | 18.69                | 18.62   | 18.89   | 19.00   |
|                   |            | 6       | 0         | 18.73                | 18.77   | 18.70   | 19.00   |
|                   | 16QAM      | 1       | 0         | 23.77                | 23.87   | 23.85   | 24.00   |
|                   |            | 1       | 7         | 23.67                | 23.85   | 23.74   | 24.00   |
|                   |            | 1       | 14        | 23.85                | 23.52   | 23.73   | 24.00   |
|                   |            | 8       | 0         | 22.56                | 22.92   | 22.71   | 23.00   |
|                   |            | 8       | 4         | 22.96                | 22.58   | 22.42   | 23.00   |
|                   |            | 8       | 7         | 22.77                | 22.88   | 22.92   | 23.00   |
|                   | 64QAM      | 15      | 0         | 22.68                | 22.99   | 22.78   | 23.00   |
|                   |            | 1       | 0         | 22.70                | 22.99   | 22.67   | 23.00   |
|                   |            | 1       | 7         | 22.67                | 22.84   | 22.76   | 23.00   |
|                   |            | 1       | 14        | 22.87                | 22.61   | 22.87   | 23.00   |
|                   |            | 8       | 0         | 21.68                | 21.91   | 21.89   | 22.00   |
|                   |            | 8       | 4         | 21.89                | 21.94   | 21.88   | 22.00   |
|                   | 256QAM     | 8       | 7         | 21.99                | 21.88   | 21.66   | 22.00   |
|                   |            | 15      | 0         | 21.84                | 21.92   | 21.97   | 22.00   |
|                   |            | 1       | 0         | 21.92                | 21.82   | 21.69   | 22.00   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 7         | 21.78   | 21.89   | 21.58   | 22.00   |
|           |            | 1       | 14        | 21.80   | 21.80   | 21.92   | 22.00   |
|           |            | 8       | 0         | 20.56   | 20.78   | 20.64   | 21.00   |
|           |            | 8       | 4         | 20.69   | 20.89   | 20.74   | 21.00   |
|           |            | 8       | 7         | 20.94   | 21.00   | 20.61   | 21.00   |
|           |            | 15      | 0         | 20.89   | 20.83   | 20.97   | 21.00   |
|           | 256QAM     | 1       | 0         | 18.89   | 18.82   | 18.88   | 19.00   |
|           |            | 1       | 7         | 18.77   | 18.95   | 18.88   | 19.00   |
|           |            | 1       | 14        | 18.70   | 18.91   | 18.85   | 19.00   |
|           |            | 8       | 0         | 18.71   | 18.63   | 18.81   | 19.00   |
|           |            | 8       | 4         | 18.79   | 19.00   | 18.79   | 19.00   |
|           |            | 8       | 7         | 18.74   | 18.65   | 18.96   | 19.00   |
|           |            | 15      | 0         | 18.81   | 18.79   | 18.66   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 23.73   | 23.96   | 23.89   | 24.00   |
|           |            | 1       | 13        | 23.76   | 23.88   | 23.80   | 24.00   |
|           |            | 1       | 24        | 23.88   | 23.55   | 23.68   | 24.00   |
|           |            | 12      | 0         | 22.66   | 22.84   | 22.70   | 23.00   |
|           |            | 12      | 6         | 22.89   | 22.65   | 22.49   | 23.00   |
|           |            | 12      | 13        | 22.86   | 22.84   | 22.85   | 23.00   |
|           |            | 25      | 0         | 22.67   | 22.97   | 22.68   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.80   | 22.93   | 22.73   | 23.00   |
|           |            | 1       | 13        | 22.59   | 22.80   | 22.70   | 23.00   |
|           |            | 1       | 24        | 22.90   | 22.69   | 22.96   | 23.00   |
|           |            | 12      | 0         | 21.66   | 21.87   | 21.94   | 22.00   |
|           |            | 12      | 6         | 21.80   | 21.85   | 21.83   | 22.00   |
|           |            | 12      | 13        | 21.94   | 21.88   | 21.73   | 22.00   |
|           |            | 25      | 0         | 21.77   | 21.93   | 21.99   | 22.00   |
|           | 64QAM      | 1       | 0         | 21.86   | 21.82   | 21.67   | 22.00   |
|           |            | 1       | 13        | 21.74   | 21.94   | 21.64   | 22.00   |
|           |            | 1       | 24        | 21.85   | 21.85   | 21.87   | 22.00   |
|           |            | 12      | 0         | 20.63   | 20.87   | 20.54   | 21.00   |
|           |            | 12      | 6         | 20.74   | 20.84   | 20.76   | 21.00   |
|           |            | 12      | 13        | 20.94   | 20.91   | 20.70   | 21.00   |
|           |            | 25      | 0         | 20.88   | 20.82   | 20.96   | 21.00   |
|           | 256QAM     | 1       | 0         | 18.82   | 18.84   | 18.98   | 19.00   |
|           |            | 1       | 13        | 18.74   | 19.00   | 18.89   | 19.00   |
|           |            | 1       | 24        | 18.78   | 18.87   | 18.75   | 19.00   |
|           |            | 12      | 0         | 18.64   | 18.60   | 18.71   | 19.00   |
|           |            | 12      | 6         | 18.89   | 18.90   | 18.77   | 19.00   |
|           |            | 12      | 13        | 18.71   | 18.68   | 18.87   | 19.00   |
|           |            | 25      | 0         | 18.79   | 18.82   | 18.60   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |
| 10MHz     | QPSK       | 1       | 0         | 23.74   | 23.94   | 23.82   | 24.00   |
|           |            | 1       | 25        | 23.84   | 23.92   | 23.82   | 24.00   |
|           |            | 1       | 49        | 23.86   | 23.60   | 23.77   | 24.00   |
|           |            | 25      | 0         | 22.67   | 22.83   | 22.76   | 23.00   |
|           |            | 25      | 13        | 22.80   | 22.70   | 22.58   | 23.00   |
|           |            | 25      | 25        | 22.79   | 22.94   | 22.85   | 23.00   |
|           |            | 50      | 0         | 22.65   | 22.96   | 22.73   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.75   | 22.84   | 22.81   | 23.00   |
|           |            | 1       | 25        | 22.60   | 22.80   | 22.71   | 23.00   |
|           |            | 1       | 49        | 22.86   | 22.67   | 22.94   | 23.00   |
|           |            | 25      | 0         | 21.74   | 21.95   | 21.93   | 22.00   |
|           |            | 25      | 13        | 21.82   | 21.91   | 21.93   | 22.00   |
|           |            | 25      | 25        | 21.90   | 21.91   | 21.78   | 22.00   |
|           |            | 50      | 0         | 21.75   | 21.83   | 21.91   | 22.00   |
|           | 64QAM      | 1       | 0         | 21.88   | 21.80   | 21.76   | 22.00   |
|           |            | 1       | 25        | 21.76   | 21.87   | 21.62   | 22.00   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 49        | 21.81   | 21.94   | 21.94   | 22.00   |
|           |            | 25      | 0         | 20.67   | 20.77   | 20.58   | 21.00   |
|           |            | 25      | 13        | 20.69   | 20.88   | 20.85   | 21.00   |
|           |            | 25      | 25        | 20.97   | 20.92   | 20.78   | 21.00   |
|           |            | 50      | 0         | 20.85   | 20.74   | 20.86   | 21.00   |
|           | 256QAM     | 1       | 0         | 18.77   | 18.81   | 18.96   | 19.00   |
|           |            | 1       | 25        | 18.80   | 18.91   | 18.83   | 19.00   |
|           |            | 1       | 49        | 18.86   | 18.97   | 18.76   | 19.00   |
|           |            | 25      | 0         | 18.69   | 18.65   | 18.70   | 19.00   |
|           |            | 25      | 13        | 18.93   | 18.80   | 18.87   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 23.83   | 23.94   | 23.87   | 24.00   |
|           |            | 1       | 38        | 23.75   | 23.89   | 23.80   | 24.00   |
|           |            | 1       | 74        | 23.84   | 23.70   | 23.81   | 24.00   |
|           |            | 36      | 0         | 22.69   | 22.88   | 22.82   | 23.00   |
|           |            | 36      | 18        | 22.86   | 22.75   | 22.67   | 23.00   |
|           |            | 36      | 39        | 22.82   | 22.87   | 22.83   | 23.00   |
|           | 16QAM      | 75      | 0         | 22.70   | 22.95   | 22.70   | 23.00   |
|           |            | 1       | 0         | 22.76   | 22.88   | 22.83   | 23.00   |
|           |            | 1       | 38        | 22.66   | 22.80   | 22.72   | 23.00   |
|           |            | 1       | 74        | 22.95   | 22.71   | 22.86   | 23.00   |
|           |            | 36      | 0         | 21.84   | 21.88   | 21.83   | 22.00   |
|           |            | 36      | 18        | 21.90   | 21.89   | 21.87   | 22.00   |
|           | 64QAM      | 36      | 39        | 21.82   | 21.95   | 21.81   | 22.00   |
|           |            | 75      | 0         | 21.81   | 21.82   | 21.89   | 22.00   |
|           |            | 1       | 0         | 21.86   | 21.84   | 21.81   | 22.00   |
|           |            | 1       | 38        | 21.67   | 21.88   | 21.68   | 22.00   |
|           |            | 1       | 74        | 21.85   | 22.00   | 21.84   | 22.00   |
|           |            | 36      | 0         | 20.66   | 20.74   | 20.65   | 21.00   |
|           | 256QAM     | 36      | 18        | 20.64   | 20.86   | 20.76   | 21.00   |
|           |            | 36      | 39        | 20.91   | 20.83   | 20.69   | 21.00   |
|           |            | 75      | 0         | 20.78   | 20.84   | 20.80   | 21.00   |
|           |            | 1       | 0         | 18.74   | 18.82   | 18.87   | 19.00   |
|           |            | 1       | 38        | 18.77   | 18.89   | 18.81   | 19.00   |
|           |            | 1       | 74        | 18.87   | 18.98   | 18.78   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 23.93   | 23.95   | 23.82   | 24.00   |
|           |            | 1       | 50        | 23.78   | 23.87   | 23.77   | 24.00   |
|           |            | 1       | 99        | 23.76   | 23.77   | 23.74   | 24.00   |
|           |            | 50      | 0         | 22.69   | 22.79   | 22.72   | 23.00   |
|           |            | 50      | 25        | 22.80   | 22.79   | 22.77   | 23.00   |
|           |            | 50      | 50        | 22.88   | 22.91   | 22.74   | 23.00   |
|           | 16QAM      | 100     | 0         | 22.74   | 22.87   | 22.70   | 23.00   |
|           |            | 1       | 0         | 22.76   | 22.90   | 22.81   | 23.00   |
|           |            | 1       | 50        | 22.60   | 22.72   | 22.77   | 23.00   |
|           |            | 1       | 99        | 22.85   | 22.79   | 22.86   | 23.00   |
|           |            | 50      | 0         | 21.78   | 21.86   | 21.73   | 22.00   |
|           |            | 50      | 25        | 21.83   | 21.90   | 21.77   | 22.00   |
|           | 64QAM      | 50      | 50        | 21.90   | 21.88   | 21.72   | 22.00   |
|           |            | 100     | 0         | 21.76   | 21.82   | 21.81   | 22.00   |
|           |            | 1       | 0         | 21.79   | 21.85   | 21.72   | 22.00   |
|           |            | 1       | 50        | 21.72   | 21.84   | 21.65   | 22.00   |
|           |            | 1       | 99        | 21.95   | 21.90   | 21.80   | 22.00   |



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# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZSAR-TRF-01-A05 Rev. A/0 Aug 16,2024

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|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 50  | 0  | 20.67 | 20.81 | 20.75 | 21.00 |
|  |        | 50  | 25 | 20.74 | 20.89 | 20.82 | 21.00 |
|  |        | 50  | 50 | 20.81 | 20.87 | 20.73 | 21.00 |
|  |        | 100 | 0  | 20.82 | 20.83 | 20.75 | 21.00 |
|  | 256QAM | 1   | 0  | 18.82 | 18.90 | 18.85 | 19.00 |
|  |        | 1   | 50 | 18.76 | 18.87 | 18.82 | 19.00 |
|  |        | 1   | 99 | 18.89 | 18.98 | 18.82 | 19.00 |
|  |        | 50  | 0  | 18.68 | 18.83 | 18.72 | 19.00 |
|  |        | 50  | 25 | 18.80 | 18.86 | 18.76 | 19.00 |
|  |        | 50  | 50 | 18.82 | 18.87 | 18.77 | 19.00 |
|  |        | 100 | 0  | 18.79 | 18.76 | 18.70 | 19.00 |

| LTE Band 66 DSI 2 |            |         |           | Conducted Power(dBm) |                   |                   |         |
|-------------------|------------|---------|-----------|----------------------|-------------------|-------------------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel<br>131979    | Channel<br>132322 | Channel<br>132665 | Tune up |
| 1.4MHz            | QPSK       | 1       | 0         | 19.99                | 19.92             | 19.90             | 20.00   |
|                   |            | 1       | 2         | 19.67                | 19.75             | 19.83             | 20.00   |
|                   |            | 1       | 5         | 19.68                | 19.77             | 19.54             | 20.00   |
|                   |            | 3       | 0         | 19.74                | 19.79             | 19.59             | 20.00   |
|                   |            | 3       | 1         | 19.80                | 19.92             | 19.79             | 20.00   |
|                   |            | 3       | 3         | 19.94                | 19.68             | 19.76             | 20.00   |
|                   | 16QAM      | 6       | 0         | 19.78                | 19.76             | 19.57             | 20.00   |
|                   |            | 1       | 0         | 19.78                | 19.74             | 19.68             | 20.00   |
|                   |            | 1       | 2         | 19.68                | 19.88             | 19.72             | 20.00   |
|                   |            | 1       | 5         | 19.82                | 19.73             | 19.89             | 20.00   |
|                   |            | 3       | 0         | 19.87                | 19.90             | 19.85             | 20.00   |
|                   |            | 3       | 1         | 19.93                | 19.04             | 19.99             | 20.00   |
|                   | 64QAM      | 3       | 3         | 19.94                | 19.85             | 19.79             | 20.00   |
|                   |            | 6       | 0         | 19.65                | 19.93             | 19.88             | 20.00   |
|                   |            | 1       | 0         | 19.80                | 19.54             | 19.78             | 20.00   |
|                   |            | 1       | 2         | 19.76                | 19.85             | 19.58             | 20.00   |
|                   |            | 1       | 5         | 19.90                | 19.90             | 19.80             | 20.00   |
|                   |            | 3       | 0         | 19.59                | 19.69             | 19.81             | 20.00   |
|                   | 256QAM     | 3       | 1         | 19.73                | 19.96             | 19.68             | 20.00   |
|                   |            | 3       | 3         | 19.73                | 19.81             | 19.42             | 20.00   |
|                   |            | 6       | 0         | 19.79                | 19.76             | 19.73             | 20.00   |
|                   |            | 1       | 0         | 18.85                | 18.83             | 18.76             | 19.00   |
|                   |            | 1       | 2         | 18.82                | 18.80             | 18.79             | 19.00   |
|                   |            | 1       | 5         | 18.90                | 18.66             | 18.84             | 19.00   |
| 3MHz              | QPSK       | 3       | 0         | 18.79                | 18.75             | 18.79             | 19.00   |
|                   |            | 3       | 1         | 18.80                | 18.96             | 18.81             | 19.00   |
|                   |            | 3       | 3         | 18.79                | 18.92             | 18.86             | 19.00   |
|                   |            | 6       | 0         | 18.58                | 18.61             | 18.67             | 19.00   |
|                   | 16QAM      | 1       | 0         | 19.92                | 19.86             | 19.94             | 20.00   |
|                   |            | 1       | 7         | 19.76                | 19.73             | 19.76             | 20.00   |
|                   |            | 1       | 14        | 19.71                | 19.82             | 19.62             | 20.00   |
|                   |            | 8       | 0         | 19.66                | 19.72             | 19.50             | 20.00   |
|                   |            | 8       | 4         | 19.83                | 19.86             | 19.88             | 20.00   |
|                   |            | 8       | 7         | 19.96                | 19.70             | 19.69             | 20.00   |
|                   |            | 15      | 0         | 19.79                | 19.69             | 19.63             | 20.00   |
|                   |            | 1       | 0         | 19.72                | 19.84             | 19.73             | 20.00   |
|                   |            | 1       | 7         | 19.64                | 19.98             | 19.71             | 20.00   |
|                   |            | 1       | 14        | 19.96                | 19.64             | 19.91             | 20.00   |
|                   |            | 8       | 0         | 19.90                | 19.97             | 19.85             | 20.00   |
|                   |            | 8       | 4         | 19.85                | 19.02             | 19.89             | 20.00   |
|                   |            | 8       | 7         | 19.92                | 19.84             | 19.79             | 20.00   |
|                   |            | 15      | 0         | 19.61                | 19.88             | 19.95             | 20.00   |



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com