

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

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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 21.11   | 21.08   | 20.86   | 22.50   |
|           |            | 50      | 0         | 21.05   | 21.16   | 20.92   | 22.50   |
|           | 16QAM      | 1       | 0         | 21.08   | 20.98   | 20.89   | 22.50   |
|           |            | 1       | 25        | 21.15   | 20.95   | 20.79   | 22.50   |
|           |            | 1       | 49        | 20.97   | 21.22   | 20.58   | 22.50   |
|           |            | 25      | 0         | 20.12   | 20.21   | 19.88   | 21.50   |
|           |            | 25      | 13        | 20.10   | 20.17   | 19.97   | 21.50   |
|           |            | 25      | 25        | 20.04   | 20.05   | 19.80   | 21.50   |
|           |            | 50      | 0         | 20.05   | 20.08   | 19.92   | 21.50   |
|           |            | 1       | 0         | 20.02   | 20.16   | 20.11   | 21.50   |
|           | 64QAM      | 1       | 25        | 20.12   | 19.92   | 19.76   | 21.50   |
|           |            | 1       | 49        | 20.31   | 19.91   | 20.00   | 21.50   |
|           |            | 25      | 0         | 19.04   | 19.07   | 19.00   | 20.50   |
|           |            | 25      | 13        | 19.13   | 19.24   | 19.02   | 20.50   |
|           |            | 25      | 25        | 19.08   | 19.09   | 18.88   | 20.50   |
|           |            | 50      | 0         | 19.12   | 19.22   | 18.87   | 20.50   |
|           |            | 1       | 0         | 17.40   | 17.15   | 17.30   | 18.50   |
|           | 256QAM     | 1       | 25        | 16.86   | 17.22   | 16.98   | 18.50   |
|           |            | 1       | 49        | 16.92   | 17.02   | 17.02   | 18.50   |
|           |            | 25      | 0         | 17.15   | 17.31   | 16.74   | 18.50   |
|           |            | 25      | 13        | 17.30   | 17.11   | 17.06   | 18.50   |
|           |            | 25      | 25        | 17.16   | 17.34   | 16.98   | 18.50   |
|           |            | 50      | 0         | 17.31   | 17.26   | 17.10   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.02   | 22.13   | 21.99   | 23.50   |
|           |            | 1       | 38        | 22.04   | 21.97   | 21.81   | 23.50   |
|           |            | 1       | 74        | 22.06   | 22.04   | 21.79   | 23.50   |
|           |            | 36      | 0         | 21.05   | 21.23   | 20.98   | 22.50   |
|           |            | 36      | 18        | 21.08   | 21.16   | 20.89   | 22.50   |
|           |            | 36      | 39        | 21.16   | 21.06   | 20.86   | 22.50   |
|           |            | 75      | 0         | 21.04   | 21.17   | 20.91   | 22.50   |
|           | 16QAM      | 1       | 0         | 21.04   | 20.98   | 20.87   | 22.50   |
|           |            | 1       | 38        | 21.12   | 20.96   | 20.81   | 22.50   |
|           |            | 1       | 74        | 20.97   | 21.24   | 20.54   | 22.50   |
|           |            | 36      | 0         | 20.11   | 20.21   | 19.93   | 21.50   |
|           |            | 36      | 18        | 20.07   | 20.12   | 19.99   | 21.50   |
|           |            | 36      | 39        | 19.99   | 20.07   | 19.76   | 21.50   |
|           |            | 75      | 0         | 19.99   | 20.13   | 19.90   | 21.50   |



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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  
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|           | 64QAM      | 1       | 0         | 20.06   | 20.10   | 20.13   | 21.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 38        | 20.17   | 19.88   | 19.76   | 21.50   |
|           |            | 1       | 74        | 20.28   | 19.87   | 20.04   | 21.50   |
|           |            | 36      | 0         | 19.04   | 19.10   | 19.00   | 20.50   |
|           |            | 36      | 18        | 19.08   | 19.25   | 19.05   | 20.50   |
|           |            | 36      | 39        | 19.06   | 19.09   | 18.83   | 20.50   |
|           |            | 75      | 0         | 19.09   | 19.21   | 18.87   | 20.50   |
|           | 256QAM     | 1       | 0         | 17.40   | 17.13   | 17.24   | 18.50   |
|           |            | 1       | 38        | 16.85   | 17.20   | 16.99   | 18.50   |
|           |            | 1       | 74        | 16.97   | 17.00   | 17.07   | 18.50   |
|           |            | 36      | 0         | 17.17   | 17.29   | 16.82   | 18.50   |
|           |            | 36      | 18        | 17.24   | 17.11   | 17.06   | 18.50   |
|           |            | 36      | 39        | 17.17   | 17.28   | 16.98   | 18.50   |
|           |            | 75      | 0         | 17.33   | 17.24   | 17.13   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.03   | 22.17   | 22.00   | 23.50   |
|           |            | 1       | 50        | 22.10   | 22.00   | 21.89   | 23.50   |
|           |            | 1       | 99        | 22.12   | 22.11   | 21.88   | 23.50   |
|           |            | 50      | 0         | 21.13   | 21.25   | 21.06   | 22.50   |
|           |            | 50      | 25        | 21.09   | 21.18   | 20.98   | 22.50   |
|           |            | 50      | 50        | 21.20   | 21.12   | 20.88   | 22.50   |
|           |            | 100     | 0         | 21.06   | 21.23   | 20.93   | 22.50   |
|           | 16QAM      | 1       | 0         | 21.11   | 21.06   | 20.93   | 22.50   |
|           |            | 1       | 50        | 21.16   | 20.98   | 20.86   | 22.50   |
|           |            | 1       | 99        | 21.02   | 21.27   | 20.63   | 22.50   |
|           |            | 50      | 0         | 20.17   | 20.27   | 19.97   | 21.50   |
|           |            | 50      | 25        | 20.15   | 20.20   | 20.01   | 21.50   |
|           |            | 50      | 50        | 20.07   | 20.10   | 19.84   | 21.50   |
|           |            | 100     | 0         | 20.06   | 20.17   | 19.99   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.10   | 20.19   | 20.18   | 21.50   |
|           |            | 1       | 50        | 20.21   | 19.97   | 19.79   | 21.50   |
|           |            | 1       | 99        | 20.36   | 19.96   | 20.05   | 21.50   |
|           |            | 50      | 0         | 19.12   | 19.15   | 19.03   | 20.50   |
|           |            | 50      | 25        | 19.16   | 19.27   | 19.08   | 20.50   |
|           |            | 50      | 50        | 19.15   | 19.10   | 18.90   | 20.50   |
|           |            | 100     | 0         | 19.17   | 19.26   | 18.95   | 20.50   |
|           | 256QAM     | 1       | 0         | 17.42   | 17.22   | 17.32   | 18.50   |
|           |            | 1       | 50        | 16.89   | 17.23   | 17.07   | 18.50   |



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|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 99 | 17.00 | 17.06 | 17.08 | 18.50 |
|  |  | 50  | 0  | 17.22 | 17.33 | 16.83 | 18.50 |
|  |  | 50  | 25 | 17.32 | 17.18 | 17.13 | 18.50 |
|  |  | 50  | 50 | 17.24 | 17.35 | 17.07 | 18.50 |
|  |  | 100 | 0  | 17.35 | 17.29 | 17.19 | 18.50 |



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| LTE Band 7 DS12 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz            | QPSK       | 1       | 0         | 17.92                | 18.02   | 17.94   | 19.50   |
|                 |            | 1       | 13        | 18.13                | 18.11   | 17.99   | 19.50   |
|                 |            | 1       | 24        | 18.08                | 18.03   | 17.76   | 19.50   |
|                 |            | 12      | 0         | 18.05                | 18.20   | 18.09   | 19.50   |
|                 |            | 12      | 6         | 18.11                | 18.21   | 18.03   | 19.50   |
|                 |            | 12      | 13        | 18.23                | 18.05   | 17.87   | 19.50   |
|                 |            | 25      | 0         | 18.10                | 18.25   | 18.06   | 19.50   |
|                 | 16QAM      | 1       | 0         | 17.75                | 18.21   | 18.02   | 19.50   |
|                 |            | 1       | 13        | 18.25                | 18.18   | 18.10   | 19.50   |
|                 |            | 1       | 24        | 18.22                | 18.23   | 17.72   | 19.50   |
|                 |            | 12      | 0         | 18.07                | 18.22   | 18.09   | 19.50   |
|                 |            | 12      | 6         | 18.17                | 18.16   | 17.98   | 19.50   |
|                 |            | 12      | 13        | 18.08                | 18.13   | 17.89   | 19.50   |
|                 |            | 25      | 0         | 18.21                | 18.18   | 18.02   | 19.50   |
|                 | 64QAM      | 1       | 0         | 18.02                | 18.35   | 18.05   | 19.50   |
|                 |            | 1       | 13        | 18.25                | 18.16   | 17.61   | 19.50   |
|                 |            | 1       | 24        | 18.22                | 17.86   | 17.85   | 19.50   |
|                 |            | 12      | 0         | 18.15                | 18.17   | 18.01   | 19.50   |
|                 |            | 12      | 6         | 18.23                | 18.10   | 17.99   | 19.50   |
|                 |            | 12      | 13        | 18.11                | 18.02   | 17.88   | 19.50   |
|                 |            | 25      | 0         | 18.23                | 18.20   | 17.96   | 19.50   |
|                 | 256QAM     | 1       | 0         | 16.95                | 17.17   | 17.41   | 18.50   |
|                 |            | 1       | 13        | 17.15                | 17.12   | 16.94   | 18.50   |
|                 |            | 1       | 24        | 17.22                | 16.93   | 17.05   | 18.50   |
|                 |            | 12      | 0         | 17.27                | 17.20   | 17.15   | 18.50   |
|                 |            | 12      | 6         | 17.26                | 17.20   | 16.99   | 18.50   |
|                 |            | 12      | 13        | 17.16                | 17.18   | 16.84   | 18.50   |
|                 |            | 25      | 0         | 17.10                | 17.20   | 17.08   | 18.50   |
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz           | QPSK       | 1       | 0         | 17.89                | 18.10   | 17.97   | 19.50   |
|                 |            | 1       | 25        | 18.09                | 18.08   | 17.92   | 19.50   |
|                 |            | 1       | 49        | 18.08                | 18.05   | 17.73   | 19.50   |
|                 |            | 25      | 0         | 18.10                | 18.25   | 18.08   | 19.50   |
|                 |            | 25      | 13        | 18.17                | 18.21   | 17.98   | 19.50   |



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|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 18.25   | 18.05   | 17.85   | 19.50   |
|           |            | 50      | 0         | 18.14   | 18.28   | 18.07   | 19.50   |
|           | 16QAM      | 1       | 0         | 17.81   | 18.21   | 17.99   | 19.50   |
|           |            | 1       | 25        | 18.26   | 18.22   | 18.02   | 19.50   |
|           |            | 1       | 49        | 18.18   | 18.26   | 17.76   | 19.50   |
|           |            | 25      | 0         | 18.11   | 18.18   | 18.01   | 19.50   |
|           |            | 25      | 13        | 18.20   | 18.11   | 17.96   | 19.50   |
|           |            | 25      | 25        | 18.13   | 18.10   | 17.88   | 19.50   |
|           |            | 50      | 0         | 18.19   | 18.23   | 17.97   | 19.50   |
|           |            | 1       | 0         | 18.06   | 18.36   | 18.05   | 19.50   |
|           | 64QAM      | 1       | 25        | 18.24   | 18.12   | 17.62   | 19.50   |
|           |            | 1       | 49        | 18.22   | 17.93   | 17.92   | 19.50   |
|           |            | 25      | 0         | 18.12   | 18.15   | 18.03   | 19.50   |
|           |            | 25      | 13        | 18.22   | 18.05   | 17.96   | 19.50   |
|           |            | 25      | 25        | 18.14   | 18.02   | 17.88   | 19.50   |
|           |            | 50      | 0         | 18.25   | 18.20   | 17.97   | 19.50   |
|           |            | 1       | 0         | 16.90   | 17.15   | 17.45   | 18.50   |
|           | 256QAM     | 1       | 25        | 17.13   | 17.19   | 16.91   | 18.50   |
|           |            | 1       | 49        | 17.20   | 16.91   | 17.08   | 18.50   |
|           |            | 25      | 0         | 17.24   | 17.18   | 17.15   | 18.50   |
|           |            | 25      | 13        | 17.27   | 17.14   | 16.99   | 18.50   |
|           |            | 25      | 25        | 17.11   | 17.23   | 16.84   | 18.50   |
|           |            | 50      | 0         | 17.15   | 17.20   | 17.12   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 17.92   | 18.04   | 17.95   | 19.50   |
|           |            | 1       | 38        | 18.12   | 18.07   | 17.93   | 19.50   |
|           |            | 1       | 74        | 18.03   | 18.06   | 17.73   | 19.50   |
|           |            | 36      | 0         | 18.09   | 18.19   | 18.03   | 19.50   |
|           |            | 36      | 18        | 18.18   | 18.26   | 18.01   | 19.50   |
|           |            | 36      | 39        | 18.18   | 18.05   | 17.87   | 19.50   |
|           |            | 75      | 0         | 18.15   | 18.26   | 18.04   | 19.50   |
|           | 16QAM      | 1       | 0         | 17.79   | 18.21   | 18.02   | 19.50   |
|           |            | 1       | 38        | 18.21   | 18.20   | 18.10   | 19.50   |
|           |            | 1       | 74        | 18.19   | 18.23   | 17.74   | 19.50   |
|           |            | 36      | 0         | 18.07   | 18.15   | 18.05   | 19.50   |
|           |            | 36      | 18        | 18.20   | 18.16   | 18.00   | 19.50   |
|           |            | 36      | 39        | 18.15   | 18.09   | 17.86   | 19.50   |
|           |            | 75      | 0         | 18.20   | 18.17   | 18.03   | 19.50   |



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|           | 64QAM      | 1       | 0         | 18.04   | 18.39   | 18.04   | 19.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 38        | 18.24   | 18.09   | 17.62   | 19.50   |
|           |            | 1       | 74        | 18.17   | 17.88   | 17.91   | 19.50   |
|           |            | 36      | 0         | 18.13   | 18.18   | 18.04   | 19.50   |
|           |            | 36      | 18        | 18.23   | 18.08   | 17.95   | 19.50   |
|           |            | 36      | 39        | 18.10   | 18.03   | 17.82   | 19.50   |
|           |            | 75      | 0         | 18.23   | 18.19   | 17.96   | 19.50   |
|           | 256QAM     | 1       | 0         | 16.95   | 17.18   | 17.43   | 18.50   |
|           |            | 1       | 38        | 17.15   | 17.20   | 16.98   | 18.50   |
|           |            | 1       | 74        | 17.23   | 16.95   | 17.05   | 18.50   |
|           |            | 36      | 0         | 17.25   | 17.25   | 17.19   | 18.50   |
|           |            | 36      | 18        | 17.28   | 17.16   | 16.99   | 18.50   |
|           |            | 36      | 39        | 17.10   | 17.22   | 16.87   | 18.50   |
|           |            | 75      | 0         | 17.15   | 17.13   | 17.08   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 17.98   | 18.11   | 18.02   | 19.50   |
|           |            | 1       | 50        | 18.14   | 18.15   | 18.00   | 19.50   |
|           |            | 1       | 99        | 18.09   | 18.09   | 17.81   | 19.50   |
|           |            | 50      | 0         | 18.13   | 18.26   | 18.11   | 19.50   |
|           |            | 50      | 25        | 18.20   | 18.27   | 18.05   | 19.50   |
|           |            | 50      | 50        | 18.26   | 18.10   | 17.94   | 19.50   |
|           |            | 100     | 0         | 18.16   | 18.30   | 18.08   | 19.50   |
|           | 16QAM      | 1       | 0         | 17.83   | 18.23   | 18.03   | 19.50   |
|           |            | 1       | 50        | 18.30   | 18.27   | 18.11   | 19.50   |
|           |            | 1       | 99        | 18.24   | 18.28   | 17.78   | 19.50   |
|           |            | 50      | 0         | 18.16   | 18.24   | 18.10   | 19.50   |
|           |            | 50      | 25        | 18.21   | 18.20   | 18.04   | 19.50   |
|           |            | 50      | 50        | 18.17   | 18.15   | 17.94   | 19.50   |
|           |            | 100     | 0         | 18.25   | 18.25   | 18.04   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.11   | 18.41   | 18.12   | 19.50   |
|           |            | 1       | 50        | 18.29   | 18.17   | 17.64   | 19.50   |
|           |            | 1       | 99        | 18.24   | 17.95   | 17.93   | 19.50   |
|           |            | 50      | 0         | 18.17   | 18.21   | 18.10   | 19.50   |
|           |            | 50      | 25        | 18.30   | 18.13   | 18.04   | 19.50   |
|           |            | 50      | 50        | 18.16   | 18.11   | 17.91   | 19.50   |
|           |            | 100     | 0         | 18.27   | 18.22   | 17.99   | 19.50   |
|           | 256QAM     | 1       | 0         | 16.99   | 17.21   | 17.49   | 18.50   |
|           |            | 1       | 50        | 17.17   | 17.21   | 16.99   | 18.50   |



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|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 99 | 17.29 | 16.96 | 17.10 | 18.50 |
|  |  | 50  | 0  | 17.28 | 17.26 | 17.22 | 18.50 |
|  |  | 50  | 25 | 17.30 | 17.22 | 17.06 | 18.50 |
|  |  | 50  | 50 | 17.18 | 17.27 | 16.90 | 18.50 |
|  |  | 100 | 0  | 17.16 | 17.22 | 17.13 | 18.50 |



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| LTE Band 7 DS13/5 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz              | QPSK       | 1       | 0         | 17.53                | 17.58   | 17.41   | 19.00   |
|                   |            | 1       | 13        | 17.58                | 17.48   | 17.35   | 19.00   |
|                   |            | 1       | 24        | 17.67                | 17.43   | 17.12   | 19.00   |
|                   |            | 12      | 0         | 17.63                | 17.67   | 17.42   | 19.00   |
|                   |            | 12      | 6         | 17.68                | 17.39   | 17.29   | 19.00   |
|                   |            | 12      | 13        | 17.60                | 17.53   | 17.14   | 19.00   |
|                   |            | 25      | 0         | 17.52                | 17.49   | 17.48   | 19.00   |
|                   | 16QAM      | 1       | 0         | 17.60                | 17.69   | 17.49   | 19.00   |
|                   |            | 1       | 13        | 17.78                | 17.58   | 17.46   | 19.00   |
|                   |            | 1       | 24        | 17.46                | 17.57   | 17.35   | 19.00   |
|                   |            | 12      | 0         | 17.53                | 17.69   | 17.56   | 19.00   |
|                   |            | 12      | 6         | 17.65                | 17.47   | 17.56   | 19.00   |
|                   |            | 12      | 13        | 17.54                | 17.63   | 17.27   | 19.00   |
|                   |            | 25      | 0         | 17.54                | 17.54   | 17.46   | 19.00   |
|                   | 64QAM      | 1       | 0         | 17.30                | 17.56   | 17.54   | 19.00   |
|                   |            | 1       | 13        | 17.55                | 17.43   | 17.46   | 19.00   |
|                   |            | 1       | 24        | 17.58                | 17.74   | 17.31   | 19.00   |
|                   |            | 12      | 0         | 17.54                | 17.61   | 17.38   | 19.00   |
|                   |            | 12      | 6         | 17.64                | 17.59   | 17.48   | 19.00   |
|                   |            | 12      | 13        | 17.53                | 17.48   | 17.19   | 19.00   |
|                   |            | 25      | 0         | 17.58                | 17.46   | 17.45   | 19.00   |
|                   | 256QAM     | 1       | 0         | 17.11                | 17.04   | 16.73   | 18.50   |
|                   |            | 1       | 13        | 16.55                | 16.95   | 16.79   | 18.50   |
|                   |            | 1       | 24        | 17.08                | 16.99   | 17.48   | 18.50   |
|                   |            | 12      | 0         | 17.06                | 17.12   | 16.87   | 18.50   |
|                   |            | 12      | 6         | 17.12                | 17.10   | 16.90   | 18.50   |
|                   |            | 12      | 13        | 17.09                | 17.14   | 16.85   | 18.50   |
|                   |            | 25      | 0         | 17.11                | 17.19   | 16.90   | 18.50   |
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz             | QPSK       | 1       | 0         | 17.56                | 17.63   | 17.46   | 19.00   |
|                   |            | 1       | 25        | 17.64                | 17.56   | 17.35   | 19.00   |
|                   |            | 1       | 49        | 17.63                | 17.56   | 17.10   | 19.00   |
|                   |            | 25      | 0         | 17.71                | 17.68   | 17.49   | 19.00   |
|                   |            | 25      | 13        | 17.72                | 17.50   | 17.36   | 19.00   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 17.65   | 17.64   | 17.27   | 19.00   |
|           |            | 50      | 0         | 17.61   | 17.60   | 17.45   | 19.00   |
|           | 16QAM      | 1       | 0         | 17.61   | 17.71   | 17.47   | 19.00   |
|           |            | 1       | 25        | 17.84   | 17.68   | 17.47   | 19.00   |
|           |            | 1       | 49        | 17.49   | 17.61   | 17.41   | 19.00   |
|           |            | 25      | 0         | 17.51   | 17.65   | 17.59   | 19.00   |
|           |            | 25      | 13        | 17.69   | 17.53   | 17.57   | 19.00   |
|           |            | 25      | 25        | 17.60   | 17.73   | 17.31   | 19.00   |
|           |            | 50      | 0         | 17.59   | 17.62   | 17.47   | 19.00   |
|           |            | 1       | 0         | 17.38   | 17.63   | 17.61   | 19.00   |
|           | 64QAM      | 1       | 25        | 17.52   | 17.46   | 17.56   | 19.00   |
|           |            | 1       | 49        | 17.62   | 17.71   | 17.40   | 19.00   |
|           |            | 25      | 0         | 17.61   | 17.69   | 17.43   | 19.00   |
|           |            | 25      | 13        | 17.71   | 17.59   | 17.49   | 19.00   |
|           |            | 25      | 25        | 17.62   | 17.58   | 17.32   | 19.00   |
|           |            | 50      | 0         | 17.65   | 17.52   | 17.46   | 19.00   |
|           |            | 1       | 0         | 17.17   | 17.14   | 16.83   | 18.50   |
|           | 256QAM     | 1       | 25        | 16.51   | 17.03   | 16.89   | 18.50   |
|           |            | 1       | 49        | 17.10   | 17.15   | 17.44   | 18.50   |
|           |            | 25      | 0         | 17.17   | 17.14   | 16.89   | 18.50   |
|           |            | 25      | 13        | 17.13   | 17.10   | 17.03   | 18.50   |
|           |            | 25      | 25        | 17.12   | 17.17   | 16.88   | 18.50   |
|           |            | 50      | 0         | 17.12   | 17.20   | 17.01   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 17.55   | 17.60   | 17.46   | 19.00   |
|           |            | 1       | 38        | 17.60   | 17.52   | 17.37   | 19.00   |
|           |            | 1       | 74        | 17.68   | 17.50   | 17.12   | 19.00   |
|           |            | 36      | 0         | 17.71   | 17.69   | 17.47   | 19.00   |
|           |            | 36      | 18        | 17.67   | 17.50   | 17.34   | 19.00   |
|           |            | 36      | 39        | 17.68   | 17.60   | 17.24   | 19.00   |
|           |            | 75      | 0         | 17.56   | 17.55   | 17.49   | 19.00   |
|           | 16QAM      | 1       | 0         | 17.60   | 17.68   | 17.48   | 19.00   |
|           |            | 1       | 38        | 17.81   | 17.70   | 17.50   | 19.00   |
|           |            | 1       | 74        | 17.54   | 17.57   | 17.37   | 19.00   |
|           |            | 36      | 0         | 17.53   | 17.68   | 17.59   | 19.00   |
|           |            | 36      | 18        | 17.68   | 17.57   | 17.55   | 19.00   |
|           |            | 36      | 39        | 17.66   | 17.71   | 17.29   | 19.00   |
|           |            | 75      | 0         | 17.54   | 17.61   | 17.41   | 19.00   |



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|           | 64QAM      | 1       | 0         | 17.37   | 17.66   | 17.58   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 38        | 17.52   | 17.49   | 17.57   | 19.00   |
|           |            | 1       | 74        | 17.62   | 17.76   | 17.33   | 19.00   |
|           |            | 36      | 0         | 17.57   | 17.65   | 17.45   | 19.00   |
|           |            | 36      | 18        | 17.71   | 17.55   | 17.54   | 19.00   |
|           |            | 36      | 39        | 17.58   | 17.52   | 17.24   | 19.00   |
|           |            | 75      | 0         | 17.61   | 17.55   | 17.51   | 19.00   |
|           | 256QAM     | 1       | 0         | 17.18   | 17.07   | 16.88   | 18.50   |
|           |            | 1       | 38        | 16.54   | 17.04   | 16.90   | 18.50   |
|           |            | 1       | 74        | 17.13   | 17.15   | 17.44   | 18.50   |
|           |            | 36      | 0         | 17.15   | 17.13   | 16.96   | 18.50   |
|           |            | 36      | 18        | 17.20   | 17.13   | 17.03   | 18.50   |
|           |            | 36      | 39        | 17.17   | 17.11   | 16.95   | 18.50   |
|           |            | 75      | 0         | 17.18   | 17.19   | 16.99   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 17.63   | 17.67   | 17.49   | 19.00   |
|           |            | 1       | 50        | 17.65   | 17.61   | 17.40   | 19.00   |
|           |            | 1       | 99        | 17.69   | 17.58   | 17.16   | 19.00   |
|           |            | 50      | 0         | 17.73   | 17.70   | 17.54   | 19.00   |
|           |            | 50      | 25        | 17.73   | 17.55   | 17.40   | 19.00   |
|           |            | 50      | 50        | 17.74   | 17.66   | 17.31   | 19.00   |
|           |            | 100     | 0         | 17.64   | 17.64   | 17.52   | 19.00   |
|           | 16QAM      | 1       | 0         | 17.69   | 17.76   | 17.52   | 19.00   |
|           |            | 1       | 50        | 17.85   | 17.73   | 17.53   | 19.00   |
|           |            | 1       | 99        | 17.57   | 17.63   | 17.42   | 19.00   |
|           |            | 50      | 0         | 17.60   | 17.73   | 17.61   | 19.00   |
|           |            | 50      | 25        | 17.73   | 17.60   | 17.58   | 19.00   |
|           |            | 50      | 50        | 17.69   | 17.74   | 17.34   | 19.00   |
|           |            | 100     | 0         | 17.61   | 17.66   | 17.48   | 19.00   |
|           | 64QAM      | 1       | 0         | 17.45   | 17.69   | 17.63   | 19.00   |
|           |            | 1       | 50        | 17.59   | 17.55   | 17.61   | 19.00   |
|           |            | 1       | 99        | 17.70   | 17.78   | 17.42   | 19.00   |
|           |            | 50      | 0         | 17.62   | 17.72   | 17.49   | 19.00   |
|           |            | 50      | 25        | 17.72   | 17.64   | 17.58   | 19.00   |
|           |            | 50      | 50        | 17.66   | 17.59   | 17.33   | 19.00   |
|           |            | 100     | 0         | 17.69   | 17.57   | 17.53   | 19.00   |
|           | 256QAM     | 1       | 0         | 17.19   | 17.16   | 16.90   | 18.50   |
|           |            | 1       | 50        | 16.60   | 17.09   | 16.91   | 18.50   |



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|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 99 | 17.18 | 17.16 | 17.53 | 18.50 |
|  |  | 50  | 0  | 17.20 | 17.20 | 16.98 | 18.50 |
|  |  | 50  | 25 | 17.21 | 17.17 | 17.05 | 18.50 |
|  |  | 50  | 50 | 17.21 | 17.20 | 16.96 | 18.50 |
|  |  | 100 | 0  | 17.20 | 17.25 | 17.08 | 18.50 |



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| LTE Band 7 DS18/9/10 |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                 | QPSK       | 1       | 0         | 16.55                | 16.56   | 16.51   | 18.00   |
|                      |            | 1       | 13        | 16.67                | 16.52   | 16.39   | 18.00   |
|                      |            | 1       | 24        | 16.67                | 16.42   | 16.37   | 18.00   |
|                      |            | 12      | 0         | 16.67                | 16.71   | 16.48   | 18.00   |
|                      |            | 12      | 6         | 16.63                | 16.58   | 16.48   | 18.00   |
|                      |            | 12      | 13        | 16.58                | 16.64   | 16.35   | 18.00   |
|                      |            | 25      | 0         | 16.61                | 16.55   | 16.47   | 18.00   |
|                      | 16QAM      | 1       | 0         | 16.89                | 16.74   | 16.44   | 18.00   |
|                      |            | 1       | 13        | 16.87                | 16.65   | 16.54   | 18.00   |
|                      |            | 1       | 24        | 16.75                | 16.48   | 16.42   | 18.00   |
|                      |            | 12      | 0         | 16.55                | 16.65   | 16.50   | 18.00   |
|                      |            | 12      | 6         | 16.71                | 16.57   | 16.47   | 18.00   |
|                      |            | 12      | 13        | 16.73                | 16.57   | 16.26   | 18.00   |
|                      |            | 25      | 0         | 16.74                | 16.65   | 16.46   | 18.00   |
|                      | 64QAM      | 1       | 0         | 16.42                | 16.71   | 16.62   | 18.00   |
|                      |            | 1       | 13        | 16.76                | 16.53   | 16.58   | 18.00   |
|                      |            | 1       | 24        | 16.77                | 16.78   | 16.41   | 18.00   |
|                      |            | 12      | 0         | 16.67                | 16.70   | 16.54   | 18.00   |
|                      |            | 12      | 6         | 16.75                | 16.66   | 16.42   | 18.00   |
|                      |            | 12      | 13        | 16.68                | 16.66   | 16.35   | 18.00   |
|                      |            | 25      | 0         | 16.65                | 16.59   | 16.40   | 18.00   |
|                      | 256QAM     | 1       | 0         | 16.45                | 16.81   | 16.59   | 18.00   |
|                      |            | 1       | 13        | 16.13                | 16.75   | 16.42   | 18.00   |
|                      |            | 1       | 24        | 16.62                | 16.61   | 16.64   | 18.00   |
|                      |            | 12      | 0         | 16.53                | 16.65   | 16.74   | 18.00   |
|                      |            | 12      | 6         | 16.61                | 16.65   | 16.46   | 18.00   |
|                      |            | 12      | 13        | 16.71                | 16.67   | 16.51   | 18.00   |
|                      |            | 25      | 0         | 16.73                | 16.64   | 16.56   | 18.00   |
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz                | QPSK       | 1       | 0         | 16.57                | 16.53   | 16.51   | 18.00   |
|                      |            | 1       | 25        | 16.64                | 16.49   | 16.33   | 18.00   |
|                      |            | 1       | 49        | 16.65                | 16.42   | 16.35   | 18.00   |
|                      |            | 25      | 0         | 16.71                | 16.65   | 16.53   | 18.00   |
|                      |            | 25      | 13        | 16.60                | 16.58   | 16.48   | 18.00   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 16.65   | 16.62   | 16.40   | 18.00   |
|           |            | 50      | 0         | 16.59   | 16.52   | 16.53   | 18.00   |
|           | 16QAM      | 1       | 0         | 16.91   | 16.78   | 16.44   | 18.00   |
|           |            | 1       | 25        | 16.90   | 16.60   | 16.60   | 18.00   |
|           |            | 1       | 49        | 16.75   | 16.52   | 16.39   | 18.00   |
|           |            | 25      | 0         | 16.50   | 16.64   | 16.55   | 18.00   |
|           |            | 25      | 13        | 16.70   | 16.56   | 16.52   | 18.00   |
|           |            | 25      | 25        | 16.76   | 16.59   | 16.28   | 18.00   |
|           |            | 50      | 0         | 16.71   | 16.63   | 16.43   | 18.00   |
|           |            | 1       | 0         | 16.45   | 16.66   | 16.59   | 18.00   |
|           | 64QAM      | 1       | 25        | 16.78   | 16.57   | 16.58   | 18.00   |
|           |            | 1       | 49        | 16.76   | 16.75   | 16.44   | 18.00   |
|           |            | 25      | 0         | 16.65   | 16.70   | 16.51   | 18.00   |
|           |            | 25      | 13        | 16.72   | 16.66   | 16.43   | 18.00   |
|           |            | 25      | 25        | 16.61   | 16.65   | 16.36   | 18.00   |
|           |            | 50      | 0         | 16.67   | 16.56   | 16.43   | 18.00   |
|           |            | 1       | 0         | 16.42   | 16.80   | 16.51   | 18.00   |
|           | 256QAM     | 1       | 25        | 16.13   | 16.74   | 16.43   | 18.00   |
|           |            | 1       | 49        | 16.65   | 16.68   | 16.62   | 18.00   |
|           |            | 25      | 0         | 16.56   | 16.70   | 16.74   | 18.00   |
|           |            | 25      | 13        | 16.63   | 16.63   | 16.43   | 18.00   |
|           |            | 25      | 25        | 16.68   | 16.66   | 16.53   | 18.00   |
|           |            | 50      | 0         | 16.73   | 16.62   | 16.55   | 18.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 16.56   | 16.57   | 16.48   | 18.00   |
|           |            | 1       | 38        | 16.67   | 16.50   | 16.39   | 18.00   |
|           |            | 1       | 74        | 16.72   | 16.35   | 16.35   | 18.00   |
|           |            | 36      | 0         | 16.72   | 16.69   | 16.55   | 18.00   |
|           |            | 36      | 18        | 16.64   | 16.58   | 16.43   | 18.00   |
|           |            | 36      | 39        | 16.60   | 16.69   | 16.33   | 18.00   |
|           |            | 75      | 0         | 16.61   | 16.58   | 16.49   | 18.00   |
|           | 16QAM      | 1       | 0         | 16.87   | 16.76   | 16.51   | 18.00   |
|           |            | 1       | 38        | 16.87   | 16.62   | 16.56   | 18.00   |
|           |            | 1       | 74        | 16.69   | 16.52   | 16.39   | 18.00   |
|           |            | 36      | 0         | 16.50   | 16.66   | 16.55   | 18.00   |
|           |            | 36      | 18        | 16.68   | 16.58   | 16.53   | 18.00   |
|           |            | 36      | 39        | 16.73   | 16.61   | 16.30   | 18.00   |
|           |            | 75      | 0         | 16.67   | 16.66   | 16.46   | 18.00   |



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|           | 64QAM      | 1       | 0         | 16.46   | 16.67   | 16.63   | 18.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 38        | 16.77   | 16.52   | 16.59   | 18.00   |
|           |            | 1       | 74        | 16.76   | 16.74   | 16.45   | 18.00   |
|           |            | 36      | 0         | 16.65   | 16.75   | 16.50   | 18.00   |
|           |            | 36      | 18        | 16.70   | 16.60   | 16.46   | 18.00   |
|           |            | 36      | 39        | 16.63   | 16.66   | 16.36   | 18.00   |
|           |            | 75      | 0         | 16.60   | 16.60   | 16.41   | 18.00   |
|           | 256QAM     | 1       | 0         | 16.39   | 16.79   | 16.51   | 18.00   |
|           |            | 1       | 38        | 16.09   | 16.78   | 16.41   | 18.00   |
|           |            | 1       | 74        | 16.67   | 16.63   | 16.65   | 18.00   |
|           |            | 36      | 0         | 16.53   | 16.65   | 16.73   | 18.00   |
|           |            | 36      | 18        | 16.59   | 16.67   | 16.44   | 18.00   |
|           |            | 36      | 39        | 16.64   | 16.64   | 16.55   | 18.00   |
|           |            | 75      | 0         | 16.70   | 16.65   | 16.58   | 18.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 16.59   | 16.62   | 16.56   | 18.00   |
|           |            | 1       | 50        | 16.72   | 16.57   | 16.42   | 18.00   |
|           |            | 1       | 99        | 16.73   | 16.43   | 16.38   | 18.00   |
|           |            | 50      | 0         | 16.75   | 16.73   | 16.56   | 18.00   |
|           |            | 50      | 25        | 16.69   | 16.62   | 16.49   | 18.00   |
|           |            | 50      | 50        | 16.67   | 16.71   | 16.41   | 18.00   |
|           |            | 100     | 0         | 16.65   | 16.61   | 16.54   | 18.00   |
|           | 16QAM      | 1       | 0         | 16.93   | 16.79   | 16.52   | 18.00   |
|           |            | 1       | 50        | 16.93   | 16.68   | 16.63   | 18.00   |
|           |            | 1       | 99        | 16.77   | 16.53   | 16.43   | 18.00   |
|           |            | 50      | 0         | 16.56   | 16.72   | 16.58   | 18.00   |
|           |            | 50      | 25        | 16.72   | 16.64   | 16.55   | 18.00   |
|           |            | 50      | 50        | 16.77   | 16.63   | 16.35   | 18.00   |
|           |            | 100     | 0         | 16.75   | 16.70   | 16.52   | 18.00   |
|           | 64QAM      | 1       | 0         | 16.50   | 16.73   | 16.67   | 18.00   |
|           |            | 1       | 50        | 16.82   | 16.59   | 16.60   | 18.00   |
|           |            | 1       | 99        | 16.82   | 16.81   | 16.49   | 18.00   |
|           |            | 50      | 0         | 16.69   | 16.78   | 16.56   | 18.00   |
|           |            | 50      | 25        | 16.76   | 16.68   | 16.48   | 18.00   |
|           |            | 50      | 50        | 16.69   | 16.69   | 16.37   | 18.00   |
|           |            | 100     | 0         | 16.69   | 16.65   | 16.48   | 18.00   |
|           | 256QAM     | 1       | 0         | 16.47   | 16.84   | 16.60   | 18.00   |
|           |            | 1       | 50        | 16.17   | 16.79   | 16.46   | 18.00   |



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|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 99 | 16.68 | 16.70 | 16.70 | 18.00 |
|  |  | 50  | 0  | 16.59 | 16.72 | 16.77 | 18.00 |
|  |  | 50  | 25 | 16.66 | 16.69 | 16.47 | 18.00 |
|  |  | 50  | 50 | 16.73 | 16.72 | 16.56 | 18.00 |
|  |  | 100 | 0  | 16.74 | 16.69 | 16.59 | 18.00 |



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| LTE Band 66 DS14 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz           | QPSK       | 1       | 0         | 22.55                | 22.54   | 22.52   | 24.00   |
|                  |            | 1       | 2         | 22.45                | 22.59   | 22.53   | 24.00   |
|                  |            | 1       | 5         | 22.54                | 22.81   | 22.81   | 24.00   |
|                  |            | 3       | 0         | 22.51                | 22.76   | 22.84   | 24.00   |
|                  |            | 3       | 1         | 22.51                | 22.82   | 22.84   | 24.00   |
|                  |            | 3       | 3         | 22.48                | 22.81   | 22.87   | 24.00   |
|                  |            | 6       | 0         | 21.76                | 21.77   | 21.83   | 23.00   |
|                  | 16QAM      | 1       | 0         | 21.80                | 21.56   | 21.88   | 23.00   |
|                  |            | 1       | 2         | 21.52                | 21.64   | 21.80   | 23.00   |
|                  |            | 1       | 5         | 21.83                | 21.40   | 21.69   | 23.00   |
|                  |            | 3       | 0         | 21.81                | 21.36   | 21.68   | 23.00   |
|                  |            | 3       | 1         | 21.84                | 21.40   | 21.66   | 23.00   |
|                  |            | 3       | 3         | 21.83                | 21.42   | 21.65   | 23.00   |
|                  |            | 6       | 0         | 20.78                | 20.68   | 20.73   | 22.00   |
|                  | 64QAM      | 1       | 0         | 21.46                | 20.85   | 20.65   | 22.00   |
|                  |            | 1       | 2         | 21.21                | 20.77   | 20.81   | 22.00   |
|                  |            | 1       | 5         | 21.90                | 21.05   | 21.15   | 22.00   |
|                  |            | 3       | 0         | 21.90                | 20.98   | 21.15   | 22.00   |
|                  |            | 3       | 1         | 21.87                | 21.01   | 21.13   | 22.00   |
|                  |            | 3       | 3         | 21.93                | 21.05   | 21.14   | 22.00   |
|                  |            | 6       | 0         | 20.70                | 19.79   | 19.77   | 21.00   |
|                  | 256QAM     | 1       | 0         | 17.70                | 17.77   | 17.41   | 19.00   |
|                  |            | 1       | 2         | 17.61                | 17.32   | 17.35   | 19.00   |
|                  |            | 1       | 5         | 18.68                | 17.65   | 18.58   | 19.00   |
|                  |            | 3       | 0         | 17.14                | 17.44   | 17.78   | 19.00   |
|                  |            | 3       | 1         | 17.78                | 17.74   | 17.81   | 19.00   |
|                  |            | 3       | 3         | 17.72                | 17.89   | 17.84   | 19.00   |
|                  |            | 6       | 0         | 17.75                | 17.83   | 17.84   | 19.00   |
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 131987               | 132322  | 132657  |         |
| 3MHz             | QPSK       | 1       | 0         | 22.54                | 22.55   | 22.52   | 24.00   |
|                  |            | 1       | 7         | 22.45                | 22.62   | 22.51   | 24.00   |
|                  |            | 1       | 14        | 22.51                | 22.82   | 22.88   | 24.00   |
|                  |            | 8       | 0         | 21.79                | 21.76   | 21.69   | 23.00   |
|                  |            | 8       | 4         | 21.80                | 21.77   | 21.88   | 23.00   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 7         | 21.85   | 21.88   | 21.95   | 23.00   |
|           |            | 15      | 0         | 21.74   | 21.84   | 21.77   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.82   | 21.60   | 21.84   | 23.00   |
|           |            | 1       | 7         | 21.54   | 21.62   | 21.87   | 23.00   |
|           |            | 1       | 14        | 21.87   | 21.42   | 21.66   | 23.00   |
|           |            | 8       | 0         | 20.73   | 20.74   | 20.53   | 22.00   |
|           |            | 8       | 4         | 20.81   | 20.74   | 20.66   | 22.00   |
|           |            | 8       | 7         | 20.84   | 20.82   | 20.92   | 22.00   |
|           |            | 15      | 0         | 20.73   | 20.71   | 20.75   | 22.00   |
|           |            | 1       | 0         | 21.44   | 20.89   | 20.68   | 22.00   |
|           | 64QAM      | 1       | 7         | 21.25   | 20.73   | 20.77   | 22.00   |
|           |            | 1       | 14        | 21.94   | 21.01   | 21.16   | 22.00   |
|           |            | 8       | 0         | 20.82   | 19.55   | 19.75   | 21.00   |
|           |            | 8       | 4         | 20.74   | 19.68   | 19.94   | 21.00   |
|           |            | 8       | 7         | 20.89   | 19.79   | 19.98   | 21.00   |
|           |            | 15      | 0         | 20.72   | 19.79   | 19.84   | 21.00   |
|           |            | 1       | 0         | 17.70   | 17.73   | 17.42   | 19.00   |
|           | 256QAM     | 1       | 7         | 17.61   | 17.34   | 17.33   | 19.00   |
|           |            | 1       | 14        | 18.70   | 17.63   | 18.62   | 19.00   |
|           |            | 8       | 0         | 17.12   | 17.42   | 17.80   | 19.00   |
|           |            | 8       | 4         | 17.84   | 17.72   | 17.79   | 19.00   |
|           |            | 8       | 7         | 17.71   | 17.87   | 17.86   | 19.00   |
|           |            | 15      | 0         | 17.76   | 17.76   | 17.86   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 22.54   | 22.57   | 22.57   | 24.00   |
|           |            | 1       | 13        | 22.40   | 22.58   | 22.55   | 24.00   |
|           |            | 1       | 24        | 22.46   | 22.84   | 22.82   | 24.00   |
|           |            | 12      | 0         | 21.83   | 21.78   | 21.69   | 23.00   |
|           |            | 12      | 6         | 21.80   | 21.78   | 21.84   | 23.00   |
|           |            | 12      | 13        | 21.81   | 21.84   | 21.90   | 23.00   |
|           |            | 25      | 0         | 21.80   | 21.79   | 21.79   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.80   | 21.62   | 21.87   | 23.00   |
|           |            | 1       | 13        | 21.54   | 21.64   | 21.86   | 23.00   |
|           |            | 1       | 24        | 21.79   | 21.38   | 21.71   | 23.00   |
|           |            | 12      | 0         | 20.75   | 20.72   | 20.54   | 22.00   |
|           |            | 12      | 6         | 20.80   | 20.79   | 20.65   | 22.00   |
|           |            | 12      | 13        | 20.83   | 20.79   | 20.93   | 22.00   |
|           |            | 25      | 0         | 20.72   | 20.71   | 20.73   | 22.00   |



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|           | 64QAM      | 1       | 0         | 21.47   | 20.88   | 20.71   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 21.17   | 20.75   | 20.77   | 22.00   |
|           |            | 1       | 24        | 21.88   | 21.05   | 21.13   | 22.00   |
|           |            | 12      | 0         | 20.74   | 19.58   | 19.78   | 21.00   |
|           |            | 12      | 6         | 20.77   | 19.72   | 19.94   | 21.00   |
|           |            | 12      | 13        | 20.81   | 19.75   | 19.97   | 21.00   |
|           |            | 25      | 0         | 20.72   | 19.76   | 19.79   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.72   | 17.74   | 17.42   | 19.00   |
|           |            | 1       | 13        | 17.61   | 17.30   | 17.31   | 19.00   |
|           |            | 1       | 24        | 18.73   | 17.65   | 18.55   | 19.00   |
|           |            | 12      | 0         | 17.10   | 17.40   | 17.77   | 19.00   |
|           |            | 12      | 6         | 17.85   | 17.70   | 17.77   | 19.00   |
|           |            | 12      | 13        | 17.71   | 17.83   | 17.88   | 19.00   |
|           |            | 25      | 0         | 17.78   | 17.83   | 17.87   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |
| 10MHz     | QPSK       | 1       | 0         | 22.49   | 22.55   | 22.55   | 24.00   |
|           |            | 1       | 25        | 22.45   | 22.63   | 22.54   | 24.00   |
|           |            | 1       | 49        | 22.50   | 22.83   | 22.85   | 24.00   |
|           |            | 25      | 0         | 21.82   | 21.76   | 21.70   | 23.00   |
|           |            | 25      | 13        | 21.82   | 21.78   | 21.89   | 23.00   |
|           |            | 25      | 25        | 21.81   | 21.85   | 21.91   | 23.00   |
|           |            | 50      | 0         | 21.79   | 21.82   | 21.81   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.77   | 21.62   | 21.88   | 23.00   |
|           |            | 1       | 25        | 21.47   | 21.67   | 21.80   | 23.00   |
|           |            | 1       | 49        | 21.84   | 21.43   | 21.71   | 23.00   |
|           |            | 25      | 0         | 20.74   | 20.78   | 20.57   | 22.00   |
|           |            | 25      | 13        | 20.78   | 20.73   | 20.65   | 22.00   |
|           |            | 25      | 25        | 20.76   | 20.82   | 20.91   | 22.00   |
|           |            | 50      | 0         | 20.79   | 20.70   | 20.73   | 22.00   |
|           | 64QAM      | 1       | 0         | 21.48   | 20.90   | 20.70   | 22.00   |
|           |            | 1       | 25        | 21.22   | 20.71   | 20.76   | 22.00   |
|           |            | 1       | 49        | 21.93   | 21.00   | 21.12   | 22.00   |
|           |            | 25      | 0         | 20.76   | 19.60   | 19.76   | 21.00   |
|           |            | 25      | 13        | 20.72   | 19.68   | 19.98   | 21.00   |
|           |            | 25      | 25        | 20.81   | 19.75   | 19.92   | 21.00   |
|           |            | 50      | 0         | 20.73   | 19.79   | 19.83   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.67   | 17.77   | 17.46   | 19.00   |
|           |            | 1       | 25        | 17.60   | 17.36   | 17.33   | 19.00   |



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Shenzhen Branch Testing & Inspection Laboratory

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  
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|           |            | 1       | 49        | 18.65   | 17.67   | 18.61   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 17.09   | 17.42   | 17.76   | 19.00   |
|           |            | 25      | 13        | 17.79   | 17.70   | 17.83   | 19.00   |
|           |            | 25      | 25        | 17.79   | 17.87   | 17.85   | 19.00   |
|           |            | 50      | 0         | 17.77   | 17.79   | 17.81   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 22.52   | 22.54   | 22.58   | 24.00   |
|           |            | 1       | 38        | 22.43   | 22.64   | 22.53   | 24.00   |
|           |            | 1       | 74        | 22.47   | 22.79   | 22.86   | 24.00   |
|           |            | 36      | 0         | 21.85   | 21.84   | 21.66   | 23.00   |
|           |            | 36      | 18        | 21.83   | 21.84   | 21.82   | 23.00   |
|           |            | 36      | 39        | 21.80   | 21.85   | 21.89   | 23.00   |
|           |            | 75      | 0         | 21.80   | 21.83   | 21.78   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.82   | 21.59   | 21.87   | 23.00   |
|           |            | 1       | 38        | 21.47   | 21.70   | 21.83   | 23.00   |
|           |            | 1       | 74        | 21.85   | 21.38   | 21.71   | 23.00   |
|           |            | 36      | 0         | 20.76   | 20.70   | 20.56   | 22.00   |
|           |            | 36      | 18        | 20.81   | 20.81   | 20.68   | 22.00   |
|           |            | 36      | 39        | 20.82   | 20.82   | 20.93   | 22.00   |
|           |            | 75      | 0         | 20.75   | 20.66   | 20.71   | 22.00   |
|           | 64QAM      | 1       | 0         | 21.42   | 20.88   | 20.72   | 22.00   |
|           |            | 1       | 38        | 21.22   | 20.78   | 20.82   | 22.00   |
|           |            | 1       | 74        | 21.92   | 20.99   | 21.12   | 22.00   |
|           |            | 36      | 0         | 20.75   | 19.60   | 19.76   | 21.00   |
|           |            | 36      | 18        | 20.71   | 19.67   | 19.95   | 21.00   |
|           |            | 36      | 39        | 20.83   | 19.72   | 19.91   | 21.00   |
|           |            | 75      | 0         | 20.75   | 19.82   | 19.82   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.69   | 17.74   | 17.45   | 19.00   |
|           |            | 1       | 38        | 17.63   | 17.36   | 17.27   | 19.00   |
|           |            | 1       | 74        | 18.65   | 17.65   | 18.62   | 19.00   |
|           |            | 36      | 0         | 17.12   | 17.44   | 17.76   | 19.00   |
|           |            | 36      | 18        | 17.79   | 17.73   | 17.77   | 19.00   |
|           |            | 36      | 39        | 17.73   | 17.90   | 17.82   | 19.00   |
|           |            | 75      | 0         | 17.78   | 17.78   | 17.85   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 22.56   | 22.63   | 22.61   | 24.00   |
|           |            | 1       | 50        | 22.49   | 22.67   | 22.56   | 24.00   |



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|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 1   | 99 | 22.55 | 22.85 | 22.89 | 24.00 |
|  |        | 50  | 0  | 21.86 | 21.85 | 21.75 | 23.00 |
|  |        | 50  | 25 | 21.85 | 21.85 | 21.91 | 23.00 |
|  |        | 50  | 50 | 21.87 | 21.91 | 21.98 | 23.00 |
|  |        | 100 | 0  | 21.82 | 21.86 | 21.86 | 23.00 |
|  | 16QAM  | 1   | 0  | 21.85 | 21.63 | 21.93 | 23.00 |
|  |        | 1   | 50 | 21.56 | 21.71 | 21.88 | 23.00 |
|  |        | 1   | 99 | 21.88 | 21.45 | 21.73 | 23.00 |
|  |        | 50  | 0  | 20.82 | 20.79 | 20.58 | 22.00 |
|  |        | 50  | 25 | 20.86 | 20.82 | 20.74 | 22.00 |
|  |        | 50  | 50 | 20.85 | 20.86 | 20.97 | 22.00 |
|  |        | 100 | 0  | 20.80 | 20.75 | 20.79 | 22.00 |
|  | 64QAM  | 1   | 0  | 21.50 | 20.92 | 20.74 | 22.00 |
|  |        | 1   | 50 | 21.26 | 20.79 | 20.84 | 22.00 |
|  |        | 1   | 99 | 21.96 | 21.06 | 21.21 | 22.00 |
|  |        | 50  | 0  | 20.83 | 19.62 | 19.80 | 21.00 |
|  |        | 50  | 25 | 20.80 | 19.75 | 19.99 | 21.00 |
|  |        | 50  | 50 | 20.90 | 19.80 | 19.99 | 21.00 |
|  |        | 100 | 0  | 20.77 | 19.85 | 19.86 | 21.00 |
|  | 256QAM | 1   | 0  | 17.74 | 17.79 | 17.49 | 19.00 |
|  |        | 1   | 50 | 17.69 | 17.39 | 17.36 | 19.00 |
|  |        | 1   | 99 | 18.74 | 17.71 | 18.64 | 19.00 |
|  |        | 50  | 0  | 17.18 | 17.47 | 17.84 | 19.00 |
|  |        | 50  | 25 | 17.86 | 17.79 | 17.85 | 19.00 |
|  |        | 50  | 50 | 17.80 | 17.91 | 17.89 | 19.00 |
|  |        | 100 | 0  | 17.80 | 17.85 | 17.89 | 19.00 |



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| LTE Band 66 DS12 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz           | QPSK       | 1       | 0         | 17.23                | 17.19   | 17.32   | 18.50   |
|                  |            | 1       | 2         | 17.29                | 17.28   | 17.37   | 18.50   |
|                  |            | 1       | 5         | 17.42                | 17.39   | 17.47   | 18.50   |
|                  |            | 3       | 0         | 17.44                | 17.34   | 17.23   | 18.50   |
|                  |            | 3       | 1         | 17.35                | 17.32   | 17.37   | 18.50   |
|                  |            | 3       | 3         | 17.39                | 17.42   | 17.51   | 18.50   |
|                  |            | 6       | 0         | 17.39                | 17.39   | 17.37   | 18.50   |
|                  | 16QAM      | 1       | 0         | 17.22                | 17.45   | 17.40   | 18.50   |
|                  |            | 1       | 2         | 17.49                | 17.25   | 17.58   | 18.50   |
|                  |            | 1       | 5         | 17.39                | 17.47   | 17.14   | 18.50   |
|                  |            | 3       | 0         | 17.33                | 17.47   | 17.31   | 18.50   |
|                  |            | 3       | 1         | 17.50                | 17.36   | 17.50   | 18.50   |
|                  |            | 3       | 3         | 17.47                | 17.40   | 17.48   | 18.50   |
|                  |            | 6       | 0         | 17.48                | 17.34   | 17.53   | 18.50   |
|                  | 64QAM      | 1       | 0         | 17.16                | 17.14   | 17.16   | 18.50   |
|                  |            | 1       | 2         | 17.41                | 17.27   | 17.20   | 18.50   |
|                  |            | 1       | 5         | 17.31                | 17.35   | 17.34   | 18.50   |
|                  |            | 3       | 0         | 17.24                | 17.14   | 17.25   | 18.50   |
|                  |            | 3       | 1         | 17.16                | 17.29   | 17.33   | 18.50   |
|                  |            | 3       | 3         | 17.29                | 17.25   | 17.35   | 18.50   |
|                  |            | 6       | 0         | 17.25                | 17.30   | 17.35   | 18.50   |
|                  | 256QAM     | 1       | 0         | 17.29                | 17.45   | 17.48   | 18.50   |
|                  |            | 1       | 2         | 17.13                | 16.83   | 17.25   | 18.50   |
|                  |            | 1       | 5         | 18.08                | 18.05   | 17.48   | 18.50   |
|                  |            | 3       | 0         | 16.76                | 17.22   | 17.17   | 18.50   |
|                  |            | 3       | 1         | 17.26                | 17.31   | 17.36   | 18.50   |
|                  |            | 3       | 3         | 17.29                | 17.40   | 17.46   | 18.50   |
|                  |            | 6       | 0         | 17.40                | 17.33   | 17.38   | 18.50   |
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 131987               | 132322  | 132657  |         |
| 3MHz             | QPSK       | 1       | 0         | 17.23                | 17.27   | 17.36   | 18.50   |
|                  |            | 1       | 7         | 17.26                | 17.26   | 17.40   | 18.50   |
|                  |            | 1       | 14        | 17.37                | 17.34   | 17.44   | 18.50   |
|                  |            | 8       | 0         | 17.40                | 17.33   | 17.28   | 18.50   |
|                  |            | 8       | 4         | 17.41                | 17.32   | 17.44   | 18.50   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 7         | 17.47   | 17.45   | 17.52   | 18.50   |
|           |            | 15      | 0         | 17.41   | 17.33   | 17.37   | 18.50   |
|           | 16QAM      | 1       | 0         | 17.19   | 17.42   | 17.45   | 18.50   |
|           |            | 1       | 7         | 17.50   | 17.25   | 17.59   | 18.50   |
|           |            | 1       | 14        | 17.40   | 17.53   | 17.17   | 18.50   |
|           |            | 8       | 0         | 17.34   | 17.43   | 17.35   | 18.50   |
|           |            | 8       | 4         | 17.49   | 17.36   | 17.44   | 18.50   |
|           |            | 8       | 7         | 17.46   | 17.39   | 17.53   | 18.50   |
|           |            | 15      | 0         | 17.42   | 17.35   | 17.51   | 18.50   |
|           |            | 1       | 0         | 17.15   | 17.11   | 17.14   | 18.50   |
|           | 64QAM      | 1       | 7         | 17.35   | 17.30   | 17.17   | 18.50   |
|           |            | 1       | 14        | 17.35   | 17.36   | 17.38   | 18.50   |
|           |            | 8       | 0         | 17.16   | 17.21   | 17.32   | 18.50   |
|           |            | 8       | 4         | 17.19   | 17.22   | 17.36   | 18.50   |
|           |            | 8       | 7         | 17.28   | 17.32   | 17.39   | 18.50   |
|           |            | 15      | 0         | 17.18   | 17.37   | 17.41   | 18.50   |
|           |            | 1       | 0         | 17.34   | 17.45   | 17.53   | 18.50   |
|           | 256QAM     | 1       | 7         | 17.15   | 16.79   | 17.26   | 18.50   |
|           |            | 1       | 14        | 18.09   | 18.11   | 17.47   | 18.50   |
|           |            | 8       | 0         | 16.76   | 17.26   | 17.18   | 18.50   |
|           |            | 8       | 4         | 17.30   | 17.28   | 17.34   | 18.50   |
|           |            | 8       | 7         | 17.24   | 17.36   | 17.49   | 18.50   |
|           |            | 15      | 0         | 17.35   | 17.29   | 17.32   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 17.28   | 17.20   | 17.37   | 18.50   |
|           |            | 1       | 13        | 17.27   | 17.26   | 17.42   | 18.50   |
|           |            | 1       | 24        | 17.44   | 17.35   | 17.48   | 18.50   |
|           |            | 12      | 0         | 17.43   | 17.31   | 17.24   | 18.50   |
|           |            | 12      | 6         | 17.35   | 17.31   | 17.40   | 18.50   |
|           |            | 12      | 13        | 17.45   | 17.40   | 17.54   | 18.50   |
|           |            | 25      | 0         | 17.43   | 17.33   | 17.41   | 18.50   |
|           | 16QAM      | 1       | 0         | 17.18   | 17.46   | 17.46   | 18.50   |
|           |            | 1       | 13        | 17.48   | 17.28   | 17.59   | 18.50   |
|           |            | 1       | 24        | 17.46   | 17.55   | 17.12   | 18.50   |
|           |            | 12      | 0         | 17.37   | 17.48   | 17.31   | 18.50   |
|           |            | 12      | 6         | 17.44   | 17.39   | 17.47   | 18.50   |
|           |            | 12      | 13        | 17.49   | 17.45   | 17.49   | 18.50   |
|           |            | 25      | 0         | 17.47   | 17.38   | 17.54   | 18.50   |



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|           | 64QAM      | 1       | 0         | 17.08   | 17.18   | 17.18   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 17.41   | 17.25   | 17.19   | 18.50   |
|           |            | 1       | 24        | 17.31   | 17.35   | 17.38   | 18.50   |
|           |            | 12      | 0         | 17.18   | 17.15   | 17.26   | 18.50   |
|           |            | 12      | 6         | 17.15   | 17.22   | 17.36   | 18.50   |
|           |            | 12      | 13        | 17.31   | 17.30   | 17.38   | 18.50   |
|           |            | 25      | 0         | 17.18   | 17.34   | 17.39   | 18.50   |
|           | 256QAM     | 1       | 0         | 17.31   | 17.45   | 17.55   | 18.50   |
|           |            | 1       | 13        | 17.09   | 16.79   | 17.22   | 18.50   |
|           |            | 1       | 24        | 18.08   | 18.10   | 17.42   | 18.50   |
|           |            | 12      | 0         | 16.77   | 17.28   | 17.17   | 18.50   |
|           |            | 12      | 6         | 17.26   | 17.28   | 17.36   | 18.50   |
|           |            | 12      | 13        | 17.29   | 17.35   | 17.51   | 18.50   |
|           |            | 25      | 0         | 17.36   | 17.30   | 17.39   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |
| 10MHz     | QPSK       | 1       | 0         | 17.28   | 17.20   | 17.34   | 18.50   |
|           |            | 1       | 25        | 17.30   | 17.28   | 17.35   | 18.50   |
|           |            | 1       | 49        | 17.36   | 17.36   | 17.49   | 18.50   |
|           |            | 25      | 0         | 17.40   | 17.30   | 17.29   | 18.50   |
|           |            | 25      | 13        | 17.41   | 17.29   | 17.44   | 18.50   |
|           |            | 25      | 25        | 17.40   | 17.46   | 17.49   | 18.50   |
|           |            | 50      | 0         | 17.36   | 17.39   | 17.41   | 18.50   |
|           | 16QAM      | 1       | 0         | 17.19   | 17.48   | 17.43   | 18.50   |
|           |            | 1       | 25        | 17.50   | 17.26   | 17.60   | 18.50   |
|           |            | 1       | 49        | 17.41   | 17.49   | 17.17   | 18.50   |
|           |            | 25      | 0         | 17.39   | 17.41   | 17.34   | 18.50   |
|           |            | 25      | 13        | 17.45   | 17.37   | 17.49   | 18.50   |
|           |            | 25      | 25        | 17.48   | 17.41   | 17.51   | 18.50   |
|           |            | 50      | 0         | 17.48   | 17.36   | 17.47   | 18.50   |
|           | 64QAM      | 1       | 0         | 17.13   | 17.14   | 17.17   | 18.50   |
|           |            | 1       | 25        | 17.40   | 17.26   | 17.19   | 18.50   |
|           |            | 1       | 49        | 17.28   | 17.38   | 17.40   | 18.50   |
|           |            | 25      | 0         | 17.24   | 17.20   | 17.30   | 18.50   |
|           |            | 25      | 13        | 17.22   | 17.29   | 17.30   | 18.50   |
|           |            | 25      | 25        | 17.29   | 17.30   | 17.36   | 18.50   |
|           |            | 50      | 0         | 17.20   | 17.32   | 17.35   | 18.50   |
|           | 256QAM     | 1       | 0         | 17.29   | 17.40   | 17.47   | 18.50   |
|           |            | 1       | 25        | 17.14   | 16.83   | 17.26   | 18.50   |



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|           |            | 1       | 49        | 18.04   | 18.12   | 17.42   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 16.70   | 17.25   | 17.17   | 18.50   |
|           |            | 25      | 13        | 17.26   | 17.29   | 17.32   | 18.50   |
|           |            | 25      | 25        | 17.29   | 17.36   | 17.44   | 18.50   |
|           |            | 50      | 0         | 17.36   | 17.30   | 17.38   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 17.31   | 17.25   | 17.36   | 18.50   |
|           |            | 1       | 38        | 17.26   | 17.23   | 17.36   | 18.50   |
|           |            | 1       | 74        | 17.39   | 17.36   | 17.47   | 18.50   |
|           |            | 36      | 0         | 17.43   | 17.37   | 17.21   | 18.50   |
|           |            | 36      | 18        | 17.42   | 17.31   | 17.41   | 18.50   |
|           |            | 36      | 39        | 17.46   | 17.41   | 17.49   | 18.50   |
|           |            | 75      | 0         | 17.44   | 17.38   | 17.41   | 18.50   |
|           | 16QAM      | 1       | 0         | 17.22   | 17.41   | 17.44   | 18.50   |
|           |            | 1       | 38        | 17.53   | 17.26   | 17.62   | 18.50   |
|           |            | 1       | 74        | 17.42   | 17.48   | 17.20   | 18.50   |
|           |            | 36      | 0         | 17.39   | 17.47   | 17.35   | 18.50   |
|           |            | 36      | 18        | 17.48   | 17.34   | 17.50   | 18.50   |
|           |            | 36      | 39        | 17.52   | 17.41   | 17.51   | 18.50   |
|           |            | 75      | 0         | 17.46   | 17.33   | 17.51   | 18.50   |
|           | 64QAM      | 1       | 0         | 17.09   | 17.15   | 17.19   | 18.50   |
|           |            | 1       | 38        | 17.34   | 17.29   | 17.19   | 18.50   |
|           |            | 1       | 74        | 17.30   | 17.34   | 17.33   | 18.50   |
|           |            | 36      | 0         | 17.19   | 17.20   | 17.28   | 18.50   |
|           |            | 36      | 18        | 17.21   | 17.22   | 17.36   | 18.50   |
|           |            | 36      | 39        | 17.29   | 17.32   | 17.38   | 18.50   |
|           |            | 75      | 0         | 17.25   | 17.33   | 17.42   | 18.50   |
|           | 256QAM     | 1       | 0         | 17.31   | 17.46   | 17.48   | 18.50   |
|           |            | 1       | 38        | 17.07   | 16.83   | 17.24   | 18.50   |
|           |            | 1       | 74        | 18.05   | 18.11   | 17.45   | 18.50   |
|           |            | 36      | 0         | 16.72   | 17.22   | 17.24   | 18.50   |
|           |            | 36      | 18        | 17.26   | 17.26   | 17.36   | 18.50   |
|           |            | 36      | 39        | 17.27   | 17.36   | 17.46   | 18.50   |
|           |            | 75      | 0         | 17.33   | 17.29   | 17.36   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 17.32   | 17.28   | 17.38   | 18.50   |
|           |            | 1       | 50        | 17.35   | 17.31   | 17.43   | 18.50   |



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|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 1   | 99 | 17.45 | 17.43 | 17.50 | 18.50 |
|  |        | 50  | 0  | 17.45 | 17.39 | 17.30 | 18.50 |
|  |        | 50  | 25 | 17.44 | 17.38 | 17.46 | 18.50 |
|  |        | 50  | 50 | 17.48 | 17.48 | 17.55 | 18.50 |
|  |        | 100 | 0  | 17.45 | 17.42 | 17.43 | 18.50 |
|  | 16QAM  | 1   | 0  | 17.24 | 17.50 | 17.49 | 18.50 |
|  |        | 1   | 50 | 17.54 | 17.34 | 17.65 | 18.50 |
|  |        | 1   | 99 | 17.47 | 17.56 | 17.21 | 18.50 |
|  |        | 50  | 0  | 17.41 | 17.50 | 17.40 | 18.50 |
|  |        | 50  | 25 | 17.51 | 17.40 | 17.51 | 18.50 |
|  |        | 50  | 50 | 17.53 | 17.47 | 17.55 | 18.50 |
|  |        | 100 | 0  | 17.50 | 17.42 | 17.56 | 18.50 |
|  | 64QAM  | 1   | 0  | 17.17 | 17.20 | 17.23 | 18.50 |
|  |        | 1   | 50 | 17.43 | 17.32 | 17.21 | 18.50 |
|  |        | 1   | 99 | 17.36 | 17.41 | 17.42 | 18.50 |
|  |        | 50  | 0  | 17.25 | 17.22 | 17.33 | 18.50 |
|  |        | 50  | 25 | 17.24 | 17.31 | 17.38 | 18.50 |
|  |        | 50  | 50 | 17.35 | 17.33 | 17.43 | 18.50 |
|  |        | 100 | 0  | 17.26 | 17.38 | 17.43 | 18.50 |
|  | 256QAM | 1   | 0  | 17.36 | 17.49 | 17.56 | 18.50 |
|  |        | 1   | 50 | 17.16 | 16.85 | 17.29 | 18.50 |
|  |        | 1   | 99 | 18.12 | 18.13 | 17.49 | 18.50 |
|  |        | 50  | 0  | 16.79 | 17.31 | 17.25 | 18.50 |
|  |        | 50  | 25 | 17.31 | 17.33 | 17.41 | 18.50 |
|  |        | 50  | 50 | 17.31 | 17.42 | 17.52 | 18.50 |
|  |        | 100 | 0  | 17.41 | 17.35 | 17.41 | 18.50 |



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| LTE Band 66 DS13 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz           | QPSK       | 1       | 0         | 16.34                | 16.22   | 16.29   | 17.50   |
|                  |            | 1       | 2         | 16.33                | 16.30   | 16.37   | 17.50   |
|                  |            | 1       | 5         | 16.37                | 16.42   | 16.48   | 17.50   |
|                  |            | 3       | 0         | 16.32                | 16.31   | 16.38   | 17.50   |
|                  |            | 3       | 1         | 16.35                | 16.37   | 16.38   | 17.50   |
|                  |            | 3       | 3         | 16.37                | 16.40   | 16.47   | 17.50   |
|                  |            | 6       | 0         | 16.37                | 16.38   | 16.41   | 17.50   |
|                  | 16QAM      | 1       | 0         | 16.35                | 16.27   | 16.28   | 17.50   |
|                  |            | 1       | 2         | 16.42                | 16.35   | 16.47   | 17.50   |
|                  |            | 1       | 5         | 16.39                | 16.64   | 16.47   | 17.50   |
|                  |            | 3       | 0         | 16.41                | 16.37   | 16.37   | 17.50   |
|                  |            | 3       | 1         | 16.36                | 16.42   | 16.52   | 17.50   |
|                  |            | 3       | 3         | 16.36                | 16.42   | 16.47   | 17.50   |
|                  |            | 6       | 0         | 16.50                | 16.44   | 16.50   | 17.50   |
|                  | 64QAM      | 1       | 0         | 16.39                | 16.54   | 16.44   | 17.50   |
|                  |            | 1       | 2         | 16.16                | 16.48   | 16.33   | 17.50   |
|                  |            | 1       | 5         | 16.50                | 16.45   | 16.46   | 17.50   |
|                  |            | 3       | 0         | 16.38                | 16.34   | 16.40   | 17.50   |
|                  |            | 3       | 1         | 16.43                | 16.33   | 16.28   | 17.50   |
|                  |            | 3       | 3         | 16.39                | 16.39   | 16.57   | 17.50   |
|                  |            | 6       | 0         | 16.34                | 16.40   | 16.34   | 17.50   |
|                  | 256QAM     | 1       | 0         | 16.36                | 16.20   | 16.74   | 17.50   |
|                  |            | 1       | 2         | 16.16                | 16.10   | 15.61   | 17.50   |
|                  |            | 1       | 5         | 16.41                | 16.29   | 16.83   | 17.50   |
|                  |            | 3       | 0         | 15.76                | 16.30   | 16.29   | 17.50   |
|                  |            | 3       | 1         | 16.29                | 16.32   | 16.23   | 17.50   |
|                  |            | 3       | 3         | 16.24                | 16.48   | 16.41   | 17.50   |
|                  |            | 6       | 0         | 16.30                | 16.30   | 16.48   | 17.50   |
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 131987               | 132322  | 132657  |         |
| 3MHz             | QPSK       | 1       | 0         | 16.32                | 16.16   | 16.27   | 17.50   |
|                  |            | 1       | 7         | 16.30                | 16.24   | 16.37   | 17.50   |
|                  |            | 1       | 14        | 16.37                | 16.36   | 16.48   | 17.50   |
|                  |            | 8       | 0         | 16.34                | 16.30   | 16.37   | 17.50   |
|                  |            | 8       | 4         | 16.36                | 16.39   | 16.39   | 17.50   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 7         | 16.38   | 16.42   | 16.47   | 17.50   |
|           |            | 15      | 0         | 16.42   | 16.36   | 16.48   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.30   | 16.25   | 16.25   | 17.50   |
|           |            | 1       | 7         | 16.44   | 16.27   | 16.43   | 17.50   |
|           |            | 1       | 14        | 16.47   | 16.63   | 16.46   | 17.50   |
|           |            | 8       | 0         | 16.38   | 16.34   | 16.32   | 17.50   |
|           |            | 8       | 4         | 16.42   | 16.35   | 16.52   | 17.50   |
|           |            | 8       | 7         | 16.35   | 16.45   | 16.46   | 17.50   |
|           |            | 15      | 0         | 16.43   | 16.39   | 16.47   | 17.50   |
|           |            | 1       | 0         | 16.32   | 16.52   | 16.40   | 17.50   |
|           | 64QAM      | 1       | 7         | 16.12   | 16.51   | 16.29   | 17.50   |
|           |            | 1       | 14        | 16.46   | 16.49   | 16.49   | 17.50   |
|           |            | 8       | 0         | 16.33   | 16.28   | 16.40   | 17.50   |
|           |            | 8       | 4         | 16.44   | 16.30   | 16.35   | 17.50   |
|           |            | 8       | 7         | 16.43   | 16.31   | 16.58   | 17.50   |
|           |            | 15      | 0         | 16.33   | 16.41   | 16.39   | 17.50   |
|           |            | 1       | 0         | 16.39   | 16.24   | 16.75   | 17.50   |
|           | 256QAM     | 1       | 7         | 16.13   | 16.07   | 15.58   | 17.50   |
|           |            | 1       | 14        | 16.40   | 16.37   | 16.83   | 17.50   |
|           |            | 8       | 0         | 15.70   | 16.25   | 16.31   | 17.50   |
|           |            | 8       | 4         | 16.26   | 16.28   | 16.21   | 17.50   |
|           |            | 8       | 7         | 16.29   | 16.42   | 16.47   | 17.50   |
|           |            | 15      | 0         | 16.30   | 16.29   | 16.48   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 16.30   | 16.16   | 16.22   | 17.50   |
|           |            | 1       | 13        | 16.28   | 16.26   | 16.38   | 17.50   |
|           |            | 1       | 24        | 16.42   | 16.35   | 16.52   | 17.50   |
|           |            | 12      | 0         | 16.33   | 16.34   | 16.38   | 17.50   |
|           |            | 12      | 6         | 16.43   | 16.34   | 16.39   | 17.50   |
|           |            | 12      | 13        | 16.40   | 16.47   | 16.44   | 17.50   |
|           |            | 25      | 0         | 16.41   | 16.37   | 16.43   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.37   | 16.31   | 16.31   | 17.50   |
|           |            | 1       | 13        | 16.47   | 16.35   | 16.43   | 17.50   |
|           |            | 1       | 24        | 16.42   | 16.63   | 16.46   | 17.50   |
|           |            | 12      | 0         | 16.40   | 16.33   | 16.31   | 17.50   |
|           |            | 12      | 6         | 16.42   | 16.40   | 16.53   | 17.50   |
|           |            | 12      | 13        | 16.36   | 16.48   | 16.47   | 17.50   |
|           |            | 25      | 0         | 16.46   | 16.41   | 16.44   | 17.50   |



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|           | 64QAM      | 1       | 0         | 16.35   | 16.53   | 16.40   | 17.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 16.19   | 16.48   | 16.32   | 17.50   |
|           |            | 1       | 24        | 16.50   | 16.50   | 16.48   | 17.50   |
|           |            | 12      | 0         | 16.32   | 16.33   | 16.35   | 17.50   |
|           |            | 12      | 6         | 16.38   | 16.33   | 16.33   | 17.50   |
|           |            | 12      | 13        | 16.43   | 16.37   | 16.54   | 17.50   |
|           |            | 25      | 0         | 16.28   | 16.44   | 16.34   | 17.50   |
|           | 256QAM     | 1       | 0         | 16.35   | 16.27   | 16.73   | 17.50   |
|           |            | 1       | 13        | 16.13   | 16.08   | 15.63   | 17.50   |
|           |            | 1       | 24        | 16.34   | 16.32   | 16.87   | 17.50   |
|           |            | 12      | 0         | 15.68   | 16.30   | 16.36   | 17.50   |
|           |            | 12      | 6         | 16.31   | 16.29   | 16.20   | 17.50   |
|           |            | 12      | 13        | 16.21   | 16.45   | 16.39   | 17.50   |
|           |            | 25      | 0         | 16.30   | 16.31   | 16.47   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |
| 10MHz     | QPSK       | 1       | 0         | 16.34   | 16.22   | 16.28   | 17.50   |
|           |            | 1       | 25        | 16.33   | 16.29   | 16.40   | 17.50   |
|           |            | 1       | 49        | 16.40   | 16.41   | 16.52   | 17.50   |
|           |            | 25      | 0         | 16.27   | 16.29   | 16.44   | 17.50   |
|           |            | 25      | 13        | 16.35   | 16.34   | 16.37   | 17.50   |
|           |            | 25      | 25        | 16.41   | 16.47   | 16.42   | 17.50   |
|           |            | 50      | 0         | 16.42   | 16.34   | 16.49   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.37   | 16.24   | 16.33   | 17.50   |
|           |            | 1       | 25        | 16.42   | 16.34   | 16.43   | 17.50   |
|           |            | 1       | 49        | 16.44   | 16.66   | 16.51   | 17.50   |
|           |            | 25      | 0         | 16.41   | 16.36   | 16.37   | 17.50   |
|           |            | 25      | 13        | 16.34   | 16.42   | 16.46   | 17.50   |
|           |            | 25      | 25        | 16.41   | 16.48   | 16.47   | 17.50   |
|           |            | 50      | 0         | 16.46   | 16.42   | 16.49   | 17.50   |
|           | 64QAM      | 1       | 0         | 16.37   | 16.56   | 16.48   | 17.50   |
|           |            | 1       | 25        | 16.16   | 16.47   | 16.30   | 17.50   |
|           |            | 1       | 49        | 16.46   | 16.52   | 16.51   | 17.50   |
|           |            | 25      | 0         | 16.36   | 16.36   | 16.39   | 17.50   |
|           |            | 25      | 13        | 16.37   | 16.33   | 16.34   | 17.50   |
|           |            | 25      | 25        | 16.42   | 16.37   | 16.57   | 17.50   |
|           |            | 50      | 0         | 16.28   | 16.45   | 16.35   | 17.50   |
|           | 256QAM     | 1       | 0         | 16.40   | 16.27   | 16.68   | 17.50   |
|           |            | 1       | 25        | 16.20   | 16.06   | 15.63   | 17.50   |



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|           |            | 1       | 49        | 16.35   | 16.37   | 16.84   | 17.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 15.76   | 16.28   | 16.32   | 17.50   |
|           |            | 25      | 13        | 16.30   | 16.27   | 16.21   | 17.50   |
|           |            | 25      | 25        | 16.28   | 16.44   | 16.40   | 17.50   |
|           |            | 50      | 0         | 16.25   | 16.27   | 16.43   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 16.30   | 16.21   | 16.21   | 17.50   |
|           |            | 1       | 38        | 16.35   | 16.26   | 16.34   | 17.50   |
|           |            | 1       | 74        | 16.37   | 16.34   | 16.49   | 17.50   |
|           |            | 36      | 0         | 16.31   | 16.35   | 16.42   | 17.50   |
|           |            | 36      | 18        | 16.38   | 16.37   | 16.37   | 17.50   |
|           |            | 36      | 39        | 16.35   | 16.41   | 16.45   | 17.50   |
|           |            | 75      | 0         | 16.42   | 16.39   | 16.43   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.37   | 16.29   | 16.29   | 17.50   |
|           |            | 1       | 38        | 16.49   | 16.28   | 16.45   | 17.50   |
|           |            | 1       | 74        | 16.41   | 16.67   | 16.52   | 17.50   |
|           |            | 36      | 0         | 16.37   | 16.39   | 16.34   | 17.50   |
|           |            | 36      | 18        | 16.41   | 16.41   | 16.48   | 17.50   |
|           |            | 36      | 39        | 16.41   | 16.43   | 16.43   | 17.50   |
|           |            | 75      | 0         | 16.43   | 16.39   | 16.44   | 17.50   |
|           | 64QAM      | 1       | 0         | 16.35   | 16.55   | 16.48   | 17.50   |
|           |            | 1       | 38        | 16.13   | 16.53   | 16.30   | 17.50   |
|           |            | 1       | 74        | 16.48   | 16.50   | 16.47   | 17.50   |
|           |            | 36      | 0         | 16.38   | 16.32   | 16.41   | 17.50   |
|           |            | 36      | 18        | 16.43   | 16.32   | 16.30   | 17.50   |
|           |            | 36      | 39        | 16.38   | 16.33   | 16.50   | 17.50   |
|           |            | 75      | 0         | 16.34   | 16.38   | 16.37   | 17.50   |
|           | 256QAM     | 1       | 0         | 16.33   | 16.21   | 16.73   | 17.50   |
|           |            | 1       | 38        | 16.17   | 16.04   | 15.60   | 17.50   |
|           |            | 1       | 74        | 16.38   | 16.37   | 16.82   | 17.50   |
|           |            | 36      | 0         | 15.76   | 16.23   | 16.29   | 17.50   |
|           |            | 36      | 18        | 16.27   | 16.28   | 16.24   | 17.50   |
|           |            | 36      | 39        | 16.29   | 16.44   | 16.47   | 17.50   |
|           |            | 75      | 0         | 16.29   | 16.32   | 16.50   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 16.35   | 16.25   | 16.30   | 17.50   |
|           |            | 1       | 50        | 16.36   | 16.31   | 16.41   | 17.50   |



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|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 1   | 99 | 16.46 | 16.43 | 16.54 | 17.50 |
|  |        | 50  | 0  | 16.35 | 16.38 | 16.45 | 17.50 |
|  |        | 50  | 25 | 16.44 | 16.41 | 16.41 | 17.50 |
|  |        | 50  | 50 | 16.44 | 16.48 | 16.50 | 17.50 |
|  |        | 100 | 0  | 16.46 | 16.43 | 16.50 | 17.50 |
|  | 16QAM  | 1   | 0  | 16.39 | 16.33 | 16.34 | 17.50 |
|  |        | 1   | 50 | 16.51 | 16.36 | 16.49 | 17.50 |
|  |        | 1   | 99 | 16.48 | 16.71 | 16.55 | 17.50 |
|  |        | 50  | 0  | 16.42 | 16.40 | 16.38 | 17.50 |
|  |        | 50  | 25 | 16.43 | 16.43 | 16.54 | 17.50 |
|  |        | 50  | 50 | 16.42 | 16.50 | 16.51 | 17.50 |
|  |        | 100 | 0  | 16.52 | 16.45 | 16.52 | 17.50 |
|  | 64QAM  | 1   | 0  | 16.40 | 16.59 | 16.49 | 17.50 |
|  |        | 1   | 50 | 16.21 | 16.55 | 16.37 | 17.50 |
|  |        | 1   | 99 | 16.52 | 16.53 | 16.53 | 17.50 |
|  |        | 50  | 0  | 16.40 | 16.37 | 16.43 | 17.50 |
|  |        | 50  | 25 | 16.45 | 16.38 | 16.37 | 17.50 |
|  |        | 50  | 50 | 16.44 | 16.40 | 16.59 | 17.50 |
|  |        | 100 | 0  | 16.37 | 16.47 | 16.41 | 17.50 |
|  | 256QAM | 1   | 0  | 16.42 | 16.28 | 16.77 | 17.50 |
|  |        | 1   | 50 | 16.21 | 16.13 | 15.64 | 17.50 |
|  |        | 1   | 99 | 16.42 | 16.38 | 16.90 | 17.50 |
|  |        | 50  | 0  | 15.77 | 16.31 | 16.37 | 17.50 |
|  |        | 50  | 25 | 16.35 | 16.35 | 16.26 | 17.50 |
|  |        | 50  | 50 | 16.30 | 16.50 | 16.48 | 17.50 |
|  |        | 100 | 0  | 16.32 | 16.34 | 16.51 | 17.50 |



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| LTE Band 66 DS15 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz           | QPSK       | 1       | 0         | 19.54                | 19.64   | 19.64   | 21.00   |
|                  |            | 1       | 2         | 19.59                | 19.52   | 19.63   | 21.00   |
|                  |            | 1       | 5         | 19.71                | 19.78   | 19.76   | 21.00   |
|                  |            | 3       | 0         | 19.69                | 19.72   | 19.64   | 21.00   |
|                  |            | 3       | 1         | 19.70                | 19.69   | 19.78   | 21.00   |
|                  |            | 3       | 3         | 19.61                | 19.77   | 19.84   | 21.00   |
|                  |            | 6       | 0         | 19.63                | 19.71   | 19.72   | 21.00   |
|                  | 16QAM      | 1       | 0         | 19.72                | 19.81   | 19.41   | 21.00   |
|                  |            | 1       | 2         | 19.75                | 19.70   | 19.56   | 21.00   |
|                  |            | 1       | 5         | 19.86                | 19.80   | 19.85   | 21.00   |
|                  |            | 3       | 0         | 19.67                | 19.59   | 19.55   | 21.00   |
|                  |            | 3       | 1         | 19.75                | 19.72   | 19.81   | 21.00   |
|                  |            | 3       | 3         | 19.62                | 19.72   | 19.78   | 21.00   |
|                  |            | 6       | 0         | 19.67                | 19.71   | 19.57   | 21.00   |
|                  | 64QAM      | 1       | 0         | 19.70                | 19.65   | 19.50   | 21.00   |
|                  |            | 1       | 2         | 19.77                | 19.72   | 19.92   | 21.00   |
|                  |            | 1       | 5         | 19.86                | 19.77   | 19.72   | 21.00   |
|                  |            | 3       | 0         | 19.57                | 19.63   | 19.73   | 21.00   |
|                  |            | 3       | 1         | 19.60                | 19.73   | 19.77   | 21.00   |
|                  |            | 3       | 3         | 19.69                | 19.70   | 19.90   | 21.00   |
|                  |            | 6       | 0         | 19.69                | 19.78   | 19.76   | 21.00   |
|                  | 256QAM     | 1       | 0         | 17.46                | 17.68   | 17.94   | 19.00   |
|                  |            | 1       | 2         | 17.33                | 17.35   | 17.39   | 19.00   |
|                  |            | 1       | 5         | 17.95                | 17.70   | 17.95   | 19.00   |
|                  |            | 3       | 0         | 17.11                | 17.69   | 17.71   | 19.00   |
|                  |            | 3       | 1         | 17.66                | 17.68   | 17.73   | 19.00   |
|                  |            | 3       | 3         | 17.72                | 17.72   | 17.84   | 19.00   |
|                  |            | 6       | 0         | 17.68                | 17.70   | 17.82   | 19.00   |
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 131987               | 132322  | 132657  |         |
| 3MHz             | QPSK       | 1       | 0         | 19.58                | 19.63   | 19.65   | 21.00   |
|                  |            | 1       | 7         | 19.60                | 19.46   | 19.67   | 21.00   |
|                  |            | 1       | 14        | 19.65                | 19.82   | 19.82   | 21.00   |
|                  |            | 8       | 0         | 19.63                | 19.69   | 19.63   | 21.00   |
|                  |            | 8       | 4         | 19.73                | 19.68   | 19.72   | 21.00   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 7         | 19.65   | 19.74   | 19.79   | 21.00   |
|           |            | 15      | 0         | 19.62   | 19.68   | 19.74   | 21.00   |
|           | 16QAM      | 1       | 0         | 19.68   | 19.78   | 19.43   | 21.00   |
|           |            | 1       | 7         | 19.78   | 19.71   | 19.59   | 21.00   |
|           |            | 1       | 14        | 19.86   | 19.81   | 19.89   | 21.00   |
|           |            | 8       | 0         | 19.67   | 19.64   | 19.56   | 21.00   |
|           |            | 8       | 4         | 19.70   | 19.77   | 19.84   | 21.00   |
|           |            | 8       | 7         | 19.67   | 19.69   | 19.80   | 21.00   |
|           |            | 15      | 0         | 19.70   | 19.75   | 19.63   | 21.00   |
|           |            | 1       | 0         | 19.66   | 19.64   | 19.54   | 21.00   |
|           | 64QAM      | 1       | 7         | 19.78   | 19.69   | 19.90   | 21.00   |
|           |            | 1       | 14        | 19.82   | 19.82   | 19.79   | 21.00   |
|           |            | 8       | 0         | 19.64   | 19.65   | 19.69   | 21.00   |
|           |            | 8       | 4         | 19.63   | 19.76   | 19.76   | 21.00   |
|           |            | 8       | 7         | 19.68   | 19.77   | 19.85   | 21.00   |
|           |            | 15      | 0         | 19.70   | 19.78   | 19.73   | 21.00   |
|           |            | 1       | 0         | 17.43   | 17.66   | 17.95   | 19.00   |
|           | 256QAM     | 1       | 7         | 17.35   | 17.34   | 17.37   | 19.00   |
|           |            | 1       | 14        | 17.93   | 17.64   | 17.98   | 19.00   |
|           |            | 8       | 0         | 17.08   | 17.72   | 17.76   | 19.00   |
|           |            | 8       | 4         | 17.70   | 17.73   | 17.73   | 19.00   |
|           |            | 8       | 7         | 17.71   | 17.75   | 17.85   | 19.00   |
|           |            | 15      | 0         | 17.65   | 17.66   | 17.77   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 19.54   | 19.63   | 19.58   | 21.00   |
|           |            | 1       | 13        | 19.60   | 19.46   | 19.68   | 21.00   |
|           |            | 1       | 24        | 19.66   | 19.80   | 19.76   | 21.00   |
|           |            | 12      | 0         | 19.66   | 19.69   | 19.60   | 21.00   |
|           |            | 12      | 6         | 19.73   | 19.72   | 19.78   | 21.00   |
|           |            | 12      | 13        | 19.60   | 19.77   | 19.85   | 21.00   |
|           |            | 25      | 0         | 19.63   | 19.72   | 19.75   | 21.00   |
|           | 16QAM      | 1       | 0         | 19.71   | 19.78   | 19.41   | 21.00   |
|           |            | 1       | 13        | 19.77   | 19.65   | 19.60   | 21.00   |
|           |            | 1       | 24        | 19.88   | 19.80   | 19.85   | 21.00   |
|           |            | 12      | 0         | 19.67   | 19.62   | 19.56   | 21.00   |
|           |            | 12      | 6         | 19.70   | 19.76   | 19.82   | 21.00   |
|           |            | 12      | 13        | 19.64   | 19.67   | 19.80   | 21.00   |
|           |            | 25      | 0         | 19.72   | 19.70   | 19.58   | 21.00   |



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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  
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|           | 64QAM      | 1       | 0         | 19.67   | 19.71   | 19.52   | 21.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 19.75   | 19.75   | 19.93   | 21.00   |
|           |            | 1       | 24        | 19.86   | 19.79   | 19.71   | 21.00   |
|           |            | 12      | 0         | 19.56   | 19.60   | 19.73   | 21.00   |
|           |            | 12      | 6         | 19.63   | 19.74   | 19.72   | 21.00   |
|           |            | 12      | 13        | 19.71   | 19.77   | 19.88   | 21.00   |
|           |            | 25      | 0         | 19.69   | 19.75   | 19.72   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.42   | 17.62   | 17.89   | 19.00   |
|           |            | 1       | 13        | 17.34   | 17.39   | 17.39   | 19.00   |
|           |            | 1       | 24        | 17.95   | 17.65   | 17.90   | 19.00   |
|           |            | 12      | 0         | 17.08   | 17.73   | 17.76   | 19.00   |
|           |            | 12      | 6         | 17.68   | 17.72   | 17.71   | 19.00   |
|           |            | 12      | 13        | 17.75   | 17.75   | 17.83   | 19.00   |
|           |            | 25      | 0         | 17.72   | 17.66   | 17.78   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |
| 10MHz     | QPSK       | 1       | 0         | 19.59   | 19.62   | 19.60   | 21.00   |
|           |            | 1       | 25        | 19.52   | 19.49   | 19.61   | 21.00   |
|           |            | 1       | 49        | 19.68   | 19.79   | 19.76   | 21.00   |
|           |            | 25      | 0         | 19.64   | 19.72   | 19.62   | 21.00   |
|           |            | 25      | 13        | 19.69   | 19.65   | 19.79   | 21.00   |
|           |            | 25      | 25        | 19.60   | 19.81   | 19.82   | 21.00   |
|           |            | 50      | 0         | 19.70   | 19.75   | 19.78   | 21.00   |
|           | 16QAM      | 1       | 0         | 19.68   | 19.76   | 19.44   | 21.00   |
|           |            | 1       | 25        | 19.80   | 19.69   | 19.56   | 21.00   |
|           |            | 1       | 49        | 19.84   | 19.82   | 19.84   | 21.00   |
|           |            | 25      | 0         | 19.64   | 19.57   | 19.59   | 21.00   |
|           |            | 25      | 13        | 19.72   | 19.77   | 19.79   | 21.00   |
|           |            | 25      | 25        | 19.63   | 19.73   | 19.86   | 21.00   |
|           |            | 50      | 0         | 19.65   | 19.70   | 19.59   | 21.00   |
|           | 64QAM      | 1       | 0         | 19.65   | 19.71   | 19.49   | 21.00   |
|           |            | 1       | 25        | 19.82   | 19.74   | 19.92   | 21.00   |
|           |            | 1       | 49        | 19.88   | 19.85   | 19.71   | 21.00   |
|           |            | 25      | 0         | 19.57   | 19.63   | 19.71   | 21.00   |
|           |            | 25      | 13        | 19.56   | 19.70   | 19.74   | 21.00   |
|           |            | 25      | 25        | 19.63   | 19.78   | 19.89   | 21.00   |
|           |            | 50      | 0         | 19.71   | 19.75   | 19.78   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.49   | 17.67   | 17.92   | 19.00   |
|           |            | 1       | 25        | 17.37   | 17.35   | 17.38   | 19.00   |



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|           |            | 1       | 49        | 17.97   | 17.66   | 17.90   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 17.09   | 17.69   | 17.76   | 19.00   |
|           |            | 25      | 13        | 17.62   | 17.74   | 17.70   | 19.00   |
|           |            | 25      | 25        | 17.73   | 17.70   | 17.84   | 19.00   |
|           |            | 50      | 0         | 17.71   | 17.66   | 17.79   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 19.55   | 19.59   | 19.65   | 21.00   |
|           |            | 1       | 38        | 19.52   | 19.52   | 19.64   | 21.00   |
|           |            | 1       | 74        | 19.69   | 19.81   | 19.82   | 21.00   |
|           |            | 36      | 0         | 19.63   | 19.65   | 19.57   | 21.00   |
|           |            | 36      | 18        | 19.69   | 19.65   | 19.80   | 21.00   |
|           |            | 36      | 39        | 19.62   | 19.74   | 19.82   | 21.00   |
|           |            | 75      | 0         | 19.66   | 19.71   | 19.72   | 21.00   |
|           | 16QAM      | 1       | 0         | 19.73   | 19.81   | 19.41   | 21.00   |
|           |            | 1       | 38        | 19.80   | 19.72   | 19.60   | 21.00   |
|           |            | 1       | 74        | 19.90   | 19.80   | 19.87   | 21.00   |
|           |            | 36      | 0         | 19.65   | 19.58   | 19.60   | 21.00   |
|           |            | 36      | 18        | 19.72   | 19.74   | 19.82   | 21.00   |
|           |            | 36      | 39        | 19.63   | 19.69   | 19.81   | 21.00   |
|           |            | 75      | 0         | 19.66   | 19.78   | 19.64   | 21.00   |
|           | 64QAM      | 1       | 0         | 19.66   | 19.65   | 19.47   | 21.00   |
|           |            | 1       | 38        | 19.82   | 19.76   | 19.94   | 21.00   |
|           |            | 1       | 74        | 19.87   | 19.78   | 19.76   | 21.00   |
|           |            | 36      | 0         | 19.61   | 19.66   | 19.70   | 21.00   |
|           |            | 36      | 18        | 19.57   | 19.78   | 19.76   | 21.00   |
|           |            | 36      | 39        | 19.69   | 19.73   | 19.85   | 21.00   |
|           |            | 75      | 0         | 19.74   | 19.82   | 19.76   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.41   | 17.62   | 17.87   | 19.00   |
|           |            | 1       | 38        | 17.34   | 17.34   | 17.43   | 19.00   |
|           |            | 1       | 74        | 17.98   | 17.66   | 17.98   | 19.00   |
|           |            | 36      | 0         | 17.05   | 17.73   | 17.75   | 19.00   |
|           |            | 36      | 18        | 17.64   | 17.75   | 17.71   | 19.00   |
|           |            | 36      | 39        | 17.72   | 17.76   | 17.86   | 19.00   |
|           |            | 75      | 0         | 17.67   | 17.71   | 17.77   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 19.63   | 19.67   | 19.67   | 21.00   |
|           |            | 1       | 50        | 19.61   | 19.54   | 19.69   | 21.00   |



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|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 1   | 99 | 19.72 | 19.83 | 19.81 | 21.00 |
|  |        | 50  | 0  | 19.70 | 19.74 | 19.66 | 21.00 |
|  |        | 50  | 25 | 19.74 | 19.73 | 19.81 | 21.00 |
|  |        | 50  | 50 | 19.67 | 19.82 | 19.87 | 21.00 |
|  |        | 100 | 0  | 19.71 | 19.77 | 19.81 | 21.00 |
|  | 16QAM  | 1   | 0  | 19.77 | 19.82 | 19.50 | 21.00 |
|  |        | 1   | 50 | 19.84 | 19.74 | 19.65 | 21.00 |
|  |        | 1   | 99 | 19.92 | 19.87 | 19.92 | 21.00 |
|  |        | 50  | 0  | 19.69 | 19.65 | 19.61 | 21.00 |
|  |        | 50  | 25 | 19.76 | 19.79 | 19.87 | 21.00 |
|  |        | 50  | 50 | 19.68 | 19.76 | 19.87 | 21.00 |
|  |        | 100 | 0  | 19.73 | 19.79 | 19.66 | 21.00 |
|  | 64QAM  | 1   | 0  | 19.72 | 19.72 | 19.56 | 21.00 |
|  |        | 1   | 50 | 19.84 | 19.77 | 19.97 | 21.00 |
|  |        | 1   | 99 | 19.91 | 19.86 | 19.80 | 21.00 |
|  |        | 50  | 0  | 19.65 | 19.69 | 19.76 | 21.00 |
|  |        | 50  | 25 | 19.65 | 19.79 | 19.81 | 21.00 |
|  |        | 50  | 50 | 19.72 | 19.79 | 19.92 | 21.00 |
|  |        | 100 | 0  | 19.78 | 19.83 | 19.80 | 21.00 |
|  | 256QAM | 1   | 0  | 17.50 | 17.71 | 17.96 | 19.00 |
|  |        | 1   | 50 | 17.41 | 17.41 | 17.44 | 19.00 |
|  |        | 1   | 99 | 18.00 | 17.72 | 17.99 | 19.00 |
|  |        | 50  | 0  | 17.14 | 17.76 | 17.77 | 19.00 |
|  |        | 50  | 25 | 17.71 | 17.77 | 17.76 | 19.00 |
|  |        | 50  | 50 | 17.78 | 17.77 | 17.88 | 19.00 |
|  |        | 100 | 0  | 17.74 | 17.72 | 17.84 | 19.00 |



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| LTE Band 66 DS18/9/10 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz                | QPSK       | 1       | 0         | 18.23                | 18.24   | 18.12   | 19.50   |
|                       |            | 1       | 2         | 18.29                | 18.27   | 18.26   | 19.50   |
|                       |            | 1       | 5         | 18.40                | 18.39   | 18.46   | 19.50   |
|                       |            | 3       | 0         | 18.31                | 18.39   | 18.33   | 19.50   |
|                       |            | 3       | 1         | 18.33                | 18.36   | 18.32   | 19.50   |
|                       |            | 3       | 3         | 18.30                | 18.35   | 18.46   | 19.50   |
|                       |            | 6       | 0         | 18.37                | 18.37   | 18.38   | 19.50   |
|                       | 16QAM      | 1       | 0         | 18.18                | 18.25   | 18.04   | 19.50   |
|                       |            | 1       | 2         | 18.22                | 18.24   | 18.28   | 19.50   |
|                       |            | 1       | 5         | 18.25                | 18.39   | 18.25   | 19.50   |
|                       |            | 3       | 0         | 18.28                | 18.14   | 18.07   | 19.50   |
|                       |            | 3       | 1         | 18.14                | 18.18   | 18.31   | 19.50   |
|                       |            | 3       | 3         | 18.16                | 18.23   | 18.37   | 19.50   |
|                       |            | 6       | 0         | 18.13                | 18.27   | 18.25   | 19.50   |
|                       | 64QAM      | 1       | 0         | 18.20                | 18.27   | 18.17   | 19.50   |
|                       |            | 1       | 2         | 18.32                | 17.93   | 18.20   | 19.50   |
|                       |            | 1       | 5         | 18.17                | 18.29   | 18.44   | 19.50   |
|                       |            | 3       | 0         | 18.14                | 18.21   | 18.14   | 19.50   |
|                       |            | 3       | 1         | 18.22                | 18.32   | 18.26   | 19.50   |
|                       |            | 3       | 3         | 18.25                | 18.26   | 18.30   | 19.50   |
|                       |            | 6       | 0         | 18.19                | 18.16   | 18.11   | 19.50   |
|                       | 256QAM     | 1       | 0         | 17.28                | 17.84   | 17.47   | 19.00   |
|                       |            | 1       | 2         | 17.45                | 17.50   | 17.58   | 19.00   |
|                       |            | 1       | 5         | 17.68                | 17.43   | 18.25   | 19.00   |
|                       |            | 3       | 0         | 17.17                | 17.26   | 17.65   | 19.00   |
|                       |            | 3       | 1         | 17.68                | 17.69   | 17.78   | 19.00   |
|                       |            | 3       | 3         | 17.96                | 17.80   | 17.81   | 19.00   |
|                       |            | 6       | 0         | 17.73                | 17.69   | 17.78   | 19.00   |
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 131987               | 132322  | 132657  |         |
| 3MHz                  | QPSK       | 1       | 0         | 18.25                | 18.25   | 18.20   | 19.50   |
|                       |            | 1       | 7         | 18.25                | 18.30   | 18.29   | 19.50   |
|                       |            | 1       | 14        | 18.39                | 18.40   | 18.46   | 19.50   |
|                       |            | 8       | 0         | 18.31                | 18.35   | 18.36   | 19.50   |
|                       |            | 8       | 4         | 18.37                | 18.38   | 18.32   | 19.50   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 7         | 18.29   | 18.32   | 18.47   | 19.50   |
|           |            | 15      | 0         | 18.35   | 18.41   | 18.39   | 19.50   |
|           | 16QAM      | 1       | 0         | 18.18   | 18.21   | 18.04   | 19.50   |
|           |            | 1       | 7         | 18.20   | 18.24   | 18.34   | 19.50   |
|           |            | 1       | 14        | 18.28   | 18.36   | 18.23   | 19.50   |
|           |            | 8       | 0         | 18.30   | 18.13   | 18.07   | 19.50   |
|           |            | 8       | 4         | 18.16   | 18.20   | 18.34   | 19.50   |
|           |            | 8       | 7         | 18.17   | 18.20   | 18.35   | 19.50   |
|           |            | 15      | 0         | 18.14   | 18.23   | 18.28   | 19.50   |
|           |            | 1       | 0         | 18.16   | 18.28   | 18.12   | 19.50   |
|           | 64QAM      | 1       | 7         | 18.32   | 17.90   | 18.20   | 19.50   |
|           |            | 1       | 14        | 18.13   | 18.34   | 18.48   | 19.50   |
|           |            | 8       | 0         | 18.19   | 18.15   | 18.15   | 19.50   |
|           |            | 8       | 4         | 18.21   | 18.30   | 18.25   | 19.50   |
|           |            | 8       | 7         | 18.26   | 18.30   | 18.36   | 19.50   |
|           |            | 15      | 0         | 18.23   | 18.24   | 18.10   | 19.50   |
|           |            | 1       | 0         | 17.26   | 17.83   | 17.45   | 19.00   |
|           | 256QAM     | 1       | 7         | 17.42   | 17.46   | 17.56   | 19.00   |
|           |            | 1       | 14        | 17.64   | 17.44   | 18.32   | 19.00   |
|           |            | 8       | 0         | 17.22   | 17.25   | 17.66   | 19.00   |
|           |            | 8       | 4         | 17.66   | 17.77   | 17.82   | 19.00   |
|           |            | 8       | 7         | 17.94   | 17.77   | 17.84   | 19.00   |
|           |            | 15      | 0         | 17.78   | 17.69   | 17.81   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 18.31   | 18.21   | 18.19   | 19.50   |
|           |            | 1       | 13        | 18.27   | 18.28   | 18.25   | 19.50   |
|           |            | 1       | 24        | 18.35   | 18.38   | 18.43   | 19.50   |
|           |            | 12      | 0         | 18.30   | 18.37   | 18.33   | 19.50   |
|           |            | 12      | 6         | 18.35   | 18.33   | 18.31   | 19.50   |
|           |            | 12      | 13        | 18.28   | 18.30   | 18.54   | 19.50   |
|           |            | 25      | 0         | 18.39   | 18.38   | 18.41   | 19.50   |
|           | 16QAM      | 1       | 0         | 18.21   | 18.22   | 18.03   | 19.50   |
|           |            | 1       | 13        | 18.24   | 18.25   | 18.33   | 19.50   |
|           |            | 1       | 24        | 18.22   | 18.36   | 18.22   | 19.50   |
|           |            | 12      | 0         | 18.23   | 18.10   | 18.10   | 19.50   |
|           |            | 12      | 6         | 18.14   | 18.19   | 18.30   | 19.50   |
|           |            | 12      | 13        | 18.16   | 18.26   | 18.38   | 19.50   |
|           |            | 25      | 0         | 18.13   | 18.22   | 18.29   | 19.50   |



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|           |            | 1       | 0         | 18.15   | 18.28   | 18.16   | 19.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 18.27   | 17.91   | 18.28   | 19.50   |
|           |            | 1       | 24        | 18.17   | 18.31   | 18.49   | 19.50   |
|           | 64QAM      | 12      | 0         | 18.16   | 18.20   | 18.12   | 19.50   |
|           |            | 12      | 6         | 18.23   | 18.26   | 18.25   | 19.50   |
|           |            | 12      | 13        | 18.22   | 18.25   | 18.31   | 19.50   |
|           |            | 25      | 0         | 18.21   | 18.18   | 18.17   | 19.50   |
|           |            | 1       | 0         | 17.29   | 17.82   | 17.45   | 19.00   |
|           |            | 1       | 13        | 17.47   | 17.47   | 17.56   | 19.00   |
|           |            | 1       | 24        | 17.64   | 17.49   | 18.27   | 19.00   |
|           | 256QAM     | 12      | 0         | 17.22   | 17.26   | 17.64   | 19.00   |
|           |            | 12      | 6         | 17.66   | 17.71   | 17.81   | 19.00   |
|           |            | 12      | 13        | 17.89   | 17.80   | 17.83   | 19.00   |
|           |            | 25      | 0         | 17.74   | 17.65   | 17.81   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |
| 10MHz     | QPSK       | 1       | 0         | 18.25   | 18.21   | 18.18   | 19.50   |
|           |            | 1       | 25        | 18.27   | 18.28   | 18.27   | 19.50   |
|           |            | 1       | 49        | 18.37   | 18.45   | 18.42   | 19.50   |
|           |            | 25      | 0         | 18.24   | 18.36   | 18.31   | 19.50   |
|           |            | 25      | 13        | 18.33   | 18.38   | 18.27   | 19.50   |
|           |            | 25      | 25        | 18.28   | 18.36   | 18.52   | 19.50   |
|           |            | 50      | 0         | 18.41   | 18.34   | 18.41   | 19.50   |
|           | 16QAM      | 1       | 0         | 18.25   | 18.19   | 18.06   | 19.50   |
|           |            | 1       | 25        | 18.27   | 18.30   | 18.29   | 19.50   |
|           |            | 1       | 49        | 18.28   | 18.37   | 18.22   | 19.50   |
|           |            | 25      | 0         | 18.22   | 18.09   | 18.06   | 19.50   |
|           |            | 25      | 13        | 18.17   | 18.19   | 18.32   | 19.50   |
|           |            | 25      | 25        | 18.16   | 18.19   | 18.32   | 19.50   |
|           |            | 50      | 0         | 18.15   | 18.26   | 18.23   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.18   | 18.26   | 18.14   | 19.50   |
|           |            | 1       | 25        | 18.31   | 17.90   | 18.26   | 19.50   |
|           |            | 1       | 49        | 18.20   | 18.29   | 18.43   | 19.50   |
|           |            | 25      | 0         | 18.18   | 18.21   | 18.17   | 19.50   |
|           |            | 25      | 13        | 18.22   | 18.25   | 18.29   | 19.50   |
|           |            | 25      | 25        | 18.25   | 18.30   | 18.31   | 19.50   |
|           |            | 50      | 0         | 18.19   | 18.18   | 18.10   | 19.50   |
|           | 256QAM     | 1       | 0         | 17.31   | 17.84   | 17.51   | 19.00   |
|           |            | 1       | 25        | 17.46   | 17.51   | 17.57   | 19.00   |



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|           |            | 1       | 49        | 17.68   | 17.51   | 18.26   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 17.23   | 17.24   | 17.70   | 19.00   |
|           |            | 25      | 13        | 17.69   | 17.74   | 17.83   | 19.00   |
|           |            | 25      | 25        | 17.92   | 17.77   | 17.80   | 19.00   |
|           |            | 50      | 0         | 17.79   | 17.68   | 17.82   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 18.27   | 18.19   | 18.17   | 19.50   |
|           |            | 1       | 38        | 18.24   | 18.30   | 18.25   | 19.50   |
|           |            | 1       | 74        | 18.40   | 18.42   | 18.47   | 19.50   |
|           |            | 36      | 0         | 18.28   | 18.35   | 18.32   | 19.50   |
|           |            | 36      | 18        | 18.40   | 18.36   | 18.31   | 19.50   |
|           |            | 36      | 39        | 18.28   | 18.38   | 18.51   | 19.50   |
|           |            | 75      | 0         | 18.40   | 18.41   | 18.36   | 19.50   |
|           | 16QAM      | 1       | 0         | 18.21   | 18.19   | 18.05   | 19.50   |
|           |            | 1       | 38        | 18.22   | 18.26   | 18.29   | 19.50   |
|           |            | 1       | 74        | 18.30   | 18.39   | 18.19   | 19.50   |
|           |            | 36      | 0         | 18.27   | 18.09   | 18.13   | 19.50   |
|           |            | 36      | 18        | 18.18   | 18.24   | 18.28   | 19.50   |
|           |            | 36      | 39        | 18.09   | 18.23   | 18.38   | 19.50   |
|           |            | 75      | 0         | 18.19   | 18.24   | 18.31   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.21   | 18.25   | 18.10   | 19.50   |
|           |            | 1       | 38        | 18.27   | 17.96   | 18.20   | 19.50   |
|           |            | 1       | 74        | 18.14   | 18.27   | 18.49   | 19.50   |
|           |            | 36      | 0         | 18.14   | 18.15   | 18.18   | 19.50   |
|           |            | 36      | 18        | 18.23   | 18.27   | 18.24   | 19.50   |
|           |            | 36      | 39        | 18.22   | 18.24   | 18.30   | 19.50   |
|           |            | 75      | 0         | 18.21   | 18.21   | 18.13   | 19.50   |
|           | 256QAM     | 1       | 0         | 17.25   | 17.78   | 17.50   | 19.00   |
|           |            | 1       | 38        | 17.44   | 17.53   | 17.63   | 19.00   |
|           |            | 1       | 74        | 17.69   | 17.46   | 18.27   | 19.00   |
|           |            | 36      | 0         | 17.21   | 17.20   | 17.72   | 19.00   |
|           |            | 36      | 18        | 17.73   | 17.73   | 17.81   | 19.00   |
|           |            | 36      | 39        | 17.90   | 17.74   | 17.86   | 19.00   |
|           |            | 75      | 0         | 17.75   | 17.67   | 17.75   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 18.32   | 18.26   | 18.21   | 19.50   |
|           |            | 1       | 50        | 18.32   | 18.33   | 18.34   | 19.50   |



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|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 1   | 99 | 18.43 | 18.46 | 18.48 | 19.50 |
|  |        | 50  | 0  | 18.32 | 18.40 | 18.39 | 19.50 |
|  |        | 50  | 25 | 18.42 | 18.41 | 18.35 | 19.50 |
|  |        | 50  | 50 | 18.35 | 18.39 | 18.55 | 19.50 |
|  |        | 100 | 0  | 18.42 | 18.43 | 18.45 | 19.50 |
|  | 16QAM  | 1   | 0  | 18.27 | 18.26 | 18.08 | 19.50 |
|  |        | 1   | 50 | 18.29 | 18.32 | 18.35 | 19.50 |
|  |        | 1   | 99 | 18.31 | 18.44 | 18.26 | 19.50 |
|  |        | 50  | 0  | 18.31 | 18.17 | 18.15 | 19.50 |
|  |        | 50  | 25 | 18.19 | 18.25 | 18.35 | 19.50 |
|  |        | 50  | 50 | 18.18 | 18.28 | 18.40 | 19.50 |
|  |        | 100 | 0  | 18.20 | 18.29 | 18.32 | 19.50 |
|  | 64QAM  | 1   | 0  | 18.24 | 18.33 | 18.18 | 19.50 |
|  |        | 1   | 50 | 18.33 | 17.99 | 18.29 | 19.50 |
|  |        | 1   | 99 | 18.21 | 18.35 | 18.52 | 19.50 |
|  |        | 50  | 0  | 18.20 | 18.24 | 18.21 | 19.50 |
|  |        | 50  | 25 | 18.27 | 18.33 | 18.31 | 19.50 |
|  |        | 50  | 50 | 18.30 | 18.33 | 18.38 | 19.50 |
|  |        | 100 | 0  | 18.26 | 18.25 | 18.19 | 19.50 |
|  | 256QAM | 1   | 0  | 17.32 | 17.87 | 17.53 | 19.00 |
|  |        | 1   | 50 | 17.50 | 17.54 | 17.65 | 19.00 |
|  |        | 1   | 99 | 17.73 | 17.52 | 18.34 | 19.00 |
|  |        | 50  | 0  | 17.25 | 17.27 | 17.73 | 19.00 |
|  |        | 50  | 25 | 17.74 | 17.78 | 17.86 | 19.00 |
|  |        | 50  | 50 | 17.97 | 17.82 | 17.87 | 19.00 |
|  |        | 100 | 0  | 17.80 | 17.73 | 17.84 | 19.00 |



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| LTE Band 38 DS14 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz             | QPSK       | 1       | 0         | 23.72                | 23.69   | 23.63   | 25.00   |
|                  |            | 1       | 13        | 23.56                | 23.64   | 23.62   | 25.00   |
|                  |            | 1       | 24        | 23.57                | 23.57   | 23.63   | 25.00   |
|                  |            | 12      | 0         | 22.83                | 22.73   | 22.70   | 24.00   |
|                  |            | 12      | 6         | 22.75                | 22.76   | 22.83   | 24.00   |
|                  |            | 12      | 13        | 22.70                | 22.75   | 22.73   | 24.00   |
|                  |            | 25      | 0         | 22.68                | 22.65   | 22.77   | 24.00   |
|                  | 16QAM      | 1       | 0         | 22.62                | 22.52   | 22.55   | 24.00   |
|                  |            | 1       | 13        | 22.49                | 22.72   | 22.51   | 24.00   |
|                  |            | 1       | 24        | 22.43                | 22.58   | 22.70   | 24.00   |
|                  |            | 12      | 0         | 21.82                | 21.76   | 21.73   | 23.00   |
|                  |            | 12      | 6         | 21.73                | 21.68   | 21.76   | 23.00   |
|                  |            | 12      | 13        | 21.73                | 21.70   | 21.65   | 23.00   |
|                  |            | 25      | 0         | 21.69                | 21.70   | 21.71   | 23.00   |
|                  | 64QAM      | 1       | 0         | 21.62                | 21.57   | 21.63   | 23.00   |
|                  |            | 1       | 13        | 21.49                | 21.55   | 21.49   | 23.00   |
|                  |            | 1       | 24        | 21.57                | 21.70   | 21.53   | 23.00   |
|                  |            | 12      | 0         | 20.88                | 20.78   | 20.74   | 22.00   |
|                  |            | 12      | 6         | 20.77                | 20.75   | 20.75   | 22.00   |
|                  |            | 12      | 13        | 20.72                | 20.68   | 20.63   | 22.00   |
|                  |            | 25      | 0         | 20.75                | 20.74   | 20.77   | 22.00   |
|                  | 256QAM     | 1       | 0         | 18.99                | 18.78   | 18.48   | 20.00   |
|                  |            | 1       | 13        | 18.68                | 18.54   | 18.69   | 20.00   |
|                  |            | 1       | 24        | 18.64                | 18.80   | 18.58   | 20.00   |
|                  |            | 12      | 0         | 18.78                | 18.77   | 18.74   | 20.00   |
|                  |            | 12      | 6         | 18.76                | 18.67   | 18.73   | 20.00   |
|                  |            | 12      | 13        | 18.69                | 18.67   | 18.67   | 20.00   |
|                  |            | 25      | 0         | 18.71                | 18.65   | 18.72   | 20.00   |
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz            | QPSK       | 1       | 0         | 23.72                | 23.70   | 23.59   | 25.00   |
|                  |            | 1       | 25        | 23.62                | 23.64   | 23.58   | 25.00   |
|                  |            | 1       | 49        | 23.58                | 23.56   | 23.66   | 25.00   |
|                  |            | 25      | 0         | 22.82                | 22.79   | 22.71   | 24.00   |
|                  |            | 25      | 13        | 22.70                | 22.68   | 22.83   | 24.00   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 22.68   | 22.70   | 22.71   | 24.00   |
|           |            | 50      | 0         | 22.70   | 22.69   | 22.70   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.67   | 22.56   | 22.58   | 24.00   |
|           |            | 1       | 25        | 22.57   | 22.74   | 22.52   | 24.00   |
|           |            | 1       | 49        | 22.47   | 22.55   | 22.68   | 24.00   |
|           |            | 25      | 0         | 21.81   | 21.77   | 21.72   | 23.00   |
|           |            | 25      | 13        | 21.71   | 21.69   | 21.76   | 23.00   |
|           |            | 25      | 25        | 21.71   | 21.67   | 21.62   | 23.00   |
|           |            | 50      | 0         | 21.73   | 21.73   | 21.68   | 23.00   |
|           |            | 1       | 0         | 21.60   | 21.54   | 21.70   | 23.00   |
|           | 64QAM      | 1       | 25        | 21.41   | 21.54   | 21.53   | 23.00   |
|           |            | 1       | 49        | 21.54   | 21.74   | 21.52   | 23.00   |
|           |            | 25      | 0         | 20.83   | 20.79   | 20.76   | 22.00   |
|           |            | 25      | 13        | 20.82   | 20.74   | 20.80   | 22.00   |
|           |            | 25      | 25        | 20.68   | 20.69   | 20.69   | 22.00   |
|           |            | 50      | 0         | 20.76   | 20.73   | 20.73   | 22.00   |
|           |            | 1       | 0         | 18.97   | 18.80   | 18.56   | 20.00   |
|           | 256QAM     | 1       | 25        | 18.62   | 18.51   | 18.74   | 20.00   |
|           |            | 1       | 49        | 18.56   | 18.79   | 18.64   | 20.00   |
|           |            | 25      | 0         | 18.78   | 18.78   | 18.73   | 20.00   |
|           |            | 25      | 13        | 18.73   | 18.67   | 18.78   | 20.00   |
|           |            | 25      | 25        | 18.63   | 18.71   | 18.64   | 20.00   |
|           |            | 50      | 0         | 18.67   | 18.65   | 18.77   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.72   | 23.69   | 23.63   | 25.00   |
|           |            | 1       | 38        | 23.64   | 23.60   | 23.65   | 25.00   |
|           |            | 1       | 74        | 23.52   | 23.53   | 23.63   | 25.00   |
|           |            | 36      | 0         | 22.87   | 22.79   | 22.68   | 24.00   |
|           |            | 36      | 18        | 22.72   | 22.69   | 22.76   | 24.00   |
|           |            | 36      | 39        | 22.68   | 22.75   | 22.70   | 24.00   |
|           |            | 75      | 0         | 22.67   | 22.67   | 22.76   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.62   | 22.60   | 22.53   | 24.00   |
|           |            | 1       | 38        | 22.55   | 22.73   | 22.51   | 24.00   |
|           |            | 1       | 74        | 22.42   | 22.54   | 22.71   | 24.00   |
|           |            | 36      | 0         | 21.81   | 21.78   | 21.72   | 23.00   |
|           |            | 36      | 18        | 21.72   | 21.69   | 21.77   | 23.00   |
|           |            | 36      | 39        | 21.72   | 21.73   | 21.62   | 23.00   |
|           |            | 75      | 0         | 21.73   | 21.67   | 21.73   | 23.00   |



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|           | 64QAM      | 1       | 0         | 21.61   | 21.58   | 21.65   | 23.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 38        | 21.46   | 21.56   | 21.46   | 23.00   |
|           |            | 1       | 74        | 21.62   | 21.70   | 21.54   | 23.00   |
|           |            | 36      | 0         | 20.86   | 20.75   | 20.72   | 22.00   |
|           |            | 36      | 18        | 20.80   | 20.68   | 20.78   | 22.00   |
|           |            | 36      | 39        | 20.71   | 20.67   | 20.64   | 22.00   |
|           |            | 75      | 0         | 20.76   | 20.71   | 20.75   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.94   | 18.76   | 18.56   | 20.00   |
|           |            | 1       | 38        | 18.68   | 18.47   | 18.70   | 20.00   |
|           |            | 1       | 74        | 18.58   | 18.79   | 18.60   | 20.00   |
|           |            | 36      | 0         | 18.78   | 18.79   | 18.74   | 20.00   |
|           |            | 36      | 18        | 18.72   | 18.71   | 18.71   | 20.00   |
|           |            | 36      | 39        | 18.67   | 18.68   | 18.64   | 20.00   |
|           |            | 75      | 0         | 18.75   | 18.73   | 18.74   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37850   | 38000   | 38150   |         |
| 20MHz     | QPSK       | 1       | 0         | 23.67   | 23.62   | 23.56   | 25.00   |
|           |            | 1       | 50        | 23.55   | 23.55   | 23.56   | 25.00   |
|           |            | 1       | 99        | 23.51   | 23.52   | 23.58   | 25.00   |
|           |            | 50      | 0         | 22.81   | 22.72   | 22.67   | 24.00   |
|           |            | 50      | 25        | 22.68   | 22.67   | 22.74   | 24.00   |
|           |            | 50      | 50        | 22.65   | 22.67   | 22.64   | 24.00   |
|           |            | 100     | 0         | 22.66   | 22.63   | 22.69   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.61   | 22.51   | 22.49   | 24.00   |
|           |            | 1       | 50        | 22.48   | 22.68   | 22.46   | 24.00   |
|           |            | 1       | 99        | 22.41   | 22.51   | 22.67   | 24.00   |
|           |            | 50      | 0         | 21.75   | 21.72   | 21.68   | 23.00   |
|           |            | 50      | 25        | 21.70   | 21.66   | 21.69   | 23.00   |
|           |            | 50      | 50        | 21.66   | 21.64   | 21.60   | 23.00   |
|           |            | 100     | 0         | 21.65   | 21.66   | 21.65   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.58   | 21.51   | 21.61   | 23.00   |
|           |            | 1       | 50        | 21.40   | 21.53   | 21.44   | 23.00   |
|           |            | 1       | 99        | 21.53   | 21.67   | 21.50   | 23.00   |
|           |            | 50      | 0         | 20.79   | 20.71   | 20.69   | 22.00   |
|           |            | 50      | 25        | 20.75   | 20.67   | 20.74   | 22.00   |
|           |            | 50      | 50        | 20.66   | 20.62   | 20.61   | 22.00   |
|           |            | 100     | 0         | 20.74   | 20.66   | 20.69   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.90   | 18.71   | 18.47   | 20.00   |
|           |            | 1       | 50        | 18.60   | 18.46   | 18.65   | 20.00   |



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Shenzhen Branch (Technical Services Laboratory)

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|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 99 | 18.55 | 18.75 | 18.57 | 20.00 |
|  |  | 50  | 0  | 18.77 | 18.72 | 18.71 | 20.00 |
|  |  | 50  | 25 | 18.68 | 18.64 | 18.69 | 20.00 |
|  |  | 50  | 50 | 18.60 | 18.63 | 18.60 | 20.00 |
|  |  | 100 | 0  | 18.66 | 18.64 | 18.70 | 20.00 |



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| LTE Band 38 DS12/5 |            |         |           | Conducted Power(dBm) |         |         |         |
|--------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz               | QPSK       | 1       | 0         | 20.43                | 20.41   | 20.31   | 21.50   |
|                    |            | 1       | 13        | 20.41                | 20.36   | 20.38   | 21.50   |
|                    |            | 1       | 24        | 20.23                | 20.25   | 20.37   | 21.50   |
|                    |            | 12      | 0         | 20.54                | 20.49   | 20.45   | 21.50   |
|                    |            | 12      | 6         | 20.46                | 20.36   | 20.48   | 21.50   |
|                    |            | 12      | 13        | 20.38                | 20.38   | 20.36   | 21.50   |
|                    |            | 25      | 0         | 20.46                | 20.38   | 20.47   | 21.50   |
|                    | 16QAM      | 1       | 0         | 20.49                | 20.22   | 20.25   | 21.50   |
|                    |            | 1       | 13        | 20.47                | 20.36   | 20.24   | 21.50   |
|                    |            | 1       | 24        | 20.15                | 20.31   | 20.27   | 21.50   |
|                    |            | 12      | 0         | 20.52                | 20.45   | 20.42   | 21.50   |
|                    |            | 12      | 6         | 20.51                | 20.37   | 20.44   | 21.50   |
|                    |            | 12      | 13        | 20.46                | 20.34   | 20.34   | 21.50   |
|                    |            | 25      | 0         | 20.48                | 20.31   | 20.44   | 21.50   |
|                    | 64QAM      | 1       | 0         | 20.41                | 20.29   | 20.21   | 21.50   |
|                    |            | 1       | 13        | 20.30                | 20.11   | 20.19   | 21.50   |
|                    |            | 1       | 24        | 20.19                | 20.12   | 20.18   | 21.50   |
|                    |            | 12      | 0         | 20.33                | 20.32   | 20.24   | 21.50   |
|                    |            | 12      | 6         | 20.32                | 20.27   | 20.34   | 21.50   |
|                    |            | 12      | 13        | 20.28                | 20.24   | 20.17   | 21.50   |
|                    |            | 25      | 0         | 20.30                | 20.23   | 20.31   | 21.50   |
|                    | 256QAM     | 1       | 0         | 18.97                | 18.87   | 18.57   | 20.00   |
|                    |            | 1       | 13        | 18.70                | 18.41   | 18.72   | 20.00   |
|                    |            | 1       | 24        | 18.75                | 18.86   | 18.68   | 20.00   |
|                    |            | 12      | 0         | 18.89                | 18.78   | 18.75   | 20.00   |
|                    |            | 12      | 6         | 18.85                | 18.77   | 18.80   | 20.00   |
|                    |            | 12      | 13        | 18.84                | 18.81   | 18.68   | 20.00   |
|                    |            | 25      | 0         | 18.85                | 18.76   | 18.78   | 20.00   |
| Bandwidth          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz              | QPSK       | 1       | 0         | 20.47                | 20.40   | 20.27   | 21.50   |
|                    |            | 1       | 25        | 20.36                | 20.42   | 20.34   | 21.50   |
|                    |            | 1       | 49        | 20.25                | 20.30   | 20.41   | 21.50   |
|                    |            | 25      | 0         | 20.55                | 20.44   | 20.45   | 21.50   |
|                    |            | 25      | 13        | 20.48                | 20.41   | 20.49   | 21.50   |
|                    |            | 25      | 13        | 20.48                | 20.41   | 20.49   | 21.50   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 20.38   | 20.35   | 20.41   | 21.50   |
|           |            | 50      | 0         | 20.46   | 20.42   | 20.43   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.53   | 20.24   | 20.20   | 21.50   |
|           |            | 1       | 25        | 20.43   | 20.37   | 20.23   | 21.50   |
|           |            | 1       | 49        | 20.18   | 20.23   | 20.25   | 21.50   |
|           |            | 25      | 0         | 20.54   | 20.49   | 20.42   | 21.50   |
|           |            | 25      | 13        | 20.45   | 20.31   | 20.42   | 21.50   |
|           |            | 25      | 25        | 20.45   | 20.39   | 20.33   | 21.50   |
|           |            | 50      | 0         | 20.46   | 20.33   | 20.45   | 21.50   |
|           |            | 1       | 0         | 20.47   | 20.32   | 20.17   | 21.50   |
|           | 64QAM      | 1       | 25        | 20.27   | 20.13   | 20.18   | 21.50   |
|           |            | 1       | 49        | 20.16   | 20.14   | 20.20   | 21.50   |
|           |            | 25      | 0         | 20.31   | 20.38   | 20.28   | 21.50   |
|           |            | 25      | 13        | 20.34   | 20.26   | 20.30   | 21.50   |
|           |            | 25      | 25        | 20.29   | 20.26   | 20.17   | 21.50   |
|           |            | 50      | 0         | 20.32   | 20.23   | 20.28   | 21.50   |
|           |            | 1       | 0         | 18.94   | 18.84   | 18.57   | 20.00   |
|           | 256QAM     | 1       | 25        | 18.69   | 18.44   | 18.74   | 20.00   |
|           |            | 1       | 49        | 18.68   | 18.88   | 18.62   | 20.00   |
|           |            | 25      | 0         | 18.89   | 18.80   | 18.75   | 20.00   |
|           |            | 25      | 13        | 18.83   | 18.76   | 18.84   | 20.00   |
|           |            | 25      | 25        | 18.81   | 18.79   | 18.71   | 20.00   |
|           |            | 50      | 0         | 18.79   | 18.74   | 18.85   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 20.43   | 20.41   | 20.35   | 21.50   |
|           |            | 1       | 38        | 20.37   | 20.41   | 20.37   | 21.50   |
|           |            | 1       | 74        | 20.24   | 20.26   | 20.38   | 21.50   |
|           |            | 36      | 0         | 20.53   | 20.43   | 20.43   | 21.50   |
|           |            | 36      | 18        | 20.50   | 20.39   | 20.49   | 21.50   |
|           |            | 36      | 39        | 20.39   | 20.39   | 20.40   | 21.50   |
|           |            | 75      | 0         | 20.53   | 20.42   | 20.47   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.50   | 20.25   | 20.19   | 21.50   |
|           |            | 1       | 38        | 20.48   | 20.36   | 20.26   | 21.50   |
|           |            | 1       | 74        | 20.18   | 20.31   | 20.23   | 21.50   |
|           |            | 36      | 0         | 20.48   | 20.41   | 20.42   | 21.50   |
|           |            | 36      | 18        | 20.45   | 20.37   | 20.44   | 21.50   |
|           |            | 36      | 39        | 20.39   | 20.37   | 20.34   | 21.50   |
|           |            | 75      | 0         | 20.52   | 20.36   | 20.44   | 21.50   |



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|           | 64QAM      | 1       | 0         | 20.42   | 20.24   | 20.19   | 21.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 38        | 20.28   | 20.12   | 20.16   | 21.50   |
|           |            | 1       | 74        | 20.19   | 20.11   | 20.16   | 21.50   |
|           |            | 36      | 0         | 20.28   | 20.38   | 20.25   | 21.50   |
|           |            | 36      | 18        | 20.36   | 20.26   | 20.27   | 21.50   |
|           |            | 36      | 39        | 20.32   | 20.27   | 20.23   | 21.50   |
|           |            | 75      | 0         | 20.37   | 20.22   | 20.31   | 21.50   |
|           | 256QAM     | 1       | 0         | 18.96   | 18.82   | 18.56   | 20.00   |
|           |            | 1       | 38        | 18.75   | 18.42   | 18.69   | 20.00   |
|           |            | 1       | 74        | 18.72   | 18.88   | 18.67   | 20.00   |
|           |            | 36      | 0         | 18.89   | 18.86   | 18.80   | 20.00   |
|           |            | 36      | 18        | 18.84   | 18.77   | 18.80   | 20.00   |
|           |            | 36      | 39        | 18.81   | 18.81   | 18.73   | 20.00   |
|           |            | 75      | 0         | 18.82   | 18.77   | 18.82   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37850   | 38000   | 38150   |         |
| 20MHz     | QPSK       | 1       | 0         | 20.39   | 20.35   | 20.26   | 21.50   |
|           |            | 1       | 50        | 20.33   | 20.34   | 20.32   | 21.50   |
|           |            | 1       | 99        | 20.19   | 20.22   | 20.33   | 21.50   |
|           |            | 50      | 0         | 20.50   | 20.42   | 20.38   | 21.50   |
|           |            | 50      | 25        | 20.44   | 20.32   | 20.40   | 21.50   |
|           |            | 50      | 50        | 20.36   | 20.32   | 20.33   | 21.50   |
|           |            | 100     | 0         | 20.45   | 20.36   | 20.38   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.44   | 20.18   | 20.16   | 21.50   |
|           |            | 1       | 50        | 20.41   | 20.35   | 20.20   | 21.50   |
|           |            | 1       | 99        | 20.14   | 20.22   | 20.18   | 21.50   |
|           |            | 50      | 0         | 20.45   | 20.40   | 20.36   | 21.50   |
|           |            | 50      | 25        | 20.44   | 20.30   | 20.39   | 21.50   |
|           |            | 50      | 50        | 20.37   | 20.30   | 20.30   | 21.50   |
|           |            | 100     | 0         | 20.43   | 20.30   | 20.36   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.40   | 20.23   | 20.13   | 21.50   |
|           |            | 1       | 50        | 20.26   | 20.10   | 20.12   | 21.50   |
|           |            | 1       | 99        | 20.10   | 20.06   | 20.15   | 21.50   |
|           |            | 50      | 0         | 20.27   | 20.30   | 20.20   | 21.50   |
|           |            | 50      | 25        | 20.28   | 20.24   | 20.26   | 21.50   |
|           |            | 50      | 50        | 20.25   | 20.22   | 20.14   | 21.50   |
|           |            | 100     | 0         | 20.29   | 20.20   | 20.27   | 21.50   |
|           | 256QAM     | 1       | 0         | 18.93   | 18.80   | 18.50   | 20.00   |
|           |            | 1       | 50        | 18.68   | 18.40   | 18.65   | 20.00   |



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|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 99 | 18.67 | 18.81 | 18.60 | 20.00 |
|  |  | 50  | 0  | 18.86 | 18.77 | 18.73 | 20.00 |
|  |  | 50  | 25 | 18.76 | 18.74 | 18.77 | 20.00 |
|  |  | 50  | 50 | 18.79 | 18.74 | 18.67 | 20.00 |
|  |  | 100 | 0  | 18.78 | 18.73 | 18.77 | 20.00 |



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| LTE Band 38 DS13 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz             | QPSK       | 1       | 0         | 19.85                | 19.87   | 19.79   | 21.00   |
|                  |            | 1       | 13        | 19.85                | 19.85   | 19.85   | 21.00   |
|                  |            | 1       | 24        | 19.72                | 19.82   | 19.79   | 21.00   |
|                  |            | 12      | 0         | 19.97                | 19.86   | 19.95   | 21.00   |
|                  |            | 12      | 6         | 19.99                | 19.79   | 19.94   | 21.00   |
|                  |            | 12      | 13        | 19.83                | 19.88   | 19.88   | 21.00   |
|                  |            | 25      | 0         | 19.92                | 19.77   | 19.93   | 21.00   |
|                  | 16QAM      | 1       | 0         | 19.98                | 19.87   | 19.67   | 21.00   |
|                  |            | 1       | 13        | 19.85                | 19.71   | 19.90   | 21.00   |
|                  |            | 1       | 24        | 19.65                | 19.75   | 19.80   | 21.00   |
|                  |            | 12      | 0         | 19.93                | 19.91   | 19.85   | 21.00   |
|                  |            | 12      | 6         | 19.95                | 19.83   | 19.90   | 21.00   |
|                  |            | 12      | 13        | 19.85                | 19.82   | 19.84   | 21.00   |
|                  |            | 25      | 0         | 19.98                | 19.86   | 19.85   | 21.00   |
|                  | 64QAM      | 1       | 0         | 19.69                | 19.72   | 19.54   | 21.00   |
|                  |            | 1       | 13        | 19.82                | 19.71   | 19.62   | 21.00   |
|                  |            | 1       | 24        | 19.66                | 19.68   | 19.47   | 21.00   |
|                  |            | 12      | 0         | 19.92                | 19.78   | 19.81   | 21.00   |
|                  |            | 12      | 6         | 19.76                | 19.78   | 19.76   | 21.00   |
|                  |            | 12      | 13        | 19.72                | 19.70   | 19.69   | 21.00   |
|                  |            | 25      | 0         | 19.75                | 19.74   | 19.78   | 21.00   |
|                  | 256QAM     | 1       | 0         | 18.90                | 18.94   | 18.61   | 20.00   |
|                  |            | 1       | 13        | 18.65                | 18.72   | 18.69   | 20.00   |
|                  |            | 1       | 24        | 18.56                | 18.50   | 18.61   | 20.00   |
|                  |            | 12      | 0         | 18.86                | 18.78   | 18.76   | 20.00   |
|                  |            | 12      | 6         | 18.77                | 18.79   | 18.72   | 20.00   |
|                  |            | 12      | 13        | 18.75                | 18.70   | 18.73   | 20.00   |
|                  |            | 25      | 0         | 18.77                | 18.70   | 18.81   | 20.00   |
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz            | QPSK       | 1       | 0         | 19.87                | 19.84   | 19.77   | 21.00   |
|                  |            | 1       | 25        | 19.84                | 19.80   | 19.82   | 21.00   |
|                  |            | 1       | 49        | 19.75                | 19.76   | 19.81   | 21.00   |
|                  |            | 25      | 0         | 19.97                | 19.92   | 19.90   | 21.00   |
|                  |            | 25      | 13        | 19.97                | 19.82   | 19.88   | 21.00   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 19.81   | 19.81   | 19.86   | 21.00   |
|           |            | 50      | 0         | 19.93   | 19.81   | 19.97   | 21.00   |
|           | 16QAM      | 1       | 0         | 19.96   | 19.86   | 19.64   | 21.00   |
|           |            | 1       | 25        | 19.79   | 19.74   | 19.84   | 21.00   |
|           |            | 1       | 49        | 19.71   | 19.67   | 19.80   | 21.00   |
|           |            | 25      | 0         | 19.91   | 19.85   | 19.89   | 21.00   |
|           |            | 25      | 13        | 19.97   | 19.87   | 19.91   | 21.00   |
|           |            | 25      | 25        | 19.90   | 19.84   | 19.89   | 21.00   |
|           |            | 50      | 0         | 19.93   | 19.85   | 19.90   | 21.00   |
|           |            | 1       | 0         | 19.66   | 19.70   | 19.47   | 21.00   |
|           | 64QAM      | 1       | 25        | 19.84   | 19.71   | 19.64   | 21.00   |
|           |            | 1       | 49        | 19.66   | 19.68   | 19.54   | 21.00   |
|           |            | 25      | 0         | 19.87   | 19.76   | 19.76   | 21.00   |
|           |            | 25      | 13        | 19.79   | 19.76   | 19.78   | 21.00   |
|           |            | 25      | 25        | 19.73   | 19.74   | 19.69   | 21.00   |
|           |            | 50      | 0         | 19.74   | 19.70   | 19.79   | 21.00   |
|           |            | 1       | 0         | 18.87   | 18.89   | 18.61   | 20.00   |
|           | 256QAM     | 1       | 25        | 18.62   | 18.76   | 18.76   | 20.00   |
|           |            | 1       | 49        | 18.60   | 18.53   | 18.68   | 20.00   |
|           |            | 25      | 0         | 18.89   | 18.86   | 18.72   | 20.00   |
|           |            | 25      | 13        | 18.75   | 18.72   | 18.71   | 20.00   |
|           |            | 25      | 25        | 18.80   | 18.67   | 18.72   | 20.00   |
|           |            | 50      | 0         | 18.72   | 18.77   | 18.75   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 19.84   | 19.86   | 19.82   | 21.00   |
|           |            | 1       | 38        | 19.81   | 19.80   | 19.82   | 21.00   |
|           |            | 1       | 74        | 19.76   | 19.76   | 19.81   | 21.00   |
|           |            | 36      | 0         | 20.00   | 19.89   | 19.95   | 21.00   |
|           |            | 36      | 18        | 20.03   | 19.83   | 19.89   | 21.00   |
|           |            | 36      | 39        | 19.82   | 19.82   | 19.89   | 21.00   |
|           |            | 75      | 0         | 19.98   | 19.84   | 19.92   | 21.00   |
|           | 16QAM      | 1       | 0         | 20.02   | 19.81   | 19.72   | 21.00   |
|           |            | 1       | 38        | 19.83   | 19.73   | 19.82   | 21.00   |
|           |            | 1       | 74        | 19.64   | 19.68   | 19.74   | 21.00   |
|           |            | 36      | 0         | 19.92   | 19.85   | 19.86   | 21.00   |
|           |            | 36      | 18        | 19.91   | 19.88   | 19.96   | 21.00   |
|           |            | 36      | 39        | 19.86   | 19.81   | 19.88   | 21.00   |
|           |            | 75      | 0         | 19.98   | 19.81   | 19.91   | 21.00   |



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|           | 64QAM      | 1       | 0         | 19.68   | 19.70   | 19.54   | 21.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 38        | 19.80   | 19.67   | 19.60   | 21.00   |
|           |            | 1       | 74        | 19.58   | 19.68   | 19.52   | 21.00   |
|           |            | 36      | 0         | 19.84   | 19.79   | 19.76   | 21.00   |
|           |            | 36      | 18        | 19.74   | 19.80   | 19.75   | 21.00   |
|           |            | 36      | 39        | 19.69   | 19.67   | 19.68   | 21.00   |
|           |            | 75      | 0         | 19.79   | 19.72   | 19.79   | 21.00   |
|           | 256QAM     | 1       | 0         | 18.84   | 18.95   | 18.58   | 20.00   |
|           |            | 1       | 38        | 18.63   | 18.79   | 18.73   | 20.00   |
|           |            | 1       | 74        | 18.57   | 18.56   | 18.60   | 20.00   |
|           |            | 36      | 0         | 18.94   | 18.81   | 18.72   | 20.00   |
|           |            | 36      | 18        | 18.77   | 18.75   | 18.74   | 20.00   |
|           |            | 36      | 39        | 18.75   | 18.71   | 18.75   | 20.00   |
|           |            | 75      | 0         | 18.79   | 18.74   | 18.80   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37850   | 38000   | 38150   |         |
| 20MHz     | QPSK       | 1       | 0         | 19.80   | 19.79   | 19.74   | 21.00   |
|           |            | 1       | 50        | 19.79   | 19.79   | 19.80   | 21.00   |
|           |            | 1       | 99        | 19.69   | 19.74   | 19.78   | 21.00   |
|           |            | 50      | 0         | 19.94   | 19.85   | 19.86   | 21.00   |
|           |            | 50      | 25        | 19.94   | 19.77   | 19.85   | 21.00   |
|           |            | 50      | 50        | 19.80   | 19.80   | 19.83   | 21.00   |
|           |            | 100     | 0         | 19.91   | 19.76   | 19.88   | 21.00   |
|           | 16QAM      | 1       | 0         | 19.94   | 19.80   | 19.63   | 21.00   |
|           |            | 1       | 50        | 19.77   | 19.67   | 19.81   | 21.00   |
|           |            | 1       | 99        | 19.63   | 19.66   | 19.72   | 21.00   |
|           |            | 50      | 0         | 19.90   | 19.82   | 19.82   | 21.00   |
|           |            | 50      | 25        | 19.90   | 19.82   | 19.87   | 21.00   |
|           |            | 50      | 50        | 19.81   | 19.80   | 19.82   | 21.00   |
|           |            | 100     | 0         | 19.92   | 19.78   | 19.83   | 21.00   |
|           | 64QAM      | 1       | 0         | 19.63   | 19.65   | 19.45   | 21.00   |
|           |            | 1       | 50        | 19.75   | 19.63   | 19.55   | 21.00   |
|           |            | 1       | 99        | 19.57   | 19.61   | 19.45   | 21.00   |
|           |            | 50      | 0         | 19.83   | 19.74   | 19.72   | 21.00   |
|           |            | 50      | 25        | 19.72   | 19.72   | 19.74   | 21.00   |
|           |            | 50      | 50        | 19.68   | 19.65   | 19.67   | 21.00   |
|           |            | 100     | 0         | 19.72   | 19.68   | 19.73   | 21.00   |
|           | 256QAM     | 1       | 0         | 18.83   | 18.86   | 18.56   | 20.00   |
|           |            | 1       | 50        | 18.58   | 18.71   | 18.67   | 20.00   |



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|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 99 | 18.54 | 18.47 | 18.59 | 20.00 |
|  |  | 50  | 0  | 18.85 | 18.77 | 18.70 | 20.00 |
|  |  | 50  | 25 | 18.72 | 18.70 | 18.70 | 20.00 |
|  |  | 50  | 50 | 18.71 | 18.66 | 18.68 | 20.00 |
|  |  | 100 | 0  | 18.71 | 18.69 | 18.73 | 20.00 |



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| LTE Band 38 DS18/9/10 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz                  | QPSK       | 1       | 0         | 19.43                | 19.18   | 19.17   | 20.50   |
|                       |            | 1       | 13        | 19.38                | 19.20   | 19.23   | 20.50   |
|                       |            | 1       | 24        | 19.25                | 19.15   | 19.16   | 20.50   |
|                       |            | 12      | 0         | 19.41                | 19.30   | 19.27   | 20.50   |
|                       |            | 12      | 6         | 19.37                | 19.25   | 19.25   | 20.50   |
|                       |            | 12      | 13        | 19.27                | 19.23   | 19.31   | 20.50   |
|                       |            | 25      | 0         | 19.37                | 19.29   | 19.31   | 20.50   |
|                       | 16QAM      | 1       | 0         | 19.41                | 19.34   | 19.24   | 20.50   |
|                       |            | 1       | 13        | 19.37                | 19.14   | 19.10   | 20.50   |
|                       |            | 1       | 24        | 19.25                | 19.08   | 19.22   | 20.50   |
|                       |            | 12      | 0         | 19.42                | 19.37   | 19.28   | 20.50   |
|                       |            | 12      | 6         | 19.45                | 19.27   | 19.31   | 20.50   |
|                       |            | 12      | 13        | 19.33                | 19.25   | 19.26   | 20.50   |
|                       |            | 25      | 0         | 19.40                | 19.28   | 19.26   | 20.50   |
|                       | 64QAM      | 1       | 0         | 19.20                | 19.25   | 19.01   | 20.50   |
|                       |            | 1       | 13        | 19.23                | 19.50   | 19.20   | 20.50   |
|                       |            | 1       | 24        | 19.14                | 19.15   | 19.09   | 20.50   |
|                       |            | 12      | 0         | 19.45                | 19.28   | 19.22   | 20.50   |
|                       |            | 12      | 6         | 19.38                | 19.31   | 19.34   | 20.50   |
|                       |            | 12      | 13        | 19.27                | 19.20   | 19.24   | 20.50   |
|                       |            | 25      | 0         | 19.36                | 19.23   | 19.29   | 20.50   |
|                       | 256QAM     | 1       | 0         | 18.86                | 18.55   | 18.45   | 20.00   |
|                       |            | 1       | 13        | 18.60                | 18.70   | 18.60   | 20.00   |
|                       |            | 1       | 24        | 18.50                | 18.53   | 18.62   | 20.00   |
|                       |            | 12      | 0         | 18.82                | 18.73   | 18.64   | 20.00   |
|                       |            | 12      | 6         | 18.77                | 18.69   | 18.69   | 20.00   |
|                       |            | 12      | 13        | 18.62                | 18.64   | 18.62   | 20.00   |
|                       |            | 25      | 0         | 18.76                | 18.63   | 18.72   | 20.00   |
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz                 | QPSK       | 1       | 0         | 19.43                | 19.23   | 19.21   | 20.50   |
|                       |            | 1       | 25        | 19.36                | 19.26   | 19.23   | 20.50   |
|                       |            | 1       | 49        | 19.19                | 19.16   | 19.16   | 20.50   |
|                       |            | 25      | 0         | 19.40                | 19.32   | 19.33   | 20.50   |
|                       |            | 25      | 13        | 19.38                | 19.28   | 19.26   | 20.50   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 19.31   | 19.29   | 19.25   | 20.50   |
|           |            | 50      | 0         | 19.36   | 19.22   | 19.33   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.40   | 19.28   | 19.18   | 20.50   |
|           |            | 1       | 25        | 19.36   | 19.11   | 19.07   | 20.50   |
|           |            | 1       | 49        | 19.24   | 19.07   | 19.19   | 20.50   |
|           |            | 25      | 0         | 19.42   | 19.37   | 19.28   | 20.50   |
|           |            | 25      | 13        | 19.39   | 19.31   | 19.32   | 20.50   |
|           |            | 25      | 25        | 19.26   | 19.21   | 19.22   | 20.50   |
|           |            | 50      | 0         | 19.38   | 19.25   | 19.26   | 20.50   |
|           |            | 1       | 0         | 19.21   | 19.25   | 18.98   | 20.50   |
|           | 64QAM      | 1       | 25        | 19.20   | 19.51   | 19.20   | 20.50   |
|           |            | 1       | 49        | 19.08   | 19.14   | 19.07   | 20.50   |
|           |            | 25      | 0         | 19.46   | 19.30   | 19.23   | 20.50   |
|           |            | 25      | 13        | 19.43   | 19.27   | 19.34   | 20.50   |
|           |            | 25      | 25        | 19.35   | 19.16   | 19.23   | 20.50   |
|           |            | 50      | 0         | 19.39   | 19.25   | 19.36   | 20.50   |
|           |            | 1       | 0         | 18.78   | 18.56   | 18.45   | 20.00   |
|           | 256QAM     | 1       | 25        | 18.61   | 18.65   | 18.55   | 20.00   |
|           |            | 1       | 49        | 18.44   | 18.49   | 18.57   | 20.00   |
|           |            | 25      | 0         | 18.82   | 18.74   | 18.65   | 20.00   |
|           |            | 25      | 13        | 18.79   | 18.71   | 18.67   | 20.00   |
|           |            | 25      | 25        | 18.69   | 18.67   | 18.67   | 20.00   |
|           |            | 50      | 0         | 18.69   | 18.61   | 18.74   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 19.41   | 19.21   | 19.23   | 20.50   |
|           |            | 1       | 38        | 19.32   | 19.23   | 19.26   | 20.50   |
|           |            | 1       | 74        | 19.19   | 19.11   | 19.16   | 20.50   |
|           |            | 36      | 0         | 19.37   | 19.27   | 19.32   | 20.50   |
|           |            | 36      | 18        | 19.40   | 19.30   | 19.30   | 20.50   |
|           |            | 36      | 39        | 19.28   | 19.26   | 19.26   | 20.50   |
|           |            | 75      | 0         | 19.41   | 19.28   | 19.31   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.45   | 19.29   | 19.16   | 20.50   |
|           |            | 1       | 38        | 19.41   | 19.16   | 19.08   | 20.50   |
|           |            | 1       | 74        | 19.18   | 19.07   | 19.25   | 20.50   |
|           |            | 36      | 0         | 19.46   | 19.34   | 19.25   | 20.50   |
|           |            | 36      | 18        | 19.42   | 19.32   | 19.28   | 20.50   |
|           |            | 36      | 39        | 19.32   | 19.21   | 19.30   | 20.50   |
|           |            | 75      | 0         | 19.35   | 19.24   | 19.26   | 20.50   |



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|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 64QAM      | 1       | 0         | 19.18   | 19.21   | 19.02   | 20.50   |
|           |            | 1       | 38        | 19.21   | 19.54   | 19.24   | 20.50   |
|           |            | 1       | 74        | 19.07   | 19.13   | 19.13   | 20.50   |
|           |            | 36      | 0         | 19.42   | 19.32   | 19.26   | 20.50   |
|           |            | 36      | 18        | 19.40   | 19.27   | 19.28   | 20.50   |
|           |            | 36      | 39        | 19.28   | 19.21   | 19.21   | 20.50   |
|           |            | 75      | 0         | 19.43   | 19.25   | 19.35   | 20.50   |
|           | 256QAM     | 1       | 0         | 18.79   | 18.57   | 18.50   | 20.00   |
|           |            | 1       | 38        | 18.67   | 18.72   | 18.52   | 20.00   |
|           |            | 1       | 74        | 18.50   | 18.45   | 18.65   | 20.00   |
|           |            | 36      | 0         | 18.76   | 18.72   | 18.63   | 20.00   |
|           |            | 36      | 18        | 18.73   | 18.70   | 18.67   | 20.00   |
|           |            | 36      | 39        | 18.65   | 18.65   | 18.68   | 20.00   |
|           |            | 75      | 0         | 18.69   | 18.65   | 18.68   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37850   | 38000   | 38150   |         |
| 20MHz     | QPSK       | 1       | 0         | 19.36   | 19.16   | 19.15   | 20.50   |
|           |            | 1       | 50        | 19.30   | 19.18   | 19.17   | 20.50   |
|           |            | 1       | 99        | 19.17   | 19.10   | 19.13   | 20.50   |
|           |            | 50      | 0         | 19.36   | 19.26   | 19.24   | 20.50   |
|           |            | 50      | 25        | 19.35   | 19.24   | 19.24   | 20.50   |
|           |            | 50      | 50        | 19.24   | 19.21   | 19.23   | 20.50   |
|           |            | 100     | 0         | 19.34   | 19.20   | 19.29   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.39   | 19.26   | 19.15   | 20.50   |
|           |            | 1       | 50        | 19.32   | 19.08   | 19.06   | 20.50   |
|           |            | 1       | 99        | 19.16   | 19.01   | 19.18   | 20.50   |
|           |            | 50      | 0         | 19.38   | 19.28   | 19.20   | 20.50   |
|           |            | 50      | 25        | 19.38   | 19.26   | 19.26   | 20.50   |
|           |            | 50      | 50        | 19.24   | 19.16   | 19.21   | 20.50   |
|           |            | 100     | 0         | 19.34   | 19.19   | 19.25   | 20.50   |
|           | 64QAM      | 1       | 0         | 19.16   | 19.16   | 18.95   | 20.50   |
|           |            | 1       | 50        | 19.16   | 19.49   | 19.18   | 20.50   |
|           |            | 1       | 99        | 19.06   | 19.12   | 19.05   | 20.50   |
|           |            | 50      | 0         | 19.37   | 19.26   | 19.21   | 20.50   |
|           |            | 50      | 25        | 19.36   | 19.24   | 19.25   | 20.50   |
|           |            | 50      | 50        | 19.26   | 19.12   | 19.19   | 20.50   |
|           |            | 100     | 0         | 19.34   | 19.21   | 19.27   | 20.50   |
|           | 256QAM     | 1       | 0         | 18.77   | 18.51   | 18.41   | 20.00   |
|           |            | 1       | 50        | 18.59   | 18.63   | 18.51   | 20.00   |



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

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|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 99 | 18.43 | 18.44 | 18.56 | 20.00 |
|  |  | 50  | 0  | 18.75 | 18.67 | 18.58 | 20.00 |
|  |  | 50  | 25 | 18.70 | 18.63 | 18.65 | 20.00 |
|  |  | 50  | 50 | 18.60 | 18.58 | 18.60 | 20.00 |
|  |  | 100 | 0  | 18.67 | 18.60 | 18.66 | 20.00 |



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| LTE Band 41 2496 - 2690 DS14 |            |         |           | Conducted Power(dBm) |         |         |         |         |         |
|------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|---------|---------|
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|                              |            |         |           | 39675                | 40148   | 40620   | 41093   | 41565   |         |
| 5MHz                         | QPSK       | 1       | 0         | 24.24                | 24.12   | 23.85   | 24.07   | 23.86   | 25.00   |
|                              |            | 1       | 13        | 24.33                | 23.99   | 23.65   | 23.99   | 23.64   | 25.00   |
|                              |            | 1       | 24        | 24.32                | 24.01   | 23.63   | 23.99   | 23.58   | 25.00   |
|                              |            | 12      | 0         | 23.47                | 23.13   | 22.82   | 23.09   | 22.83   | 24.00   |
|                              |            | 12      | 6         | 23.48                | 23.04   | 22.86   | 23.04   | 22.8    | 24.00   |
|                              |            | 12      | 13        | 23.44                | 23.1    | 22.72   | 23.11   | 22.6    | 24.00   |
|                              |            | 25      | 0         | 23.37                | 23.01   | 22.81   | 22.88   | 22.78   | 24.00   |
|                              | 16QAM      | 1       | 0         | 23.22                | 22.99   | 22.66   | 22.93   | 22.68   | 24.00   |
|                              |            | 1       | 13        | 23.44                | 22.8    | 22.54   | 22.8    | 22.6    | 24.00   |
|                              |            | 1       | 24        | 23.44                | 22.95   | 22.53   | 22.93   | 22.51   | 24.00   |
|                              |            | 12      | 0         | 22.46                | 22.19   | 21.83   | 22.16   | 21.74   | 23.00   |
|                              |            | 12      | 6         | 22.33                | 22.02   | 21.76   | 21.95   | 21.81   | 23.00   |
|                              |            | 12      | 13        | 22.42                | 22.06   | 21.69   | 21.97   | 21.6    | 23.00   |
|                              |            | 25      | 0         | 22.37                | 22.09   | 21.75   | 22.05   | 21.72   | 23.00   |
|                              | 64QAM      | 1       | 0         | 23.00                | 22.05   | 21.76   | 21.98   | 21.76   | 23.00   |
|                              |            | 1       | 13        | 22.03                | 22.09   | 21.64   | 21.98   | 21.64   | 23.00   |
|                              |            | 1       | 24        | 22.04                | 22.12   | 21.70   | 22.06   | 21.55   | 23.00   |
|                              |            | 12      | 0         | 20.63                | 21.03   | 20.82   | 20.96   | 20.80   | 22.00   |
|                              |            | 12      | 6         | 20.58                | 21.14   | 20.82   | 21.03   | 20.81   | 22.00   |
|                              |            | 12      | 13        | 20.84                | 21.09   | 20.64   | 20.97   | 20.59   | 22.00   |
|                              |            | 25      | 0         | 20.77                | 21.06   | 20.78   | 21.00   | 20.70   | 22.00   |
|                              | 256QAM     | 1       | 0         | 19.37                | 19.16   | 18.80   | 19.05   | 18.71   | 20.00   |
|                              |            | 1       | 13        | 19.11                | 19.12   | 18.73   | 19.06   | 18.80   | 20.00   |
|                              |            | 1       | 24        | 19.64                | 18.95   | 18.60   | 18.93   | 18.51   | 20.00   |
|                              |            | 12      | 0         | 19.47                | 19.15   | 18.87   | 19.14   | 18.87   | 20.00   |
|                              |            | 12      | 6         | 19.37                | 19.04   | 18.83   | 19.01   | 18.73   | 20.00   |
|                              |            | 12      | 13        | 19.38                | 19.12   | 18.73   | 18.98   | 18.69   | 20.00   |
|                              |            | 25      | 0         | 19.47                | 19.17   | 18.81   | 19.00   | 18.78   | 20.00   |
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|                              |            |         |           | 39700                | 40160   | 40620   | 41080   | 41540   |         |
| 10MHz                        | QPSK       | 1       | 0         | 24.28                | 24.14   | 23.91   | 24.07   | 23.88   | 25.00   |
|                              |            | 1       | 25        | 24.37                | 23.98   | 23.64   | 23.93   | 23.61   | 25.00   |
|                              |            | 1       | 49        | 24.34                | 24.06   | 23.63   | 24.03   | 23.53   | 25.00   |
|                              |            | 25      | 0         | 23.49                | 23.14   | 22.85   | 23.08   | 22.79   | 24.00   |
|                              |            | 25      | 13        | 23.43                | 23.04   | 22.87   | 23.09   | 22.81   | 24.00   |



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|           |            |         |           |         |         |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           |            | 25      | 25        | 23.43   | 23.09   | 22.67   | 23.13   | 22.61   | 24.00   |
|           |            | 50      | 0         | 23.38   | 23      | 22.85   | 22.94   | 22.8    | 24.00   |
|           | 16QAM      | 1       | 0         | 23.14   | 23.01   | 22.65   | 22.86   | 22.72   | 24.00   |
|           |            | 1       | 25        | 23.47   | 22.87   | 22.54   | 22.83   | 22.54   | 24.00   |
|           |            | 1       | 49        | 23.5    | 22.94   | 22.51   | 22.88   | 22.46   | 24.00   |
|           |            | 25      | 0         | 22.51   | 22.2    | 21.84   | 22.17   | 21.81   | 23.00   |
|           |            | 25      | 13        | 22.38   | 22.06   | 21.84   | 22      | 21.76   | 23.00   |
|           |            | 25      | 25        | 22.44   | 22.07   | 21.72   | 21.97   | 21.6    | 23.00   |
|           |            | 50      | 0         | 22.35   | 22.14   | 21.71   | 22.05   | 21.71   | 23.00   |
|           | 64QAM      | 1       | 0         | 22.97   | 22.05   | 21.73   | 22.00   | 21.69   | 23.00   |
|           |            | 1       | 25        | 22.08   | 22.09   | 21.67   | 22.03   | 21.63   | 23.00   |
|           |            | 1       | 49        | 22.12   | 22.07   | 21.65   | 22.01   | 21.57   | 23.00   |
|           |            | 25      | 0         | 20.62   | 21.05   | 20.87   | 20.94   | 20.72   | 22.00   |
|           |            | 25      | 13        | 20.62   | 21.10   | 20.80   | 21.04   | 20.73   | 22.00   |
|           |            | 25      | 25        | 20.82   | 21.04   | 20.70   | 20.99   | 20.66   | 22.00   |
|           |            | 50      | 0         | 20.79   | 21.07   | 20.82   | 20.98   | 20.70   | 22.00   |
|           | 256QAM     | 1       | 0         | 19.39   | 19.10   | 18.83   | 19.11   | 18.72   | 20.00   |
|           |            | 1       | 25        | 19.11   | 19.17   | 18.80   | 19.03   | 18.74   | 20.00   |
|           |            | 1       | 49        | 19.62   | 18.96   | 18.57   | 18.92   | 18.49   | 20.00   |
|           |            | 25      | 0         | 19.41   | 19.16   | 18.83   | 19.17   | 18.83   | 20.00   |
|           |            | 25      | 13        | 19.42   | 19.07   | 18.78   | 19.00   | 18.75   | 20.00   |
|           |            | 25      | 25        | 19.35   | 19.08   | 18.68   | 19.03   | 18.67   | 20.00   |
|           |            | 50      | 0         | 19.43   | 19.10   | 18.81   | 19.08   | 18.81   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
| 15MHz     | QPSK       | 1       | 0         | 24.24   | 24.11   | 23.86   | 24.09   | 23.82   | 25.00   |
|           |            | 1       | 38        | 24.32   | 23.94   | 23.65   | 23.94   | 23.65   | 25.00   |
|           |            | 1       | 74        | 24.4    | 24.05   | 23.6    | 24      | 23.57   | 25.00   |
|           |            | 36      | 0         | 23.43   | 23.13   | 22.86   | 23.07   | 22.83   | 24.00   |
|           |            | 36      | 18        | 23.41   | 23.04   | 22.83   | 23.07   | 22.79   | 24.00   |
|           |            | 36      | 39        | 23.39   | 23.12   | 22.67   | 23.09   | 22.6    | 24.00   |
|           |            | 75      | 0         | 23.39   | 23      | 22.84   | 22.91   | 22.77   | 24.00   |
|           | 16QAM      | 1       | 0         | 23.15   | 22.96   | 22.7    | 22.91   | 22.66   | 24.00   |
|           |            | 1       | 38        | 23.46   | 22.82   | 22.55   | 22.84   | 22.55   | 24.00   |
|           |            | 1       | 74        | 23.46   | 22.99   | 22.5    | 22.93   | 22.46   | 24.00   |
|           |            | 36      | 0         | 22.46   | 22.17   | 21.83   | 22.14   | 21.79   | 23.00   |
|           |            | 36      | 18        | 22.33   | 22.03   | 21.8    | 21.92   | 21.79   | 23.00   |
|           |            | 36      | 39        | 22.42   | 22.03   | 21.67   | 22      | 21.65   | 23.00   |
|           |            | 75      | 0         | 22.36   | 22.11   | 21.72   | 22.04   | 21.74   | 23.00   |



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|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           | 64QAM      | 1       | 0         | 22.04   | 22.04   | 21.73   | 21.99   | 21.74   | 23.00   |
|           |            | 1       | 38        | 22.10   | 22.03   | 21.68   | 22.02   | 21.65   | 23.00   |
|           |            | 1       | 74        | 22.11   | 22.09   | 21.71   | 22.01   | 21.59   | 23.00   |
|           |            | 36      | 0         | 20.57   | 21.05   | 20.83   | 20.97   | 20.78   | 22.00   |
|           |            | 36      | 18        | 20.57   | 21.11   | 20.81   | 21.05   | 20.73   | 22.00   |
|           |            | 36      | 39        | 20.77   | 21.09   | 20.70   | 20.96   | 20.63   | 22.00   |
|           |            | 75      | 0         | 20.83   | 21.04   | 20.76   | 20.98   | 20.77   | 22.00   |
|           | 256QAM     | 1       | 0         | 19.34   | 19.08   | 18.75   | 19.06   | 18.73   | 20.00   |
|           |            | 1       | 38        | 19.10   | 19.14   | 18.76   | 19.06   | 18.77   | 20.00   |
|           |            | 1       | 74        | 19.63   | 18.93   | 18.57   | 18.92   | 18.49   | 20.00   |
|           |            | 36      | 0         | 19.39   | 19.15   | 18.84   | 19.12   | 18.86   | 20.00   |
|           |            | 36      | 18        | 19.40   | 19.09   | 18.79   | 19.02   | 18.74   | 20.00   |
|           |            | 36      | 39        | 19.43   | 19.05   | 18.66   | 19.04   | 18.67   | 20.00   |
|           |            | 75      | 0         | 19.46   | 19.09   | 18.82   | 19.07   | 18.76   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |
| 20MHz     | QPSK       | 1       | 0         | 24.32   | 24.18   | 23.93   | 24.1    | 23.91   | 25.00   |
|           |            | 1       | 50        | 24.38   | 24.03   | 23.7    | 24      | 23.66   | 25.00   |
|           |            | 1       | 99        | 24.41   | 24.1    | 23.66   | 24.06   | 23.62   | 25.00   |
|           |            | 50      | 0         | 23.5    | 23.15   | 22.88   | 23.13   | 22.84   | 24.00   |
|           |            | 50      | 25        | 23.49   | 23.12   | 22.91   | 23.11   | 22.84   | 24.00   |
|           |            | 50      | 50        | 23.47   | 23.16   | 22.74   | 23.14   | 22.65   | 24.00   |
|           |            | 100     | 0         | 23.46   | 23.02   | 22.87   | 22.96   | 22.84   | 24.00   |
|           | 16QAM      | 1       | 0         | 23.23   | 23.04   | 22.74   | 22.95   | 22.73   | 24.00   |
|           |            | 1       | 50        | 23.48   | 22.89   | 22.63   | 22.85   | 22.61   | 24.00   |
|           |            | 1       | 99        | 23.52   | 23.03   | 22.59   | 22.96   | 22.52   | 24.00   |
|           |            | 50      | 0         | 22.53   | 22.23   | 21.89   | 22.2    | 21.82   | 23.00   |
|           |            | 50      | 25        | 22.42   | 22.09   | 21.85   | 22.01   | 21.83   | 23.00   |
|           |            | 50      | 50        | 22.48   | 22.09   | 21.74   | 22.03   | 21.67   | 23.00   |
|           |            | 100     | 0         | 22.43   | 22.15   | 21.8    | 22.07   | 21.79   | 23.00   |
|           | 64QAM      | 1       | 0         | 22.05   | 22.10   | 21.81   | 22.06   | 21.78   | 23.00   |
|           |            | 1       | 50        | 22.12   | 22.12   | 21.70   | 22.07   | 21.66   | 23.00   |
|           |            | 1       | 99        | 22.11   | 22.13   | 21.73   | 22.07   | 21.64   | 23.00   |
|           |            | 50      | 0         | 20.66   | 21.07   | 20.89   | 21.03   | 20.81   | 22.00   |
|           |            | 50      | 25        | 20.65   | 21.17   | 20.88   | 21.11   | 20.82   | 22.00   |
|           |            | 50      | 50        | 20.86   | 21.11   | 20.71   | 21.05   | 20.68   | 22.00   |
|           |            | 100     | 0         | 20.84   | 21.08   | 20.85   | 21.07   | 20.78   | 22.00   |
|           | 256QAM     | 1       | 0         | 19.40   | 19.17   | 18.84   | 19.12   | 18.75   | 20.00   |
|           |            | 1       | 50        | 19.14   | 19.18   | 18.82   | 19.10   | 18.81   | 20.00   |



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|--|--|-----|----|-------|-------|-------|-------|-------|-------|
|  |  | 1   | 99 | 19.67 | 18.99 | 18.64 | 18.97 | 18.56 | 20.00 |
|  |  | 50  | 0  | 19.48 | 19.21 | 18.89 | 19.18 | 18.88 | 20.00 |
|  |  | 50  | 25 | 19.43 | 19.13 | 18.86 | 19.05 | 18.77 | 20.00 |
|  |  | 50  | 50 | 19.44 | 19.14 | 18.74 | 19.07 | 18.70 | 20.00 |
|  |  | 100 | 0  | 19.50 | 19.18 | 18.86 | 19.09 | 18.85 | 20.00 |



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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

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

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

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| LTE Band 41 2496 - 2690 DS12 |            |         |           | Conducted Power(dBm) |         |         |         |         |         |
|------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|---------|---------|
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|                              |            |         |           | 39675                | 40148   | 40620   | 41093   | 41565   |         |
| 5MHz                         | QPSK       | 1       | 0         | 20.94                | 20.65   | 20.54   | 20.61   | 20.53   | 21.50   |
|                              |            | 1       | 13        | 21.03                | 20.64   | 20.39   | 20.65   | 20.26   | 21.50   |
|                              |            | 1       | 24        | 21                   | 20.6    | 20.23   | 20.59   | 20.19   | 21.50   |
|                              |            | 12      | 0         | 20.9                 | 20.81   | 20.44   | 20.74   | 20.39   | 21.50   |
|                              |            | 12      | 6         | 21.12                | 20.68   | 20.41   | 20.64   | 20.39   | 21.50   |
|                              |            | 12      | 13        | 21.08                | 20.62   | 20.22   | 20.6    | 20.14   | 21.50   |
|                              |            | 25      | 0         | 21.07                | 20.65   | 20.37   | 20.61   | 20.38   | 21.50   |
|                              | 16QAM      | 1       | 0         | 20.4                 | 20.35   | 20.38   | 20.37   | 20.33   | 21.50   |
|                              |            | 1       | 13        | 20.89                | 20.53   | 20.17   | 20.41   | 20.14   | 21.50   |
|                              |            | 1       | 24        | 20.8                 | 20.59   | 20.05   | 20.51   | 20.01   | 21.50   |
|                              |            | 12      | 0         | 20.88                | 20.73   | 20.36   | 20.68   | 20.29   | 21.50   |
|                              |            | 12      | 6         | 20.97                | 20.68   | 20.3    | 20.57   | 20.27   | 21.50   |
|                              |            | 12      | 13        | 20.91                | 20.62   | 20.22   | 20.55   | 20.13   | 21.50   |
|                              |            | 25      | 0         | 20.78                | 20.62   | 20.34   | 20.48   | 20.28   | 21.50   |
|                              | 64QAM      | 1       | 0         | 20.75                | 20.55   | 20.18   | 20.53   | 20.14   | 21.50   |
|                              |            | 1       | 13        | 20.79                | 20.49   | 20.24   | 20.36   | 20.28   | 21.50   |
|                              |            | 1       | 24        | 20.82                | 20.74   | 20.10   | 20.71   | 20.08   | 21.50   |
|                              |            | 12      | 0         | 20.94                | 20.69   | 20.42   | 20.63   | 20.36   | 21.50   |
|                              |            | 12      | 6         | 20.95                | 20.61   | 20.38   | 20.55   | 20.25   | 21.50   |
|                              |            | 12      | 13        | 20.90                | 20.62   | 20.23   | 20.59   | 20.23   | 21.50   |
|                              |            | 25      | 0         | 20.94                | 20.55   | 20.28   | 20.56   | 20.26   | 21.50   |
|                              | 256QAM     | 1       | 0         | 19.12                | 19.07   | 18.90   | 19.02   | 18.84   | 20.00   |
|                              |            | 1       | 13        | 19.41                | 19.23   | 18.74   | 19.17   | 18.65   | 20.00   |
|                              |            | 1       | 24        | 19.39                | 18.98   | 18.52   | 18.84   | 18.50   | 20.00   |
|                              |            | 12      | 0         | 19.46                | 19.17   | 18.89   | 19.11   | 18.85   | 20.00   |
|                              |            | 12      | 6         | 19.41                | 19.10   | 18.83   | 19.11   | 18.75   | 20.00   |
|                              |            | 12      | 13        | 19.49                | 19.11   | 18.65   | 19.07   | 18.59   | 20.00   |
|                              |            | 25      | 0         | 19.43                | 19.11   | 18.88   | 19.03   | 18.80   | 20.00   |
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|                              |            |         |           | 39700                | 40160   | 40620   | 41080   | 41540   |         |
| 10MHz                        | QPSK       | 1       | 0         | 20.87                | 20.63   | 20.53   | 20.61   | 20.51   | 21.50   |
|                              |            | 1       | 25        | 21.03                | 20.65   | 20.35   | 20.63   | 20.3    | 21.50   |
|                              |            | 1       | 49        | 20.96                | 20.67   | 20.24   | 20.55   | 20.27   | 21.50   |
|                              |            | 25      | 0         | 20.85                | 20.8    | 20.46   | 20.76   | 20.41   | 21.50   |
|                              |            | 25      | 13        | 21.13                | 20.68   | 20.48   | 20.62   | 20.34   | 21.50   |



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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

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|           |            |         |           |         |         |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           |            | 25      | 25        | 21.04   | 20.67   | 20.24   | 20.61   | 20.16   | 21.50   |
|           |            | 50      | 0         | 21.11   | 20.64   | 20.45   | 20.6    | 20.3    | 21.50   |
|           | 16QAM      | 1       | 0         | 20.42   | 20.37   | 20.38   | 20.37   | 20.32   | 21.50   |
|           |            | 1       | 25        | 20.86   | 20.49   | 20.1    | 20.43   | 20.06   | 21.50   |
|           |            | 1       | 49        | 20.84   | 20.61   | 20.11   | 20.56   | 20      | 21.50   |
|           |            | 25      | 0         | 20.9    | 20.72   | 20.29   | 20.64   | 20.29   | 21.50   |
|           |            | 25      | 13        | 20.96   | 20.65   | 20.36   | 20.59   | 20.26   | 21.50   |
|           |            | 25      | 25        | 20.92   | 20.61   | 20.18   | 20.6    | 20.14   | 21.50   |
|           |            | 50      | 0         | 20.79   | 20.56   | 20.39   | 20.52   | 20.25   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.75   | 20.50   | 20.18   | 20.48   | 20.10   | 21.50   |
|           |            | 1       | 25        | 20.82   | 20.44   | 20.27   | 20.34   | 20.22   | 21.50   |
|           |            | 1       | 49        | 20.82   | 20.81   | 20.10   | 20.72   | 20.14   | 21.50   |
|           |            | 25      | 0         | 20.96   | 20.69   | 20.35   | 20.64   | 20.37   | 21.50   |
|           |            | 25      | 13        | 20.94   | 20.65   | 20.39   | 20.55   | 20.29   | 21.50   |
|           |            | 25      | 25        | 20.85   | 20.64   | 20.20   | 20.59   | 20.15   | 21.50   |
|           |            | 50      | 0         | 20.93   | 20.55   | 20.25   | 20.52   | 20.26   | 21.50   |
|           | 256QAM     | 1       | 0         | 19.16   | 19.12   | 18.84   | 19.09   | 18.89   | 20.00   |
|           |            | 1       | 25        | 19.41   | 19.26   | 18.70   | 19.20   | 18.62   | 20.00   |
|           |            | 1       | 49        | 19.37   | 18.96   | 18.57   | 18.89   | 18.49   | 20.00   |
|           |            | 25      | 0         | 19.45   | 19.10   | 18.90   | 19.05   | 18.85   | 20.00   |
|           |            | 25      | 13        | 19.49   | 19.15   | 18.84   | 19.04   | 18.77   | 20.00   |
|           |            | 25      | 25        | 19.45   | 19.17   | 18.71   | 19.13   | 18.66   | 20.00   |
|           |            | 50      | 0         | 19.43   | 19.13   | 18.88   | 19.05   | 18.86   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
| 15MHz     | QPSK       | 1       | 0         | 20.93   | 20.61   | 20.52   | 20.64   | 20.55   | 21.50   |
|           |            | 1       | 38        | 20.98   | 20.64   | 20.36   | 20.6    | 20.26   | 21.50   |
|           |            | 1       | 74        | 21.02   | 20.68   | 20.25   | 20.58   | 20.2    | 21.50   |
|           |            | 36      | 0         | 20.89   | 20.77   | 20.42   | 20.75   | 20.36   | 21.50   |
|           |            | 36      | 18        | 21.08   | 20.69   | 20.42   | 20.64   | 20.33   | 21.50   |
|           |            | 36      | 39        | 21.06   | 20.67   | 20.16   | 20.58   | 20.16   | 21.50   |
|           |            | 75      | 0         | 21.07   | 20.71   | 20.4    | 20.65   | 20.32   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.47   | 20.39   | 20.38   | 20.3    | 20.29   | 21.50   |
|           |            | 1       | 38        | 20.88   | 20.46   | 20.18   | 20.42   | 20.1    | 21.50   |
|           |            | 1       | 74        | 20.81   | 20.61   | 20.05   | 20.53   | 20.05   | 21.50   |
|           |            | 36      | 0         | 20.86   | 20.76   | 20.33   | 20.63   | 20.28   | 21.50   |
|           |            | 36      | 18        | 20.94   | 20.68   | 20.3    | 20.58   | 20.3    | 21.50   |
|           |            | 36      | 39        | 20.96   | 20.65   | 20.21   | 20.59   | 20.16   | 21.50   |
|           |            | 75      | 0         | 20.75   | 20.61   | 20.36   | 20.49   | 20.24   | 21.50   |



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