

|           |            | 15      | 0         | 20.15   | 20.14   | 20.17   | 21.80   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 64QAM      | 1       | 0         | 20.47   | 20.62   | 20.46   | 21.80   |
|           |            | 1       | 7         | 20.45   | 20.41   | 20.50   | 21.80   |
|           |            | 1       | 14        | 20.57   | 20.43   | 20.43   | 21.80   |
|           |            | 8       | 0         | 19.06   | 19.04   | 19.30   | 20.80   |
|           |            | 8       | 4         | 19.36   | 19.05   | 18.98   | 20.80   |
|           |            | 8       | 7         | 19.16   | 19.16   | 19.15   | 20.80   |
|           |            | 15      | 0         | 19.29   | 18.79   | 18.96   | 20.80   |
|           | 256QAM     | 1       | 0         | 18.87   | 18.94   | 19.15   | 19.80   |
|           |            | 1       | 7         | 19.12   | 19.58   | 18.42   | 19.80   |
|           |            | 1       | 14        | 19.00   | 19.02   | 18.48   | 19.80   |
|           |            | 8       | 0         | 18.63   | 18.84   | 18.79   | 19.80   |
|           |            | 8       | 4         | 19.05   | 18.89   | 18.92   | 19.80   |
|           |            | 8       | 7         | 19.23   | 19.28   | 18.90   | 19.80   |
|           |            | 15      | 0         | 19.20   | 19.02   | 19.13   | 19.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 21.59   | 21.58   | 21.52   | 23.30   |
|           |            | 1       | 13        | 21.50   | 21.53   | 21.45   | 23.30   |
|           |            | 1       | 24        | 21.31   | 21.89   | 21.72   | 23.30   |
|           |            | 12      | 0         | 21.22   | 20.95   | 20.84   | 22.80   |
|           |            | 12      | 6         | 21.22   | 21.14   | 21.09   | 22.80   |
|           |            | 12      | 13        | 21.04   | 21.03   | 21.19   | 22.80   |
|           |            | 25      | 0         | 20.94   | 21.17   | 21.00   | 22.80   |
|           | 16QAM      | 1       | 0         | 21.68   | 21.61   | 21.19   | 22.80   |
|           |            | 1       | 13        | 21.60   | 21.52   | 21.68   | 22.80   |
|           |            | 1       | 24        | 21.57   | 21.64   | 21.46   | 22.80   |
|           |            | 12      | 0         | 20.26   | 19.80   | 20.05   | 21.80   |
|           |            | 12      | 6         | 20.02   | 20.08   | 19.94   | 21.80   |
|           |            | 12      | 13        | 20.02   | 20.07   | 20.01   | 21.80   |
|           |            | 25      | 0         | 20.37   | 19.90   | 20.25   | 21.80   |
|           | 64QAM      | 1       | 0         | 20.49   | 20.48   | 20.29   | 21.80   |
|           |            | 1       | 13        | 20.59   | 20.38   | 20.51   | 21.80   |
|           |            | 1       | 24        | 20.51   | 20.57   | 20.36   | 21.80   |
|           |            | 12      | 0         | 18.89   | 19.04   | 19.23   | 20.80   |
|           |            | 12      | 6         | 19.32   | 19.24   | 19.07   | 20.80   |
|           |            | 12      | 13        | 19.23   | 19.03   | 19.34   | 20.80   |
|           |            | 25      | 0         | 19.27   | 18.96   | 18.98   | 20.80   |
|           | 256QAM     | 1       | 0         | 18.78   | 18.95   | 18.99   | 19.80   |
|           |            | 1       | 13        | 19.20   | 19.50   | 18.58   | 19.80   |
|           |            | 1       | 24        | 19.06   | 19.16   | 18.46   | 19.80   |
|           |            | 12      | 0         | 18.89   | 18.89   | 18.96   | 19.80   |
|           |            | 12      | 6         | 19.25   | 18.78   | 18.93   | 19.80   |
|           |            | 12      | 13        | 19.12   | 19.17   | 18.98   | 19.80   |
|           |            | 25      | 0         | 19.10   | 19.14   | 19.10   | 19.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |

|           |            |         |           |                  |                  |                  |         |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
| 10MHz     | QPSK       | 1       | 0         | 21.60            | 21.31            | 21.63            | 23.30   |
|           |            | 1       | 25        | 21.45            | 21.46            | 21.23            | 23.30   |
|           |            | 1       | 49        | 21.55            | 21.86            | 21.58            | 23.30   |
|           |            | 25      | 0         | 21.11            | 21.24            | 20.94            | 22.80   |
|           |            | 25      | 13        | 21.04            | 21.12            | 20.91            | 22.80   |
|           |            | 25      | 25        | 21.10            | 20.86            | 21.00            | 22.80   |
|           |            | 50      | 0         | 20.98            | 21.18            | 21.13            | 22.80   |
|           | 16QAM      | 1       | 0         | 21.70            | 21.63            | 21.23            | 22.80   |
|           |            | 1       | 25        | 21.70            | 21.50            | 21.89            | 22.80   |
|           |            | 1       | 49        | 21.61            | 21.53            | 21.40            | 22.80   |
|           |            | 25      | 0         | 20.40            | 19.86            | 20.07            | 21.80   |
|           |            | 25      | 13        | 20.01            | 20.25            | 20.15            | 21.80   |
|           |            | 25      | 25        | 20.23            | 20.09            | 20.20            | 21.80   |
|           |            | 50      | 0         | 20.12            | 20.00            | 20.19            | 21.80   |
|           | 64QAM      | 1       | 0         | 20.37            | 20.53            | 20.40            | 21.80   |
|           |            | 1       | 25        | 20.46            | 20.40            | 20.49            | 21.80   |
|           |            | 1       | 49        | 20.58            | 20.46            | 20.36            | 21.80   |
|           |            | 25      | 0         | 18.99            | 19.05            | 19.21            | 20.80   |
|           |            | 25      | 13        | 19.31            | 18.97            | 18.99            | 20.80   |
|           |            | 25      | 25        | 19.30            | 19.16            | 19.16            | 20.80   |
|           |            | 50      | 0         | 19.22            | 18.89            | 18.85            | 20.80   |
|           | 256QAM     | 1       | 0         | 18.95            | 19.12            | 18.98            | 19.80   |
|           |            | 1       | 25        | 18.98            | 19.57            | 18.48            | 19.80   |
|           |            | 1       | 49        | 19.14            | 19.13            | 18.48            | 19.80   |
|           |            | 25      | 0         | 18.86            | 18.86            | 18.96            | 19.80   |
|           |            | 25      | 13        | 19.01            | 18.96            | 18.90            | 19.80   |
|           |            | 25      | 25        | 18.99            | 19.07            | 18.98            | 19.80   |
|           |            | 50      | 0         | 19.16            | 19.12            | 19.16            | 19.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>18675 | Channel<br>18900 | Channel<br>19125 | Tune up |
| 15MHz     | QPSK       | 1       | 0         | 21.32            | 21.48            | 21.66            | 23.30   |
|           |            | 1       | 38        | 21.25            | 21.74            | 21.29            | 23.30   |
|           |            | 1       | 74        | 21.39            | 21.65            | 21.62            | 23.30   |
|           |            | 36      | 0         | 21.13            | 21.10            | 20.99            | 22.80   |
|           |            | 36      | 18        | 21.07            | 21.02            | 21.04            | 22.80   |
|           |            | 36      | 39        | 21.14            | 21.01            | 21.12            | 22.80   |
|           |            | 75      | 0         | 20.98            | 21.12            | 21.11            | 22.80   |
|           | 16QAM      | 1       | 0         | 21.78            | 21.60            | 21.29            | 22.80   |
|           |            | 1       | 38        | 21.57            | 21.46            | 21.77            | 22.80   |
|           |            | 1       | 74        | 21.55            | 21.60            | 21.46            | 22.80   |
|           |            | 36      | 0         | 20.31            | 19.89            | 20.11            | 21.80   |
|           |            | 36      | 18        | 20.09            | 20.12            | 20.07            | 21.80   |
|           |            | 36      | 39        | 20.14            | 20.11            | 20.05            | 21.80   |
|           |            | 75      | 0         | 20.26            | 20.05            | 20.15            | 21.80   |
|           | 64QAM      | 1       | 0         | 20.49            | 20.50            | 20.44            | 21.80   |
|           |            | 1       | 38        | 20.60            | 20.53            | 20.57            | 21.80   |
|           |            | 1       | 74        | 20.43            | 20.56            | 20.41            | 21.80   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 0         | 19.01   | 19.11   | 19.24   | 20.80   |
|           |            | 36      | 18        | 19.30   | 19.11   | 18.98   | 20.80   |
|           |            | 36      | 39        | 19.20   | 19.17   | 19.26   | 20.80   |
|           |            | 75      | 0         | 19.25   | 18.91   | 19.00   | 20.80   |
|           | 256QAM     | 1       | 0         | 18.88   | 19.00   | 19.03   | 19.80   |
|           |            | 1       | 38        | 19.11   | 19.47   | 18.59   | 19.80   |
|           |            | 1       | 74        | 19.03   | 19.01   | 18.54   | 19.80   |
|           |            | 36      | 0         | 18.77   | 18.76   | 18.93   | 19.80   |
|           |            | 36      | 18        | 19.16   | 18.86   | 18.97   | 19.80   |
|           |            | 36      | 39        | 19.11   | 19.22   | 18.99   | 19.80   |
|           |            | 75      | 0         | 19.21   | 19.04   | 19.13   | 19.80   |
|           |            |         |           |         |         |         |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 21.45   | 21.46   | 21.54   | 23.30   |
|           |            | 1       | 50        | 21.37   | 21.61   | 21.31   | 23.30   |
|           |            | 1       | 99        | 21.44   | 21.79   | 21.64   | 23.30   |
|           |            | 50      | 0         | 21.08   | 21.09   | 21.07   | 22.80   |
|           |            | 50      | 25        | 21.16   | 21.25   | 21.03   | 22.80   |
|           |            | 50      | 50        | 21.16   | 21.14   | 21.11   | 22.80   |
|           |            | 100     | 0         | 21.13   | 21.04   | 21.06   | 22.80   |
|           | 16QAM      | 1       | 0         | 21.65   | 21.48   | 21.36   | 22.80   |
|           |            | 1       | 50        | 21.61   | 21.55   | 21.63   | 22.80   |
|           |            | 1       | 99        | 21.63   | 21.52   | 21.40   | 22.80   |
|           |            | 50      | 0         | 20.18   | 19.96   | 20.02   | 21.80   |
|           |            | 50      | 25        | 20.24   | 20.11   | 20.08   | 21.80   |
|           |            | 50      | 50        | 20.21   | 20.12   | 20.18   | 21.80   |
|           |            | 100     | 0         | 20.13   | 20.10   | 20.10   | 21.80   |
|           | 64QAM      | 1       | 0         | 20.51   | 20.41   | 20.38   | 21.80   |
|           |            | 1       | 50        | 20.72   | 20.51   | 20.58   | 21.80   |
|           |            | 1       | 99        | 20.50   | 20.45   | 20.50   | 21.80   |
|           |            | 50      | 0         | 19.08   | 19.01   | 19.09   | 20.80   |
|           |            | 50      | 25        | 19.15   | 19.05   | 19.09   | 20.80   |
|           |            | 50      | 50        | 19.14   | 19.10   | 19.18   | 20.80   |
|           |            | 100     | 0         | 19.17   | 19.00   | 19.05   | 20.80   |
|           | 256QAM     | 1       | 0         | 18.91   | 19.04   | 18.95   | 19.80   |
|           |            | 1       | 50        | 19.10   | 19.35   | 18.53   | 19.80   |
|           |            | 1       | 99        | 19.13   | 19.10   | 18.46   | 19.80   |
|           |            | 50      | 0         | 18.71   | 18.82   | 18.94   | 19.80   |
|           |            | 50      | 25        | 19.15   | 18.97   | 19.01   | 19.80   |
|           |            | 50      | 50        | 19.15   | 19.13   | 19.04   | 19.80   |
|           |            | 100     | 0         | 19.14   | 18.95   | 18.99   | 19.80   |

| LTE Band 4 DSI 2/3 |            |         |           | Conducted Power(dBm) |         |         |         |
|--------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz             | QPSK       | 1       | 0         | 16.39                | 16.24   | 16.12   | 17.80   |
|                    |            | 1       | 2         | 16.67                | 16.53   | 16.24   | 17.80   |
|                    |            | 1       | 5         | 16.42                | 16.57   | 16.63   | 17.80   |
|                    |            | 3       | 0         | 16.21                | 16.20   | 16.37   | 17.80   |
|                    |            | 3       | 2         | 16.39                | 16.23   | 16.53   | 17.80   |
|                    |            | 3       | 3         | 16.26                | 16.48   | 16.43   | 17.80   |
|                    |            | 6       | 0         | 16.26                | 16.17   | 16.32   | 17.80   |
|                    | 16QAM      | 1       | 0         | 15.93                | 16.29   | 16.14   | 17.80   |
|                    |            | 1       | 2         | 16.25                | 16.28   | 16.27   | 17.80   |
|                    |            | 1       | 5         | 16.33                | 16.35   | 16.41   | 17.80   |
|                    |            | 3       | 0         | 16.23                | 16.31   | 16.42   | 17.80   |
|                    |            | 3       | 2         | 16.40                | 16.31   | 16.41   | 17.80   |
|                    |            | 3       | 3         | 16.45                | 16.30   | 16.34   | 17.80   |
|                    |            | 6       | 0         | 16.53                | 16.40   | 16.31   | 17.80   |
|                    | 64QAM      | 1       | 0         | 16.17                | 16.54   | 16.48   | 17.80   |
|                    |            | 1       | 2         | 16.30                | 16.40   | 16.47   | 17.80   |
|                    |            | 1       | 5         | 16.55                | 16.19   | 16.54   | 17.80   |
|                    |            | 3       | 0         | 16.34                | 16.24   | 16.36   | 17.80   |
|                    |            | 3       | 2         | 16.31                | 16.14   | 16.27   | 17.80   |
|                    |            | 3       | 3         | 16.19                | 16.46   | 16.30   | 17.80   |
|                    |            | 6       | 0         | 16.48                | 16.39   | 16.46   | 17.80   |
|                    | 256QAM     | 1       | 0         | 16.14                | 15.98   | 16.10   | 17.80   |
|                    |            | 1       | 2         | 16.25                | 16.27   | 16.27   | 17.80   |
|                    |            | 1       | 5         | 16.52                | 16.42   | 16.67   | 17.80   |
|                    |            | 3       | 0         | 16.32                | 16.47   | 16.05   | 17.80   |
|                    |            | 3       | 2         | 16.21                | 16.13   | 16.32   | 17.80   |
|                    |            | 3       | 3         | 16.32                | 16.34   | 16.28   | 17.80   |
|                    |            | 6       | 0         | 16.38                | 16.34   | 16.31   | 17.80   |
| Bandwidth          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |            |         |           | 19965                | 20175   | 20385   |         |
| 3MHz               | QPSK       | 1       | 0         | 16.38                | 16.32   | 16.08   | 17.80   |
|                    |            | 1       | 7         | 16.62                | 16.57   | 16.21   | 17.80   |
|                    |            | 1       | 14        | 16.20                | 16.65   | 16.50   | 17.80   |
|                    |            | 8       | 0         | 16.09                | 16.35   | 16.25   | 17.80   |
|                    |            | 8       | 4         | 16.45                | 16.20   | 16.56   | 17.80   |
|                    |            | 8       | 7         | 16.26                | 16.55   | 16.37   | 17.80   |
|                    |            | 15      | 0         | 16.23                | 16.23   | 16.42   | 17.80   |
|                    | 16QAM      | 1       | 0         | 16.05                | 16.37   | 16.10   | 17.80   |
|                    |            | 1       | 7         | 16.48                | 16.40   | 16.05   | 17.80   |
|                    |            | 1       | 14        | 16.31                | 16.48   | 16.52   | 17.80   |
|                    |            | 8       | 0         | 16.28                | 16.13   | 16.30   | 17.80   |
|                    |            | 8       | 4         | 16.30                | 16.26   | 16.34   | 17.80   |
|                    |            | 8       | 7         | 16.38                | 16.17   | 16.49   | 17.80   |

|           | 64QAM      | 15      | 0         | 16.47   | 16.46   | 16.31   | 17.80   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 16.38   | 16.57   | 16.52   | 17.80   |
|           |            | 1       | 7         | 16.39   | 16.41   | 16.38   | 17.80   |
|           |            | 1       | 14        | 16.36   | 16.41   | 16.32   | 17.80   |
|           |            | 8       | 0         | 16.13   | 16.27   | 16.41   | 17.80   |
|           |            | 8       | 4         | 16.46   | 16.25   | 16.33   | 17.80   |
|           |            | 8       | 7         | 16.29   | 16.31   | 16.37   | 17.80   |
|           |            | 15      | 0         | 16.28   | 16.34   | 16.43   | 17.80   |
|           | 256QAM     | 1       | 0         | 16.06   | 16.06   | 16.19   | 17.80   |
|           |            | 1       | 7         | 16.02   | 16.44   | 16.23   | 17.80   |
|           |            | 1       | 14        | 16.37   | 16.50   | 16.66   | 17.80   |
|           |            | 8       | 0         | 16.08   | 16.36   | 15.94   | 17.80   |
|           |            | 8       | 4         | 16.20   | 16.19   | 16.45   | 17.80   |
|           |            | 8       | 7         | 16.28   | 16.55   | 16.46   | 17.80   |
|           |            | 15      | 0         | 16.20   | 16.29   | 16.39   | 17.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 16.50   | 16.18   | 16.33   | 17.80   |
|           |            | 1       | 13        | 16.56   | 16.30   | 16.30   | 17.80   |
|           |            | 1       | 24        | 16.32   | 16.67   | 16.63   | 17.80   |
|           |            | 12      | 0         | 16.28   | 16.34   | 16.09   | 17.80   |
|           |            | 12      | 6         | 16.28   | 16.30   | 16.36   | 17.80   |
|           |            | 12      | 13        | 16.30   | 16.35   | 16.27   | 17.80   |
|           |            | 25      | 0         | 16.49   | 16.25   | 16.52   | 17.80   |
|           | 16QAM      | 1       | 0         | 16.13   | 16.36   | 16.11   | 17.80   |
|           |            | 1       | 13        | 16.26   | 16.33   | 16.10   | 17.80   |
|           |            | 1       | 24        | 16.44   | 16.31   | 16.29   | 17.80   |
|           |            | 12      | 0         | 16.11   | 16.09   | 16.43   | 17.80   |
|           |            | 12      | 6         | 16.43   | 16.35   | 16.48   | 17.80   |
|           |            | 12      | 13        | 16.20   | 16.17   | 16.27   | 17.80   |
|           |            | 25      | 0         | 16.42   | 16.20   | 16.41   | 17.80   |
|           | 64QAM      | 1       | 0         | 16.43   | 16.58   | 16.35   | 17.80   |
|           |            | 1       | 13        | 16.49   | 16.23   | 16.38   | 17.80   |
|           |            | 1       | 24        | 16.31   | 16.20   | 16.49   | 17.80   |
|           |            | 12      | 0         | 16.31   | 16.30   | 16.47   | 17.80   |
|           |            | 12      | 6         | 16.43   | 16.21   | 16.55   | 17.80   |
|           |            | 12      | 13        | 16.32   | 16.43   | 16.48   | 17.80   |
|           |            | 25      | 0         | 16.27   | 16.40   | 16.23   | 17.80   |
|           | 256QAM     | 1       | 0         | 16.31   | 15.85   | 16.24   | 17.80   |
|           |            | 1       | 13        | 16.07   | 16.33   | 16.23   | 17.80   |
|           |            | 1       | 24        | 16.50   | 16.50   | 16.53   | 17.80   |
|           |            | 12      | 0         | 16.29   | 16.35   | 16.08   | 17.80   |
|           |            | 12      | 6         | 16.44   | 16.20   | 16.47   | 17.80   |
|           |            | 12      | 13        | 16.46   | 16.47   | 16.17   | 17.80   |
|           |            | 25      | 0         | 16.38   | 16.47   | 16.44   | 17.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |

|           |            |         |           |                  |                  |                  |         |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
| 10MHz     | QPSK       | 1       | 0         | 16.36            | 16.11            | 16.25            | 17.80   |
|           |            | 1       | 25        | 16.60            | 16.34            | 16.16            | 17.80   |
|           |            | 1       | 49        | 16.22            | 16.49            | 16.38            | 17.80   |
|           |            | 25      | 0         | 16.20            | 16.43            | 16.28            | 17.80   |
|           |            | 25      | 13        | 16.37            | 16.36            | 16.41            | 17.80   |
|           |            | 25      | 25        | 16.38            | 16.53            | 16.36            | 17.80   |
|           |            | 50      | 0         | 16.48            | 16.26            | 16.53            | 17.80   |
|           | 16QAM      | 1       | 0         | 16.12            | 16.13            | 16.33            | 17.80   |
|           |            | 1       | 25        | 16.50            | 16.40            | 16.16            | 17.80   |
|           |            | 1       | 49        | 16.43            | 16.28            | 16.43            | 17.80   |
|           |            | 25      | 0         | 16.20            | 16.34            | 16.40            | 17.80   |
|           |            | 25      | 13        | 16.34            | 16.40            | 16.40            | 17.80   |
|           |            | 25      | 25        | 16.26            | 16.35            | 16.29            | 17.80   |
|           |            | 50      | 0         | 16.50            | 16.19            | 16.28            | 17.80   |
|           | 64QAM      | 1       | 0         | 16.34            | 16.34            | 16.56            | 17.80   |
|           |            | 1       | 25        | 16.53            | 16.24            | 16.46            | 17.80   |
|           |            | 1       | 49        | 16.47            | 16.22            | 16.37            | 17.80   |
|           |            | 25      | 0         | 16.24            | 16.43            | 16.27            | 17.80   |
|           |            | 25      | 13        | 16.27            | 16.13            | 16.51            | 17.80   |
|           |            | 25      | 25        | 16.33            | 16.42            | 16.58            | 17.80   |
|           |            | 50      | 0         | 16.33            | 16.18            | 16.30            | 17.80   |
|           | 256QAM     | 1       | 0         | 16.12            | 16.14            | 16.30            | 17.80   |
|           |            | 1       | 25        | 16.27            | 16.39            | 16.44            | 17.80   |
|           |            | 1       | 49        | 16.52            | 16.34            | 16.53            | 17.80   |
|           |            | 25      | 0         | 16.32            | 16.23            | 16.17            | 17.80   |
|           |            | 25      | 13        | 16.34            | 16.15            | 16.33            | 17.80   |
|           |            | 25      | 25        | 16.26            | 16.51            | 16.26            | 17.80   |
|           |            | 50      | 0         | 16.34            | 16.41            | 16.42            | 17.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20025 | Channel<br>20175 | Channel<br>20325 | Tune up |
| 15MHz     | QPSK       | 1       | 0         | 16.36            | 16.32            | 16.31            | 17.80   |
|           |            | 1       | 38        | 16.52            | 16.52            | 16.26            | 17.80   |
|           |            | 1       | 74        | 16.43            | 16.71            | 16.61            | 17.80   |
|           |            | 36      | 0         | 16.20            | 16.26            | 16.23            | 17.80   |
|           |            | 36      | 18        | 16.33            | 16.29            | 16.49            | 17.80   |
|           |            | 36      | 39        | 16.39            | 16.54            | 16.18            | 17.80   |
|           |            | 75      | 0         | 16.30            | 16.39            | 16.46            | 17.80   |
|           | 16QAM      | 1       | 0         | 16.14            | 16.24            | 16.36            | 17.80   |
|           |            | 1       | 38        | 16.26            | 16.35            | 16.21            | 17.80   |
|           |            | 1       | 74        | 16.34            | 16.28            | 16.25            | 17.80   |
|           |            | 36      | 0         | 16.11            | 16.30            | 16.33            | 17.80   |
|           |            | 36      | 18        | 16.39            | 16.24            | 16.43            | 17.80   |
|           |            | 36      | 39        | 16.15            | 16.20            | 16.47            | 17.80   |
|           |            | 75      | 0         | 16.41            | 16.20            | 16.28            | 17.80   |
|           | 64QAM      | 1       | 0         | 16.45            | 16.53            | 16.55            | 17.80   |
|           |            | 1       | 38        | 16.48            | 16.50            | 16.40            | 17.80   |
|           |            | 1       | 74        | 16.41            | 16.22            | 16.32            | 17.80   |

|           |            | 36      | 0         | 16.19   | 16.15   | 16.22   | 17.80   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 18        | 16.26   | 16.19   | 16.28   | 17.80   |
|           |            | 36      | 39        | 16.47   | 16.46   | 16.32   | 17.80   |
|           |            | 75      | 0         | 16.51   | 16.33   | 16.31   | 17.80   |
|           | 256QAM     | 1       | 0         | 16.25   | 16.15   | 16.16   | 17.80   |
|           |            | 1       | 38        | 16.23   | 16.47   | 16.43   | 17.80   |
|           |            | 1       | 74        | 16.45   | 16.33   | 16.60   | 17.80   |
|           |            | 36      | 0         | 16.32   | 16.43   | 16.17   | 17.80   |
|           |            | 36      | 18        | 16.33   | 16.40   | 16.32   | 17.80   |
|           |            | 36      | 39        | 16.44   | 16.40   | 16.25   | 17.80   |
|           |            | 75      | 0         | 16.37   | 16.51   | 16.36   | 17.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20050   | 20175   | 20300   |         |
| 20MHz     | QPSK       | 1       | 0         | 16.44   | 16.19   | 16.19   | 17.80   |
|           |            | 1       | 50        | 16.53   | 16.44   | 16.27   | 17.80   |
|           |            | 1       | 99        | 16.35   | 16.58   | 16.53   | 17.80   |
|           |            | 50      | 0         | 16.21   | 16.33   | 16.23   | 17.80   |
|           |            | 50      | 25        | 16.39   | 16.51   | 16.43   | 17.80   |
|           |            | 50      | 50        | 16.39   | 16.43   | 16.33   | 17.80   |
|           |            | 100     | 0         | 16.35   | 16.30   | 16.39   | 17.80   |
|           | 16QAM      | 1       | 0         | 16.02   | 16.26   | 16.21   | 17.80   |
|           |            | 1       | 50        | 16.35   | 16.30   | 16.18   | 17.80   |
|           |            | 1       | 99        | 16.40   | 16.40   | 16.40   | 17.80   |
|           |            | 50      | 0         | 16.25   | 16.19   | 16.28   | 17.80   |
|           |            | 50      | 25        | 16.35   | 16.33   | 16.37   | 17.80   |
|           |            | 50      | 50        | 16.30   | 16.32   | 16.39   | 17.80   |
|           |            | 100     | 0         | 16.38   | 16.33   | 16.33   | 17.80   |
|           | 64QAM      | 1       | 0         | 16.31   | 16.43   | 16.49   | 17.80   |
|           |            | 1       | 50        | 16.43   | 16.37   | 16.32   | 17.80   |
|           |            | 1       | 99        | 16.40   | 16.26   | 16.43   | 17.80   |
|           |            | 50      | 0         | 16.21   | 16.28   | 16.32   | 17.80   |
|           |            | 50      | 25        | 16.34   | 16.28   | 16.42   | 17.80   |
|           |            | 50      | 50        | 16.34   | 16.45   | 16.43   | 17.80   |
|           |            | 100     | 0         | 16.40   | 16.29   | 16.33   | 17.80   |
|           | 256QAM     | 1       | 0         | 16.16   | 16.00   | 16.20   | 17.80   |
|           |            | 1       | 50        | 16.14   | 16.35   | 16.32   | 17.80   |
|           |            | 1       | 99        | 16.45   | 16.40   | 16.57   | 17.80   |
|           |            | 50      | 0         | 16.22   | 16.33   | 16.06   | 17.80   |
|           |            | 50      | 25        | 16.33   | 16.25   | 16.33   | 17.80   |
|           |            | 50      | 50        | 16.35   | 16.40   | 16.32   | 17.80   |
|           |            | 100     | 0         | 16.31   | 16.37   | 16.37   | 17.80   |

| LTE Band 4 DSI 4 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz           | QPSK       | 1       | 0         | 20.86                | 20.72   | 20.87   | 22.30   |
|                  |            | 1       | 2         | 21.07                | 20.96   | 21.48   | 22.30   |
|                  |            | 1       | 5         | 20.95                | 21.06   | 21.06   | 22.30   |
|                  |            | 3       | 0         | 20.74                | 20.81   | 20.98   | 22.30   |
|                  |            | 3       | 2         | 20.79                | 20.90   | 21.02   | 22.30   |
|                  |            | 3       | 3         | 20.89                | 21.00   | 21.04   | 22.30   |
|                  |            | 6       | 0         | 20.80                | 20.95   | 21.03   | 22.30   |
|                  | 16QAM      | 1       | 0         | 20.65                | 20.92   | 20.90   | 22.30   |
|                  |            | 1       | 2         | 20.81                | 20.91   | 20.71   | 22.30   |
|                  |            | 1       | 5         | 20.91                | 20.67   | 20.95   | 22.30   |
|                  |            | 3       | 0         | 20.67                | 20.96   | 20.80   | 22.30   |
|                  |            | 3       | 2         | 21.02                | 21.07   | 20.98   | 22.30   |
|                  |            | 3       | 3         | 20.79                | 20.92   | 20.89   | 22.30   |
|                  |            | 6       | 0         | 21.04                | 21.01   | 20.92   | 22.30   |
|                  | 64QAM      | 1       | 0         | 20.64                | 20.83   | 20.83   | 22.30   |
|                  |            | 1       | 2         | 20.67                | 20.69   | 20.97   | 22.30   |
|                  |            | 1       | 5         | 20.86                | 21.01   | 20.92   | 22.30   |
|                  |            | 3       | 0         | 20.33                | 20.38   | 20.22   | 22.30   |
|                  |            | 3       | 2         | 20.45                | 20.53   | 20.61   | 22.30   |
|                  |            | 3       | 3         | 20.45                | 20.41   | 20.45   | 22.30   |
|                  |            | 6       | 0         | 20.28                | 20.32   | 20.24   | 21.80   |
|                  | 256QAM     | 1       | 0         | 20.56                | 19.96   | 20.12   | 20.80   |
|                  |            | 1       | 2         | 20.05                | 20.43   | 20.73   | 20.80   |
|                  |            | 1       | 5         | 19.80                | 20.12   | 20.53   | 20.80   |
|                  |            | 3       | 0         | 20.37                | 20.34   | 20.32   | 20.80   |
|                  |            | 3       | 2         | 20.42                | 20.56   | 20.51   | 20.80   |
|                  |            | 3       | 3         | 20.49                | 20.40   | 20.21   | 20.80   |
|                  |            | 6       | 0         | 20.41                | 20.42   | 20.24   | 20.80   |
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 19965                | 20175   | 20385   |         |
| 3MHz             | QPSK       | 1       | 0         | 20.87                | 20.88   | 21.00   | 22.30   |
|                  |            | 1       | 7         | 21.12                | 20.92   | 21.61   | 22.30   |
|                  |            | 1       | 14        | 20.87                | 21.20   | 21.14   | 22.30   |
|                  |            | 8       | 0         | 20.68                | 20.84   | 20.77   | 22.30   |
|                  |            | 8       | 4         | 20.97                | 20.86   | 20.91   | 22.30   |
|                  |            | 8       | 7         | 20.68                | 20.91   | 20.75   | 22.30   |
|                  |            | 15      | 0         | 20.72                | 20.99   | 20.81   | 22.30   |
|                  | 16QAM      | 1       | 0         | 20.78                | 20.88   | 20.83   | 22.30   |
|                  |            | 1       | 7         | 21.00                | 20.76   | 20.84   | 22.30   |
|                  |            | 1       | 14        | 20.77                | 20.56   | 21.20   | 22.30   |
|                  |            | 8       | 0         | 20.76                | 20.98   | 20.88   | 22.30   |
|                  |            | 8       | 4         | 20.90                | 20.94   | 20.81   | 22.30   |
|                  |            | 8       | 7         | 20.95                | 21.07   | 20.86   | 22.30   |

|           |            | 15      | 0         | 20.85   | 21.07   | 20.83   | 22.30   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 64QAM      | 1       | 0         | 20.62   | 21.08   | 20.72   | 22.30   |
|           |            | 1       | 7         | 20.55   | 20.68   | 20.94   | 22.30   |
|           |            | 1       | 14        | 20.92   | 20.83   | 20.78   | 22.30   |
|           |            | 8       | 0         | 20.29   | 20.40   | 20.15   | 21.80   |
|           |            | 8       | 4         | 20.37   | 20.50   | 20.68   | 21.80   |
|           |            | 8       | 7         | 20.45   | 20.57   | 20.44   | 21.80   |
|           |            | 15      | 0         | 20.48   | 20.36   | 20.27   | 21.80   |
|           | 256QAM     | 1       | 0         | 20.55   | 19.91   | 20.31   | 20.80   |
|           |            | 1       | 7         | 20.25   | 20.56   | 20.51   | 20.80   |
|           |            | 1       | 14        | 19.80   | 19.99   | 20.56   | 20.80   |
|           |            | 8       | 0         | 20.18   | 20.35   | 20.34   | 20.80   |
|           |            | 8       | 4         | 20.29   | 20.55   | 20.54   | 20.80   |
|           |            | 8       | 7         | 20.27   | 20.57   | 20.27   | 20.80   |
|           |            | 15      | 0         | 20.36   | 20.52   | 20.33   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 20.92   | 20.83   | 21.08   | 22.30   |
|           |            | 1       | 13        | 21.00   | 20.92   | 21.63   | 22.30   |
|           |            | 1       | 24        | 21.03   | 21.24   | 21.02   | 22.30   |
|           |            | 12      | 0         | 20.94   | 20.90   | 20.89   | 22.30   |
|           |            | 12      | 6         | 20.75   | 20.90   | 20.72   | 22.30   |
|           |            | 12      | 13        | 20.85   | 20.86   | 21.03   | 22.30   |
|           |            | 25      | 0         | 20.84   | 20.79   | 20.79   | 22.30   |
|           | 16QAM      | 1       | 0         | 20.57   | 20.83   | 20.85   | 22.30   |
|           |            | 1       | 13        | 21.04   | 20.75   | 20.80   | 22.30   |
|           |            | 1       | 24        | 20.85   | 20.76   | 21.03   | 22.30   |
|           |            | 12      | 0         | 20.77   | 20.99   | 20.97   | 22.30   |
|           |            | 12      | 6         | 20.88   | 20.95   | 20.73   | 22.30   |
|           |            | 12      | 13        | 21.03   | 21.06   | 20.87   | 22.30   |
|           |            | 25      | 0         | 20.82   | 20.89   | 20.90   | 22.30   |
|           | 64QAM      | 1       | 0         | 20.58   | 20.94   | 20.75   | 22.30   |
|           |            | 1       | 13        | 20.69   | 20.77   | 20.78   | 22.30   |
|           |            | 1       | 24        | 21.04   | 20.78   | 21.02   | 22.30   |
|           |            | 12      | 0         | 20.26   | 20.37   | 20.38   | 21.80   |
|           |            | 12      | 6         | 20.45   | 20.55   | 20.84   | 21.80   |
|           |            | 12      | 13        | 20.27   | 20.50   | 20.29   | 21.80   |
|           |            | 25      | 0         | 20.25   | 20.23   | 20.33   | 21.80   |
|           | 256QAM     | 1       | 0         | 20.48   | 19.99   | 20.13   | 20.80   |
|           |            | 1       | 13        | 20.06   | 20.63   | 20.57   | 20.80   |
|           |            | 1       | 24        | 19.70   | 20.02   | 20.59   | 20.80   |
|           |            | 12      | 0         | 20.17   | 20.17   | 20.21   | 20.80   |
|           |            | 12      | 6         | 20.44   | 20.46   | 20.37   | 20.80   |
|           |            | 12      | 13        | 20.45   | 20.45   | 20.23   | 20.80   |
|           |            | 25      | 0         | 20.30   | 20.36   | 20.36   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| 10MHz     | QPSK       | 1       | 0         | 20.70   | 20.74   | 20.86   | 22.30   |
|           |            | 1       | 25        | 21.02   | 20.92   | 21.53   | 22.30   |
|           |            | 1       | 49        | 20.92   | 21.14   | 21.13   | 22.30   |
|           |            | 25      | 0         | 20.68   | 20.96   | 20.77   | 22.30   |
|           |            | 25      | 13        | 20.84   | 20.70   | 20.91   | 22.30   |
|           |            | 25      | 25        | 20.83   | 21.02   | 20.95   | 22.30   |
|           |            | 50      | 0         | 20.77   | 20.96   | 20.90   | 22.30   |
|           | 16QAM      | 1       | 0         | 20.71   | 20.90   | 20.74   | 22.30   |
|           |            | 1       | 25        | 21.00   | 20.91   | 20.65   | 22.30   |
|           |            | 1       | 49        | 20.93   | 20.76   | 21.04   | 22.30   |
|           |            | 25      | 0         | 20.87   | 20.87   | 20.68   | 22.30   |
|           |            | 25      | 13        | 21.00   | 21.05   | 20.89   | 22.30   |
|           |            | 25      | 25        | 20.78   | 21.03   | 20.99   | 22.30   |
|           |            | 50      | 0         | 20.96   | 21.00   | 20.83   | 22.30   |
|           | 64QAM      | 1       | 0         | 20.76   | 20.95   | 20.97   | 22.30   |
|           |            | 1       | 25        | 20.62   | 20.77   | 20.95   | 22.30   |
|           |            | 1       | 49        | 20.85   | 20.90   | 20.80   | 22.30   |
|           |            | 25      | 0         | 20.39   | 20.49   | 20.20   | 21.80   |
|           |            | 25      | 13        | 20.26   | 20.32   | 20.86   | 21.80   |
|           |            | 25      | 25        | 20.45   | 20.39   | 20.50   | 21.80   |
|           |            | 50      | 0         | 20.30   | 20.15   | 20.33   | 21.80   |
|           | 256QAM     | 1       | 0         | 20.33   | 19.98   | 20.05   | 20.80   |
|           |            | 1       | 25        | 20.03   | 20.39   | 20.63   | 20.80   |
|           |            | 1       | 49        | 19.76   | 20.03   | 20.78   | 20.80   |
|           |            | 25      | 0         | 20.23   | 20.20   | 20.34   | 20.80   |
|           |            | 25      | 13        | 20.31   | 20.49   | 20.40   | 20.80   |
|           |            | 25      | 25        | 20.35   | 20.31   | 20.16   | 20.80   |
|           |            | 50      | 0         | 20.54   | 20.23   | 20.23   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 20.86   | 20.64   | 21.08   | 22.30   |
|           |            | 1       | 38        | 20.95   | 20.88   | 21.73   | 22.30   |
|           |            | 1       | 74        | 20.87   | 21.12   | 21.23   | 22.30   |
|           |            | 36      | 0         | 20.90   | 20.91   | 20.94   | 22.30   |
|           |            | 36      | 18        | 20.82   | 20.73   | 20.96   | 22.30   |
|           |            | 36      | 39        | 20.74   | 20.98   | 20.76   | 22.30   |
|           |            | 75      | 0         | 20.84   | 20.85   | 20.97   | 22.30   |
|           | 16QAM      | 1       | 0         | 20.59   | 20.76   | 20.85   | 22.30   |
|           |            | 1       | 38        | 20.92   | 20.90   | 20.72   | 22.30   |
|           |            | 1       | 74        | 20.97   | 20.65   | 20.99   | 22.30   |
|           |            | 36      | 0         | 20.94   | 20.72   | 20.76   | 22.30   |
|           |            | 36      | 18        | 20.88   | 20.95   | 20.79   | 22.30   |
|           |            | 36      | 39        | 20.79   | 21.09   | 20.93   | 22.30   |
|           |            | 75      | 0         | 20.84   | 20.99   | 20.89   | 22.30   |
|           | 64QAM      | 1       | 0         | 20.75   | 20.89   | 20.81   | 22.30   |
|           |            | 1       | 38        | 20.64   | 20.61   | 21.00   | 22.30   |
|           |            | 1       | 74        | 20.87   | 20.85   | 20.99   | 22.30   |

|           |            | 36      | 0         | 20.25   | 20.38   | 20.30   | 21.80   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 18        | 20.36   | 20.57   | 20.86   | 21.80   |
|           |            | 36      | 39        | 20.30   | 20.46   | 20.52   | 21.80   |
|           |            | 75      | 0         | 20.48   | 20.14   | 20.53   | 21.80   |
|           | 256QAM     | 1       | 0         | 20.53   | 19.95   | 20.29   | 20.80   |
|           |            | 1       | 38        | 20.21   | 20.69   | 20.72   | 20.80   |
|           |            | 1       | 74        | 19.70   | 20.02   | 20.79   | 20.80   |
|           |            | 36      | 0         | 20.24   | 20.41   | 20.46   | 20.80   |
|           |            | 36      | 18        | 20.57   | 20.46   | 20.52   | 20.80   |
|           |            | 36      | 39        | 20.27   | 20.47   | 20.18   | 20.80   |
|           |            | 75      | 0         | 20.50   | 20.50   | 20.30   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20050   | 20175   | 20300   |         |
| 20MHz     | QPSK       | 1       | 0         | 20.82   | 20.77   | 20.93   | 22.30   |
|           |            | 1       | 50        | 20.99   | 20.86   | 21.61   | 22.30   |
|           |            | 1       | 99        | 21.01   | 21.18   | 21.08   | 22.30   |
|           |            | 50      | 0         | 20.79   | 20.86   | 20.83   | 22.30   |
|           |            | 50      | 25        | 20.89   | 20.79   | 20.87   | 22.30   |
|           |            | 50      | 50        | 20.82   | 20.88   | 20.90   | 22.30   |
|           |            | 100     | 0         | 20.85   | 20.89   | 20.91   | 22.30   |
|           | 16QAM      | 1       | 0         | 20.72   | 20.79   | 20.89   | 22.30   |
|           |            | 1       | 50        | 20.90   | 20.80   | 20.70   | 22.30   |
|           |            | 1       | 99        | 20.86   | 20.67   | 21.05   | 22.30   |
|           |            | 50      | 0         | 20.79   | 20.87   | 20.83   | 22.30   |
|           |            | 50      | 25        | 20.89   | 20.93   | 20.85   | 22.30   |
|           |            | 50      | 50        | 20.90   | 20.98   | 20.89   | 22.30   |
|           |            | 100     | 0         | 20.92   | 20.94   | 20.94   | 22.30   |
|           | 64QAM      | 1       | 0         | 20.62   | 20.97   | 20.83   | 22.30   |
|           |            | 1       | 50        | 20.70   | 20.71   | 20.88   | 22.30   |
|           |            | 1       | 99        | 20.95   | 20.89   | 20.93   | 22.30   |
|           |            | 50      | 0         | 20.29   | 20.37   | 20.30   | 21.80   |
|           |            | 50      | 25        | 20.32   | 20.43   | 20.75   | 21.80   |
|           |            | 50      | 50        | 20.37   | 20.43   | 20.43   | 21.80   |
|           |            | 100     | 0         | 20.35   | 20.29   | 20.38   | 21.80   |
|           | 256QAM     | 1       | 0         | 20.46   | 19.97   | 20.17   | 20.80   |
|           |            | 1       | 50        | 20.17   | 20.54   | 20.60   | 20.80   |
|           |            | 1       | 99        | 19.74   | 19.99   | 20.65   | 20.80   |
|           |            | 50      | 0         | 20.26   | 20.32   | 20.32   | 20.80   |
|           |            | 50      | 25        | 20.42   | 20.42   | 20.44   | 20.80   |
|           |            | 50      | 50        | 20.41   | 20.42   | 20.31   | 20.80   |
|           |            | 100     | 0         | 20.41   | 20.37   | 20.35   | 20.80   |

| LTE Band 4 DSI 5/6 |            |         |           | Conducted Power(dBm) |         |         |         |
|--------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz             | QPSK       | 1       | 0         | 19.59                | 19.96   | 19.43   | 21.30   |
|                    |            | 1       | 2         | 19.72                | 19.59   | 19.75   | 21.30   |
|                    |            | 1       | 5         | 19.60                | 19.67   | 19.54   | 21.30   |
|                    |            | 3       | 0         | 19.63                | 19.66   | 19.79   | 21.30   |
|                    |            | 3       | 2         | 19.55                | 19.62   | 19.88   | 21.30   |
|                    |            | 3       | 3         | 19.79                | 19.74   | 19.62   | 21.30   |
|                    |            | 6       | 0         | 19.75                | 19.84   | 19.56   | 21.30   |
|                    | 16QAM      | 1       | 0         | 19.67                | 19.61   | 19.40   | 21.30   |
|                    |            | 1       | 2         | 19.72                | 19.78   | 19.65   | 21.30   |
|                    |            | 1       | 5         | 20.00                | 19.80   | 19.83   | 21.30   |
|                    |            | 3       | 0         | 19.65                | 19.55   | 19.61   | 21.30   |
|                    |            | 3       | 2         | 19.62                | 19.65   | 19.84   | 21.30   |
|                    |            | 3       | 3         | 19.81                | 19.92   | 19.75   | 21.30   |
|                    |            | 6       | 0         | 19.81                | 19.68   | 19.62   | 21.30   |
|                    | 64QAM      | 1       | 0         | 19.77                | 19.80   | 19.71   | 21.30   |
|                    |            | 1       | 2         | 19.63                | 20.24   | 19.54   | 21.30   |
|                    |            | 1       | 5         | 20.13                | 19.83   | 19.83   | 21.30   |
|                    |            | 3       | 0         | 19.32                | 19.65   | 19.58   | 21.30   |
|                    |            | 3       | 2         | 19.79                | 19.89   | 19.91   | 21.30   |
|                    |            | 3       | 3         | 19.65                | 19.76   | 19.86   | 21.30   |
|                    |            | 6       | 0         | 19.76                | 19.61   | 19.84   | 21.30   |
|                    | 256QAM     | 1       | 0         | 19.42                | 19.57   | 19.71   | 20.80   |
|                    |            | 1       | 2         | 19.72                | 19.76   | 19.71   | 20.80   |
|                    |            | 1       | 5         | 20.09                | 19.93   | 19.56   | 20.80   |
|                    |            | 3       | 0         | 19.33                | 20.02   | 19.68   | 20.80   |
|                    |            | 3       | 2         | 19.78                | 19.75   | 19.59   | 20.80   |
|                    |            | 3       | 3         | 19.82                | 19.97   | 19.90   | 20.80   |
|                    |            | 6       | 0         | 19.86                | 19.71   | 19.79   | 20.80   |
| Bandwidth          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |            |         |           | 19965                | 20175   | 20385   |         |
| 3MHz               | QPSK       | 1       | 0         | 19.51                | 20.13   | 19.52   | 21.30   |
|                    |            | 1       | 7         | 19.54                | 19.57   | 19.65   | 21.30   |
|                    |            | 1       | 14        | 19.76                | 19.65   | 19.70   | 21.30   |
|                    |            | 8       | 0         | 19.62                | 19.67   | 19.51   | 21.30   |
|                    |            | 8       | 4         | 19.73                | 19.85   | 19.79   | 21.30   |
|                    |            | 8       | 7         | 19.61                | 19.68   | 19.75   | 21.30   |
|                    |            | 15      | 0         | 19.79                | 19.67   | 19.65   | 21.30   |
|                    | 16QAM      | 1       | 0         | 19.91                | 19.74   | 19.45   | 21.30   |
|                    |            | 1       | 7         | 19.60                | 19.77   | 19.70   | 21.30   |
|                    |            | 1       | 14        | 20.04                | 19.66   | 19.77   | 21.30   |
|                    |            | 8       | 0         | 19.63                | 19.65   | 19.57   | 21.30   |
|                    |            | 8       | 4         | 19.79                | 19.92   | 19.70   | 21.30   |
|                    |            | 8       | 7         | 19.67                | 19.69   | 19.72   | 21.30   |

|           |            | 15      | 0         | 19.91   | 19.62   | 19.68   | 21.30   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 64QAM      | 1       | 0         | 19.67   | 19.61   | 19.77   | 21.30   |
|           |            | 1       | 7         | 19.62   | 20.04   | 19.60   | 21.30   |
|           |            | 1       | 14        | 20.08   | 19.87   | 19.57   | 21.30   |
|           |            | 8       | 0         | 19.60   | 19.81   | 19.54   | 21.30   |
|           |            | 8       | 4         | 19.74   | 19.67   | 19.81   | 21.30   |
|           |            | 8       | 7         | 19.68   | 19.75   | 19.82   | 21.30   |
|           |            | 15      | 0         | 19.65   | 19.82   | 19.75   | 21.30   |
|           | 256QAM     | 1       | 0         | 19.62   | 19.74   | 19.84   | 20.80   |
|           |            | 1       | 7         | 19.59   | 19.58   | 19.50   | 20.80   |
|           |            | 1       | 14        | 19.96   | 19.93   | 19.64   | 20.80   |
|           |            | 8       | 0         | 19.48   | 19.78   | 19.87   | 20.80   |
|           |            | 8       | 4         | 19.90   | 19.76   | 19.82   | 20.80   |
|           |            | 8       | 7         | 19.59   | 19.97   | 19.81   | 20.80   |
|           |            | 15      | 0         | 19.60   | 19.64   | 19.67   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 19.56   | 19.94   | 19.59   | 21.30   |
|           |            | 1       | 13        | 19.83   | 19.78   | 19.73   | 21.30   |
|           |            | 1       | 24        | 19.67   | 19.71   | 19.62   | 21.30   |
|           |            | 12      | 0         | 19.64   | 19.62   | 19.74   | 21.30   |
|           |            | 12      | 6         | 19.49   | 19.76   | 19.69   | 21.30   |
|           |            | 12      | 13        | 19.82   | 19.90   | 19.76   | 21.30   |
|           |            | 25      | 0         | 19.82   | 19.91   | 19.66   | 21.30   |
|           | 16QAM      | 1       | 0         | 19.71   | 19.59   | 19.69   | 21.30   |
|           |            | 1       | 13        | 19.72   | 19.65   | 19.55   | 21.30   |
|           |            | 1       | 24        | 20.14   | 19.79   | 19.99   | 21.30   |
|           |            | 12      | 0         | 19.62   | 19.79   | 19.49   | 21.30   |
|           |            | 12      | 6         | 19.71   | 19.80   | 19.74   | 21.30   |
|           |            | 12      | 13        | 19.84   | 19.71   | 19.83   | 21.30   |
|           |            | 25      | 0         | 19.61   | 19.59   | 19.66   | 21.30   |
|           | 64QAM      | 1       | 0         | 19.63   | 19.61   | 19.82   | 21.30   |
|           |            | 1       | 13        | 19.44   | 20.28   | 19.80   | 21.30   |
|           |            | 1       | 24        | 20.00   | 19.92   | 19.71   | 21.30   |
|           |            | 12      | 0         | 19.40   | 19.63   | 19.64   | 21.30   |
|           |            | 12      | 6         | 19.62   | 19.75   | 19.73   | 21.30   |
|           |            | 12      | 13        | 19.86   | 19.66   | 19.79   | 21.30   |
|           |            | 25      | 0         | 19.73   | 19.81   | 19.64   | 21.30   |
|           | 256QAM     | 1       | 0         | 19.46   | 19.79   | 19.91   | 20.80   |
|           |            | 1       | 13        | 19.68   | 19.72   | 19.74   | 20.80   |
|           |            | 1       | 24        | 20.05   | 19.76   | 19.60   | 20.80   |
|           |            | 12      | 0         | 19.52   | 19.83   | 19.78   | 20.80   |
|           |            | 12      | 6         | 19.93   | 19.57   | 19.56   | 20.80   |
|           |            | 12      | 13        | 19.76   | 19.78   | 19.78   | 20.80   |
|           |            | 25      | 0         | 19.60   | 19.71   | 19.83   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |

|           |            |         |           |                  |                  |                  |         |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
| 10MHz     | QPSK       | 1       | 0         | 19.52            | 20.03            | 19.46            | 21.30   |
|           |            | 1       | 25        | 19.71            | 19.57            | 19.76            | 21.30   |
|           |            | 1       | 49        | 19.63            | 19.71            | 19.54            | 21.30   |
|           |            | 25      | 0         | 19.60            | 19.68            | 19.59            | 21.30   |
|           |            | 25      | 13        | 19.77            | 19.66            | 19.83            | 21.30   |
|           |            | 25      | 25        | 19.64            | 19.83            | 19.84            | 21.30   |
|           |            | 50      | 0         | 19.77            | 19.85            | 19.55            | 21.30   |
|           | 16QAM      | 1       | 0         | 19.64            | 19.59            | 19.57            | 21.30   |
|           |            | 1       | 25        | 19.67            | 19.74            | 19.74            | 21.30   |
|           |            | 1       | 49        | 20.13            | 19.84            | 19.91            | 21.30   |
|           |            | 25      | 0         | 19.76            | 19.82            | 19.64            | 21.30   |
|           |            | 25      | 13        | 19.67            | 19.71            | 19.71            | 21.30   |
|           |            | 25      | 25        | 19.70            | 19.84            | 19.64            | 21.30   |
|           |            | 50      | 0         | 19.85            | 19.84            | 19.82            | 21.30   |
|           | 64QAM      | 1       | 0         | 19.68            | 19.88            | 19.59            | 21.30   |
|           |            | 1       | 25        | 19.58            | 20.27            | 19.77            | 21.30   |
|           |            | 1       | 49        | 20.01            | 19.70            | 19.65            | 21.30   |
|           |            | 25      | 0         | 19.54            | 19.76            | 19.65            | 21.30   |
|           |            | 25      | 13        | 19.85            | 19.64            | 19.93            | 21.30   |
|           |            | 25      | 25        | 19.74            | 19.68            | 19.82            | 21.30   |
|           |            | 50      | 0         | 19.70            | 19.87            | 19.79            | 21.30   |
|           | 256QAM     | 1       | 0         | 19.22            | 19.32            | 19.51            | 19.80   |
|           |            | 1       | 25        | 19.34            | 19.42            | 19.32            | 19.80   |
|           |            | 1       | 49        | 19.62            | 19.38            | 19.46            | 19.80   |
|           |            | 25      | 0         | 19.07            | 19.51            | 19.32            | 19.80   |
|           |            | 25      | 13        | 19.45            | 19.30            | 19.41            | 19.80   |
|           |            | 25      | 25        | 19.38            | 19.56            | 19.48            | 19.80   |
|           |            | 50      | 0         | 19.31            | 19.49            | 19.49            | 19.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20025 | Channel<br>20175 | Channel<br>20325 | Tune up |
| 15MHz     | QPSK       | 1       | 0         | 19.49            | 19.86            | 19.43            | 21.30   |
|           |            | 1       | 38        | 19.66            | 19.66            | 19.92            | 21.30   |
|           |            | 1       | 74        | 19.51            | 19.66            | 19.55            | 21.30   |
|           |            | 36      | 0         | 19.45            | 19.72            | 19.76            | 21.30   |
|           |            | 36      | 18        | 19.62            | 19.84            | 19.62            | 21.30   |
|           |            | 36      | 39        | 19.80            | 19.91            | 19.68            | 21.30   |
|           |            | 75      | 0         | 19.73            | 19.77            | 19.56            | 21.30   |
|           | 16QAM      | 1       | 0         | 19.83            | 19.48            | 19.68            | 21.30   |
|           |            | 1       | 38        | 19.83            | 19.59            | 19.71            | 21.30   |
|           |            | 1       | 74        | 20.20            | 19.87            | 19.95            | 21.30   |
|           |            | 36      | 0         | 19.55            | 19.73            | 19.47            | 21.30   |
|           |            | 36      | 18        | 19.61            | 19.80            | 19.83            | 21.30   |
|           |            | 36      | 39        | 19.58            | 19.70            | 19.83            | 21.30   |
|           |            | 75      | 0         | 19.90            | 19.76            | 19.63            | 21.30   |
|           | 64QAM      | 1       | 0         | 19.79            | 19.70            | 19.69            | 21.30   |
|           |            | 1       | 38        | 19.53            | 20.32            | 19.68            | 21.30   |
|           |            | 1       | 74        | 19.91            | 19.75            | 19.84            | 21.30   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 0         | 19.44   | 19.86   | 19.70   | 21.30   |
|           |            | 36      | 18        | 19.86   | 19.68   | 19.72   | 21.30   |
|           |            | 36      | 39        | 19.68   | 19.89   | 19.91   | 21.30   |
|           |            | 75      | 0         | 19.72   | 19.81   | 19.72   | 21.30   |
|           | 256QAM     | 1       | 0         | 19.17   | 19.47   | 19.39   | 19.80   |
|           |            | 1       | 38        | 19.42   | 19.24   | 19.44   | 19.80   |
|           |            | 1       | 74        | 19.68   | 19.59   | 19.34   | 19.80   |
|           |            | 36      | 0         | 19.07   | 19.46   | 19.43   | 19.80   |
|           |            | 36      | 18        | 19.52   | 19.30   | 19.42   | 19.80   |
|           |            | 36      | 39        | 19.52   | 19.59   | 19.52   | 19.80   |
|           |            | 75      | 0         | 19.35   | 19.34   | 19.41   | 19.80   |
|           |            |         |           |         |         |         |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20050   | 20175   | 20300   |         |
| 20MHz     | QPSK       | 1       | 0         | 19.52   | 19.99   | 19.44   | 21.30   |
|           |            | 1       | 50        | 19.68   | 19.69   | 19.77   | 21.30   |
|           |            | 1       | 99        | 19.62   | 19.69   | 19.55   | 21.30   |
|           |            | 50      | 0         | 19.53   | 19.68   | 19.65   | 21.30   |
|           |            | 50      | 25        | 19.64   | 19.85   | 19.74   | 21.30   |
|           |            | 50      | 50        | 19.72   | 19.82   | 19.75   | 21.30   |
|           |            | 100     | 0         | 19.71   | 19.77   | 19.70   | 21.30   |
|           | 16QAM      | 1       | 0         | 19.79   | 19.59   | 19.55   | 21.30   |
|           |            | 1       | 50        | 19.71   | 19.64   | 19.65   | 21.30   |
|           |            | 1       | 99        | 20.05   | 19.74   | 19.87   | 21.30   |
|           |            | 50      | 0         | 19.66   | 19.68   | 19.62   | 21.30   |
|           |            | 50      | 25        | 19.74   | 19.77   | 19.79   | 21.30   |
|           |            | 50      | 50        | 19.70   | 19.84   | 19.79   | 21.30   |
|           |            | 100     | 0         | 19.76   | 19.69   | 19.71   | 21.30   |
|           | 64QAM      | 1       | 0         | 19.77   | 19.76   | 19.68   | 21.30   |
|           |            | 1       | 50        | 19.50   | 20.19   | 19.67   | 21.30   |
|           |            | 1       | 99        | 20.00   | 19.77   | 19.71   | 21.30   |
|           |            | 50      | 0         | 19.46   | 19.78   | 19.59   | 21.30   |
|           |            | 50      | 25        | 19.73   | 19.75   | 19.81   | 21.30   |
|           |            | 50      | 50        | 19.73   | 19.79   | 19.77   | 21.30   |
|           |            | 100     | 0         | 19.66   | 19.75   | 19.74   | 21.30   |
|           | 256QAM     | 1       | 0         | 19.21   | 19.39   | 19.48   | 19.80   |
|           |            | 1       | 50        | 19.34   | 19.36   | 19.32   | 19.80   |
|           |            | 1       | 99        | 19.68   | 19.53   | 19.36   | 19.80   |
|           |            | 50      | 0         | 19.13   | 19.57   | 19.42   | 19.80   |
|           |            | 50      | 25        | 19.48   | 19.36   | 19.40   | 19.80   |
|           |            | 50      | 50        | 19.38   | 19.56   | 19.53   | 19.80   |
|           |            | 100     | 0         | 19.42   | 19.34   | 19.39   | 19.80   |

| LTE Band 4 DSI 7 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz           | QPSK       | 1       | 0         | 23.47                | 23.71   | 23.40   | 24.80   |
|                  |            | 1       | 2         | 23.21                | 23.39   | 23.63   | 24.80   |
|                  |            | 1       | 5         | 23.12                | 23.66   | 23.34   | 24.80   |
|                  |            | 3       | 0         | 23.34                | 23.44   | 23.31   | 24.80   |
|                  |            | 3       | 2         | 23.24                | 23.28   | 23.46   | 24.80   |
|                  |            | 3       | 3         | 23.32                | 23.36   | 23.47   | 24.80   |
|                  |            | 6       | 0         | 22.45                | 22.50   | 22.30   | 23.80   |
|                  | 16QAM      | 1       | 0         | 22.65                | 22.55   | 22.99   | 23.80   |
|                  |            | 1       | 2         | 23.01                | 22.37   | 22.77   | 23.80   |
|                  |            | 1       | 5         | 23.00                | 22.62   | 22.89   | 23.80   |
|                  |            | 3       | 0         | 22.19                | 22.27   | 22.30   | 23.80   |
|                  |            | 3       | 2         | 22.41                | 22.26   | 22.42   | 23.80   |
|                  |            | 3       | 3         | 22.24                | 22.33   | 22.55   | 23.80   |
|                  |            | 6       | 0         | 21.48                | 21.40   | 21.51   | 22.80   |
|                  | 64QAM      | 1       | 0         | 21.70                | 21.53   | 21.85   | 22.80   |
|                  |            | 1       | 2         | 21.80                | 22.03   | 21.97   | 22.80   |
|                  |            | 1       | 5         | 22.12                | 21.83   | 21.74   | 22.80   |
|                  |            | 3       | 0         | 21.46                | 21.22   | 21.33   | 22.80   |
|                  |            | 3       | 2         | 21.33                | 21.19   | 21.29   | 22.80   |
|                  |            | 3       | 3         | 21.38                | 21.27   | 21.37   | 22.80   |
|                  |            | 6       | 0         | 20.44                | 20.31   | 20.25   | 21.80   |
|                  | 256QAM     | 1       | 0         | 20.05                | 20.13   | 20.19   | 20.80   |
|                  |            | 1       | 2         | 19.83                | 20.26   | 20.04   | 20.80   |
|                  |            | 1       | 5         | 20.52                | 20.41   | 20.41   | 20.80   |
|                  |            | 3       | 0         | 20.48                | 20.36   | 20.13   | 20.80   |
|                  |            | 3       | 2         | 20.27                | 20.28   | 20.57   | 20.80   |
|                  |            | 3       | 3         | 20.29                | 20.44   | 20.36   | 20.80   |
|                  |            | 6       | 0         | 20.25                | 20.41   | 20.23   | 20.80   |
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 19965                | 20175   | 20385   |         |
| 3MHz             | QPSK       | 1       | 0         | 23.49                | 23.84   | 23.42   | 24.80   |
|                  |            | 1       | 7         | 23.49                | 23.40   | 23.52   | 24.80   |
|                  |            | 1       | 14        | 23.02                | 23.63   | 23.37   | 24.80   |
|                  |            | 8       | 0         | 22.51                | 22.30   | 22.33   | 23.80   |
|                  |            | 8       | 4         | 22.53                | 22.50   | 22.35   | 23.80   |
|                  |            | 8       | 7         | 22.26                | 22.56   | 22.49   | 23.80   |
|                  |            | 15      | 0         | 22.47                | 22.32   | 22.54   | 23.80   |
|                  | 16QAM      | 1       | 0         | 22.61                | 22.67   | 22.85   | 23.80   |
|                  |            | 1       | 7         | 22.89                | 22.53   | 22.85   | 23.80   |
|                  |            | 1       | 14        | 23.03                | 22.59   | 23.06   | 23.80   |
|                  |            | 8       | 0         | 21.32                | 21.42   | 21.27   | 22.80   |
|                  |            | 8       | 4         | 21.30                | 21.33   | 21.33   | 22.80   |
|                  |            | 8       | 7         | 21.43                | 21.34   | 21.26   | 22.80   |

|           |            | 15      | 0         | 21.25   | 21.28   | 21.39   | 22.80   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 64QAM      | 1       | 0         | 21.76   | 21.62   | 21.75   | 22.80   |
|           |            | 1       | 7         | 21.82   | 21.99   | 21.94   | 22.80   |
|           |            | 1       | 14        | 21.91   | 21.90   | 21.87   | 22.80   |
|           |            | 8       | 0         | 20.35   | 20.33   | 20.33   | 21.80   |
|           |            | 8       | 4         | 20.39   | 20.43   | 20.27   | 21.80   |
|           |            | 8       | 7         | 20.27   | 20.35   | 20.40   | 21.80   |
|           |            | 15      | 0         | 20.41   | 20.40   | 20.30   | 21.80   |
|           | 256QAM     | 1       | 0         | 20.05   | 20.12   | 20.18   | 20.80   |
|           |            | 1       | 7         | 19.81   | 20.22   | 20.00   | 20.80   |
|           |            | 1       | 14        | 20.42   | 20.54   | 20.48   | 20.80   |
|           |            | 8       | 0         | 20.48   | 20.25   | 20.20   | 20.80   |
|           |            | 8       | 4         | 20.29   | 20.51   | 20.38   | 20.80   |
|           |            | 8       | 7         | 20.38   | 20.53   | 20.44   | 20.80   |
|           |            | 15      | 0         | 20.47   | 20.46   | 20.39   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.48   | 23.66   | 23.41   | 24.80   |
|           |            | 1       | 13        | 23.41   | 23.46   | 23.60   | 24.80   |
|           |            | 1       | 24        | 23.07   | 23.76   | 23.55   | 24.80   |
|           |            | 12      | 0         | 22.45   | 22.47   | 22.36   | 23.80   |
|           |            | 12      | 6         | 22.29   | 22.45   | 22.29   | 23.80   |
|           |            | 12      | 13        | 22.47   | 22.53   | 22.36   | 23.80   |
|           |            | 25      | 0         | 22.40   | 22.27   | 22.38   | 23.80   |
|           | 16QAM      | 1       | 0         | 22.73   | 22.68   | 22.84   | 23.80   |
|           |            | 1       | 13        | 22.73   | 22.43   | 22.72   | 23.80   |
|           |            | 1       | 24        | 23.08   | 22.77   | 23.07   | 23.80   |
|           |            | 12      | 0         | 21.41   | 21.31   | 21.46   | 22.80   |
|           |            | 12      | 6         | 21.59   | 21.24   | 21.35   | 22.80   |
|           |            | 12      | 13        | 21.39   | 21.19   | 21.48   | 22.80   |
|           |            | 25      | 0         | 21.25   | 21.33   | 21.36   | 22.80   |
|           | 64QAM      | 1       | 0         | 21.75   | 21.67   | 21.68   | 22.80   |
|           |            | 1       | 13        | 21.86   | 21.87   | 22.06   | 22.80   |
|           |            | 1       | 24        | 21.96   | 22.07   | 21.73   | 22.80   |
|           |            | 12      | 0         | 20.34   | 20.46   | 20.27   | 21.80   |
|           |            | 12      | 6         | 20.35   | 20.36   | 20.42   | 21.80   |
|           |            | 12      | 13        | 20.45   | 20.35   | 20.32   | 21.80   |
|           |            | 25      | 0         | 20.31   | 20.37   | 20.22   | 21.80   |
|           | 256QAM     | 1       | 0         | 20.04   | 20.05   | 20.04   | 20.80   |
|           |            | 1       | 13        | 19.91   | 20.12   | 20.07   | 20.80   |
|           |            | 1       | 24        | 20.57   | 20.80   | 20.32   | 20.80   |
|           |            | 12      | 0         | 20.34   | 20.33   | 20.30   | 20.80   |
|           |            | 12      | 6         | 20.29   | 20.45   | 20.51   | 20.80   |
|           |            | 12      | 13        | 20.22   | 20.43   | 20.54   | 20.80   |
|           |            | 25      | 0         | 20.21   | 20.43   | 20.31   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |

|           |            |         |           |                  |                  |                  |         |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
| 10MHz     | QPSK       | 1       | 0         | 23.45            | 23.69            | 23.40            | 24.80   |
|           |            | 1       | 25        | 23.37            | 23.59            | 23.35            | 24.80   |
|           |            | 1       | 49        | 22.93            | 23.70            | 23.32            | 24.80   |
|           |            | 25      | 0         | 22.26            | 22.36            | 22.17            | 23.80   |
|           |            | 25      | 13        | 22.38            | 22.33            | 22.34            | 23.80   |
|           |            | 25      | 25        | 22.43            | 22.39            | 22.52            | 23.80   |
|           |            | 50      | 0         | 22.32            | 22.28            | 22.45            | 23.80   |
|           | 16QAM      | 1       | 0         | 22.71            | 22.70            | 22.71            | 23.80   |
|           |            | 1       | 25        | 22.80            | 22.37            | 22.74            | 23.80   |
|           |            | 1       | 49        | 22.83            | 22.79            | 22.93            | 23.80   |
|           |            | 25      | 0         | 21.27            | 21.35            | 21.35            | 22.80   |
|           |            | 25      | 13        | 21.35            | 21.48            | 21.41            | 22.80   |
|           |            | 25      | 25        | 21.26            | 21.19            | 21.40            | 22.80   |
|           |            | 50      | 0         | 21.20            | 21.49            | 21.58            | 22.80   |
|           | 64QAM      | 1       | 0         | 21.70            | 21.64            | 21.81            | 22.80   |
|           |            | 1       | 25        | 21.82            | 21.87            | 22.05            | 22.80   |
|           |            | 1       | 49        | 21.96            | 21.93            | 21.95            | 22.80   |
|           |            | 25      | 0         | 20.28            | 20.41            | 20.44            | 21.80   |
|           |            | 25      | 13        | 20.49            | 20.40            | 20.38            | 21.80   |
|           |            | 25      | 25        | 20.43            | 20.48            | 20.44            | 21.80   |
|           |            | 50      | 0         | 20.36            | 20.28            | 20.38            | 21.80   |
|           | 256QAM     | 1       | 0         | 20.02            | 20.07            | 20.05            | 20.80   |
|           |            | 1       | 25        | 19.91            | 20.23            | 20.15            | 20.80   |
|           |            | 1       | 49        | 20.39            | 20.68            | 20.43            | 20.80   |
|           |            | 25      | 0         | 20.46            | 20.42            | 20.20            | 20.80   |
|           |            | 25      | 13        | 20.24            | 20.25            | 20.55            | 20.80   |
|           |            | 25      | 25        | 20.28            | 20.41            | 20.25            | 20.80   |
|           |            | 50      | 0         | 20.22            | 20.45            | 20.41            | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20025 | Channel<br>20175 | Channel<br>20325 | Tune up |
| 15MHz     | QPSK       | 1       | 0         | 23.44            | 23.59            | 23.42            | 24.80   |
|           |            | 1       | 38        | 23.47            | 23.55            | 23.51            | 24.80   |
|           |            | 1       | 74        | 22.95            | 23.54            | 23.49            | 24.80   |
|           |            | 36      | 0         | 22.32            | 22.27            | 22.17            | 23.80   |
|           |            | 36      | 18        | 22.52            | 22.34            | 22.49            | 23.80   |
|           |            | 36      | 39        | 22.41            | 22.61            | 22.50            | 23.80   |
|           |            | 75      | 0         | 22.43            | 22.26            | 22.34            | 23.80   |
|           | 16QAM      | 1       | 0         | 22.67            | 22.80            | 22.78            | 23.80   |
|           |            | 1       | 38        | 23.00            | 22.51            | 22.74            | 23.80   |
|           |            | 1       | 74        | 22.98            | 22.67            | 22.84            | 23.80   |
|           |            | 36      | 0         | 21.44            | 21.36            | 21.49            | 22.80   |
|           |            | 36      | 18        | 21.49            | 21.38            | 21.43            | 22.80   |
|           |            | 36      | 39        | 21.27            | 21.25            | 21.51            | 22.80   |
|           |            | 75      | 0         | 21.23            | 21.34            | 21.53            | 22.80   |
|           | 64QAM      | 1       | 0         | 21.68            | 21.49            | 21.68            | 22.80   |
|           |            | 1       | 38        | 21.81            | 21.90            | 21.96            | 22.80   |
|           |            | 1       | 74        | 22.07            | 21.95            | 21.71            | 22.80   |

|           |            | 36      | 0         | 20.27   | 20.30   | 20.27   | 21.80   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 18        | 20.28   | 20.19   | 20.14   | 21.80   |
|           |            | 36      | 39        | 20.30   | 20.49   | 20.28   | 21.80   |
|           |            | 75      | 0         | 20.37   | 20.42   | 20.49   | 21.80   |
|           | 256QAM     | 1       | 0         | 19.88   | 20.15   | 19.91   | 20.80   |
|           |            | 1       | 38        | 19.98   | 20.33   | 20.16   | 20.80   |
|           |            | 1       | 74        | 20.32   | 20.68   | 20.42   | 20.80   |
|           |            | 36      | 0         | 20.37   | 20.19   | 20.17   | 20.80   |
|           |            | 36      | 18        | 20.35   | 20.35   | 20.32   | 20.80   |
|           |            | 36      | 39        | 20.43   | 20.33   | 20.54   | 20.80   |
|           |            | 75      | 0         | 20.35   | 20.31   | 20.39   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20050   | 20175   | 20300   |         |
| 20MHz     | QPSK       | 1       | 0         | 23.46   | 23.71   | 23.31   | 24.80   |
|           |            | 1       | 50        | 23.35   | 23.52   | 23.50   | 24.80   |
|           |            | 1       | 99        | 23.00   | 23.66   | 23.42   | 24.80   |
|           |            | 50      | 0         | 22.36   | 22.34   | 22.30   | 23.80   |
|           |            | 50      | 25        | 22.39   | 22.49   | 22.41   | 23.80   |
|           |            | 50      | 50        | 22.41   | 22.47   | 22.48   | 23.80   |
|           |            | 100     | 0         | 22.42   | 22.38   | 22.43   | 23.80   |
|           | 16QAM      | 1       | 0         | 22.60   | 22.69   | 22.84   | 23.80   |
|           |            | 1       | 50        | 22.88   | 22.42   | 22.81   | 23.80   |
|           |            | 1       | 99        | 22.93   | 22.68   | 22.98   | 23.80   |
|           |            | 50      | 0         | 21.30   | 21.34   | 21.37   | 22.80   |
|           |            | 50      | 25        | 21.44   | 21.38   | 21.41   | 22.80   |
|           |            | 50      | 50        | 21.31   | 21.24   | 21.40   | 22.80   |
|           |            | 100     | 0         | 21.34   | 21.43   | 21.46   | 22.80   |
|           | 64QAM      | 1       | 0         | 21.79   | 21.53   | 21.80   | 22.80   |
|           |            | 1       | 50        | 21.73   | 21.92   | 22.02   | 22.80   |
|           |            | 1       | 99        | 22.01   | 21.92   | 21.84   | 22.80   |
|           |            | 50      | 0         | 20.32   | 20.32   | 20.33   | 21.80   |
|           |            | 50      | 25        | 20.36   | 20.29   | 20.28   | 21.80   |
|           |            | 50      | 50        | 20.37   | 20.39   | 20.39   | 21.80   |
|           |            | 100     | 0         | 20.37   | 20.42   | 20.36   | 21.80   |
|           | 256QAM     | 1       | 0         | 20.00   | 20.14   | 20.05   | 20.80   |
|           |            | 1       | 50        | 19.93   | 20.25   | 20.15   | 20.80   |
|           |            | 1       | 99        | 20.45   | 20.66   | 20.42   | 20.80   |
|           |            | 50      | 0         | 20.33   | 20.29   | 20.27   | 20.80   |
|           |            | 50      | 25        | 20.34   | 20.39   | 20.43   | 20.80   |
|           |            | 50      | 50        | 20.33   | 20.38   | 20.39   | 20.80   |
|           |            | 100     | 0         | 20.36   | 20.35   | 20.36   | 20.80   |

| LTE Band 7 DSI 2/3 |            |         |           | Conducted Power(dBm) |         |         |         |
|--------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz               | QPSK       | 1       | 0         | 14.36                | 14.55   | 14.57   | 16.30   |
|                    |            | 1       | 13        | 14.72                | 14.50   | 14.77   | 16.30   |
|                    |            | 1       | 24        | 14.42                | 14.45   | 14.67   | 16.30   |
|                    |            | 12      | 0         | 14.46                | 14.76   | 14.60   | 16.30   |
|                    |            | 12      | 6         | 14.50                | 14.65   | 14.69   | 16.30   |
|                    |            | 12      | 13        | 14.49                | 14.75   | 14.77   | 16.30   |
|                    |            | 25      | 0         | 14.54                | 14.67   | 14.84   | 16.30   |
|                    | 16QAM      | 1       | 0         | 14.43                | 14.53   | 14.56   | 16.30   |
|                    |            | 1       | 13        | 14.53                | 14.52   | 14.78   | 16.30   |
|                    |            | 1       | 24        | 14.31                | 14.39   | 14.81   | 16.30   |
|                    |            | 12      | 0         | 14.57                | 14.43   | 14.43   | 16.30   |
|                    |            | 12      | 6         | 14.65                | 14.39   | 14.54   | 16.30   |
|                    |            | 12      | 13        | 14.54                | 14.66   | 14.46   | 16.30   |
|                    |            | 25      | 0         | 14.49                | 14.57   | 14.52   | 16.30   |
|                    | 64QAM      | 1       | 0         | 14.60                | 14.43   | 14.66   | 16.30   |
|                    |            | 1       | 13        | 14.70                | 14.62   | 14.73   | 16.30   |
|                    |            | 1       | 24        | 14.57                | 14.58   | 14.74   | 16.30   |
|                    |            | 12      | 0         | 14.43                | 14.60   | 14.65   | 16.30   |
|                    |            | 12      | 6         | 14.60                | 14.52   | 14.67   | 16.30   |
|                    |            | 12      | 13        | 14.39                | 14.45   | 14.40   | 16.30   |
|                    |            | 25      | 0         | 14.37                | 14.60   | 14.64   | 16.30   |
|                    | 256QAM     | 1       | 0         | 14.44                | 14.46   | 14.44   | 16.30   |
|                    |            | 1       | 13        | 14.64                | 14.66   | 14.77   | 16.30   |
|                    |            | 1       | 24        | 14.53                | 14.65   | 14.53   | 16.30   |
|                    |            | 12      | 0         | 14.51                | 14.40   | 14.69   | 16.30   |
|                    |            | 12      | 6         | 14.40                | 14.57   | 14.81   | 16.30   |
|                    |            | 12      | 13        | 14.43                | 14.56   | 14.53   | 16.30   |
|                    |            | 25      | 0         | 14.39                | 14.42   | 14.50   | 16.30   |
| Bandwidth          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz              | QPSK       | 1       | 0         | 14.40                | 14.48   | 14.45   | 16.30   |
|                    |            | 1       | 25        | 14.85                | 14.57   | 14.83   | 16.30   |
|                    |            | 1       | 49        | 14.38                | 14.41   | 14.59   | 16.30   |
|                    |            | 25      | 0         | 14.47                | 14.61   | 14.62   | 16.30   |
|                    |            | 25      | 13        | 14.56                | 14.60   | 14.58   | 16.30   |
|                    |            | 25      | 25        | 14.54                | 14.64   | 14.66   | 16.30   |
|                    |            | 50      | 0         | 14.54                | 14.59   | 14.71   | 16.30   |
|                    | 16QAM      | 1       | 0         | 14.34                | 14.53   | 14.47   | 16.30   |
|                    |            | 1       | 25        | 14.29                | 14.53   | 14.76   | 16.30   |
|                    |            | 1       | 49        | 14.38                | 14.52   | 14.64   | 16.30   |
|                    |            | 25      | 0         | 14.59                | 14.36   | 14.71   | 16.30   |
|                    |            | 25      | 13        | 14.66                | 14.42   | 14.44   | 16.30   |
|                    |            | 25      | 25        | 14.60                | 14.51   | 14.55   | 16.30   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 64QAM      | 50      | 0         | 14.51   | 14.62   | 14.41   | 16.30   |
|           |            | 1       | 0         | 14.77   | 14.63   | 14.45   | 16.30   |
|           |            | 1       | 25        | 14.66   | 14.81   | 14.63   | 16.30   |
|           |            | 1       | 49        | 14.71   | 14.57   | 14.47   | 16.30   |
|           |            | 25      | 0         | 14.54   | 14.61   | 14.73   | 16.30   |
|           |            | 25      | 13        | 14.50   | 14.49   | 14.55   | 16.30   |
|           |            | 25      | 25        | 14.52   | 14.56   | 14.51   | 16.30   |
|           |            | 50      | 0         | 14.45   | 14.53   | 14.51   | 16.30   |
|           | 256QAM     | 1       | 0         | 14.71   | 14.34   | 14.51   | 16.30   |
|           |            | 1       | 25        | 14.50   | 14.70   | 14.67   | 16.30   |
|           |            | 1       | 49        | 14.33   | 14.63   | 14.51   | 16.30   |
|           |            | 25      | 0         | 14.49   | 14.49   | 14.60   | 16.30   |
|           |            | 25      | 13        | 14.66   | 14.49   | 14.78   | 16.30   |
|           |            | 25      | 25        | 14.69   | 14.40   | 14.44   | 16.30   |
|           |            | 50      | 0         | 14.38   | 14.34   | 14.64   | 16.30   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 14.61   | 14.62   | 14.64   | 16.30   |
|           |            | 1       | 38        | 14.88   | 14.75   | 14.61   | 16.30   |
|           |            | 1       | 74        | 14.50   | 14.51   | 14.83   | 16.30   |
|           |            | 36      | 0         | 14.61   | 14.73   | 14.83   | 16.30   |
|           |            | 36      | 18        | 14.42   | 14.65   | 14.58   | 16.30   |
|           |            | 36      | 39        | 14.56   | 14.56   | 14.56   | 16.30   |
|           |            | 75      | 0         | 14.43   | 14.49   | 14.65   | 16.30   |
|           | 16QAM      | 1       | 0         | 14.46   | 14.41   | 14.46   | 16.30   |
|           |            | 1       | 38        | 14.43   | 14.43   | 14.75   | 16.30   |
|           |            | 1       | 74        | 14.43   | 14.47   | 14.85   | 16.30   |
|           |            | 36      | 0         | 14.40   | 14.46   | 14.72   | 16.30   |
|           |            | 36      | 18        | 14.52   | 14.39   | 14.55   | 16.30   |
|           |            | 36      | 39        | 14.55   | 14.64   | 14.42   | 16.30   |
|           |            | 75      | 0         | 14.60   | 14.58   | 14.43   | 16.30   |
|           | 64QAM      | 1       | 0         | 14.60   | 14.61   | 14.37   | 16.30   |
|           |            | 1       | 38        | 14.58   | 14.64   | 14.69   | 16.30   |
|           |            | 1       | 74        | 14.57   | 14.73   | 14.59   | 16.30   |
|           |            | 36      | 0         | 14.49   | 14.61   | 14.47   | 16.30   |
|           |            | 36      | 18        | 14.39   | 14.52   | 14.49   | 16.30   |
|           |            | 36      | 39        | 14.55   | 14.46   | 14.42   | 16.30   |
|           |            | 75      | 0         | 14.51   | 14.38   | 14.66   | 16.30   |
|           | 256QAM     | 1       | 0         | 14.59   | 14.45   | 14.34   | 16.30   |
|           |            | 1       | 38        | 14.65   | 14.75   | 14.68   | 16.30   |
|           |            | 1       | 74        | 14.31   | 14.66   | 14.62   | 16.30   |
|           |            | 36      | 0         | 14.40   | 14.48   | 14.63   | 16.30   |
|           |            | 36      | 18        | 14.43   | 14.59   | 14.53   | 16.30   |
|           |            | 36      | 39        | 14.50   | 14.37   | 14.30   | 16.30   |
|           |            | 75      | 0         | 14.45   | 14.38   | 14.69   | 16.30   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |

|       |        |     |    |       |       |       |       |
|-------|--------|-----|----|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 14.74 | 14.75 | 14.74 | 16.30 |
|       |        | 1   | 50 | 14.73 | 14.64 | 14.68 | 16.30 |
|       |        | 1   | 99 | 14.37 | 14.50 | 14.74 | 16.30 |
|       |        | 50  | 0  | 14.53 | 14.67 | 14.72 | 16.30 |
|       |        | 50  | 25 | 14.60 | 14.75 | 14.73 | 16.30 |
|       |        | 50  | 50 | 14.59 | 14.66 | 14.67 | 16.30 |
|       |        | 100 | 0  | 14.47 | 14.64 | 14.58 | 16.30 |
|       | 16QAM  | 1   | 0  | 14.47 | 14.55 | 14.45 | 16.30 |
|       |        | 1   | 50 | 14.44 | 14.58 | 14.64 | 16.30 |
|       |        | 1   | 99 | 14.43 | 14.44 | 14.73 | 16.30 |
|       |        | 50  | 0  | 14.52 | 14.45 | 14.58 | 16.30 |
|       |        | 50  | 25 | 14.51 | 14.48 | 14.54 | 16.30 |
|       |        | 50  | 50 | 14.51 | 14.54 | 14.56 | 16.30 |
|       |        | 100 | 0  | 14.55 | 14.50 | 14.54 | 16.30 |
|       | 64QAM  | 1   | 0  | 14.63 | 14.55 | 14.52 | 16.30 |
|       |        | 1   | 50 | 14.55 | 14.67 | 14.58 | 16.30 |
|       |        | 1   | 99 | 14.63 | 14.60 | 14.61 | 16.30 |
|       |        | 50  | 0  | 14.49 | 14.51 | 14.58 | 16.30 |
|       |        | 50  | 25 | 14.50 | 14.46 | 14.62 | 16.30 |
|       |        | 50  | 50 | 14.50 | 14.51 | 14.52 | 16.30 |
|       |        | 100 | 0  | 14.48 | 14.50 | 14.66 | 16.30 |
|       | 256QAM | 1   | 0  | 14.59 | 14.48 | 14.48 | 16.30 |
|       |        | 1   | 50 | 14.55 | 14.61 | 14.63 | 16.30 |
|       |        | 1   | 99 | 14.43 | 14.66 | 14.65 | 16.30 |
|       |        | 50  | 0  | 14.50 | 14.42 | 14.65 | 16.30 |
|       |        | 50  | 25 | 14.52 | 14.51 | 14.66 | 16.30 |
|       |        | 50  | 50 | 14.54 | 14.48 | 14.43 | 16.30 |
|       |        | 100 | 0  | 14.50 | 14.46 | 14.59 | 16.30 |

| LTE Band 7 DSI 4 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz             | QPSK       | 1       | 0         | 20.54                | 20.70   | 20.76   | 22.30   |
|                  |            | 1       | 13        | 20.96                | 20.49   | 20.72   | 22.30   |
|                  |            | 1       | 24        | 20.54                | 20.56   | 20.56   | 22.30   |
|                  |            | 12      | 0         | 20.72                | 20.67   | 20.77   | 22.30   |
|                  |            | 12      | 6         | 20.60                | 20.64   | 20.79   | 22.30   |
|                  |            | 12      | 13        | 20.55                | 20.63   | 20.64   | 22.30   |
|                  |            | 25      | 0         | 20.64                | 20.58   | 20.71   | 22.30   |
|                  | 16QAM      | 1       | 0         | 20.63                | 20.39   | 20.78   | 22.30   |
|                  |            | 1       | 13        | 20.66                | 20.71   | 20.72   | 22.30   |
|                  |            | 1       | 24        | 20.69                | 20.69   | 20.63   | 22.30   |
|                  |            | 12      | 0         | 20.56                | 20.53   | 20.79   | 22.30   |
|                  |            | 12      | 6         | 20.66                | 20.67   | 20.80   | 22.30   |
|                  |            | 12      | 13        | 20.60                | 20.65   | 20.73   | 22.30   |
|                  |            | 25      | 0         | 20.57                | 20.57   | 20.81   | 22.30   |
|                  | 64QAM      | 1       | 0         | 20.44                | 20.66   | 20.73   | 22.30   |
|                  |            | 1       | 13        | 20.37                | 20.89   | 20.72   | 22.30   |
|                  |            | 1       | 24        | 20.40                | 20.62   | 20.57   | 22.30   |
|                  |            | 12      | 0         | 20.52                | 20.14   | 20.20   | 21.80   |
|                  |            | 12      | 6         | 20.63                | 20.10   | 20.29   | 21.80   |
|                  |            | 12      | 13        | 20.64                | 20.06   | 20.18   | 21.80   |
|                  |            | 25      | 0         | 20.66                | 20.14   | 20.31   | 21.80   |
|                  | 256QAM     | 1       | 0         | 20.20                | 20.28   | 20.25   | 20.80   |
|                  |            | 1       | 13        | 19.86                | 20.06   | 20.20   | 20.80   |
|                  |            | 1       | 24        | 19.63                | 20.14   | 19.11   | 20.80   |
|                  |            | 12      | 0         | 20.02                | 20.09   | 20.32   | 20.80   |
|                  |            | 12      | 6         | 20.20                | 20.16   | 20.29   | 20.80   |
|                  |            | 12      | 13        | 20.11                | 20.04   | 20.09   | 20.80   |
|                  |            | 25      | 0         | 20.12                | 20.13   | 20.34   | 20.80   |
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz            | QPSK       | 1       | 0         | 20.55                | 20.64   | 20.87   | 22.30   |
|                  |            | 1       | 25        | 20.97                | 20.62   | 20.73   | 22.30   |
|                  |            | 1       | 49        | 20.46                | 20.69   | 20.50   | 22.30   |
|                  |            | 25      | 0         | 20.86                | 20.79   | 20.85   | 22.30   |
|                  |            | 25      | 13        | 20.57                | 20.50   | 20.75   | 22.30   |
|                  |            | 25      | 25        | 20.50                | 20.76   | 20.69   | 22.30   |
|                  |            | 50      | 0         | 20.58                | 20.73   | 20.70   | 22.30   |
|                  | 16QAM      | 1       | 0         | 20.53                | 20.29   | 20.70   | 22.30   |
|                  |            | 1       | 25        | 20.74                | 20.63   | 20.76   | 22.30   |
|                  |            | 1       | 49        | 20.60                | 20.63   | 20.66   | 22.30   |
|                  |            | 25      | 0         | 20.42                | 20.49   | 20.90   | 22.30   |
|                  |            | 25      | 13        | 20.62                | 20.77   | 20.71   | 22.30   |
|                  |            | 25      | 25        | 20.51                | 20.64   | 20.58   | 22.30   |

|           |            | 50      | 0         | 20.60   | 20.49   | 20.74   | 22.30   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 64QAM      | 1       | 0         | 20.52   | 20.58   | 20.60   | 22.30   |
|           |            | 1       | 25        | 20.41   | 20.91   | 20.61   | 22.30   |
|           |            | 1       | 49        | 20.29   | 20.65   | 20.61   | 22.30   |
|           |            | 25      | 0         | 20.63   | 20.24   | 20.12   | 21.80   |
|           |            | 25      | 13        | 20.49   | 20.11   | 20.20   | 21.80   |
|           |            | 25      | 25        | 20.57   | 19.93   | 20.05   | 21.80   |
|           |            | 50      | 0         | 20.62   | 20.18   | 20.45   | 21.80   |
|           | 256QAM     | 1       | 0         | 20.28   | 20.39   | 20.11   | 20.80   |
|           |            | 1       | 25        | 19.77   | 20.11   | 20.15   | 20.80   |
|           |            | 1       | 49        | 19.78   | 20.15   | 19.19   | 20.80   |
|           |            | 25      | 0         | 20.12   | 20.02   | 20.30   | 20.80   |
|           |            | 25      | 13        | 20.33   | 20.18   | 20.17   | 20.80   |
|           |            | 25      | 25        | 20.25   | 20.00   | 19.94   | 20.80   |
|           |            | 50      | 0         | 20.23   | 20.06   | 20.46   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 20.58   | 20.76   | 20.61   | 22.30   |
|           |            | 1       | 38        | 20.97   | 20.59   | 20.75   | 22.30   |
|           |            | 1       | 74        | 20.45   | 20.56   | 20.58   | 22.30   |
|           |            | 36      | 0         | 20.59   | 20.70   | 20.66   | 22.30   |
|           |            | 36      | 18        | 20.56   | 20.68   | 20.70   | 22.30   |
|           |            | 36      | 39        | 20.41   | 20.73   | 20.67   | 22.30   |
|           |            | 75      | 0         | 20.53   | 20.70   | 20.77   | 22.30   |
|           | 16QAM      | 1       | 0         | 20.76   | 20.48   | 20.85   | 22.30   |
|           |            | 1       | 38        | 20.64   | 20.85   | 20.72   | 22.30   |
|           |            | 1       | 74        | 20.73   | 20.77   | 20.70   | 22.30   |
|           |            | 36      | 0         | 20.67   | 20.47   | 20.88   | 22.30   |
|           |            | 36      | 18        | 20.65   | 20.70   | 20.73   | 22.30   |
|           |            | 36      | 39        | 20.68   | 20.79   | 20.75   | 22.30   |
|           |            | 75      | 0         | 20.53   | 20.48   | 20.74   | 22.30   |
|           | 64QAM      | 1       | 0         | 20.53   | 20.68   | 20.62   | 22.30   |
|           |            | 1       | 38        | 20.48   | 21.04   | 20.58   | 22.30   |
|           |            | 1       | 74        | 20.54   | 20.52   | 20.65   | 22.30   |
|           |            | 36      | 0         | 20.63   | 20.26   | 20.16   | 21.80   |
|           |            | 36      | 18        | 20.71   | 20.08   | 20.38   | 21.80   |
|           |            | 36      | 39        | 20.68   | 19.96   | 20.14   | 21.80   |
|           |            | 75      | 0         | 20.72   | 20.10   | 20.20   | 21.80   |
|           | 256QAM     | 1       | 0         | 20.24   | 20.33   | 20.40   | 20.80   |
|           |            | 1       | 38        | 20.00   | 20.08   | 20.23   | 20.80   |
|           |            | 1       | 74        | 19.76   | 20.12   | 19.07   | 20.80   |
|           |            | 36      | 0         | 20.08   | 20.15   | 20.26   | 20.80   |
|           |            | 36      | 18        | 20.17   | 20.08   | 20.28   | 20.80   |
|           |            | 36      | 39        | 20.17   | 20.16   | 20.03   | 20.80   |
|           |            | 75      | 0         | 20.25   | 20.25   | 20.45   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |

|       |        |     |    |       |       |       |       |
|-------|--------|-----|----|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 20.52 | 20.59 | 20.68 | 22.30 |
|       |        | 1   | 50 | 20.96 | 20.58 | 20.66 | 22.30 |
|       |        | 1   | 99 | 20.68 | 20.49 | 20.43 | 22.30 |
|       |        | 50  | 0  | 20.83 | 20.66 | 20.80 | 22.30 |
|       |        | 50  | 25 | 20.67 | 20.67 | 20.79 | 22.30 |
|       |        | 50  | 50 | 20.62 | 20.51 | 20.68 | 22.30 |
|       |        | 100 | 0  | 20.61 | 20.60 | 20.57 | 22.30 |
|       | 16QAM  | 1   | 0  | 20.49 | 20.43 | 20.90 | 22.30 |
|       |        | 1   | 50 | 20.67 | 20.80 | 20.77 | 22.30 |
|       |        | 1   | 99 | 20.59 | 20.71 | 20.58 | 22.30 |
|       |        | 50  | 0  | 20.62 | 20.54 | 20.94 | 22.30 |
|       |        | 50  | 25 | 20.75 | 20.54 | 20.91 | 22.30 |
|       |        | 50  | 50 | 20.49 | 20.76 | 20.78 | 22.30 |
|       |        | 100 | 0  | 20.58 | 20.54 | 20.72 | 22.30 |
|       | 64QAM  | 1   | 0  | 20.47 | 20.52 | 20.60 | 22.30 |
|       |        | 1   | 50 | 20.42 | 21.02 | 20.76 | 22.30 |
|       |        | 1   | 99 | 20.28 | 20.47 | 20.70 | 22.30 |
|       |        | 50  | 0  | 20.44 | 20.04 | 20.20 | 21.80 |
|       |        | 50  | 25 | 20.70 | 20.04 | 20.42 | 21.80 |
|       |        | 50  | 50 | 20.52 | 19.93 | 20.21 | 21.80 |
|       |        | 100 | 0  | 20.67 | 20.13 | 20.39 | 21.80 |
|       | 256QAM | 1   | 0  | 20.13 | 20.25 | 20.38 | 20.80 |
|       |        | 1   | 50 | 19.89 | 20.15 | 20.08 | 20.80 |
|       |        | 1   | 99 | 19.69 | 20.07 | 19.07 | 20.80 |
|       |        | 50  | 0  | 20.10 | 20.24 | 20.30 | 20.80 |
|       |        | 50  | 25 | 20.29 | 20.21 | 20.34 | 20.80 |
|       |        | 50  | 50 | 20.16 | 19.94 | 19.97 | 20.80 |
|       |        | 100 | 0  | 19.98 | 20.28 | 20.40 | 20.80 |

| LTE Band 7 DSI 5/6 |            |         |           | Conducted Power(dBm) |         |         |         |
|--------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz               | QPSK       | 1       | 0         | 18.84                | 18.93   | 19.52   | 20.80   |
|                    |            | 1       | 13        | 19.26                | 18.80   | 18.88   | 20.80   |
|                    |            | 1       | 24        | 18.90                | 19.68   | 19.16   | 20.80   |
|                    |            | 12      | 0         | 18.92                | 18.93   | 19.08   | 20.80   |
|                    |            | 12      | 6         | 19.21                | 19.12   | 19.32   | 20.80   |
|                    |            | 12      | 13        | 18.96                | 19.07   | 19.09   | 20.80   |
|                    |            | 25      | 0         | 19.00                | 18.95   | 19.26   | 20.80   |
|                    | 16QAM      | 1       | 0         | 19.12                | 18.86   | 19.05   | 20.80   |
|                    |            | 1       | 13        | 18.71                | 19.05   | 19.10   | 20.80   |
|                    |            | 1       | 24        | 18.69                | 19.16   | 19.13   | 20.80   |
|                    |            | 12      | 0         | 18.89                | 19.07   | 19.23   | 20.80   |
|                    |            | 12      | 6         | 19.07                | 19.09   | 19.29   | 20.80   |
|                    |            | 12      | 13        | 19.03                | 19.25   | 18.96   | 20.80   |
|                    |            | 25      | 0         | 19.07                | 18.96   | 19.21   | 20.80   |
|                    | 64QAM      | 1       | 0         | 19.17                | 19.00   | 18.70   | 20.80   |
|                    |            | 1       | 13        | 19.00                | 19.13   | 18.98   | 20.80   |
|                    |            | 1       | 24        | 18.82                | 18.73   | 18.98   | 20.80   |
|                    |            | 12      | 0         | 18.93                | 19.23   | 19.05   | 20.80   |
|                    |            | 12      | 6         | 19.14                | 19.01   | 19.09   | 20.80   |
|                    |            | 12      | 13        | 18.98                | 19.18   | 19.26   | 20.80   |
|                    |            | 25      | 0         | 19.07                | 19.02   | 19.28   | 20.80   |
|                    | 256QAM     | 1       | 0         | 18.83                | 18.84   | 19.01   | 19.80   |
|                    |            | 1       | 13        | 18.76                | 19.02   | 19.27   | 19.80   |
|                    |            | 1       | 24        | 19.07                | 18.80   | 19.07   | 19.80   |
|                    |            | 12      | 0         | 19.09                | 18.97   | 18.99   | 19.80   |
|                    |            | 12      | 6         | 19.16                | 19.24   | 19.31   | 19.80   |
|                    |            | 12      | 13        | 18.99                | 18.95   | 19.20   | 19.80   |
|                    |            | 25      | 0         | 18.93                | 19.04   | 19.02   | 19.80   |
| Bandwidth          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz              | QPSK       | 1       | 0         | 18.84                | 18.90   | 19.41   | 20.80   |
|                    |            | 1       | 25        | 19.02                | 18.94   | 18.87   | 20.80   |
|                    |            | 1       | 49        | 19.11                | 19.66   | 19.09   | 20.80   |
|                    |            | 25      | 0         | 19.15                | 18.94   | 19.30   | 20.80   |
|                    |            | 25      | 13        | 19.27                | 18.91   | 19.36   | 20.80   |
|                    |            | 25      | 25        | 19.07                | 19.02   | 19.11   | 20.80   |
|                    |            | 50      | 0         | 18.98                | 18.91   | 19.04   | 20.80   |
|                    | 16QAM      | 1       | 0         | 19.34                | 19.00   | 19.16   | 20.80   |
|                    |            | 1       | 25        | 18.96                | 19.24   | 19.00   | 20.80   |
|                    |            | 1       | 49        | 18.62                | 19.14   | 19.19   | 20.80   |
|                    |            | 25      | 0         | 18.96                | 19.02   | 19.16   | 20.80   |
|                    |            | 25      | 13        | 19.17                | 19.18   | 19.21   | 20.80   |
|                    |            | 25      | 25        | 19.18                | 19.12   | 19.18   | 20.80   |

|           |            | 50      | 0         | 19.14   | 19.08   | 19.33   | 20.80   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 64QAM      | 1       | 0         | 19.08   | 19.01   | 18.46   | 20.80   |
|           |            | 1       | 25        | 18.94   | 19.31   | 18.99   | 20.80   |
|           |            | 1       | 49        | 18.75   | 18.99   | 18.83   | 20.80   |
|           |            | 25      | 0         | 19.08   | 19.19   | 19.07   | 20.80   |
|           |            | 25      | 13        | 19.04   | 19.07   | 19.14   | 20.80   |
|           |            | 25      | 25        | 19.11   | 19.08   | 19.22   | 20.80   |
|           |            | 50      | 0         | 19.19   | 19.02   | 19.20   | 20.80   |
|           | 256QAM     | 1       | 0         | 18.88   | 18.96   | 18.83   | 19.80   |
|           |            | 1       | 25        | 18.79   | 18.97   | 19.35   | 19.80   |
|           |            | 1       | 49        | 19.01   | 19.03   | 18.98   | 19.80   |
|           |            | 25      | 0         | 18.98   | 18.95   | 18.98   | 19.80   |
|           |            | 25      | 13        | 19.02   | 19.14   | 19.24   | 19.80   |
|           |            | 25      | 25        | 19.23   | 19.00   | 19.29   | 19.80   |
|           |            | 50      | 0         | 19.01   | 19.04   | 19.29   | 19.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 18.98   | 19.05   | 19.44   | 20.80   |
|           |            | 1       | 38        | 18.98   | 18.87   | 19.06   | 20.80   |
|           |            | 1       | 74        | 18.88   | 19.55   | 18.99   | 20.80   |
|           |            | 36      | 0         | 19.11   | 19.23   | 19.30   | 20.80   |
|           |            | 36      | 18        | 19.00   | 19.14   | 19.24   | 20.80   |
|           |            | 36      | 39        | 18.90   | 19.11   | 19.21   | 20.80   |
|           |            | 75      | 0         | 19.05   | 19.06   | 19.23   | 20.80   |
|           | 16QAM      | 1       | 0         | 19.22   | 18.95   | 19.03   | 20.80   |
|           |            | 1       | 38        | 18.66   | 19.14   | 19.07   | 20.80   |
|           |            | 1       | 74        | 18.65   | 19.01   | 19.02   | 20.80   |
|           |            | 36      | 0         | 19.16   | 19.06   | 19.25   | 20.80   |
|           |            | 36      | 18        | 19.22   | 18.90   | 19.25   | 20.80   |
|           |            | 36      | 39        | 19.12   | 19.21   | 19.19   | 20.80   |
|           |            | 75      | 0         | 19.08   | 19.02   | 19.27   | 20.80   |
|           | 64QAM      | 1       | 0         | 19.01   | 18.98   | 18.68   | 20.80   |
|           |            | 1       | 38        | 19.01   | 19.25   | 19.24   | 20.80   |
|           |            | 1       | 74        | 18.92   | 18.74   | 18.90   | 20.80   |
|           |            | 36      | 0         | 19.19   | 19.14   | 19.20   | 20.80   |
|           |            | 36      | 18        | 18.93   | 19.16   | 19.05   | 20.80   |
|           |            | 36      | 39        | 19.07   | 19.07   | 19.24   | 20.80   |
|           |            | 75      | 0         | 19.14   | 19.19   | 19.24   | 20.80   |
|           | 256QAM     | 1       | 0         | 18.69   | 18.75   | 18.89   | 19.80   |
|           |            | 1       | 38        | 18.62   | 19.17   | 19.36   | 19.80   |
|           |            | 1       | 74        | 19.11   | 19.05   | 18.84   | 19.80   |
|           |            | 36      | 0         | 19.09   | 19.05   | 19.15   | 19.80   |
|           |            | 36      | 18        | 19.14   | 19.28   | 19.16   | 19.80   |
|           |            | 36      | 39        | 19.12   | 19.03   | 19.22   | 19.80   |
|           |            | 75      | 0         | 19.13   | 19.06   | 19.04   | 19.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |

|       |        |     |    |       |       |       |       |
|-------|--------|-----|----|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 18.96 | 19.59 | 19.44 | 20.80 |
|       |        | 1   | 50 | 19.11 | 18.92 | 19.01 | 20.80 |
|       |        | 1   | 99 | 19.01 | 19.59 | 19.07 | 20.80 |
|       |        | 50  | 0  | 19.03 | 19.08 | 19.18 | 20.80 |
|       |        | 50  | 25 | 19.12 | 19.24 | 19.23 | 20.80 |
|       |        | 50  | 50 | 18.97 | 18.99 | 19.07 | 20.80 |
|       |        | 100 | 0  | 19.07 | 19.06 | 19.18 | 20.80 |
|       | 16QAM  | 1   | 0  | 19.20 | 18.99 | 19.10 | 20.80 |
|       |        | 1   | 50 | 18.81 | 19.19 | 19.14 | 20.80 |
|       |        | 1   | 99 | 18.75 | 19.02 | 19.07 | 20.80 |
|       |        | 50  | 0  | 19.03 | 19.05 | 19.22 | 20.80 |
|       |        | 50  | 25 | 19.10 | 19.04 | 19.23 | 20.80 |
|       |        | 50  | 50 | 19.05 | 19.11 | 19.10 | 20.80 |
|       |        | 100 | 0  | 19.06 | 19.10 | 19.26 | 20.80 |
|       | 64QAM  | 1   | 0  | 19.08 | 18.93 | 18.58 | 20.80 |
|       |        | 1   | 50 | 18.88 | 19.27 | 19.10 | 20.80 |
|       |        | 1   | 99 | 18.81 | 18.88 | 18.87 | 20.80 |
|       |        | 50  | 0  | 19.08 | 19.13 | 19.19 | 20.80 |
|       |        | 50  | 25 | 19.07 | 19.15 | 19.19 | 20.80 |
|       |        | 50  | 50 | 19.03 | 19.07 | 19.14 | 20.80 |
|       |        | 100 | 0  | 19.13 | 19.13 | 19.17 | 20.80 |
|       | 256QAM | 1   | 0  | 18.75 | 18.88 | 18.94 | 19.80 |
|       |        | 1   | 50 | 18.66 | 19.05 | 19.22 | 19.80 |
|       |        | 1   | 99 | 19.12 | 18.95 | 18.99 | 19.80 |
|       |        | 50  | 0  | 19.00 | 18.99 | 19.00 | 19.80 |
|       |        | 50  | 25 | 19.12 | 19.13 | 19.24 | 19.80 |
|       |        | 50  | 50 | 19.08 | 19.07 | 19.15 | 19.80 |
|       |        | 100 | 0  | 19.08 | 19.13 | 19.16 | 19.80 |

| LTE Band 7 DSI 7 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz             | QPSK       | 1       | 0         | 21.72                | 21.40   | 21.82   | 23.30   |
|                  |            | 1       | 13        | 21.79                | 21.94   | 21.50   | 23.30   |
|                  |            | 1       | 24        | 21.49                | 21.64   | 21.81   | 23.30   |
|                  |            | 12      | 0         | 21.40                | 21.44   | 21.89   | 23.30   |
|                  |            | 12      | 6         | 21.78                | 21.61   | 21.65   | 23.30   |
|                  |            | 12      | 13        | 21.62                | 21.62   | 21.64   | 23.30   |
|                  |            | 25      | 0         | 21.42                | 21.52   | 21.61   | 23.30   |
|                  | 16QAM      | 1       | 0         | 21.60                | 21.40   | 21.50   | 23.30   |
|                  |            | 1       | 13        | 21.48                | 21.46   | 21.26   | 23.30   |
|                  |            | 1       | 24        | 21.75                | 21.48   | 21.92   | 23.30   |
|                  |            | 12      | 0         | 20.92                | 20.97   | 21.06   | 22.80   |
|                  |            | 12      | 6         | 21.10                | 21.30   | 21.08   | 22.80   |
|                  |            | 12      | 13        | 21.11                | 21.03   | 21.00   | 22.80   |
|                  |            | 25      | 0         | 21.20                | 21.01   | 21.08   | 22.80   |
|                  | 64QAM      | 1       | 0         | 21.40                | 21.54   | 21.83   | 22.80   |
|                  |            | 1       | 13        | 21.58                | 21.55   | 21.16   | 22.80   |
|                  |            | 1       | 24        | 21.47                | 21.54   | 22.00   | 22.80   |
|                  |            | 12      | 0         | 20.17                | 20.06   | 20.38   | 21.80   |
|                  |            | 12      | 6         | 19.96                | 20.11   | 20.25   | 21.80   |
|                  |            | 12      | 13        | 20.12                | 20.05   | 20.07   | 21.80   |
|                  |            | 25      | 0         | 19.98                | 20.17   | 20.32   | 21.80   |
|                  | 256QAM     | 1       | 0         | 19.89                | 20.01   | 19.94   | 20.80   |
|                  |            | 1       | 13        | 19.84                | 20.09   | 20.01   | 20.80   |
|                  |            | 1       | 24        | 19.94                | 20.07   | 20.23   | 20.80   |
|                  |            | 12      | 0         | 20.06                | 20.15   | 20.06   | 20.80   |
|                  |            | 12      | 6         | 20.16                | 20.23   | 20.27   | 20.80   |
|                  |            | 12      | 13        | 20.03                | 20.20   | 20.03   | 20.80   |
|                  |            | 25      | 0         | 20.01                | 19.99   | 20.17   | 20.80   |
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz            | QPSK       | 1       | 0         | 21.74                | 21.52   | 21.91   | 23.30   |
|                  |            | 1       | 25        | 22.04                | 21.94   | 21.52   | 23.30   |
|                  |            | 1       | 49        | 21.41                | 21.44   | 21.96   | 23.30   |
|                  |            | 25      | 0         | 21.63                | 21.47   | 21.72   | 23.30   |
|                  |            | 25      | 13        | 21.76                | 21.51   | 21.86   | 23.30   |
|                  |            | 25      | 25        | 21.66                | 21.54   | 21.67   | 23.30   |
|                  |            | 50      | 0         | 21.70                | 21.54   | 21.89   | 23.30   |
|                  | 16QAM      | 1       | 0         | 21.59                | 21.56   | 21.59   | 23.30   |
|                  |            | 1       | 25        | 21.21                | 21.45   | 21.41   | 23.30   |
|                  |            | 1       | 49        | 21.72                | 21.46   | 21.77   | 23.30   |
|                  |            | 25      | 0         | 20.97                | 21.03   | 21.04   | 22.80   |
|                  |            | 25      | 13        | 21.07                | 21.02   | 21.19   | 22.80   |
|                  |            | 25      | 25        | 20.99                | 20.93   | 21.15   | 22.80   |

|           |            | 50      | 0         | 21.05   | 21.12   | 21.16   | 22.80   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 64QAM      | 1       | 0         | 21.37   | 21.49   | 21.66   | 22.80   |
|           |            | 1       | 25        | 21.66   | 21.76   | 21.40   | 22.80   |
|           |            | 1       | 49        | 21.48   | 21.69   | 22.02   | 22.80   |
|           |            | 25      | 0         | 20.15   | 20.20   | 20.21   | 21.80   |
|           |            | 25      | 13        | 19.98   | 20.14   | 20.31   | 21.80   |
|           |            | 25      | 25        | 20.20   | 19.94   | 20.18   | 21.80   |
|           |            | 50      | 0         | 20.24   | 20.05   | 20.29   | 21.80   |
|           | 256QAM     | 1       | 0         | 19.83   | 19.85   | 20.03   | 20.80   |
|           |            | 1       | 25        | 19.80   | 20.27   | 19.90   | 20.80   |
|           |            | 1       | 49        | 20.05   | 19.84   | 20.15   | 20.80   |
|           |            | 25      | 0         | 19.84   | 20.03   | 20.20   | 20.80   |
|           |            | 25      | 13        | 20.11   | 20.22   | 20.33   | 20.80   |
|           |            | 25      | 25        | 20.24   | 19.97   | 20.22   | 20.80   |
|           |            | 50      | 0         | 20.25   | 20.16   | 20.12   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 21.69   | 21.64   | 21.74   | 23.30   |
|           |            | 1       | 38        | 21.81   | 21.89   | 21.52   | 23.30   |
|           |            | 1       | 74        | 21.56   | 21.60   | 22.02   | 23.30   |
|           |            | 36      | 0         | 21.40   | 21.42   | 21.59   | 23.30   |
|           |            | 36      | 18        | 21.73   | 21.48   | 21.80   | 23.30   |
|           |            | 36      | 39        | 21.70   | 21.54   | 21.63   | 23.30   |
|           |            | 75      | 0         | 21.56   | 21.67   | 21.71   | 23.30   |
|           | 16QAM      | 1       | 0         | 21.44   | 21.33   | 21.55   | 23.30   |
|           |            | 1       | 38        | 21.25   | 21.51   | 21.40   | 23.30   |
|           |            | 1       | 74        | 21.68   | 21.55   | 21.90   | 23.30   |
|           |            | 36      | 0         | 21.20   | 21.12   | 21.11   | 22.80   |
|           |            | 36      | 18        | 21.22   | 21.02   | 21.28   | 22.80   |
|           |            | 36      | 39        | 21.07   | 21.03   | 21.14   | 22.80   |
|           |            | 75      | 0         | 21.06   | 21.06   | 21.17   | 22.80   |
|           | 64QAM      | 1       | 0         | 21.44   | 21.62   | 21.76   | 22.80   |
|           |            | 1       | 38        | 21.69   | 21.66   | 21.17   | 22.80   |
|           |            | 1       | 74        | 21.42   | 21.58   | 22.02   | 22.80   |
|           |            | 36      | 0         | 20.08   | 20.25   | 20.38   | 21.80   |
|           |            | 36      | 18        | 20.09   | 19.95   | 20.26   | 21.80   |
|           |            | 36      | 39        | 20.09   | 20.04   | 19.98   | 21.80   |
|           |            | 75      | 0         | 20.09   | 20.25   | 20.30   | 21.80   |
|           | 256QAM     | 1       | 0         | 19.91   | 19.93   | 19.85   | 20.80   |
|           |            | 1       | 38        | 20.01   | 20.14   | 19.98   | 20.80   |
|           |            | 1       | 74        | 19.86   | 20.04   | 20.14   | 20.80   |
|           |            | 36      | 0         | 19.88   | 20.17   | 20.04   | 20.80   |
|           |            | 36      | 18        | 20.20   | 20.25   | 20.10   | 20.80   |
|           |            | 36      | 39        | 20.30   | 20.01   | 20.12   | 20.80   |
|           |            | 75      | 0         | 20.14   | 19.98   | 20.35   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |

|       |        |     |    |       |       |       |       |
|-------|--------|-----|----|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 21.70 | 22.00 | 21.78 | 23.30 |
|       |        | 1   | 50 | 21.94 | 21.49 | 21.53 | 23.30 |
|       |        | 1   | 99 | 21.54 | 21.54 | 21.88 | 23.30 |
|       |        | 50  | 0  | 21.51 | 21.54 | 21.74 | 23.30 |
|       |        | 50  | 25 | 21.63 | 21.76 | 21.75 | 23.30 |
|       |        | 50  | 50 | 21.55 | 21.58 | 21.65 | 23.30 |
|       |        | 100 | 0  | 21.57 | 21.53 | 21.74 | 23.30 |
|       | 16QAM  | 1   | 0  | 21.52 | 21.44 | 21.59 | 23.30 |
|       |        | 1   | 50 | 21.36 | 21.47 | 21.40 | 23.30 |
|       |        | 1   | 99 | 21.62 | 21.61 | 21.77 | 23.30 |
|       |        | 50  | 0  | 21.06 | 21.00 | 21.14 | 22.80 |
|       |        | 50  | 25 | 21.10 | 21.16 | 21.22 | 22.80 |
|       |        | 50  | 50 | 21.02 | 21.08 | 21.12 | 22.80 |
|       |        | 100 | 0  | 21.12 | 21.12 | 21.23 | 22.80 |
|       | 64QAM  | 1   | 0  | 21.43 | 21.63 | 21.79 | 22.80 |
|       |        | 1   | 50 | 21.65 | 21.61 | 21.31 | 22.80 |
|       |        | 1   | 99 | 21.47 | 21.63 | 21.94 | 22.80 |
|       |        | 50  | 0  | 20.07 | 20.13 | 20.25 | 21.80 |
|       |        | 50  | 25 | 20.10 | 20.09 | 20.20 | 21.80 |
|       |        | 50  | 50 | 20.08 | 20.00 | 20.06 | 21.80 |
|       |        | 100 | 0  | 20.10 | 20.13 | 20.23 | 21.80 |
|       | 256QAM | 1   | 0  | 19.93 | 19.91 | 20.00 | 20.80 |
|       |        | 1   | 50 | 19.86 | 20.13 | 19.95 | 20.80 |
|       |        | 1   | 99 | 19.99 | 19.98 | 20.29 | 20.80 |
|       |        | 50  | 0  | 19.95 | 20.05 | 20.18 | 20.80 |
|       |        | 50  | 25 | 20.18 | 20.10 | 20.22 | 20.80 |
|       |        | 50  | 50 | 20.15 | 20.10 | 20.14 | 20.80 |
|       |        | 100 | 0  | 20.16 | 20.06 | 20.23 | 20.80 |

| LTE Band 38 DSI 2/3 |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz                | QPSK       | 1       | 0         | 17.42                | 17.21   | 17.23   | 18.80   |
|                     |            | 1       | 13        | 17.60                | 17.33   | 17.02   | 18.80   |
|                     |            | 1       | 24        | 17.12                | 17.23   | 17.15   | 18.80   |
|                     |            | 12      | 0         | 17.63                | 17.43   | 16.82   | 18.80   |
|                     |            | 12      | 6         | 16.96                | 16.87   | 17.35   | 18.80   |
|                     |            | 12      | 13        | 17.08                | 17.46   | 17.26   | 18.80   |
|                     |            | 25      | 0         | 17.33                | 17.52   | 17.39   | 18.80   |
|                     | 16QAM      | 1       | 0         | 17.44                | 16.91   | 17.34   | 18.80   |
|                     |            | 1       | 13        | 17.42                | 17.36   | 16.82   | 18.80   |
|                     |            | 1       | 24        | 17.46                | 17.28   | 16.86   | 18.80   |
|                     |            | 12      | 0         | 17.59                | 17.50   | 17.36   | 18.80   |
|                     |            | 12      | 6         | 17.62                | 17.55   | 17.03   | 18.80   |
|                     |            | 12      | 13        | 17.58                | 17.40   | 17.29   | 18.80   |
|                     |            | 25      | 0         | 17.33                | 17.35   | 17.34   | 18.80   |
|                     | 64QAM      | 1       | 0         | 17.26                | 17.34   | 17.23   | 18.80   |
|                     |            | 1       | 13        | 16.90                | 17.51   | 17.13   | 18.80   |
|                     |            | 1       | 24        | 17.26                | 17.11   | 17.04   | 18.80   |
|                     |            | 12      | 0         | 17.48                | 17.67   | 17.47   | 18.80   |
|                     |            | 12      | 6         | 17.49                | 17.29   | 17.47   | 18.80   |
|                     |            | 12      | 13        | 17.39                | 17.28   | 17.28   | 18.80   |
|                     |            | 25      | 0         | 17.40                | 17.52   | 16.92   | 18.80   |
|                     | 256QAM     | 1       | 0         | 17.43                | 17.19   | 17.40   | 18.80   |
|                     |            | 1       | 13        | 17.52                | 17.47   | 17.51   | 18.80   |
|                     |            | 1       | 24        | 17.54                | 17.42   | 17.21   | 18.80   |
|                     |            | 12      | 0         | 17.52                | 17.64   | 17.37   | 18.80   |
|                     |            | 12      | 6         | 17.34                | 16.96   | 17.33   | 18.80   |
|                     |            | 12      | 13        | 16.83                | 17.52   | 17.12   | 18.80   |
|                     |            | 25      | 0         | 17.41                | 17.28   | 17.48   | 18.80   |
| Bandwidth           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz               | QPSK       | 1       | 0         | 17.50                | 17.22   | 17.41   | 18.80   |
|                     |            | 1       | 25        | 17.34                | 17.36   | 17.18   | 18.80   |
|                     |            | 1       | 49        | 17.33                | 17.21   | 17.14   | 18.80   |
|                     |            | 25      | 0         | 17.56                | 17.49   | 16.95   | 18.80   |
|                     |            | 25      | 13        | 16.97                | 16.97   | 17.37   | 18.80   |
|                     |            | 25      | 25        | 17.05                | 17.51   | 17.23   | 18.80   |
|                     |            | 50      | 0         | 17.46                | 17.38   | 17.33   | 18.80   |
|                     | 16QAM      | 1       | 0         | 17.47                | 17.00   | 17.16   | 18.80   |
|                     |            | 1       | 25        | 17.45                | 17.35   | 16.61   | 18.80   |
|                     |            | 1       | 49        | 17.22                | 17.25   | 16.85   | 18.80   |
|                     |            | 25      | 0         | 17.55                | 17.43   | 17.36   | 18.80   |
|                     |            | 25      | 13        | 17.58                | 17.46   | 16.89   | 18.80   |
|                     |            | 25      | 25        | 17.33                | 17.26   | 17.30   | 18.80   |

|           | 64QAM      | 50      | 0         | 17.30   | 17.48   | 17.49   | 18.80   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 17.26   | 17.57   | 17.15   | 18.80   |
|           |            | 1       | 25        | 16.90   | 17.48   | 17.12   | 18.80   |
|           |            | 1       | 49        | 17.40   | 17.32   | 17.16   | 18.80   |
|           |            | 25      | 0         | 17.43   | 17.54   | 17.52   | 18.80   |
|           |            | 25      | 13        | 17.40   | 17.50   | 17.21   | 18.80   |
|           |            | 25      | 25        | 17.39   | 17.36   | 17.15   | 18.80   |
|           |            | 50      | 0         | 17.48   | 17.28   | 16.93   | 18.80   |
|           | 256QAM     | 1       | 0         | 17.45   | 17.22   | 17.44   | 18.80   |
|           |            | 1       | 25        | 17.34   | 17.37   | 17.32   | 18.80   |
|           |            | 1       | 49        | 17.39   | 17.59   | 16.92   | 18.80   |
|           |            | 25      | 0         | 17.41   | 17.68   | 17.34   | 18.80   |
|           |            | 25      | 13        | 17.32   | 17.02   | 17.39   | 18.80   |
|           |            | 25      | 25        | 16.82   | 17.47   | 17.33   | 18.80   |
|           |            | 50      | 0         | 17.51   | 17.36   | 17.24   | 18.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 17.48   | 17.29   | 17.20   | 18.80   |
|           |            | 1       | 38        | 17.57   | 17.51   | 17.03   | 18.80   |
|           |            | 1       | 74        | 17.35   | 17.39   | 17.05   | 18.80   |
|           |            | 36      | 0         | 17.67   | 17.44   | 17.02   | 18.80   |
|           |            | 36      | 18        | 16.93   | 16.99   | 17.44   | 18.80   |
|           |            | 36      | 39        | 16.91   | 17.49   | 17.16   | 18.80   |
|           |            | 75      | 0         | 17.38   | 17.55   | 17.18   | 18.80   |
|           | 16QAM      | 1       | 0         | 17.32   | 16.86   | 17.40   | 18.80   |
|           |            | 1       | 38        | 17.38   | 17.46   | 16.69   | 18.80   |
|           |            | 1       | 74        | 17.16   | 17.33   | 16.88   | 18.80   |
|           |            | 36      | 0         | 17.54   | 17.59   | 17.33   | 18.80   |
|           |            | 36      | 18        | 17.43   | 17.55   | 16.84   | 18.80   |
|           |            | 36      | 39        | 17.55   | 17.23   | 17.35   | 18.80   |
|           |            | 75      | 0         | 17.53   | 17.38   | 17.35   | 18.80   |
|           | 64QAM      | 1       | 0         | 17.46   | 17.44   | 17.10   | 18.80   |
|           |            | 1       | 38        | 17.00   | 17.36   | 17.18   | 18.80   |
|           |            | 1       | 74        | 17.43   | 17.37   | 17.03   | 18.80   |
|           |            | 36      | 0         | 17.37   | 17.56   | 17.28   | 18.80   |
|           |            | 36      | 18        | 17.51   | 17.46   | 17.27   | 18.80   |
|           |            | 36      | 39        | 17.44   | 17.28   | 17.27   | 18.80   |
|           |            | 75      | 0         | 17.46   | 17.37   | 17.00   | 18.80   |
|           | 256QAM     | 1       | 0         | 17.34   | 17.05   | 17.38   | 18.80   |
|           |            | 1       | 38        | 17.38   | 17.26   | 17.31   | 18.80   |
|           |            | 1       | 74        | 17.38   | 17.52   | 17.16   | 18.80   |
|           |            | 36      | 0         | 17.55   | 17.43   | 17.46   | 18.80   |
|           |            | 36      | 18        | 17.54   | 17.15   | 17.32   | 18.80   |
|           |            | 36      | 39        | 16.94   | 17.35   | 17.37   | 18.80   |
|           |            | 75      | 0         | 17.54   | 17.32   | 17.35   | 18.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37850   | 38000   | 38150   |         |

|       |        |     |    |       |       |       |       |
|-------|--------|-----|----|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 17.35 | 17.31 | 17.30 | 18.80 |
|       |        | 1   | 50 | 17.48 | 17.39 | 17.16 | 18.80 |
|       |        | 1   | 99 | 17.27 | 17.11 | 17.05 | 18.80 |
|       |        | 50  | 0  | 17.53 | 17.51 | 16.94 | 18.80 |
|       |        | 50  | 25 | 16.98 | 16.96 | 17.39 | 18.80 |
|       |        | 50  | 50 | 16.95 | 17.44 | 17.24 | 18.80 |
|       |        | 100 | 0  | 17.43 | 17.43 | 17.33 | 18.80 |
|       | 16QAM  | 1   | 0  | 17.40 | 16.85 | 17.25 | 18.80 |
|       |        | 1   | 50 | 17.35 | 17.31 | 16.72 | 18.80 |
|       |        | 1   | 99 | 17.31 | 17.21 | 17.00 | 18.80 |
|       |        | 50  | 0  | 17.49 | 17.52 | 17.39 | 18.80 |
|       |        | 50  | 25 | 17.48 | 17.44 | 16.88 | 18.80 |
|       |        | 50  | 50 | 17.45 | 17.38 | 17.20 | 18.80 |
|       |        | 100 | 0  | 17.43 | 17.42 | 17.34 | 18.80 |
|       | 64QAM  | 1   | 0  | 17.41 | 17.49 | 17.22 | 18.80 |
|       |        | 1   | 50 | 16.99 | 17.43 | 17.21 | 18.80 |
|       |        | 1   | 99 | 17.37 | 17.23 | 17.15 | 18.80 |
|       |        | 50  | 0  | 17.52 | 17.54 | 17.40 | 18.80 |
|       |        | 50  | 25 | 17.37 | 17.44 | 17.35 | 18.80 |
|       |        | 50  | 50 | 17.47 | 17.40 | 17.29 | 18.80 |
|       |        | 100 | 0  | 17.45 | 17.42 | 16.91 | 18.80 |
|       | 256QAM | 1   | 0  | 17.42 | 17.08 | 17.45 | 18.80 |
|       |        | 1   | 50 | 17.45 | 17.34 | 17.38 | 18.80 |
|       |        | 1   | 99 | 17.51 | 17.47 | 17.06 | 18.80 |
|       |        | 50  | 0  | 17.49 | 17.55 | 17.42 | 18.80 |
|       |        | 50  | 25 | 17.45 | 17.00 | 17.41 | 18.80 |
|       |        | 50  | 50 | 16.97 | 17.44 | 17.27 | 18.80 |
|       |        | 100 | 0  | 17.46 | 17.42 | 17.34 | 18.80 |

| LTE Band 38 DSI 4 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz              | QPSK       | 1       | 0         | 22.31                | 22.36   | 22.32   | 23.80   |
|                   |            | 1       | 13        | 21.87                | 22.35   | 22.15   | 23.80   |
|                   |            | 1       | 24        | 22.28                | 22.24   | 22.09   | 23.80   |
|                   |            | 12      | 0         | 21.89                | 22.35   | 22.20   | 23.80   |
|                   |            | 12      | 6         | 22.29                | 22.26   | 22.18   | 23.80   |
|                   |            | 12      | 13        | 22.27                | 22.22   | 22.07   | 23.80   |
|                   |            | 25      | 0         | 21.80                | 22.26   | 22.20   | 23.80   |
|                   | 16QAM      | 1       | 0         | 21.79                | 22.47   | 22.22   | 23.80   |
|                   |            | 1       | 13        | 22.23                | 22.33   | 22.14   | 23.80   |
|                   |            | 1       | 24        | 22.20                | 22.11   | 22.09   | 23.80   |
|                   |            | 12      | 0         | 21.79                | 21.83   | 21.70   | 22.80   |
|                   |            | 12      | 6         | 21.72                | 21.74   | 21.52   | 22.80   |
|                   |            | 12      | 13        | 21.68                | 21.68   | 21.50   | 22.80   |
|                   |            | 25      | 0         | 20.77                | 21.75   | 21.53   | 22.80   |
|                   | 64QAM      | 1       | 0         | 21.00                | 20.90   | 21.09   | 22.80   |
|                   |            | 1       | 13        | 21.21                | 21.12   | 20.98   | 22.80   |
|                   |            | 1       | 24        | 21.06                | 21.02   | 20.92   | 22.80   |
|                   |            | 12      | 0         | 19.85                | 20.34   | 20.19   | 21.80   |
|                   |            | 12      | 6         | 20.25                | 20.26   | 20.17   | 21.80   |
|                   |            | 12      | 13        | 19.81                | 19.76   | 20.11   | 21.80   |
|                   |            | 25      | 0         | 20.26                | 20.27   | 20.17   | 21.80   |
|                   | 256QAM     | 1       | 0         | 19.70                | 20.26   | 19.91   | 20.80   |
|                   |            | 1       | 13        | 20.02                | 20.23   | 19.72   | 20.80   |
|                   |            | 1       | 24        | 20.12                | 19.51   | 19.22   | 20.80   |
|                   |            | 12      | 0         | 20.31                | 20.35   | 20.17   | 20.80   |
|                   |            | 12      | 6         | 20.22                | 20.24   | 20.12   | 20.80   |
|                   |            | 12      | 13        | 19.79                | 20.21   | 19.99   | 20.80   |
|                   |            | 25      | 0         | 20.23                | 20.25   | 20.13   | 20.80   |
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz             | QPSK       | 1       | 0         | 22.33                | 22.48   | 22.32   | 23.80   |
|                   |            | 1       | 25        | 21.91                | 22.23   | 22.05   | 23.80   |
|                   |            | 1       | 49        | 22.36                | 22.35   | 22.17   | 23.80   |
|                   |            | 25      | 0         | 21.98                | 22.33   | 22.05   | 23.80   |
|                   |            | 25      | 13        | 22.44                | 22.34   | 22.26   | 23.80   |
|                   |            | 25      | 25        | 22.28                | 22.26   | 22.07   | 23.80   |
|                   |            | 50      | 0         | 21.87                | 22.31   | 22.06   | 23.80   |
|                   | 16QAM      | 1       | 0         | 21.81                | 22.35   | 22.25   | 23.80   |
|                   |            | 1       | 25        | 22.38                | 22.21   | 22.29   | 23.80   |
|                   |            | 1       | 49        | 22.15                | 22.26   | 22.07   | 23.80   |
|                   |            | 25      | 0         | 21.92                | 21.80   | 21.85   | 22.80   |
|                   |            | 25      | 13        | 21.87                | 21.60   | 21.63   | 22.80   |
|                   |            | 25      | 25        | 21.56                | 21.83   | 21.43   | 22.80   |

|           | 64QAM      | 50      | 0         | 20.74   | 21.81   | 21.38   | 22.80   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 21.01   | 21.01   | 20.94   | 22.80   |
|           |            | 1       | 25        | 21.19   | 21.21   | 21.07   | 22.80   |
|           |            | 1       | 49        | 20.97   | 21.13   | 20.79   | 22.80   |
|           |            | 25      | 0         | 19.76   | 20.28   | 20.13   | 21.80   |
|           |            | 25      | 13        | 20.13   | 20.34   | 20.08   | 21.80   |
|           |            | 25      | 25        | 19.68   | 19.78   | 20.11   | 21.80   |
|           |            | 50      | 0         | 20.34   | 20.18   | 20.03   | 21.80   |
|           | 256QAM     | 1       | 0         | 19.80   | 20.30   | 19.80   | 20.80   |
|           |            | 1       | 25        | 20.16   | 20.36   | 19.60   | 20.80   |
|           |            | 1       | 49        | 20.12   | 19.62   | 19.34   | 20.80   |
|           |            | 25      | 0         | 20.16   | 20.29   | 20.09   | 20.80   |
|           |            | 25      | 13        | 20.31   | 20.20   | 20.07   | 20.80   |
|           |            | 25      | 25        | 19.83   | 20.26   | 19.88   | 20.80   |
|           |            | 50      | 0         | 20.17   | 20.16   | 20.00   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.36   | 22.21   | 22.32   | 23.80   |
|           |            | 1       | 38        | 21.82   | 22.37   | 22.23   | 23.80   |
|           |            | 1       | 74        | 22.14   | 22.35   | 21.95   | 23.80   |
|           |            | 36      | 0         | 21.77   | 22.34   | 22.05   | 23.80   |
|           |            | 36      | 18        | 22.36   | 22.12   | 22.29   | 23.80   |
|           |            | 36      | 39        | 22.33   | 22.25   | 22.08   | 23.80   |
|           |            | 75      | 0         | 21.68   | 22.35   | 22.23   | 23.80   |
|           | 16QAM      | 1       | 0         | 21.87   | 22.37   | 22.07   | 23.80   |
|           |            | 1       | 38        | 22.31   | 22.30   | 22.27   | 23.80   |
|           |            | 1       | 74        | 22.14   | 22.15   | 22.10   | 23.80   |
|           |            | 36      | 0         | 21.90   | 21.71   | 21.82   | 22.80   |
|           |            | 36      | 18        | 21.80   | 21.86   | 21.39   | 22.80   |
|           |            | 36      | 39        | 21.82   | 21.62   | 21.37   | 22.80   |
|           |            | 75      | 0         | 20.91   | 21.72   | 21.57   | 22.80   |
|           | 64QAM      | 1       | 0         | 20.87   | 20.97   | 21.18   | 22.80   |
|           |            | 1       | 38        | 21.07   | 21.00   | 21.04   | 22.80   |
|           |            | 1       | 74        | 20.98   | 20.98   | 20.84   | 22.80   |
|           |            | 36      | 0         | 19.89   | 20.29   | 20.22   | 21.80   |
|           |            | 36      | 18        | 20.18   | 20.27   | 20.26   | 21.80   |
|           |            | 36      | 39        | 19.68   | 19.87   | 20.05   | 21.80   |
|           |            | 75      | 0         | 20.36   | 20.31   | 20.12   | 21.80   |
|           | 256QAM     | 1       | 0         | 19.83   | 20.34   | 19.85   | 20.80   |
|           |            | 1       | 38        | 20.09   | 20.25   | 19.74   | 20.80   |
|           |            | 1       | 74        | 20.11   | 19.59   | 19.08   | 20.80   |
|           |            | 36      | 0         | 20.43   | 20.44   | 20.11   | 20.80   |
|           |            | 36      | 18        | 20.26   | 20.21   | 20.04   | 20.80   |
|           |            | 36      | 39        | 19.91   | 20.34   | 20.13   | 20.80   |
|           |            | 75      | 0         | 20.27   | 20.28   | 20.12   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37850   | 38000   | 38150   |         |

|       |        |     |    |       |       |       |       |
|-------|--------|-----|----|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 22.33 | 22.48 | 22.26 | 23.80 |
|       |        | 1   | 50 | 22.02 | 22.50 | 22.23 | 23.80 |
|       |        | 1   | 99 | 22.19 | 22.21 | 21.98 | 23.80 |
|       |        | 50  | 0  | 21.86 | 22.47 | 22.33 | 23.80 |
|       |        | 50  | 25 | 22.36 | 22.26 | 22.06 | 23.80 |
|       |        | 50  | 50 | 22.33 | 22.21 | 22.02 | 23.80 |
|       |        | 100 | 0  | 21.92 | 22.13 | 22.26 | 23.80 |
|       | 16QAM  | 1   | 0  | 21.79 | 22.62 | 22.30 | 23.80 |
|       |        | 1   | 50 | 22.31 | 22.31 | 22.21 | 23.80 |
|       |        | 1   | 99 | 22.28 | 22.20 | 22.03 | 23.80 |
|       |        | 50  | 0  | 21.83 | 21.95 | 21.70 | 22.80 |
|       |        | 50  | 25 | 21.79 | 21.74 | 21.51 | 22.80 |
|       |        | 50  | 50 | 21.69 | 21.60 | 21.37 | 22.80 |
|       |        | 100 | 0  | 20.82 | 21.62 | 21.66 | 22.80 |
|       | 64QAM  | 1   | 0  | 20.99 | 21.00 | 21.14 | 22.80 |
|       |        | 1   | 50 | 21.22 | 21.14 | 20.89 | 22.80 |
|       |        | 1   | 99 | 21.00 | 20.92 | 20.86 | 22.80 |
|       |        | 50  | 0  | 19.88 | 20.43 | 20.32 | 21.80 |
|       |        | 50  | 25 | 20.37 | 20.22 | 20.11 | 21.80 |
|       |        | 50  | 50 | 19.89 | 19.86 | 20.13 | 21.80 |
|       |        | 100 | 0  | 20.31 | 20.34 | 20.14 | 21.80 |
|       | 256QAM | 1   | 0  | 19.80 | 20.35 | 20.05 | 20.80 |
|       |        | 1   | 50 | 20.07 | 20.26 | 19.60 | 20.80 |
|       |        | 1   | 99 | 20.02 | 19.58 | 19.34 | 20.80 |
|       |        | 50  | 0  | 20.35 | 20.42 | 20.09 | 20.80 |
|       |        | 50  | 25 | 20.22 | 20.30 | 20.13 | 20.80 |
|       |        | 50  | 50 | 19.88 | 20.32 | 20.04 | 20.80 |
|       |        | 100 | 0  | 20.09 | 20.13 | 20.19 | 20.80 |

| LTE Band 38 DSI 5/6 |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz                | QPSK       | 1       | 0         | 21.67                | 21.97   | 21.59   | 23.30   |
|                     |            | 1       | 13        | 21.90                | 21.81   | 21.69   | 23.30   |
|                     |            | 1       | 24        | 21.67                | 21.62   | 21.34   | 23.30   |
|                     |            | 12      | 0         | 22.03                | 22.05   | 21.94   | 23.30   |
|                     |            | 12      | 6         | 22.08                | 22.00   | 21.65   | 23.30   |
|                     |            | 12      | 13        | 22.05                | 21.69   | 21.63   | 23.30   |
|                     |            | 25      | 0         | 21.90                | 21.74   | 21.65   | 23.30   |
|                     | 16QAM      | 1       | 0         | 21.41                | 21.69   | 21.54   | 23.30   |
|                     |            | 1       | 13        | 21.28                | 21.64   | 21.61   | 23.30   |
|                     |            | 1       | 24        | 21.84                | 21.61   | 21.05   | 23.30   |
|                     |            | 12      | 0         | 21.87                | 21.68   | 21.61   | 22.80   |
|                     |            | 12      | 6         | 21.53                | 21.59   | 21.42   | 22.80   |
|                     |            | 12      | 13        | 21.53                | 21.55   | 21.30   | 22.80   |
|                     |            | 25      | 0         | 21.76                | 21.60   | 21.51   | 22.80   |
|                     | 64QAM      | 1       | 0         | 20.97                | 20.86   | 20.70   | 22.80   |
|                     |            | 1       | 13        | 20.66                | 20.77   | 20.84   | 22.80   |
|                     |            | 1       | 24        | 20.85                | 20.68   | 20.61   | 22.80   |
|                     |            | 12      | 0         | 20.13                | 20.35   | 20.03   | 21.80   |
|                     |            | 12      | 6         | 20.28                | 20.20   | 20.23   | 21.80   |
|                     |            | 12      | 13        | 20.05                | 20.36   | 19.94   | 21.80   |
|                     |            | 25      | 0         | 20.18                | 20.14   | 19.98   | 21.80   |
|                     | 256QAM     | 1       | 0         | 20.04                | 20.05   | 19.96   | 20.80   |
|                     |            | 1       | 13        | 20.07                | 19.73   | 19.67   | 20.80   |
|                     |            | 1       | 24        | 19.73                | 20.02   | 19.93   | 20.80   |
|                     |            | 12      | 0         | 20.34                | 20.30   | 19.96   | 20.80   |
|                     |            | 12      | 6         | 20.08                | 20.16   | 20.14   | 20.80   |
|                     |            | 12      | 13        | 20.15                | 20.07   | 20.01   | 20.80   |
|                     |            | 25      | 0         | 20.26                | 20.02   | 19.95   | 20.80   |
| Bandwidth           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz               | QPSK       | 1       | 0         | 21.86                | 22.01   | 21.54   | 23.30   |
|                     |            | 1       | 25        | 21.60                | 21.69   | 21.64   | 23.30   |
|                     |            | 1       | 49        | 21.76                | 21.78   | 21.38   | 23.30   |
|                     |            | 25      | 0         | 22.10                | 21.80   | 21.69   | 23.30   |
|                     |            | 25      | 13        | 22.03                | 21.75   | 21.76   | 23.30   |
|                     |            | 25      | 25        | 21.97                | 21.93   | 21.83   | 23.30   |
|                     |            | 50      | 0         | 21.80                | 21.76   | 21.83   | 23.30   |
|                     | 16QAM      | 1       | 0         | 21.48                | 21.58   | 21.29   | 23.30   |
|                     |            | 1       | 25        | 21.40                | 21.68   | 21.87   | 23.30   |
|                     |            | 1       | 49        | 21.88                | 21.70   | 21.27   | 23.30   |
|                     |            | 25      | 0         | 21.76                | 21.81   | 21.72   | 22.80   |
|                     |            | 25      | 13        | 21.59                | 21.84   | 21.65   | 22.80   |
|                     |            | 25      | 25        | 21.63                | 21.46   | 21.30   | 22.80   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 64QAM      | 50      | 0         | 21.58   | 21.78   | 21.52   | 22.80   |
|           |            | 1       | 0         | 20.89   | 20.96   | 20.68   | 22.80   |
|           |            | 1       | 25        | 20.73   | 20.97   | 20.76   | 22.80   |
|           |            | 1       | 49        | 21.01   | 20.79   | 20.59   | 22.80   |
|           |            | 25      | 0         | 20.32   | 20.21   | 20.25   | 21.80   |
|           |            | 25      | 13        | 20.08   | 20.31   | 19.99   | 21.80   |
|           |            | 25      | 25        | 20.27   | 20.22   | 20.09   | 21.80   |
|           |            | 50      | 0         | 20.30   | 20.12   | 20.23   | 21.80   |
|           | 256QAM     | 1       | 0         | 19.88   | 20.18   | 19.97   | 20.80   |
|           |            | 1       | 25        | 20.00   | 19.82   | 19.72   | 20.80   |
|           |            | 1       | 49        | 19.84   | 19.83   | 19.93   | 20.80   |
|           |            | 25      | 0         | 20.36   | 20.16   | 19.99   | 20.80   |
|           |            | 25      | 13        | 20.12   | 20.21   | 20.09   | 20.80   |
|           |            | 25      | 25        | 20.23   | 20.09   | 20.13   | 20.80   |
|           |            | 50      | 0         | 20.20   | 20.07   | 20.07   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 21.81   | 21.98   | 21.55   | 23.30   |
|           |            | 1       | 38        | 21.82   | 21.67   | 21.52   | 23.30   |
|           |            | 1       | 74        | 21.65   | 21.59   | 21.57   | 23.30   |
|           |            | 36      | 0         | 21.95   | 21.89   | 21.76   | 23.30   |
|           |            | 36      | 18        | 22.06   | 21.85   | 21.90   | 23.30   |
|           |            | 36      | 39        | 21.84   | 21.84   | 21.78   | 23.30   |
|           |            | 75      | 0         | 21.91   | 21.95   | 21.90   | 23.30   |
|           | 16QAM      | 1       | 0         | 21.60   | 21.82   | 21.59   | 23.30   |
|           |            | 1       | 38        | 21.38   | 21.53   | 21.89   | 23.30   |
|           |            | 1       | 74        | 21.90   | 21.50   | 21.32   | 23.30   |
|           |            | 36      | 0         | 21.67   | 21.75   | 21.56   | 22.80   |
|           |            | 36      | 18        | 21.54   | 21.66   | 21.37   | 22.80   |
|           |            | 36      | 39        | 21.76   | 21.63   | 21.56   | 22.80   |
|           |            | 75      | 0         | 21.55   | 21.50   | 21.57   | 22.80   |
|           | 64QAM      | 1       | 0         | 21.09   | 20.97   | 20.74   | 22.80   |
|           |            | 1       | 38        | 20.68   | 20.77   | 20.84   | 22.80   |
|           |            | 1       | 74        | 21.09   | 20.72   | 20.64   | 22.80   |
|           |            | 36      | 0         | 20.19   | 20.17   | 20.02   | 21.80   |
|           |            | 36      | 18        | 20.35   | 20.20   | 20.05   | 21.80   |
|           |            | 36      | 39        | 20.29   | 20.14   | 20.07   | 21.80   |
|           |            | 75      | 0         | 20.10   | 20.11   | 20.11   | 21.80   |
|           | 256QAM     | 1       | 0         | 19.92   | 20.09   | 20.14   | 20.80   |
|           |            | 1       | 38        | 20.11   | 19.77   | 19.64   | 20.80   |
|           |            | 1       | 74        | 19.66   | 20.05   | 19.90   | 20.80   |
|           |            | 36      | 0         | 20.18   | 20.17   | 19.95   | 20.80   |
|           |            | 36      | 18        | 20.07   | 20.22   | 20.05   | 20.80   |
|           |            | 36      | 39        | 20.29   | 20.13   | 20.15   | 20.80   |
|           |            | 75      | 0         | 20.03   | 20.13   | 19.95   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37850   | 38000   | 38150   |         |

|       |        |     |    |       |       |       |       |
|-------|--------|-----|----|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 21.77 | 21.88 | 21.66 | 23.30 |
|       |        | 1   | 50 | 21.75 | 21.76 | 21.61 | 23.30 |
|       |        | 1   | 99 | 21.77 | 21.64 | 21.49 | 23.30 |
|       |        | 50  | 0  | 21.97 | 21.95 | 21.80 | 23.30 |
|       |        | 50  | 25 | 21.94 | 21.87 | 21.80 | 23.30 |
|       |        | 50  | 50 | 21.93 | 21.83 | 21.68 | 23.30 |
|       |        | 100 | 0  | 21.92 | 21.87 | 21.78 | 23.30 |
|       | 16QAM  | 1   | 0  | 21.48 | 21.70 | 21.44 | 23.30 |
|       |        | 1   | 50 | 21.43 | 21.65 | 21.74 | 23.30 |
|       |        | 1   | 99 | 21.82 | 21.63 | 21.20 | 23.30 |
|       |        | 50  | 0  | 21.78 | 21.76 | 21.60 | 22.80 |
|       |        | 50  | 25 | 21.58 | 21.73 | 21.52 | 22.80 |
|       |        | 50  | 50 | 21.66 | 21.57 | 21.42 | 22.80 |
|       |        | 100 | 0  | 21.62 | 21.64 | 21.46 | 22.80 |
|       | 64QAM  | 1   | 0  | 21.03 | 20.87 | 20.79 | 22.80 |
|       |        | 1   | 50 | 20.79 | 20.86 | 20.81 | 22.80 |
|       |        | 1   | 99 | 20.99 | 20.77 | 20.65 | 22.80 |
|       |        | 50  | 0  | 20.26 | 20.28 | 20.17 | 21.80 |
|       |        | 50  | 25 | 20.21 | 20.19 | 20.10 | 21.80 |
|       |        | 50  | 50 | 20.16 | 20.21 | 19.98 | 21.80 |
|       |        | 100 | 0  | 20.21 | 20.20 | 20.13 | 21.80 |
|       | 256QAM | 1   | 0  | 20.02 | 20.03 | 19.99 | 20.80 |
|       |        | 1   | 50 | 20.07 | 19.67 | 19.64 | 20.80 |
|       |        | 1   | 99 | 19.79 | 19.93 | 19.82 | 20.80 |
|       |        | 50  | 0  | 20.22 | 20.23 | 20.05 | 20.80 |
|       |        | 50  | 25 | 20.18 | 20.18 | 20.08 | 20.80 |
|       |        | 50  | 50 | 20.15 | 20.09 | 20.00 | 20.80 |
|       |        | 100 | 0  | 20.16 | 20.17 | 19.95 | 20.80 |

| LTE Band 38 DSI 7 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz              | QPSK       | 1       | 0         | 22.60                | 22.64   | 22.86   | 24.80   |
|                   |            | 1       | 13        | 23.11                | 23.13   | 22.91   | 24.80   |
|                   |            | 1       | 24        | 23.07                | 22.98   | 22.67   | 24.80   |
|                   |            | 12      | 0         | 22.29                | 22.24   | 22.18   | 23.80   |
|                   |            | 12      | 6         | 22.15                | 22.20   | 22.23   | 23.80   |
|                   |            | 12      | 13        | 22.37                | 22.12   | 22.04   | 23.80   |
|                   |            | 25      | 0         | 22.28                | 22.10   | 22.17   | 23.80   |
|                   | 16QAM      | 1       | 0         | 22.40                | 22.43   | 22.43   | 23.80   |
|                   |            | 1       | 13        | 22.43                | 22.38   | 22.46   | 23.80   |
|                   |            | 1       | 24        | 22.63                | 22.34   | 22.16   | 23.80   |
|                   |            | 12      | 0         | 21.86                | 21.69   | 21.47   | 22.80   |
|                   |            | 12      | 6         | 21.66                | 21.69   | 21.57   | 22.80   |
|                   |            | 12      | 13        | 21.45                | 21.54   | 21.45   | 22.80   |
|                   |            | 25      | 0         | 21.72                | 21.75   | 21.58   | 22.80   |
|                   | 64QAM      | 1       | 0         | 22.34                | 21.34   | 21.30   | 22.80   |
|                   |            | 1       | 13        | 22.55                | 22.42   | 21.56   | 22.80   |
|                   |            | 1       | 24        | 22.33                | 22.26   | 21.46   | 22.80   |
|                   |            | 12      | 0         | 21.72                | 21.68   | 20.97   | 21.80   |
|                   |            | 12      | 6         | 20.24                | 20.09   | 20.20   | 21.80   |
|                   |            | 12      | 13        | 19.93                | 20.02   | 19.88   | 21.80   |
|                   |            | 25      | 0         | 20.29                | 20.12   | 19.99   | 21.80   |
|                   | 256QAM     | 1       | 0         | 20.07                | 20.26   | 19.71   | 20.80   |
|                   |            | 1       | 13        | 19.96                | 20.00   | 19.94   | 20.80   |
|                   |            | 1       | 24        | 20.12                | 20.01   | 19.38   | 20.80   |
|                   |            | 12      | 0         | 20.21                | 20.22   | 20.25   | 20.80   |
|                   |            | 12      | 6         | 20.22                | 20.32   | 20.01   | 20.80   |
|                   |            | 12      | 13        | 20.08                | 20.13   | 19.74   | 20.80   |
|                   |            | 25      | 0         | 20.27                | 20.24   | 19.84   | 20.80   |
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz             | QPSK       | 1       | 0         | 22.59                | 22.69   | 22.84   | 24.80   |
|                   |            | 1       | 25        | 22.97                | 23.09   | 22.78   | 24.80   |
|                   |            | 1       | 49        | 22.92                | 22.82   | 22.75   | 24.80   |
|                   |            | 25      | 0         | 22.20                | 22.41   | 22.11   | 23.80   |
|                   |            | 25      | 13        | 22.26                | 22.17   | 22.26   | 23.80   |
|                   |            | 25      | 25        | 22.36                | 22.30   | 22.12   | 23.80   |
|                   |            | 50      | 0         | 22.15                | 22.26   | 22.15   | 23.80   |
|                   | 16QAM      | 1       | 0         | 22.42                | 22.63   | 22.50   | 23.80   |
|                   |            | 1       | 25        | 22.44                | 22.42   | 22.54   | 23.80   |
|                   |            | 1       | 49        | 22.42                | 22.21   | 22.33   | 23.80   |
|                   |            | 25      | 0         | 21.80                | 21.89   | 21.64   | 22.80   |
|                   |            | 25      | 13        | 21.42                | 21.58   | 21.38   | 22.80   |
|                   |            | 25      | 25        | 21.69                | 21.61   | 21.57   | 22.80   |

|           |            | 50      | 0         | 21.58   | 21.63   | 21.54   | 22.80   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 64QAM      | 1       | 0         | 22.54   | 21.21   | 21.45   | 22.80   |
|           |            | 1       | 25        | 22.43   | 22.56   | 21.59   | 22.80   |
|           |            | 1       | 49        | 22.57   | 22.28   | 21.47   | 22.80   |
|           |            | 25      | 0         | 21.65   | 21.77   | 20.87   | 21.80   |
|           |            | 25      | 13        | 20.24   | 20.05   | 20.07   | 21.80   |
|           |            | 25      | 25        | 20.04   | 20.24   | 19.89   | 21.80   |
|           |            | 50      | 0         | 20.13   | 20.24   | 20.03   | 21.80   |
|           | 256QAM     | 1       | 0         | 20.07   | 20.13   | 19.79   | 20.80   |
|           |            | 1       | 25        | 19.95   | 19.87   | 19.91   | 20.80   |
|           |            | 1       | 49        | 20.04   | 20.21   | 19.50   | 20.80   |
|           |            | 25      | 0         | 20.19   | 20.34   | 20.14   | 20.80   |
|           |            | 25      | 13        | 20.07   | 20.21   | 19.98   | 20.80   |
|           |            | 25      | 25        | 20.32   | 20.09   | 19.78   | 20.80   |
|           |            | 50      | 0         | 20.14   | 20.32   | 20.06   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.67   | 22.50   | 22.86   | 24.80   |
|           |            | 1       | 38        | 23.04   | 23.12   | 23.01   | 24.80   |
|           |            | 1       | 74        | 23.16   | 22.90   | 22.77   | 24.80   |
|           |            | 36      | 0         | 22.23   | 22.40   | 22.14   | 23.80   |
|           |            | 36      | 18        | 22.14   | 22.14   | 22.21   | 23.80   |
|           |            | 36      | 39        | 22.16   | 22.32   | 22.18   | 23.80   |
|           |            | 75      | 0         | 22.20   | 22.12   | 22.04   | 23.80   |
|           | 16QAM      | 1       | 0         | 22.49   | 22.43   | 22.60   | 23.80   |
|           |            | 1       | 38        | 22.44   | 22.32   | 22.28   | 23.80   |
|           |            | 1       | 74        | 22.54   | 22.34   | 22.19   | 23.80   |
|           |            | 36      | 0         | 21.72   | 21.71   | 21.61   | 22.80   |
|           |            | 36      | 18        | 21.46   | 21.68   | 21.43   | 22.80   |
|           |            | 36      | 39        | 21.41   | 21.59   | 21.57   | 22.80   |
|           |            | 75      | 0         | 21.53   | 21.70   | 21.65   | 22.80   |
|           | 64QAM      | 1       | 0         | 22.42   | 21.13   | 21.42   | 22.80   |
|           |            | 1       | 38        | 22.63   | 22.67   | 21.52   | 22.80   |
|           |            | 1       | 74        | 22.54   | 22.18   | 21.28   | 22.80   |
|           |            | 36      | 0         | 21.72   | 21.67   | 21.07   | 21.80   |
|           |            | 36      | 18        | 20.07   | 20.26   | 20.01   | 21.80   |
|           |            | 36      | 39        | 19.99   | 20.14   | 20.03   | 21.80   |
|           |            | 75      | 0         | 20.22   | 20.06   | 20.22   | 21.80   |
|           | 256QAM     | 1       | 0         | 20.26   | 20.28   | 19.80   | 20.80   |
|           |            | 1       | 38        | 20.07   | 19.85   | 19.94   | 20.80   |
|           |            | 1       | 74        | 19.98   | 20.11   | 19.31   | 20.80   |
|           |            | 36      | 0         | 20.15   | 20.43   | 20.21   | 20.80   |
|           |            | 36      | 18        | 20.20   | 20.18   | 19.90   | 20.80   |
|           |            | 36      | 39        | 20.28   | 20.14   | 19.66   | 20.80   |
|           |            | 75      | 0         | 20.33   | 20.14   | 20.07   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37850   | 38000   | 38150   |         |

|       |        |     |    |       |       |       |       |
|-------|--------|-----|----|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 22.69 | 22.64 | 22.93 | 24.80 |
|       |        | 1   | 50 | 22.98 | 23.11 | 22.88 | 24.80 |
|       |        | 1   | 99 | 23.05 | 22.94 | 22.81 | 24.80 |
|       |        | 50  | 0  | 22.26 | 22.32 | 22.17 | 23.80 |
|       |        | 50  | 25 | 22.23 | 22.25 | 22.14 | 23.80 |
|       |        | 50  | 50 | 22.22 | 22.18 | 22.04 | 23.80 |
|       |        | 100 | 0  | 22.20 | 22.18 | 22.16 | 23.80 |
|       | 16QAM  | 1   | 0  | 22.42 | 22.54 | 22.54 | 23.80 |
|       |        | 1   | 50 | 22.57 | 22.45 | 22.42 | 23.80 |
|       |        | 1   | 99 | 22.50 | 22.34 | 22.27 | 23.80 |
|       |        | 50  | 0  | 21.80 | 21.81 | 21.55 | 22.80 |
|       |        | 50  | 25 | 21.55 | 21.72 | 21.47 | 22.80 |
|       |        | 50  | 50 | 21.56 | 21.53 | 21.48 | 22.80 |
|       |        | 100 | 0  | 21.58 | 21.66 | 21.52 | 22.80 |
|       | 64QAM  | 1   | 0  | 22.42 | 21.22 | 21.40 | 22.80 |
|       |        | 1   | 50 | 22.49 | 22.54 | 21.53 | 22.80 |
|       |        | 1   | 99 | 22.46 | 22.25 | 21.37 | 22.80 |
|       |        | 50  | 0  | 21.77 | 21.75 | 20.98 | 21.80 |
|       |        | 50  | 25 | 20.19 | 20.19 | 20.14 | 21.80 |
|       |        | 50  | 50 | 20.06 | 20.15 | 19.89 | 21.80 |
|       |        | 100 | 0  | 20.21 | 20.20 | 20.11 | 21.80 |
|       | 256QAM | 1   | 0  | 20.16 | 20.18 | 19.77 | 20.80 |
|       |        | 1   | 50 | 20.01 | 19.95 | 20.04 | 20.80 |
|       |        | 1   | 99 | 20.10 | 20.07 | 19.46 | 20.80 |
|       |        | 50  | 0  | 20.23 | 20.28 | 20.11 | 20.80 |
|       |        | 50  | 25 | 20.17 | 20.21 | 20.00 | 20.80 |
|       |        | 50  | 50 | 20.19 | 20.10 | 19.80 | 20.80 |
|       |        | 100 | 0  | 20.21 | 20.19 | 19.99 | 20.80 |

| LTE Band 41 DSI 2/3 |            |         |           | 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         | 17.35                | 17.33   | 17.19   | 17.42   | 17.1    | 18.80   |
|                     |            | 1       | 13        | 17.5                 | 17.42   | 17.03   | 17.52   | 16.98   | 18.80   |
|                     |            | 1       | 24        | 17.21                | 17.33   | 17.11   | 17.14   | 17.02   | 18.80   |
|                     |            | 12      | 0         | 17.5                 | 17.34   | 17.25   | 17.34   | 17.3    | 18.80   |
|                     |            | 12      | 6         | 17.66                | 17.44   | 17.28   | 17.27   | 17.2    | 18.80   |
|                     |            | 12      | 13        | 17.51                | 17.22   | 17.05   | 17.54   | 16.97   | 18.80   |
|                     |            | 25      | 0         | 17.59                | 17.5    | 17.15   | 17.54   | 17.23   | 18.80   |
|                     | 16QAM      | 1       | 0         | 17.32                | 17.39   | 17.04   | 17.09   | 16.97   | 18.80   |
|                     |            | 1       | 13        | 17.58                | 17.25   | 17.11   | 17.18   | 16.95   | 18.80   |
|                     |            | 1       | 24        | 17.18                | 17.11   | 17.15   | 17.2    | 17.09   | 18.80   |
|                     |            | 12      | 0         | 17.53                | 17.34   | 17.21   | 17.77   | 17.18   | 18.80   |
|                     |            | 12      | 6         | 17.44                | 17.41   | 17.31   | 17.55   | 17.13   | 18.80   |
|                     |            | 12      | 13        | 17.37                | 17.24   | 17.07   | 17.5    | 17.01   | 18.80   |
|                     |            | 25      | 0         | 17.47                | 17.3    | 17.33   | 17.63   | 17.13   | 18.80   |
|                     | 64QAM      | 1       | 0         | 17.6                 | 17.54   | 17.35   | 17.47   | 17.45   | 18.80   |
|                     |            | 1       | 13        | 17.51                | 17.39   | 17.03   | 17.35   | 17.01   | 18.80   |
|                     |            | 1       | 24        | 17.23                | 17.25   | 17.31   | 17.34   | 17.08   | 18.80   |
|                     |            | 12      | 0         | 17.47                | 17.5    | 17.22   | 17.23   | 17.23   | 18.80   |
|                     |            | 12      | 6         | 17.48                | 17.4    | 17.38   | 17.66   | 17.53   | 18.80   |
|                     |            | 12      | 13        | 17.43                | 17.42   | 17.36   | 17.49   | 17.36   | 18.80   |
|                     |            | 25      | 0         | 17.5                 | 17.33   | 17.35   | 17.46   | 17.29   | 18.80   |
|                     | 256QAM     | 1       | 0         | 17.65                | 17.49   | 17.03   | 17.45   | 17.06   | 18.80   |
|                     |            | 1       | 13        | 17.57                | 17.2    | 17.3    | 17.12   | 17.2    | 18.80   |
|                     |            | 1       | 24        | 17.55                | 17.27   | 17.03   | 17.21   | 17.14   | 18.80   |
|                     |            | 12      | 0         | 17.7                 | 17.62   | 17.19   | 17.61   | 17.31   | 18.80   |
|                     |            | 12      | 6         | 17.62                | 17.4    | 17.2    | 17.41   | 17.01   | 18.80   |
|                     |            | 12      | 13        | 17.51                | 17.4    | 17.08   | 17.27   | 17.16   | 18.80   |
|                     |            | 25      | 0         | 17.61                | 17.47   | 17.46   | 17.47   | 17.35   | 18.80   |
| Bandwidth           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|                     |            |         |           | 39700                | 40160   | 40620   | 41080   | 41540   |         |
| 10MHz               | QPSK       | 1       | 0         | 17.45                | 17.47   | 17.21   | 17.32   | 17.25   | 18.80   |
|                     |            | 1       | 25        | 17.52                | 17.23   | 17.22   | 17.4    | 16.98   | 18.80   |
|                     |            | 1       | 49        | 17.27                | 17.37   | 16.99   | 17.4    | 17.05   | 18.80   |
|                     |            | 25      | 0         | 17.43                | 17.45   | 17.29   | 17.54   | 17.3    | 18.80   |
|                     |            | 25      | 13        | 17.72                | 17.54   | 17.22   | 17.48   | 17.35   | 18.80   |
|                     |            | 25      | 25        | 17.53                | 17.3    | 17.19   | 17.53   | 16.98   | 18.80   |
|                     |            | 50      | 0         | 17.36                | 17.56   | 17.15   | 17.45   | 17.46   | 18.80   |
|                     | 16QAM      | 1       | 0         | 17.53                | 17.27   | 17.22   | 17.09   | 17.14   | 18.80   |
|                     |            | 1       | 25        | 17.61                | 17.17   | 17.19   | 17.07   | 16.83   | 18.80   |
|                     |            | 1       | 49        | 17.34                | 17.15   | 17.01   | 17.25   | 17.17   | 18.80   |
|                     |            | 25      | 0         | 17.61                | 17.61   | 17.27   | 17.51   | 17.3    | 18.80   |
|                     |            | 25      | 13        | 17.45                | 17.38   | 17.24   | 17.53   | 17.12   | 18.80   |
|                     |            | 25      | 25        | 17.36                | 17.25   | 17.19   | 17.37   | 17.02   | 18.80   |

|           |            | 50      | 0         | 17.57   | 17.57   | 17.33   | 17.55   | 17.38   | 18.80   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           | 64QAM      | 1       | 0         | 17.54   | 17.39   | 17.23   | 17.39   | 17.59   | 18.80   |
|           |            | 1       | 25        | 17.39   | 17.48   | 17.11   | 17.48   | 17      | 18.80   |
|           |            | 1       | 49        | 17.28   | 17.49   | 17.19   | 17.46   | 17.2    | 18.80   |
|           |            | 25      | 0         | 17.68   | 17.34   | 17.36   | 17.28   | 17.43   | 18.80   |
|           |            | 25      | 13        | 17.64   | 17.63   | 17.51   | 17.58   | 17.32   | 18.80   |
|           |            | 25      | 25        | 17.45   | 17.44   | 17.11   | 17.46   | 17.27   | 18.80   |
|           |            | 50      | 0         | 17.36   | 17.48   | 17.25   | 17.24   | 17.27   | 18.80   |
|           |            |         |           |         |         |         |         |         |         |
|           | 256QAM     | 1       | 0         | 17.47   | 17.46   | 17.26   | 17.36   | 17.18   | 18.80   |
|           |            | 1       | 25        | 17.41   | 17.4    | 17.02   | 17.19   | 17.33   | 18.80   |
|           |            | 1       | 49        | 17.41   | 17.13   | 17.02   | 17.04   | 16.97   | 18.80   |
|           |            | 25      | 0         | 17.56   | 17.4    | 17.37   | 17.55   | 17.32   | 18.80   |
|           |            | 25      | 13        | 17.71   | 17.51   | 17.19   | 17.39   | 17.08   | 18.80   |
|           |            | 25      | 25        | 17.61   | 17.43   | 17.25   | 17.24   | 17.23   | 18.80   |
|           |            | 50      | 0         | 17.41   | 17.61   | 17.19   | 17.47   | 17.26   | 18.80   |
|           |            |         |           |         |         |         |         |         |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
| 15MHz     | QPSK       | 1       | 0         | 17.48   | 17.26   | 17.19   | 17.35   | 17.07   | 18.80   |
|           |            | 1       | 38        | 17.41   | 17.35   | 17.07   | 17.38   | 17.15   | 18.80   |
|           |            | 1       | 74        | 17.24   | 17.28   | 17.19   | 17.18   | 16.81   | 18.80   |
|           |            | 36      | 0         | 17.45   | 17.34   | 17.42   | 17.38   | 17.41   | 18.80   |
|           |            | 36      | 18        | 17.48   | 17.53   | 17.31   | 17.47   | 17.42   | 18.80   |
|           |            | 36      | 39        | 17.37   | 17.26   | 17.13   | 17.54   | 17.09   | 18.80   |
|           |            | 75      | 0         | 17.47   | 17.3    | 17.26   | 17.47   | 17.33   | 18.80   |
|           |            |         |           |         |         |         |         |         |         |
|           | 16QAM      | 1       | 0         | 17.55   | 17.29   | 17.07   | 17.32   | 17      | 18.80   |
|           |            | 1       | 38        | 17.55   | 17.1    | 17.21   | 17.2    | 17      | 18.80   |
|           |            | 1       | 74        | 17.25   | 17.23   | 17.23   | 17.24   | 17.05   | 18.80   |
|           |            | 36      | 0         | 17.71   | 17.36   | 17.32   | 17.53   | 17.13   | 18.80   |
|           |            | 36      | 18        | 17.48   | 17.47   | 17.26   | 17.5    | 17.24   | 18.80   |
|           |            | 36      | 39        | 17.42   | 17.28   | 17.04   | 17.36   | 16.95   | 18.80   |
|           |            | 75      | 0         | 17.5    | 17.56   | 17.16   | 17.38   | 17.17   | 18.80   |
|           |            |         |           |         |         |         |         |         |         |
|           | 64QAM      | 1       | 0         | 17.6    | 17.39   | 17.41   | 17.26   | 17.53   | 18.80   |
|           |            | 1       | 38        | 17.58   | 17.32   | 16.92   | 17.33   | 17.07   | 18.80   |
|           |            | 1       | 74        | 17.29   | 17.35   | 17.16   | 17.54   | 17.01   | 18.80   |
|           |            | 36      | 0         | 17.54   | 17.38   | 17.2    | 17.43   | 17.51   | 18.80   |
|           |            | 36      | 18        | 17.66   | 17.4    | 17.43   | 17.54   | 17.55   | 18.80   |
|           |            | 36      | 39        | 17.36   | 17.34   | 17.3    | 17.26   | 17.48   | 18.80   |
|           |            | 75      | 0         | 17.38   | 17.32   | 17.17   | 17.4    | 17.36   | 18.80   |
|           |            |         |           |         |         |         |         |         |         |
|           | 256QAM     | 1       | 0         | 17.58   | 17.51   | 17.15   | 17.41   | 17.13   | 18.80   |
|           |            | 1       | 38        | 17.38   | 17.32   | 17.03   | 17.22   | 17.15   | 18.80   |
|           |            | 1       | 74        | 17.4    | 17.18   | 17.03   | 17.16   | 16.9    | 18.80   |
|           |            | 36      | 0         | 17.49   | 17.43   | 17.44   | 17.4    | 17.17   | 18.80   |
|           |            | 36      | 18        | 17.59   | 17.4    | 17.23   | 17.45   | 17.16   | 18.80   |
|           |            | 36      | 39        | 17.51   | 17.41   | 17.34   | 17.4    | 17.2    | 18.80   |
|           |            | 75      | 0         | 17.62   | 17.33   | 17.16   | 17.2    | 17.41   | 18.80   |
|           |            |         |           |         |         |         |         |         |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |

|       |        |     |    |       |       |       |       |       |       |
|-------|--------|-----|----|-------|-------|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 17.49 | 17.42 | 17.54 | 17.45 | 17.3  | 18.80 |
|       |        | 1   | 50 | 17.49 | 17.28 | 17.13 | 17.38 | 17.06 | 18.80 |
|       |        | 1   | 99 | 17.34 | 17.25 | 17.09 | 17.28 | 16.96 | 18.80 |
|       |        | 50  | 0  | 17.56 | 17.48 | 17.29 | 17.47 | 17.32 | 18.80 |
|       |        | 50  | 25 | 17.5  | 17.46 | 17.58 | 17.38 | 17.29 | 18.80 |
|       |        | 50  | 50 | 17.45 | 17.34 | 17.16 | 17.47 | 17.12 | 18.80 |
|       |        | 100 | 0  | 17.2  | 17.14 | 17.26 | 16.98 | 17.06 | 18.80 |
|       | 16QAM  | 1   | 0  | 17.42 | 17.37 | 17.11 | 17.24 | 17.05 | 18.80 |
|       |        | 1   | 50 | 17.62 | 17.25 | 17.11 | 17.13 | 16.97 | 18.80 |
|       |        | 1   | 99 | 17.3  | 17.24 | 17.1  | 17.33 | 17.02 | 18.80 |
|       |        | 50  | 0  | 17.56 | 17.49 | 17.26 | 17.62 | 17.26 | 18.80 |
|       |        | 50  | 25 | 17.51 | 17.43 | 17.29 | 17.42 | 17.22 | 18.80 |
|       |        | 50  | 50 | 17.48 | 17.34 | 17.17 | 17.37 | 17.05 | 18.80 |
|       |        | 100 | 0  | 17.44 | 17.45 | 17.26 | 17.52 | 17.25 | 18.80 |
|       | 64QAM  | 1   | 0  | 17.55 | 17.42 | 17.37 | 17.32 | 17.5  | 18.80 |
|       |        | 1   | 50 | 17.47 | 17.36 | 17.07 | 17.36 | 16.94 | 18.80 |
|       |        | 1   | 99 | 17.33 | 17.35 | 17.17 | 17.42 | 17.09 | 18.80 |
|       |        | 50  | 0  | 17.57 | 17.47 | 17.33 | 17.35 | 17.37 | 18.80 |
|       |        | 50  | 25 | 17.59 | 17.49 | 17.36 | 17.55 | 17.43 | 18.80 |
|       |        | 50  | 50 | 17.44 | 17.36 | 17.24 | 17.38 | 17.35 | 18.80 |
|       |        | 100 | 0  | 17.48 | 17.46 | 17.31 | 17.39 | 17.24 | 18.80 |
|       | 256QAM | 1   | 0  | 17.56 | 17.36 | 17.14 | 17.47 | 17.12 | 18.80 |
|       |        | 1   | 50 | 17.5  | 17.27 | 17.15 | 17.17 | 17.2  | 18.80 |
|       |        | 1   | 99 | 17.5  | 17.18 | 17.06 | 17.16 | 17.01 | 18.80 |
|       |        | 50  | 0  | 17.56 | 17.52 | 17.31 | 17.55 | 17.27 | 18.80 |
|       |        | 50  | 25 | 17.59 | 17.49 | 17.28 | 17.34 | 17.15 | 18.80 |
|       |        | 50  | 50 | 17.48 | 17.4  | 17.2  | 17.39 | 17.12 | 18.80 |
|       |        | 100 | 0  | 17.49 | 17.47 | 17.31 | 17.32 | 17.39 | 18.80 |

| LTE Band 41 DSI 4 |            |         |           | 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         | 22.38                | 22.4    | 22.29   | 22.28   | 22.08   | 23.80   |
|                   |            | 1       | 13        | 22.47                | 22.28   | 22.26   | 22.34   | 22.08   | 23.80   |
|                   |            | 1       | 24        | 22.24                | 22.16   | 22.24   | 22.43   | 22.2    | 23.80   |
|                   |            | 12      | 0         | 22.34                | 21.83   | 21.99   | 21.72   | 21.89   | 23.80   |
|                   |            | 12      | 6         | 22.5                 | 22.3    | 22.25   | 22.21   | 22.07   | 23.80   |
|                   |            | 12      | 13        | 22.15                | 21.72   | 21.92   | 21.66   | 21.92   | 23.80   |
|                   |            | 25      | 0         | 22.2                 | 22.23   | 21.94   | 22.15   | 22.01   | 23.80   |
|                   | 16QAM      | 1       | 0         | 22.52                | 22.26   | 21.99   | 22.19   | 22.08   | 23.80   |
|                   |            | 1       | 13        | 22.25                | 22.03   | 22.18   | 21.86   | 22.19   | 23.80   |
|                   |            | 1       | 24        | 22.32                | 22.26   | 22.14   | 22.2    | 22.22   | 23.80   |
|                   |            | 12      | 0         | 21.81                | 21.84   | 21.34   | 21.77   | 21.74   | 22.80   |
|                   |            | 12      | 6         | 21.85                | 21.69   | 21.54   | 21.91   | 21.54   | 22.80   |
|                   |            | 12      | 13        | 21.59                | 21.61   | 21.47   | 21.78   | 21.31   | 22.80   |
|                   |            | 25      | 0         | 21.8                 | 21.75   | 21.59   | 21.44   | 21.42   | 22.80   |
|                   | 64QAM      | 1       | 0         | 21.4                 | 21.26   | 20.89   | 21.28   | 20.95   | 22.80   |
|                   |            | 1       | 13        | 21.08                | 21.05   | 20.75   | 21.01   | 20.83   | 22.80   |
|                   |            | 1       | 24        | 20.87                | 21.17   | 20.77   | 21.11   | 20.78   | 22.80   |
|                   |            | 12      | 0         | 20.3                 | 20.27   | 20.2    | 20.38   | 19.99   | 21.80   |
|                   |            | 12      | 6         | 20.48                | 20.33   | 20      | 20.32   | 20.11   | 21.80   |
|                   |            | 12      | 13        | 20.08                | 20.13   | 20.05   | 20.25   | 19.9    | 21.80   |
|                   |            | 25      | 0         | 20.4                 | 20.37   | 20.22   | 20.31   | 20.07   | 21.80   |
|                   | 256QAM     | 1       | 0         | 20.08                | 19.91   | 19.84   | 19.96   | 20.11   | 20.80   |
|                   |            | 1       | 13        | 19.93                | 20.14   | 19.83   | 20.21   | 19.97   | 20.80   |
|                   |            | 1       | 24        | 20.24                | 19.75   | 19.67   | 19.85   | 19.86   | 20.80   |
|                   |            | 12      | 0         | 20.32                | 20.43   | 20.08   | 20.35   | 20.09   | 20.80   |
|                   |            | 12      | 6         | 20.43                | 20.21   | 20.01   | 19.98   | 20.26   | 20.80   |
|                   |            | 12      | 13        | 20.32                | 20.23   | 20.01   | 20.09   | 20      | 20.80   |
|                   |            | 25      | 0         | 20.26                | 20.18   | 20.22   | 20.39   | 20.33   | 20.80   |
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|                   |            |         |           | 39700                | 40160   | 40620   | 41080   | 41540   |         |
| 10MHz             | QPSK       | 1       | 0         | 22.23                | 22.22   | 22.21   | 22.45   | 22.34   | 23.80   |
|                   |            | 1       | 25        | 22.56                | 22.38   | 22.2    | 22.28   | 22.13   | 23.80   |
|                   |            | 1       | 49        | 22.38                | 22.2    | 22.14   | 22.28   | 22.06   | 23.80   |
|                   |            | 25      | 0         | 22.24                | 21.85   | 21.99   | 21.88   | 21.79   | 23.80   |
|                   |            | 25      | 13        | 22.42                | 22.38   | 22.11   | 22.09   | 22.05   | 23.80   |
|                   |            | 25      | 25        | 22.26                | 21.62   | 22.11   | 21.43   | 22.08   | 23.80   |
|                   |            | 50      | 0         | 22.16                | 22.17   | 21.96   | 22.14   | 22.23   | 23.80   |
|                   | 16QAM      | 1       | 0         | 22.42                | 22.25   | 22.08   | 22.39   | 22.25   | 23.80   |
|                   |            | 1       | 25        | 22.23                | 21.91   | 22.21   | 21.94   | 22.17   | 23.80   |
|                   |            | 1       | 49        | 22.35                | 22.19   | 22.18   | 22.49   | 22.39   | 23.80   |
|                   |            | 25      | 0         | 21.81                | 21.74   | 21.5    | 21.88   | 21.69   | 22.80   |
|                   |            | 25      | 13        | 21.79                | 21.67   | 21.56   | 21.66   | 21.51   | 22.80   |
|                   |            | 25      | 25        | 21.72                | 21.51   | 21.33   | 21.73   | 21.34   | 22.80   |

|           |            |         |           |         |         |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           |            | 50      | 0         | 21.74   | 21.78   | 21.46   | 21.55   | 21.51   | 22.80   |
|           |            | 64QAM   | 1         | 0       | 21.12   | 21.1    | 20.99   | 21.3    | 22.80   |
|           |            |         | 1         | 25      | 20.98   | 20.85   | 20.95   | 21      | 22.80   |
|           |            |         | 1         | 49      | 20.81   | 21.11   | 20.88   | 21.05   | 22.80   |
|           |            |         | 25        | 0       | 20.41   | 20.36   | 20.1    | 20.39   | 21.80   |
|           |            |         | 25        | 13      | 20.51   | 20.2    | 20.15   | 20.18   | 21.80   |
|           |            |         | 25        | 25      | 20.31   | 20.11   | 19.88   | 20.14   | 21.80   |
|           |            |         | 50        | 0       | 20.31   | 20.17   | 20      | 20.08   | 21.80   |
|           |            | 256QAM  | 1         | 0       | 20.13   | 19.95   | 19.81   | 20.14   | 20.80   |
|           |            |         | 1         | 25      | 20.11   | 20.14   | 19.98   | 20.4    | 20.80   |
|           |            |         | 1         | 49      | 19.95   | 19.86   | 19.58   | 19.71   | 20.80   |
|           |            |         | 25        | 0       | 20.26   | 20.37   | 20.08   | 20.26   | 20.80   |
|           |            |         | 25        | 13      | 20.52   | 20.24   | 20.14   | 20.07   | 20.80   |
|           |            |         | 25        | 25      | 20.22   | 20.22   | 19.88   | 20.16   | 20.80   |
|           |            |         | 50        | 0       | 20.4    | 20.01   | 20.34   | 20.24   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.28   | 22.26   | 22.34   | 22.17   | 22.12   | 23.80   |
|           |            | 1       | 38        | 22.32   | 22.43   | 21.99   | 22.29   | 22.27   | 23.80   |
|           |            | 1       | 74        | 22.35   | 22.14   | 22      | 22.46   | 22.29   | 23.80   |
|           |            | 36      | 0         | 22.33   | 21.81   | 22.02   | 21.66   | 21.95   | 23.80   |
|           |            | 36      | 18        | 22.48   | 22.28   | 22.08   | 22.02   | 21.96   | 23.80   |
|           |            | 36      | 39        | 22.36   | 21.71   | 21.87   | 21.63   | 22.03   | 23.80   |
|           |            | 75      | 0         | 22.16   | 22.23   | 22.21   | 22.26   | 22.07   | 23.80   |
|           | 16QAM      | 1       | 0         | 22.45   | 22.27   | 22.1    | 22.28   | 22.19   | 23.80   |
|           |            | 1       | 38        | 22.29   | 22.03   | 22.21   | 21.83   | 22.1    | 23.80   |
|           |            | 1       | 74        | 22.33   | 22.38   | 22.18   | 22.47   | 22.29   | 23.80   |
|           |            | 36      | 0         | 21.86   | 21.65   | 21.5    | 22.04   | 21.72   | 22.80   |
|           |            | 36      | 18        | 21.86   | 21.88   | 21.62   | 21.84   | 21.4    | 22.80   |
|           |            | 36      | 39        | 21.76   | 21.54   | 21.29   | 21.83   | 21.56   | 22.80   |
|           |            | 75      | 0         | 21.76   | 21.65   | 21.7    | 21.59   | 21.52   | 22.80   |
|           | 64QAM      | 1       | 0         | 21.38   | 21.07   | 21.07   | 21.21   | 20.9    | 22.80   |
|           |            | 1       | 38        | 21.01   | 21.03   | 20.94   | 21.13   | 20.91   | 22.80   |
|           |            | 1       | 74        | 20.87   | 21.22   | 20.64   | 21.16   | 20.84   | 22.80   |
|           |            | 36      | 0         | 20.49   | 20.19   | 20.06   | 20.28   | 19.82   | 21.80   |
|           |            | 36      | 18        | 20.41   | 20.29   | 20.24   | 20.11   | 20.07   | 21.80   |
|           |            | 36      | 39        | 20.14   | 20.19   | 20.05   | 20.09   | 19.83   | 21.80   |
|           |            | 75      | 0         | 20.32   | 20.19   | 19.97   | 20.06   | 20.12   | 21.80   |
|           | 256QAM     | 1       | 0         | 20.03   | 20.06   | 19.91   | 20.01   | 20.13   | 20.80   |
|           |            | 1       | 38        | 19.84   | 20.15   | 19.97   | 20.22   | 19.87   | 20.80   |
|           |            | 1       | 74        | 20.07   | 19.8    | 19.57   | 19.61   | 19.79   | 20.80   |
|           |            | 36      | 0         | 20.41   | 20.39   | 19.97   | 20.27   | 20.28   | 20.80   |
|           |            | 36      | 18        | 20.3    | 20.16   | 20.15   | 20.01   | 20.16   | 20.80   |
|           |            | 36      | 39        | 20.26   | 20.26   | 19.98   | 20.19   | 20.12   | 20.80   |
|           |            | 75      | 0         | 20.2    | 20.01   | 20.41   | 20.38   | 20.26   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |

|       |        |     |    |       |       |       |       |       |       |
|-------|--------|-----|----|-------|-------|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 22.38 | 22.32 | 22.27 | 22.31 | 22.21 | 23.80 |
|       |        | 1   | 50 | 22.44 | 22.3  | 22.14 | 22.19 | 22.2  | 23.80 |
|       |        | 1   | 99 | 22.36 | 22.29 | 22.13 | 22.36 | 22.2  | 23.80 |
|       |        | 50  | 0  | 22.39 | 21.83 | 22.08 | 21.74 | 21.94 | 23.80 |
|       |        | 50  | 25 | 22.41 | 22.28 | 22.12 | 22.16 | 22.1  | 23.80 |
|       |        | 50  | 50 | 22.27 | 21.71 | 22    | 21.57 | 22.03 | 23.80 |
|       |        | 100 | 0  | 22.3  | 22.27 | 22.09 | 22.25 | 22.09 | 23.80 |
|       | 16QAM  | 1   | 0  | 22.4  | 22.34 | 22.08 | 22.31 | 22.14 | 23.80 |
|       |        | 1   | 50 | 22.3  | 22.06 | 22.18 | 21.98 | 22.19 | 23.80 |
|       |        | 1   | 99 | 22.45 | 22.27 | 22.14 | 22.35 | 22.28 | 23.80 |
|       |        | 50  | 0  | 21.87 | 21.79 | 21.46 | 21.92 | 21.6  | 22.80 |
|       |        | 50  | 25 | 21.88 | 21.76 | 21.52 | 21.77 | 21.54 | 22.80 |
|       |        | 50  | 50 | 21.73 | 21.64 | 21.43 | 21.73 | 21.42 | 22.80 |
|       |        | 100 | 0  | 21.75 | 21.67 | 21.58 | 21.56 | 21.53 | 22.80 |
|       | 64QAM  | 1   | 0  | 21.27 | 21.14 | 20.99 | 21.19 | 20.84 | 22.80 |
|       |        | 1   | 50 | 21.12 | 20.96 | 20.87 | 21.05 | 20.77 | 22.80 |
|       |        | 1   | 99 | 20.96 | 21.12 | 20.77 | 21.02 | 20.85 | 22.80 |
|       |        | 50  | 0  | 20.39 | 20.28 | 20.12 | 20.27 | 19.97 | 21.80 |
|       |        | 50  | 25 | 20.36 | 20.29 | 20.13 | 20.23 | 20.07 | 21.80 |
|       |        | 50  | 50 | 20.23 | 20.17 | 19.95 | 20.18 | 19.85 | 21.80 |
|       |        | 100 | 0  | 20.29 | 20.28 | 20.1  | 20.21 | 19.97 | 21.80 |
|       | 256QAM | 1   | 0  | 20.06 | 19.95 | 19.93 | 20.06 | 20.03 | 20.80 |
|       |        | 1   | 50 | 19.98 | 20.17 | 19.83 | 20.29 | 19.86 | 20.80 |
|       |        | 1   | 99 | 20.1  | 19.9  | 19.62 | 19.76 | 19.73 | 20.80 |
|       |        | 50  | 0  | 20.37 | 20.29 | 20.08 | 20.31 | 20.16 | 20.80 |
|       |        | 50  | 25 | 20.4  | 20.27 | 20.08 | 20.12 | 20.21 | 20.80 |
|       |        | 50  | 50 | 20.3  | 20.14 | 19.98 | 20.22 | 20.09 | 20.80 |
|       |        | 100 | 0  | 20.32 | 20.11 | 20.41 | 20.26 | 20.24 | 20.80 |

| LTE Band 41 DSI 5/6 |            |         |           | 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         | 21.96                | 21.73   | 21.9    | 21.78   | 21.79   | 23.30   |
|                     |            | 1       | 13        | 21.88                | 21.67   | 21.58   | 21.62   | 21.76   | 23.30   |
|                     |            | 1       | 24        | 21.86                | 21.67   | 21.72   | 21.5    | 21.53   | 23.30   |
|                     |            | 12      | 0         | 22.15                | 22.03   | 21.93   | 21.97   | 21.87   | 23.30   |
|                     |            | 12      | 6         | 21.97                | 21.96   | 21.82   | 22.04   | 21.99   | 23.30   |
|                     |            | 12      | 13        | 21.87                | 21.73   | 21.65   | 21.59   | 21.69   | 23.30   |
|                     |            | 25      | 0         | 21.82                | 21.94   | 21.86   | 21.98   | 21.82   | 23.30   |
|                     | 16QAM      | 1       | 0         | 21.56                | 21.79   | 21.3    | 21.63   | 21.52   | 23.30   |
|                     |            | 1       | 13        | 21.84                | 21.74   | 21.52   | 21.69   | 21.74   | 23.30   |
|                     |            | 1       | 24        | 21.76                | 21.82   | 21.46   | 21.76   | 21.56   | 23.30   |
|                     |            | 12      | 0         | 21.73                | 21.75   | 21.6    | 21.76   | 21.56   | 22.80   |
|                     |            | 12      | 6         | 21.78                | 21.56   | 21.55   | 21.83   | 21.41   | 22.80   |
|                     |            | 12      | 13        | 21.56                | 21.69   | 21.3    | 21.56   | 21.38   | 22.80   |
|                     |            | 25      | 0         | 21.76                | 21.65   | 21.5    | 21.65   | 21.6    | 22.80   |
|                     | 64QAM      | 1       | 0         | 20.88                | 20.92   | 20.92   | 20.86   | 20.91   | 22.80   |
|                     |            | 1       | 13        | 21.05                | 20.95   | 20.87   | 20.9    | 20.95   | 22.80   |
|                     |            | 1       | 24        | 21.01                | 20.88   | 20.67   | 20.93   | 20.5    | 22.80   |
|                     |            | 12      | 0         | 20.29                | 20.29   | 19.87   | 20.18   | 19.82   | 21.80   |
|                     |            | 12      | 6         | 20.33                | 20.17   | 19.91   | 20.24   | 19.87   | 21.80   |
|                     |            | 12      | 13        | 20.28                | 20      | 19.71   | 20.11   | 19.89   | 21.80   |
|                     |            | 25      | 0         | 20.18                | 20.32   | 19.91   | 20.29   | 20.03   | 21.80   |
|                     | 256QAM     | 1       | 0         | 20.47                | 20.2    | 20.09   | 20.1    | 20.1    | 20.80   |
|                     |            | 1       | 13        | 19.94                | 19.83   | 19.58   | 20.01   | 19.44   | 20.80   |
|                     |            | 1       | 24        | 20                   | 19.51   | 19.82   | 19.36   | 19.88   | 20.80   |
|                     |            | 12      | 0         | 20.31                | 20.13   | 19.93   | 20.16   | 19.77   | 20.80   |
|                     |            | 12      | 6         | 20.51                | 19.8    | 19.94   | 19.91   | 20.21   | 20.80   |
|                     |            | 12      | 13        | 20.23                | 19.9    | 19.94   | 19.91   | 20.01   | 20.80   |
|                     |            | 25      | 0         | 20.3                 | 20.16   | 19.73   | 20.31   | 19.59   | 20.80   |
| Bandwidth           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|                     |            |         |           | 39700                | 40160   | 40620   | 41080   | 41540   |         |
| 10MHz               | QPSK       | 1       | 0         | 21.87                | 21.96   | 21.81   | 22.01   | 21.54   | 23.30   |
|                     |            | 1       | 25        | 21.77                | 21.62   | 21.54   | 21.8    | 21.69   | 23.30   |
|                     |            | 1       | 49        | 21.92                | 21.59   | 21.74   | 21.74   | 21.6    | 23.30   |
|                     |            | 25      | 0         | 21.95                | 21.82   | 21.86   | 22.02   | 21.86   | 23.30   |
|                     |            | 25      | 13        | 22.15                | 21.97   | 21.9    | 21.96   | 21.76   | 23.30   |
|                     |            | 25      | 25        | 21.86                | 21.75   | 21.62   | 21.64   | 21.66   | 23.30   |
|                     |            | 50      | 0         | 21.81                | 21.77   | 21.71   | 22.13   | 21.77   | 23.30   |
|                     | 16QAM      | 1       | 0         | 21.67                | 21.71   | 21.28   | 21.7    | 21.34   | 23.30   |
|                     |            | 1       | 25        | 21.93                | 21.67   | 21.57   | 21.64   | 21.66   | 23.30   |
|                     |            | 1       | 49        | 21.74                | 21.59   | 21.4    | 21.55   | 21.46   | 23.30   |
|                     |            | 25      | 0         | 21.86                | 21.55   | 21.46   | 21.84   | 21.62   | 22.80   |
|                     |            | 25      | 13        | 21.85                | 21.64   | 21.43   | 21.67   | 21.5    | 22.80   |
|                     |            | 25      | 25        | 21.79                | 21.62   | 21.36   | 21.52   | 21.29   | 22.80   |

|           |            |         |           |         |         |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           |            | 50      | 0         | 21.73   | 21.49   | 21.56   | 21.42   | 21.43   | 22.80   |
|           | 64QAM      | 1       | 0         | 20.93   | 20.88   | 20.94   | 20.72   | 20.87   | 22.80   |
|           |            | 1       | 25        | 21.25   | 20.95   | 21.03   | 21.03   | 21.18   | 22.80   |
|           |            | 1       | 49        | 20.79   | 21.03   | 20.71   | 20.98   | 20.61   | 22.80   |
|           |            | 25      | 0         | 20.37   | 20.25   | 20.03   | 20.19   | 19.95   | 21.80   |
|           |            | 25      | 13        | 20.28   | 20.22   | 19.96   | 20.14   | 19.94   | 21.80   |
|           |            | 25      | 25        | 20.35   | 19.93   | 19.87   | 19.99   | 19.82   | 21.80   |
|           |            | 50      | 0         | 20.25   | 20.36   | 19.93   | 20.51   | 20.18   | 21.80   |
|           |            | 1       | 0         | 20.35   | 20.03   | 20      | 20.12   | 20.03   | 20.80   |
|           | 256QAM     | 1       | 25        | 20.16   | 20.01   | 19.68   | 20.06   | 19.52   | 20.80   |
|           |            | 1       | 49        | 20.21   | 19.4    | 19.83   | 19.41   | 19.91   | 20.80   |
|           |            | 25      | 0         | 20.23   | 20.18   | 20.03   | 20.14   | 19.75   | 20.80   |
|           |            | 25      | 13        | 20.46   | 19.87   | 20.1    | 19.79   | 20.08   | 20.80   |
|           |            | 25      | 25        | 20.3    | 19.89   | 19.83   | 19.87   | 19.99   | 20.80   |
|           |            | 50      | 0         | 20.12   | 20.08   | 19.78   | 20.29   | 19.72   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
| 15MHz     | QPSK       | 1       | 0         | 21.87   | 21.97   | 21.62   | 21.74   | 21.79   | 23.30   |
|           |            | 1       | 38        | 21.79   | 21.54   | 21.59   | 21.73   | 21.6    | 23.30   |
|           |            | 1       | 74        | 21.93   | 21.83   | 21.6    | 21.64   | 21.47   | 23.30   |
|           |            | 36      | 0         | 22.04   | 21.84   | 21.69   | 22.11   | 21.64   | 23.30   |
|           |            | 36      | 18        | 22.19   | 21.79   | 21.69   | 21.94   | 21.71   | 23.30   |
|           |            | 36      | 39        | 21.96   | 21.73   | 21.6    | 21.73   | 21.53   | 23.30   |
|           |            | 75      | 0         | 22.05   | 21.97   | 21.61   | 21.99   | 21.7    | 23.30   |
|           |            | 1       | 0         | 21.77   | 21.79   | 21.33   | 21.76   | 21.36   | 23.30   |
|           | 16QAM      | 1       | 38        | 21.71   | 21.8    | 21.68   | 21.65   | 21.55   | 23.30   |
|           |            | 1       | 74        | 21.77   | 21.81   | 21.45   | 21.73   | 21.3    | 23.30   |
|           |            | 36      | 0         | 21.9    | 21.56   | 21.47   | 21.78   | 21.65   | 22.80   |
|           |            | 36      | 18        | 21.71   | 21.66   | 21.52   | 21.85   | 21.45   | 22.80   |
|           |            | 36      | 39        | 21.86   | 21.45   | 21.47   | 21.48   | 21.22   | 22.80   |
|           |            | 75      | 0         | 21.89   | 21.5    | 21.51   | 21.54   | 21.35   | 22.80   |
|           |            | 1       | 0         | 20.89   | 21.04   | 20.97   | 20.93   | 20.85   | 22.80   |
|           |            | 1       | 38        | 21.21   | 21.06   | 20.85   | 20.95   | 21.19   | 22.80   |
|           | 64QAM      | 1       | 74        | 20.93   | 20.88   | 20.54   | 20.99   | 20.68   | 22.80   |
|           |            | 36      | 0         | 20.24   | 20.21   | 19.93   | 20.32   | 20      | 21.80   |
|           |            | 36      | 18        | 20.23   | 20.07   | 19.86   | 20.11   | 19.97   | 21.80   |
|           |            | 36      | 39        | 20.1    | 20.03   | 19.98   | 20.06   | 19.67   | 21.80   |
|           |            | 75      | 0         | 20.36   | 20.24   | 20.04   | 20.42   | 20.15   | 21.80   |
|           |            | 1       | 0         | 20.46   | 20.13   | 19.97   | 19.94   | 20      | 20.80   |
|           |            | 1       | 38        | 20.05   | 19.93   | 19.52   | 20.07   | 19.54   | 20.80   |
|           |            | 1       | 74        | 20.07   | 19.41   | 19.91   | 19.33   | 19.79   | 20.80   |
|           | 256QAM     | 36      | 0         | 20.5    | 20.1    | 20.07   | 20.22   | 19.92   | 20.80   |
|           |            | 36      | 18        | 20.47   | 19.98   | 20.06   | 19.84   | 20.22   | 20.80   |
|           |            | 36      | 39        | 20.27   | 20.13   | 19.92   | 20      | 19.73   | 20.80   |
|           |            | 75      | 0         | 20.12   | 20.1    | 19.69   | 20.27   | 19.81   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |

|       |        |     |    |       |       |       |       |       |       |
|-------|--------|-----|----|-------|-------|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 21.92 | 21.84 | 21.97 | 21.88 | 21.68 | 23.30 |
|       |        | 1   | 50 | 21.9  | 21.69 | 21.62 | 21.65 | 21.65 | 23.30 |
|       |        | 1   | 99 | 21.8  | 21.71 | 21.62 | 21.62 | 21.55 | 23.30 |
|       |        | 50  | 0  | 22.04 | 21.94 | 21.78 | 22    | 21.77 | 23.30 |
|       |        | 50  | 25 | 22.07 | 21.94 | 22.08 | 21.91 | 21.84 | 23.30 |
|       |        | 50  | 50 | 21.91 | 21.81 | 21.67 | 21.72 | 21.6  | 23.30 |
|       |        | 100 | 0  | 21.93 | 21.9  | 21.74 | 22    | 21.8  | 23.30 |
|       | 16QAM  | 1   | 0  | 21.71 | 21.75 | 21.35 | 21.7  | 21.37 | 23.30 |
|       |        | 1   | 50 | 21.8  | 21.78 | 21.53 | 21.69 | 21.66 | 23.30 |
|       |        | 1   | 99 | 21.7  | 21.67 | 21.36 | 21.7  | 21.43 | 23.30 |
|       |        | 50  | 0  | 21.84 | 21.66 | 21.55 | 21.71 | 21.54 | 22.80 |
|       |        | 50  | 25 | 21.81 | 21.63 | 21.48 | 21.78 | 21.5  | 22.80 |
|       |        | 50  | 50 | 21.71 | 21.56 | 21.42 | 21.6  | 21.36 | 22.80 |
|       |        | 100 | 0  | 21.76 | 21.64 | 21.52 | 21.57 | 21.49 | 22.80 |
|       | 64QAM  | 1   | 0  | 21.03 | 20.94 | 20.86 | 20.79 | 20.95 | 22.80 |
|       |        | 1   | 50 | 21.16 | 21.05 | 20.93 | 20.94 | 21.04 | 22.80 |
|       |        | 1   | 99 | 20.94 | 20.95 | 20.69 | 20.84 | 20.63 | 22.80 |
|       |        | 50  | 0  | 20.37 | 20.22 | 20    | 20.33 | 19.95 | 21.80 |
|       |        | 50  | 25 | 20.38 | 20.2  | 19.85 | 20.09 | 19.91 | 21.80 |
|       |        | 50  | 50 | 20.22 | 19.92 | 19.84 | 20.02 | 19.8  | 21.80 |
|       |        | 100 | 0  | 20.28 | 20.23 | 20.04 | 20.37 | 20.18 | 21.80 |
|       | 256QAM | 1   | 0  | 20.32 | 20.06 | 20.08 | 19.98 | 20.08 | 20.80 |
|       |        | 1   | 50 | 20.07 | 19.96 | 19.64 | 20    | 19.59 | 20.80 |
|       |        | 1   | 99 | 20.12 | 19.44 | 19.88 | 19.48 | 19.86 | 20.80 |
|       |        | 50  | 0  | 20.37 | 20.21 | 19.99 | 20.17 | 19.87 | 20.80 |
|       |        | 50  | 25 | 20.37 | 19.94 | 20.03 | 19.83 | 20.16 | 20.80 |
|       |        | 50  | 50 | 20.25 | 20.03 | 19.91 | 19.95 | 19.88 | 20.80 |
|       |        | 100 | 0  | 20.25 | 20.21 | 19.82 | 20.23 | 19.71 | 20.80 |

| LTE Band 41 DSI 7 |            |         |           | 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         | 23.27                | 23.05   | 22.94   | 22.81   | 22.67   | 24.80   |
|                   |            | 1       | 13        | 23.34                | 23.08   | 22.65   | 22.94   | 22.48   | 24.80   |
|                   |            | 1       | 24        | 23.09                | 22.89   | 23.06   | 23.03   | 22.95   | 24.80   |
|                   |            | 12      | 0         | 22.48                | 22.13   | 22.07   | 22.32   | 22      | 23.80   |
|                   |            | 12      | 6         | 22.28                | 22.34   | 22.09   | 22.15   | 21.91   | 23.80   |
|                   |            | 12      | 13        | 22.41                | 22.08   | 22.04   | 22.07   | 22.03   | 23.80   |
|                   |            | 25      | 0         | 22.23                | 22.35   | 21.98   | 22.12   | 21.83   | 23.80   |
|                   | 16QAM      | 1       | 0         | 22.55                | 22.75   | 22.42   | 22.88   | 22.42   | 23.80   |
|                   |            | 1       | 13        | 22.6                 | 22.59   | 22.34   | 22.49   | 22.43   | 23.80   |
|                   |            | 1       | 24        | 22.58                | 22.48   | 22.36   | 22.55   | 22.22   | 23.80   |
|                   |            | 12      | 0         | 21.75                | 21.69   | 21.66   | 21.76   | 21.62   | 22.80   |
|                   |            | 12      | 6         | 21.85                | 21.49   | 21.49   | 21.59   | 21.48   | 22.80   |
|                   |            | 12      | 13        | 21.84                | 21.64   | 21.41   | 21.42   | 21.45   | 22.80   |
|                   |            | 25      | 0         | 21.78                | 21.53   | 21.49   | 21.58   | 21.56   | 22.80   |
|                   | 64QAM      | 1       | 0         | 21.15                | 20.79   | 20.71   | 20.6    | 20.57   | 22.80   |
|                   |            | 1       | 13        | 21.16                | 20.81   | 20.8    | 20.93   | 20.72   | 22.80   |
|                   |            | 1       | 24        | 21.12                | 20.82   | 20.9    | 20.91   | 21.1    | 22.80   |
|                   |            | 12      | 0         | 20.42                | 20.14   | 20.1    | 20.25   | 20.11   | 21.80   |
|                   |            | 12      | 6         | 20.22                | 20.13   | 20.02   | 20.32   | 19.91   | 21.80   |
|                   |            | 12      | 13        | 20.36                | 20.02   | 19.66   | 20.15   | 19.74   | 21.80   |
|                   |            | 25      | 0         | 20.33                | 20.27   | 19.9    | 20.03   | 20.1    | 21.80   |
|                   | 256QAM     | 1       | 0         | 20.28                | 20.12   | 20.04   | 20.16   | 19.92   | 20.80   |
|                   |            | 1       | 13        | 19.96                | 20.08   | 19.67   | 19.98   | 19.74   | 20.80   |
|                   |            | 1       | 24        | 20.25                | 19.99   | 19.68   | 19.98   | 19.85   | 20.80   |
|                   |            | 12      | 0         | 20.37                | 20.14   | 20.07   | 20      | 19.97   | 20.80   |
|                   |            | 12      | 6         | 20.29                | 20.31   | 20.14   | 20.05   | 19.88   | 20.80   |
|                   |            | 12      | 13        | 20.2                 | 19.96   | 19.63   | 19.83   | 19.69   | 20.80   |
|                   |            | 25      | 0         | 20.27                | 20.15   | 19.64   | 20.26   | 19.61   | 20.80   |
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|                   |            |         |           | 39700                | 40160   | 40620   | 41080   | 41540   |         |
| 10MHz             | QPSK       | 1       | 0         | 23.23                | 23.1    | 22.93   | 23      | 22.86   | 24.80   |
|                   |            | 1       | 25        | 23.24                | 23.01   | 22.83   | 22.82   | 22.7    | 24.80   |
|                   |            | 1       | 49        | 23.08                | 22.79   | 22.85   | 23.06   | 22.87   | 24.80   |
|                   |            | 25      | 0         | 22.47                | 22.21   | 21.99   | 22.18   | 22.07   | 23.80   |
|                   |            | 25      | 13        | 22.41                | 22.26   | 22.09   | 22.25   | 21.92   | 23.80   |
|                   |            | 25      | 25        | 22.12                | 22.02   | 22.11   | 21.96   | 21.8    | 23.80   |
|                   |            | 50      | 0         | 22.23                | 22.27   | 21.97   | 22.14   | 21.91   | 23.80   |
|                   | 16QAM      | 1       | 0         | 22.43                | 22.54   | 22.34   | 22.74   | 22.61   | 23.80   |
|                   |            | 1       | 25        | 22.58                | 22.32   | 22.13   | 22.57   | 22.45   | 23.80   |
|                   |            | 1       | 49        | 22.65                | 22.44   | 22.42   | 22.43   | 22.21   | 23.80   |
|                   |            | 25      | 0         | 21.88                | 21.53   | 21.55   | 21.49   | 21.57   | 22.80   |
|                   |            | 25      | 13        | 21.87                | 21.56   | 21.59   | 21.69   | 21.54   | 22.80   |
|                   |            | 25      | 25        | 21.61                | 21.73   | 21.57   | 21.41   | 21.28   | 22.80   |

|           |            |         |           |         |         |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           |            | 50      | 0         | 21.78   | 21.69   | 21.51   | 21.41   | 21.53   | 22.80   |
|           | 64QAM      | 1       | 0         | 20.93   | 20.87   | 20.65   | 20.74   | 20.76   | 22.80   |
|           |            | 1       | 25        | 21      | 20.85   | 20.97   | 20.94   | 20.73   | 22.80   |
|           |            | 1       | 49        | 21.21   | 20.78   | 20.82   | 21.04   | 20.85   | 22.80   |
|           |            | 25      | 0         | 20.47   | 20.27   | 20.09   | 20.3    | 20.12   | 21.80   |
|           |            | 25      | 13        | 20.35   | 20.14   | 19.87   | 20.19   | 19.73   | 21.80   |
|           |            | 25      | 25        | 20.12   | 19.95   | 19.72   | 20.05   | 19.9    | 21.80   |
|           |            | 50      | 0         | 20.11   | 20.05   | 19.95   | 20.15   | 20.07   | 21.80   |
|           |            | 1       | 0         | 20.12   | 20.09   | 19.99   | 20.19   | 20.12   | 20.80   |
|           | 256QAM     | 1       | 25        | 20.06   | 20.12   | 19.64   | 20.02   | 19.8    | 20.80   |
|           |            | 1       | 49        | 20.2    | 20.14   | 19.6    | 19.91   | 19.72   | 20.80   |
|           |            | 25      | 0         | 20.38   | 20.08   | 19.97   | 20.06   | 20      | 20.80   |
|           |            | 25      | 13        | 20.31   | 20.19   | 20.12   | 20.14   | 19.91   | 20.80   |
|           |            | 25      | 25        | 20.38   | 20.04   | 19.74   | 20.03   | 19.72   | 20.80   |
|           |            | 50      | 0         | 20.27   | 20.26   | 19.73   | 20.35   | 19.4    | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.01   | 23.07   | 23.02   | 22.82   | 22.81   | 24.80   |
|           |            | 1       | 38        | 23.11   | 23.09   | 22.57   | 22.75   | 22.47   | 24.80   |
|           |            | 1       | 74        | 23.11   | 22.92   | 22.82   | 23.06   | 22.69   | 24.80   |
|           |            | 36      | 0         | 22.4    | 22.29   | 21.98   | 22.32   | 22.11   | 23.80   |
|           |            | 36      | 18        | 22.19   | 22.23   | 22.13   | 22.36   | 21.78   | 23.80   |
|           |            | 36      | 39        | 22.23   | 22.27   | 21.86   | 22.12   | 21.91   | 23.80   |
|           |            | 75      | 0         | 22.23   | 22.38   | 22.11   | 22.14   | 21.88   | 23.80   |
|           | 16QAM      | 1       | 0         | 22.48   | 22.62   | 22.36   | 22.61   | 22.64   | 23.80   |
|           |            | 1       | 38        | 22.74   | 22.41   | 22.28   | 22.56   | 22.52   | 23.80   |
|           |            | 1       | 74        | 22.75   | 22.46   | 22.31   | 22.5    | 22.43   | 23.80   |
|           |            | 36      | 0         | 21.9    | 21.62   | 21.69   | 21.64   | 21.53   | 22.80   |
|           |            | 36      | 18        | 21.85   | 21.63   | 21.38   | 21.66   | 21.53   | 22.80   |
|           |            | 36      | 39        | 21.68   | 21.7    | 21.42   | 21.42   | 21.52   | 22.80   |
|           |            | 75      | 0         | 21.7    | 21.66   | 21.65   | 21.46   | 21.77   | 22.80   |
|           | 64QAM      | 1       | 0         | 21.01   | 20.92   | 20.58   | 20.72   | 20.66   | 22.80   |
|           |            | 1       | 38        | 21.27   | 20.96   | 20.84   | 20.84   | 20.68   | 22.80   |
|           |            | 1       | 74        | 21.08   | 20.84   | 20.79   | 21.02   | 21.1    | 22.80   |
|           |            | 36      | 0         | 20.42   | 20.31   | 20.08   | 20.22   | 19.99   | 21.80   |
|           |            | 36      | 18        | 20.31   | 20.19   | 19.92   | 20.32   | 19.95   | 21.80   |
|           |            | 36      | 39        | 20.21   | 19.95   | 19.79   | 20.12   | 19.78   | 21.80   |
|           |            | 75      | 0         | 20.17   | 20.26   | 19.99   | 19.98   | 20.17   | 21.80   |
|           | 256QAM     | 1       | 0         | 20.41   | 19.94   | 20.1    | 20.05   | 19.91   | 20.80   |
|           |            | 1       | 38        | 20.14   | 19.99   | 19.63   | 19.97   | 19.79   | 20.80   |
|           |            | 1       | 74        | 20.25   | 20.07   | 19.68   | 19.87   | 19.86   | 20.80   |
|           |            | 36      | 0         | 20.19   | 20.22   | 19.94   | 20.03   | 20      | 20.80   |
|           |            | 36      | 18        | 20.33   | 20.22   | 19.94   | 20.11   | 19.98   | 20.80   |
|           |            | 36      | 39        | 20.39   | 20.23   | 19.93   | 19.95   | 19.69   | 20.80   |
|           |            | 75      | 0         | 20.19   | 20.32   | 19.66   | 20.32   | 19.68   | 20.80   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |

|       |        |     |    |       |       |       |       |       |       |
|-------|--------|-----|----|-------|-------|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 23.12 | 23.06 | 23.2  | 22.92 | 22.8  | 24.80 |
|       |        | 1   | 50 | 23.19 | 23.03 | 22.72 | 22.9  | 22.57 | 24.80 |
|       |        | 1   | 99 | 23.15 | 22.94 | 22.93 | 23.06 | 22.81 | 24.80 |
|       |        | 50  | 0  | 22.37 | 22.25 | 22.06 | 22.23 | 22.01 | 23.80 |
|       |        | 50  | 25 | 22.34 | 22.29 | 22.38 | 22.23 | 21.9  | 23.80 |
|       |        | 50  | 50 | 22.26 | 22.13 | 21.98 | 22.01 | 21.93 | 23.80 |
|       |        | 100 | 0  | 22.27 | 22.23 | 22.06 | 22.11 | 21.93 | 23.80 |
|       | 16QAM  | 1   | 0  | 22.4  | 22.66 | 22.42 | 22.74 | 22.56 | 23.80 |
|       |        | 1   | 50 | 22.73 | 22.46 | 22.25 | 22.56 | 22.39 | 23.80 |
|       |        | 1   | 99 | 22.62 | 22.48 | 22.31 | 22.49 | 22.3  | 23.80 |
|       |        | 50  | 0  | 21.87 | 21.59 | 21.56 | 21.63 | 21.55 | 22.80 |
|       |        | 50  | 25 | 21.81 | 21.59 | 21.45 | 21.69 | 21.45 | 22.80 |
|       |        | 50  | 50 | 21.73 | 21.61 | 21.43 | 21.56 | 21.39 | 22.80 |
|       |        | 100 | 0  | 21.73 | 21.54 | 21.54 | 21.56 | 21.66 | 22.80 |
|       | 64QAM  | 1   | 0  | 21.04 | 20.83 | 20.73 | 20.71 | 20.65 | 22.80 |
|       |        | 1   | 50 | 21.13 | 20.86 | 20.84 | 20.9  | 20.76 | 22.80 |
|       |        | 1   | 99 | 21.06 | 20.89 | 20.87 | 21.02 | 20.97 | 22.80 |
|       |        | 50  | 0  | 20.33 | 20.25 | 20.04 | 20.3  | 20.13 | 21.80 |
|       |        | 50  | 25 | 20.31 | 20.22 | 19.98 | 20.27 | 19.84 | 21.80 |
|       |        | 50  | 50 | 20.21 | 20.05 | 19.74 | 20.15 | 19.82 | 21.80 |
|       |        | 100 | 0  | 20.23 | 20.2  | 19.96 | 20.11 | 20.11 | 21.80 |
|       | 256QAM | 1   | 0  | 20.26 | 20.02 | 19.96 | 20.16 | 19.99 | 20.80 |
|       |        | 1   | 50 | 20.08 | 20.08 | 19.65 | 19.93 | 19.68 | 20.80 |
|       |        | 1   | 99 | 20.14 | 19.99 | 19.71 | 19.87 | 19.84 | 20.80 |
|       |        | 50  | 0  | 20.34 | 20.23 | 20.06 | 20.12 | 20.01 | 20.80 |
|       |        | 50  | 25 | 20.35 | 20.23 | 20.04 | 20.1  | 19.95 | 20.80 |
|       |        | 50  | 50 | 20.27 | 20.08 | 19.78 | 19.95 | 19.84 | 20.80 |
|       |        | 100 | 0  | 20.29 | 20.21 | 19.65 | 20.24 | 19.53 | 20.80 |

| LTE Band 66 DSI 2/3 |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz              | QPSK       | 1       | 0         | 15.75                | 15.58   | 15.51   | 17.30   |
|                     |            | 1       | 2         | 15.86                | 15.69   | 16.04   | 17.30   |
|                     |            | 1       | 5         | 15.70                | 15.70   | 15.65   | 17.30   |
|                     |            | 3       | 0         | 15.49                | 15.88   | 15.53   | 17.30   |
|                     |            | 3       | 1         | 15.85                | 15.70   | 15.66   | 17.30   |
|                     |            | 3       | 3         | 15.68                | 15.88   | 15.74   | 17.30   |
|                     |            | 6       | 0         | 15.71                | 15.68   | 15.66   | 17.30   |
|                     | 16QAM      | 1       | 0         | 15.50                | 15.61   | 15.73   | 17.30   |
|                     |            | 1       | 2         | 15.67                | 15.86   | 15.73   | 17.30   |
|                     |            | 1       | 5         | 15.82                | 15.66   | 15.55   | 17.30   |
|                     |            | 3       | 0         | 15.73                | 15.54   | 15.52   | 17.30   |
|                     |            | 3       | 1         | 15.75                | 15.69   | 15.83   | 17.30   |
|                     |            | 3       | 3         | 15.57                | 15.83   | 15.93   | 17.30   |
|                     |            | 6       | 0         | 15.67                | 15.74   | 15.60   | 17.30   |
|                     | 64QAM      | 1       | 0         | 15.77                | 16.00   | 15.80   | 17.30   |
|                     |            | 1       | 2         | 15.83                | 15.97   | 15.85   | 17.30   |
|                     |            | 1       | 5         | 15.93                | 15.86   | 15.75   | 17.30   |
|                     |            | 3       | 0         | 15.47                | 15.51   | 15.68   | 17.30   |
|                     |            | 3       | 1         | 15.87                | 15.74   | 15.72   | 17.30   |
|                     |            | 3       | 3         | 15.59                | 15.74   | 16.01   | 17.30   |
|                     |            | 6       | 0         | 15.70                | 15.55   | 15.74   | 17.30   |
|                     | 256QAM     | 1       | 0         | 15.58                | 15.78   | 15.60   | 17.30   |
|                     |            | 1       | 2         | 15.75                | 15.87   | 15.95   | 17.30   |
|                     |            | 1       | 5         | 15.74                | 15.76   | 15.58   | 17.30   |
|                     |            | 3       | 0         | 15.71                | 15.55   | 15.49   | 17.30   |
|                     |            | 3       | 1         | 15.77                | 15.61   | 15.73   | 17.30   |
|                     |            | 3       | 3         | 15.80                | 15.86   | 15.66   | 17.30   |
|                     |            | 6       | 0         | 15.75                | 15.60   | 15.68   | 17.30   |
| Bandwidth           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 3MHz                | QPSK       | 1       | 0         | 15.50                | 15.52   | 15.58   | 17.30   |
|                     |            | 1       | 7         | 15.68                | 15.85   | 16.02   | 17.30   |
|                     |            | 1       | 14        | 15.77                | 15.63   | 15.83   | 17.30   |
|                     |            | 8       | 0         | 15.56                | 15.63   | 15.57   | 17.30   |
|                     |            | 8       | 4         | 15.77                | 15.80   | 15.83   | 17.30   |
|                     |            | 8       | 7         | 15.92                | 15.89   | 15.72   | 17.30   |
|                     |            | 15      | 0         | 15.53                | 15.79   | 15.69   | 17.30   |
|                     | 16QAM      | 1       | 0         | 15.61                | 15.69   | 15.64   | 17.30   |
|                     |            | 1       | 7         | 15.47                | 15.70   | 15.91   | 17.30   |
|                     |            | 1       | 14        | 15.75                | 15.88   | 15.59   | 17.30   |
|                     |            | 8       | 0         | 15.72                | 15.61   | 15.44   | 17.30   |
|                     |            | 8       | 4         | 15.81                | 15.83   | 15.85   | 17.30   |
|                     |            | 8       | 7         | 15.69                | 15.95   | 15.94   | 17.30   |

|           |            | 15      | 0         | 15.81   | 15.62   | 15.71   | 17.30   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 64QAM      | 1       | 0         | 15.76   | 16.05   | 15.93   | 17.30   |
|           |            | 1       | 7         | 15.87   | 15.85   | 15.87   | 17.30   |
|           |            | 1       | 14        | 15.88   | 16.01   | 15.77   | 17.30   |
|           |            | 8       | 0         | 15.42   | 15.64   | 15.64   | 17.30   |
|           |            | 8       | 4         | 15.86   | 15.73   | 15.80   | 17.30   |
|           |            | 8       | 7         | 15.57   | 15.78   | 15.71   | 17.30   |
|           |            | 15      | 0         | 15.76   | 15.77   | 15.70   | 17.30   |
|           | 256QAM     | 1       | 0         | 15.53   | 15.87   | 15.64   | 17.30   |
|           |            | 1       | 7         | 15.90   | 15.80   | 15.70   | 17.30   |
|           |            | 1       | 14        | 15.75   | 15.84   | 15.83   | 17.30   |
|           |            | 8       | 0         | 15.51   | 15.49   | 15.53   | 17.30   |
|           |            | 8       | 4         | 15.78   | 15.59   | 15.71   | 17.30   |
|           |            | 8       | 7         | 15.61   | 15.93   | 15.54   | 17.30   |
|           |            | 15      | 0         | 15.59   | 15.62   | 15.53   | 17.30   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 15.71   | 15.41   | 15.60   | 17.30   |
|           |            | 1       | 13        | 15.91   | 15.81   | 16.13   | 17.30   |
|           |            | 1       | 24        | 15.74   | 15.85   | 15.72   | 17.30   |
|           |            | 12      | 0         | 15.65   | 15.87   | 15.54   | 17.30   |
|           |            | 12      | 6         | 15.72   | 15.79   | 15.71   | 17.30   |
|           |            | 12      | 13        | 15.69   | 15.68   | 15.70   | 17.30   |
|           |            | 25      | 0         | 15.60   | 15.70   | 15.76   | 17.30   |
|           | 16QAM      | 1       | 0         | 15.61   | 15.59   | 15.66   | 17.30   |
|           |            | 1       | 13        | 15.71   | 15.81   | 15.73   | 17.30   |
|           |            | 1       | 24        | 15.80   | 15.76   | 15.55   | 17.30   |
|           |            | 12      | 0         | 15.56   | 15.61   | 15.52   | 17.30   |
|           |            | 12      | 6         | 15.84   | 15.71   | 15.98   | 17.30   |
|           |            | 12      | 13        | 15.69   | 15.91   | 15.86   | 17.30   |
|           |            | 25      | 0         | 15.52   | 15.62   | 15.70   | 17.30   |
|           | 64QAM      | 1       | 0         | 15.57   | 16.13   | 15.79   | 17.30   |
|           |            | 1       | 13        | 15.84   | 15.93   | 15.83   | 17.30   |
|           |            | 1       | 24        | 15.91   | 15.91   | 15.90   | 17.30   |
|           |            | 12      | 0         | 15.57   | 15.61   | 15.65   | 17.30   |
|           |            | 12      | 6         | 15.76   | 15.67   | 15.78   | 17.30   |
|           |            | 12      | 13        | 15.85   | 15.69   | 15.72   | 17.30   |
|           |            | 25      | 0         | 15.78   | 15.69   | 15.76   | 17.30   |
|           | 256QAM     | 1       | 0         | 15.64   | 15.90   | 15.67   | 17.30   |
|           |            | 1       | 13        | 15.74   | 15.68   | 15.75   | 17.30   |
|           |            | 1       | 24        | 15.69   | 15.74   | 15.77   | 17.30   |
|           |            | 12      | 0         | 15.66   | 15.58   | 15.53   | 17.30   |
|           |            | 12      | 6         | 15.78   | 15.76   | 15.87   | 17.30   |
|           |            | 12      | 13        | 15.80   | 15.94   | 15.47   | 17.30   |
|           |            | 25      | 0         | 15.80   | 15.65   | 15.70   | 17.30   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| 10MHz     | QPSK       | 1       | 0         | 15.63   | 15.63   | 15.51   | 17.30   |
|           |            | 1       | 25        | 15.86   | 15.82   | 15.87   | 17.30   |
|           |            | 1       | 49        | 15.78   | 15.82   | 15.75   | 17.30   |
|           |            | 25      | 0         | 15.60   | 15.81   | 15.49   | 17.30   |
|           |            | 25      | 13        | 15.66   | 15.65   | 15.78   | 17.30   |
|           |            | 25      | 25        | 15.68   | 15.63   | 15.85   | 17.30   |
|           |            | 50      | 0         | 15.80   | 15.81   | 15.73   | 17.30   |
|           | 16QAM      | 1       | 0         | 15.50   | 15.54   | 15.66   | 17.30   |
|           |            | 1       | 25        | 15.44   | 15.85   | 15.68   | 17.30   |
|           |            | 1       | 49        | 15.81   | 15.81   | 15.58   | 17.30   |
|           |            | 25      | 0         | 15.54   | 15.45   | 15.68   | 17.30   |
|           |            | 25      | 13        | 15.69   | 15.56   | 15.81   | 17.30   |
|           |            | 25      | 25        | 15.67   | 15.78   | 15.82   | 17.30   |
|           |            | 50      | 0         | 15.66   | 15.73   | 15.54   | 17.30   |
|           | 64QAM      | 1       | 0         | 15.78   | 16.06   | 15.95   | 17.30   |
|           |            | 1       | 25        | 15.98   | 15.93   | 15.76   | 17.30   |
|           |            | 1       | 49        | 15.91   | 15.94   | 15.87   | 17.30   |
|           |            | 25      | 0         | 15.49   | 15.56   | 15.67   | 17.30   |
|           |            | 25      | 13        | 15.65   | 15.69   | 15.70   | 17.30   |
|           |            | 25      | 25        | 15.74   | 15.96   | 15.71   | 17.30   |
|           |            | 50      | 0         | 15.61   | 15.60   | 15.63   | 17.30   |
|           | 256QAM     | 1       | 0         | 15.59   | 15.94   | 15.61   | 17.30   |
|           |            | 1       | 25        | 15.75   | 15.70   | 15.72   | 17.30   |
|           |            | 1       | 49        | 15.76   | 15.84   | 15.71   | 17.30   |
|           |            | 25      | 0         | 15.64   | 15.64   | 15.56   | 17.30   |
|           |            | 25      | 13        | 15.85   | 15.55   | 15.64   | 17.30   |
|           |            | 25      | 25        | 15.83   | 15.92   | 15.66   | 17.30   |
|           |            | 50      | 0         | 15.60   | 15.80   | 15.69   | 17.30   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 15.47   | 15.49   | 15.45   | 17.30   |
|           |            | 1       | 38        | 15.89   | 15.80   | 16.10   | 17.30   |
|           |            | 1       | 74        | 15.81   | 15.72   | 15.71   | 17.30   |
|           |            | 36      | 0         | 15.73   | 15.86   | 15.55   | 17.30   |
|           |            | 36      | 18        | 15.84   | 15.60   | 15.74   | 17.30   |
|           |            | 36      | 39        | 15.71   | 15.83   | 15.76   | 17.30   |
|           |            | 75      | 0         | 15.60   | 15.73   | 15.65   | 17.30   |
|           | 16QAM      | 1       | 0         | 15.52   | 15.71   | 15.67   | 17.30   |
|           |            | 1       | 38        | 15.60   | 15.69   | 15.65   | 17.30   |
|           |            | 1       | 74        | 15.78   | 15.89   | 15.46   | 17.30   |
|           |            | 36      | 0         | 15.62   | 15.58   | 15.48   | 17.30   |
|           |            | 36      | 18        | 15.78   | 15.62   | 15.72   | 17.30   |
|           |            | 36      | 39        | 15.86   | 15.81   | 15.87   | 17.30   |
|           |            | 75      | 0         | 15.56   | 15.81   | 15.56   | 17.30   |
|           | 64QAM      | 1       | 0         | 15.68   | 16.09   | 15.91   | 17.30   |
|           |            | 1       | 38        | 16.00   | 16.00   | 15.75   | 17.30   |
|           |            | 1       | 74        | 15.77   | 15.85   | 15.62   | 17.30   |

|           |            | 36      | 0         | 15.58   | 15.61   | 15.52   | 17.30   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 18        | 15.90   | 15.72   | 15.68   | 17.30   |
|           |            | 36      | 39        | 15.71   | 15.86   | 15.75   | 17.30   |
|           |            | 75      | 0         | 15.60   | 15.65   | 15.79   | 17.30   |
|           | 256QAM     | 1       | 0         | 15.68   | 15.76   | 15.51   | 17.30   |
|           |            | 1       | 38        | 15.80   | 15.76   | 15.84   | 17.30   |
|           |            | 1       | 74        | 15.90   | 15.93   | 15.79   | 17.30   |
|           |            | 36      | 0         | 15.50   | 15.75   | 15.58   | 17.30   |
|           |            | 36      | 18        | 15.75   | 15.78   | 15.87   | 17.30   |
|           |            | 36      | 39        | 15.88   | 15.85   | 15.53   | 17.30   |
|           |            | 75      | 0         | 15.66   | 15.60   | 15.73   | 17.30   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 15.60   | 15.56   | 15.52   | 17.30   |
|           |            | 1       | 50        | 15.79   | 15.80   | 15.78   | 17.30   |
|           |            | 1       | 99        | 15.77   | 15.73   | 15.78   | 17.30   |
|           |            | 50      | 0         | 15.63   | 15.74   | 15.63   | 17.30   |
|           |            | 50      | 25        | 15.78   | 15.89   | 15.76   | 17.30   |
|           |            | 50      | 50        | 15.78   | 15.76   | 15.83   | 17.30   |
|           |            | 100     | 0         | 15.66   | 15.67   | 15.78   | 17.30   |
|           | 16QAM      | 1       | 0         | 15.58   | 15.66   | 15.71   | 17.30   |
|           |            | 1       | 50        | 15.59   | 15.74   | 15.79   | 17.30   |
|           |            | 1       | 99        | 15.89   | 15.80   | 15.60   | 17.30   |
|           |            | 50      | 0         | 15.59   | 15.60   | 15.54   | 17.30   |
|           |            | 50      | 25        | 15.81   | 15.71   | 15.84   | 17.30   |
|           |            | 50      | 50        | 15.72   | 15.80   | 15.84   | 17.30   |
|           |            | 100     | 0         | 15.67   | 15.74   | 15.68   | 17.30   |
|           | 64QAM      | 1       | 0         | 15.68   | 16.02   | 15.80   | 17.30   |
|           |            | 1       | 50        | 15.89   | 15.96   | 15.83   | 17.30   |
|           |            | 1       | 99        | 15.86   | 15.90   | 15.76   | 17.30   |
|           |            | 50      | 0         | 15.51   | 15.64   | 15.66   | 17.30   |
|           |            | 50      | 25        | 15.77   | 15.77   | 15.79   | 17.30   |
|           |            | 50      | 50        | 15.72   | 15.83   | 15.86   | 17.30   |
|           |            | 100     | 0         | 15.71   | 15.64   | 15.74   | 17.30   |
|           | 256QAM     | 1       | 0         | 15.68   | 15.87   | 15.60   | 17.30   |
|           |            | 1       | 50        | 15.77   | 15.79   | 15.84   | 17.30   |
|           |            | 1       | 99        | 15.84   | 15.82   | 15.73   | 17.30   |
|           |            | 50      | 0         | 15.63   | 15.62   | 15.64   | 17.30   |
|           |            | 50      | 25        | 15.76   | 15.67   | 15.73   | 17.30   |
|           |            | 50      | 50        | 15.76   | 15.79   | 15.58   | 17.30   |
|           |            | 100     | 0         | 15.71   | 15.70   | 15.68   | 17.30   |

| LTE Band 66 DSI 4 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz            | QPSK       | 1       | 0         | 20.48                | 19.98   | 20.26   | 21.80   |
|                   |            | 1       | 2         | 19.88                | 20.56   | 19.86   | 21.80   |
|                   |            | 1       | 5         | 20.23                | 19.99   | 20.32   | 21.80   |
|                   |            | 3       | 0         | 20.16                | 20.04   | 19.98   | 21.80   |
|                   |            | 3       | 1         | 20.25                | 20.33   | 20.07   | 21.80   |
|                   |            | 3       | 3         | 20.26                | 20.09   | 20.33   | 21.80   |
|                   |            | 6       | 0         | 20.28                | 20.10   | 20.09   | 21.80   |
|                   | 16QAM      | 1       | 0         | 20.08                | 20.13   | 19.66   | 21.80   |
|                   |            | 1       | 2         | 19.93                | 20.01   | 19.87   | 21.80   |
|                   |            | 1       | 5         | 20.07                | 20.10   | 19.78   | 21.80   |
|                   |            | 3       | 0         | 20.14                | 20.10   | 20.22   | 21.80   |
|                   |            | 3       | 1         | 20.10                | 20.10   | 20.30   | 21.80   |
|                   |            | 3       | 3         | 20.19                | 20.16   | 20.14   | 21.80   |
|                   |            | 6       | 0         | 20.14                | 20.17   | 20.23   | 21.80   |
|                   | 64QAM      | 1       | 0         | 20.00                | 19.96   | 19.67   | 21.80   |
|                   |            | 1       | 2         | 20.15                | 20.12   | 19.98   | 21.80   |
|                   |            | 1       | 5         | 20.26                | 20.11   | 20.06   | 21.80   |
|                   |            | 3       | 0         | 20.14                | 19.91   | 20.24   | 21.80   |
|                   |            | 3       | 1         | 20.33                | 19.98   | 20.37   | 21.80   |
|                   |            | 3       | 3         | 20.15                | 20.16   | 20.19   | 21.80   |
|                   |            | 6       | 0         | 19.86                | 19.39   | 19.92   | 21.30   |
|                   | 256QAM     | 1       | 0         | 18.79                | 18.49   | 18.50   | 19.30   |
|                   |            | 1       | 2         | 18.54                | 18.69   | 18.92   | 19.30   |
|                   |            | 1       | 5         | 18.54                | 18.62   | 19.02   | 19.30   |
|                   |            | 3       | 0         | 18.75                | 18.60   | 18.80   | 19.30   |
|                   |            | 3       | 1         | 18.46                | 18.54   | 18.66   | 19.30   |
|                   |            | 3       | 3         | 18.56                | 18.52   | 18.63   | 19.30   |
|                   |            | 6       | 0         | 18.76                | 18.79   | 18.72   | 19.30   |
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 131987               | 132322  | 132657  |         |
| 3MHz              | QPSK       | 1       | 0         | 20.44                | 20.01   | 20.27   | 21.80   |
|                   |            | 1       | 7         | 19.99                | 20.60   | 20.00   | 21.80   |
|                   |            | 1       | 14        | 20.31                | 20.14   | 20.39   | 21.80   |
|                   |            | 8       | 0         | 19.98                | 20.06   | 19.97   | 21.80   |
|                   |            | 8       | 4         | 20.06                | 20.23   | 20.08   | 21.80   |
|                   |            | 8       | 7         | 20.19                | 20.09   | 20.32   | 21.80   |
|                   |            | 15      | 0         | 20.11                | 20.15   | 20.09   | 21.80   |
|                   | 16QAM      | 1       | 0         | 20.18                | 20.12   | 19.84   | 21.80   |
|                   |            | 1       | 7         | 20.14                | 20.04   | 19.94   | 21.80   |
|                   |            | 1       | 14        | 20.16                | 20.30   | 19.95   | 21.80   |
|                   |            | 8       | 0         | 19.93                | 19.94   | 20.13   | 21.80   |
|                   |            | 8       | 4         | 20.24                | 20.08   | 20.20   | 21.80   |
|                   |            | 8       | 7         | 20.21                | 20.25   | 20.31   | 21.80   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 64QAM      | 15      | 0         | 20.02   | 20.16   | 20.15   | 21.80   |
|           |            | 1       | 0         | 19.99   | 19.99   | 19.73   | 21.80   |
|           |            | 1       | 7         | 20.17   | 20.10   | 19.95   | 21.80   |
|           |            | 1       | 14        | 19.99   | 20.20   | 19.79   | 21.80   |
|           |            | 8       | 0         | 19.68   | 19.58   | 19.67   | 21.30   |
|           |            | 8       | 4         | 19.79   | 19.41   | 19.87   | 21.30   |
|           |            | 8       | 7         | 19.70   | 19.77   | 19.75   | 21.30   |
|           |            | 15      | 0         | 19.78   | 19.58   | 19.93   | 21.30   |
|           | 256QAM     | 1       | 0         | 18.57   | 18.60   | 18.63   | 19.30   |
|           |            | 1       | 7         | 18.53   | 18.60   | 18.94   | 19.30   |
|           |            | 1       | 14        | 18.70   | 18.69   | 18.89   | 19.30   |
|           |            | 8       | 0         | 18.66   | 18.62   | 18.70   | 19.30   |
|           |            | 8       | 4         | 18.47   | 18.59   | 18.63   | 19.30   |
|           |            | 8       | 7         | 18.74   | 18.50   | 18.67   | 19.30   |
|           |            | 15      | 0         | 18.56   | 18.72   | 18.63   | 19.30   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 20.18   | 19.88   | 20.10   | 21.80   |
|           |            | 1       | 13        | 20.00   | 20.61   | 20.03   | 21.80   |
|           |            | 1       | 24        | 20.09   | 20.18   | 20.14   | 21.80   |
|           |            | 12      | 0         | 20.05   | 20.20   | 20.09   | 21.80   |
|           |            | 12      | 6         | 20.07   | 20.14   | 20.31   | 21.80   |
|           |            | 12      | 13        | 20.07   | 20.13   | 20.32   | 21.80   |
|           |            | 25      | 0         | 20.25   | 19.95   | 20.08   | 21.80   |
|           | 16QAM      | 1       | 0         | 20.18   | 19.85   | 19.84   | 21.80   |
|           |            | 1       | 13        | 19.94   | 19.81   | 19.80   | 21.80   |
|           |            | 1       | 24        | 19.94   | 20.16   | 19.83   | 21.80   |
|           |            | 12      | 0         | 19.89   | 20.10   | 19.97   | 21.80   |
|           |            | 12      | 6         | 20.10   | 20.07   | 20.11   | 21.80   |
|           |            | 12      | 13        | 20.19   | 20.39   | 20.30   | 21.80   |
|           |            | 25      | 0         | 20.28   | 20.19   | 20.15   | 21.80   |
|           | 64QAM      | 1       | 0         | 19.98   | 19.75   | 19.60   | 21.80   |
|           |            | 1       | 13        | 20.16   | 20.35   | 19.83   | 21.80   |
|           |            | 1       | 24        | 20.20   | 20.32   | 20.08   | 21.80   |
|           |            | 12      | 0         | 19.75   | 19.59   | 19.61   | 21.30   |
|           |            | 12      | 6         | 19.81   | 19.42   | 19.87   | 21.30   |
|           |            | 12      | 13        | 19.90   | 19.75   | 19.68   | 21.30   |
|           |            | 25      | 0         | 19.77   | 19.52   | 19.90   | 21.30   |
|           | 256QAM     | 1       | 0         | 18.73   | 18.77   | 18.61   | 19.30   |
|           |            | 1       | 13        | 18.41   | 18.70   | 18.79   | 19.30   |
|           |            | 1       | 24        | 18.63   | 18.60   | 18.85   | 19.30   |
|           |            | 12      | 0         | 18.72   | 18.44   | 18.61   | 19.30   |
|           |            | 12      | 6         | 18.55   | 18.74   | 18.63   | 19.30   |
|           |            | 12      | 13        | 18.82   | 18.57   | 18.88   | 19.30   |
|           |            | 25      | 0         | 18.66   | 18.50   | 18.75   | 19.30   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| 10MHz     | QPSK       | 1       | 0         | 20.46   | 19.96   | 20.10   | 21.80   |
|           |            | 1       | 25        | 20.11   | 20.48   | 20.06   | 21.80   |
|           |            | 1       | 49        | 20.21   | 20.22   | 20.18   | 21.80   |
|           |            | 25      | 0         | 20.11   | 20.20   | 20.24   | 21.80   |
|           |            | 25      | 13        | 20.23   | 20.29   | 20.10   | 21.80   |
|           |            | 25      | 25        | 20.05   | 20.06   | 20.09   | 21.80   |
|           |            | 50      | 0         | 20.03   | 20.08   | 20.28   | 21.80   |
|           | 16QAM      | 1       | 0         | 19.92   | 19.98   | 19.92   | 21.80   |
|           |            | 1       | 25        | 20.01   | 20.02   | 19.72   | 21.80   |
|           |            | 1       | 49        | 20.22   | 20.23   | 19.96   | 21.80   |
|           |            | 25      | 0         | 20.10   | 19.92   | 20.22   | 21.80   |
|           |            | 25      | 13        | 20.10   | 20.16   | 20.31   | 21.80   |
|           |            | 25      | 25        | 20.17   | 20.40   | 20.27   | 21.80   |
|           |            | 50      | 0         | 20.12   | 20.28   | 20.15   | 21.80   |
|           | 64QAM      | 1       | 0         | 19.82   | 19.84   | 19.79   | 21.80   |
|           |            | 1       | 25        | 20.03   | 20.34   | 19.96   | 21.80   |
|           |            | 1       | 49        | 20.20   | 20.20   | 20.02   | 21.80   |
|           |            | 25      | 0         | 19.72   | 19.56   | 19.63   | 21.30   |
|           |            | 25      | 13        | 19.86   | 19.63   | 19.73   | 21.30   |
|           |            | 25      | 25        | 19.91   | 19.76   | 19.58   | 21.30   |
|           |            | 50      | 0         | 19.87   | 19.61   | 19.94   | 21.30   |
|           | 256QAM     | 1       | 0         | 18.51   | 18.72   | 18.45   | 19.30   |
|           |            | 1       | 25        | 18.64   | 18.53   | 18.78   | 19.30   |
|           |            | 1       | 49        | 18.78   | 18.66   | 19.08   | 19.30   |
|           |            | 25      | 0         | 18.72   | 18.57   | 18.54   | 19.30   |
|           |            | 25      | 13        | 18.74   | 18.54   | 18.87   | 19.30   |
|           |            | 25      | 25        | 18.62   | 18.71   | 18.83   | 19.30   |
|           |            | 50      | 0         | 18.75   | 18.52   | 18.60   | 19.30   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 20.48   | 20.15   | 20.16   | 21.80   |
|           |            | 1       | 38        | 20.33   | 20.47   | 20.11   | 21.80   |
|           |            | 1       | 74        | 20.31   | 20.14   | 20.24   | 21.80   |
|           |            | 36      | 0         | 20.08   | 19.92   | 20.18   | 21.80   |
|           |            | 36      | 18        | 20.06   | 20.26   | 20.23   | 21.80   |
|           |            | 36      | 39        | 20.25   | 20.03   | 20.18   | 21.80   |
|           |            | 75      | 0         | 20.22   | 20.00   | 20.14   | 21.80   |
|           | 16QAM      | 1       | 0         | 20.18   | 19.99   | 19.92   | 21.80   |
|           |            | 1       | 38        | 20.03   | 19.84   | 19.82   | 21.80   |
|           |            | 1       | 74        | 20.07   | 20.06   | 19.93   | 21.80   |
|           |            | 36      | 0         | 20.08   | 20.03   | 20.07   | 21.80   |
|           |            | 36      | 18        | 20.05   | 20.14   | 20.22   | 21.80   |
|           |            | 36      | 39        | 20.24   | 20.27   | 20.23   | 21.80   |
|           |            | 75      | 0         | 20.28   | 20.23   | 20.17   | 21.80   |
|           | 64QAM      | 1       | 0         | 19.84   | 19.86   | 19.84   | 21.80   |
|           |            | 1       | 38        | 20.15   | 20.36   | 20.05   | 21.80   |
|           |            | 1       | 74        | 20.18   | 20.39   | 20.06   | 21.80   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 0         | 19.60   | 19.59   | 19.77   | 21.30   |
|           |            | 36      | 18        | 19.79   | 19.67   | 19.73   | 21.30   |
|           |            | 36      | 39        | 19.82   | 19.95   | 19.59   | 21.30   |
|           |            | 75      | 0         | 19.73   | 19.42   | 19.69   | 21.30   |
|           | 256QAM     | 1       | 0         | 18.79   | 18.61   | 18.53   | 19.30   |
|           |            | 1       | 38        | 18.46   | 18.56   | 18.94   | 19.30   |
|           |            | 1       | 74        | 18.77   | 18.62   | 18.95   | 19.30   |
|           |            | 36      | 0         | 18.72   | 18.67   | 18.56   | 19.30   |
|           |            | 36      | 18        | 18.75   | 18.66   | 18.87   | 19.30   |
|           |            | 36      | 39        | 18.74   | 18.66   | 18.61   | 19.30   |
|           |            | 75      | 0         | 18.83   | 18.70   | 18.79   | 19.30   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 20.33   | 20.03   | 20.13   | 21.80   |
|           |            | 1       | 50        | 20.00   | 20.58   | 19.99   | 21.80   |
|           |            | 1       | 99        | 20.24   | 20.09   | 20.26   | 21.80   |
|           |            | 50      | 0         | 20.02   | 20.06   | 20.10   | 21.80   |
|           |            | 50      | 25        | 20.12   | 20.19   | 20.16   | 21.80   |
|           |            | 50      | 50        | 20.14   | 20.16   | 20.18   | 21.80   |
|           |            | 100     | 0         | 20.15   | 20.08   | 20.20   | 21.80   |
|           | 16QAM      | 1       | 0         | 20.06   | 19.98   | 19.79   | 21.80   |
|           |            | 1       | 50        | 20.07   | 19.95   | 19.83   | 21.80   |
|           |            | 1       | 99        | 20.08   | 20.17   | 19.87   | 21.80   |
|           |            | 50      | 0         | 19.99   | 20.07   | 20.11   | 21.80   |
|           |            | 50      | 25        | 20.13   | 20.18   | 20.17   | 21.80   |
|           |            | 50      | 50        | 20.17   | 20.29   | 20.24   | 21.80   |
|           |            | 100     | 0         | 20.14   | 20.21   | 20.25   | 21.80   |
|           | 64QAM      | 1       | 0         | 19.97   | 19.86   | 19.70   | 21.80   |
|           |            | 1       | 50        | 20.04   | 20.22   | 19.98   | 21.80   |
|           |            | 1       | 99        | 20.14   | 20.26   | 19.93   | 21.80   |
|           |            | 50      | 0         | 19.62   | 19.47   | 19.66   | 21.30   |
|           |            | 50      | 25        | 19.81   | 19.55   | 19.80   | 21.30   |
|           |            | 50      | 50        | 19.76   | 19.81   | 19.66   | 21.30   |
|           |            | 100     | 0         | 19.73   | 19.52   | 19.79   | 21.30   |
|           | 256QAM     | 1       | 0         | 18.66   | 18.64   | 18.58   | 19.30   |
|           |            | 1       | 50        | 18.52   | 18.62   | 18.85   | 19.30   |
|           |            | 1       | 99        | 18.63   | 18.65   | 18.94   | 19.30   |
|           |            | 50      | 0         | 18.62   | 18.59   | 18.67   | 19.30   |
|           |            | 50      | 25        | 18.61   | 18.68   | 18.77   | 19.30   |
|           |            | 50      | 50        | 18.71   | 18.64   | 18.73   | 19.30   |
|           |            | 100     | 0         | 18.69   | 18.65   | 18.74   | 19.30   |