

# **Appendix E**

## **Conducted RF Output Power**

# 1 Conducted Power

## 1.1 Conducted Power of GSM

| GSM 850 Receiver on&off |            |              |              |              |         |                  |                                 |       |       |              |
|-------------------------|------------|--------------|--------------|--------------|---------|------------------|---------------------------------|-------|-------|--------------|
| Burst Output Power(dBm) |            |              |              |              |         | Division Factors | Frame-Average Output Power(dBm) |       |       |              |
| Channel                 |            | 128          | 190          | 251          | Tune up |                  | 128                             | 190   | 251   | Tune up      |
| GSM(GMSK)               | GSM        | 31.55        | 31.58        | 31.61        | 33.50   | -9.03            | 22.52                           | 22.55 | 22.58 | 24.47        |
| GPRS (GMSK)             | 1 TX Slot  | 32.68        | 32.71        | 32.75        | 33.50   | -9.03            | 23.65                           | 23.68 | 23.72 | 24.47        |
|                         | 2 TX Slots | 31.46        | 31.44        | 31.55        | 32.00   | -6.02            | 25.44                           | 25.42 | 25.53 | 25.98        |
|                         | 3 TX Slots | 29.21        | 29.26        | 29.29        | 30.00   | -4.26            | 24.95                           | 25.00 | 25.03 | 25.74        |
|                         | 4 TX Slots | <b>28.05</b> | <b>28.22</b> | <b>28.09</b> | 29.00   | -3.01            | 25.04                           | 25.21 | 25.08 | <b>25.99</b> |

| GSM 1900 Receiver on&off |            |              |              |              |         |                  |                                 |       |       |              |
|--------------------------|------------|--------------|--------------|--------------|---------|------------------|---------------------------------|-------|-------|--------------|
| Burst Output Power(dBm)  |            |              |              |              |         | Division Factors | Frame-Average Output Power(dBm) |       |       |              |
| Channel                  |            | 512          | 661          | 810          | Tune up |                  | 512                             | 661   | 810   | Tune up      |
| GSM(GMSK)                | GSM        | 28.73        | 28.67        | 28.66        | 30.50   | -9.03            | 19.70                           | 19.64 | 19.63 | 21.47        |
| GPRS (GMSK)              | 1 TX Slot  | 29.45        | 29.50        | 29.32        | 30.50   | -9.03            | 20.42                           | 20.47 | 20.29 | 21.47        |
|                          | 2 TX Slots | 28.63        | 28.58        | 28.47        | 29.00   | -6.02            | 22.61                           | 22.56 | 22.45 | 22.98        |
|                          | 3 TX Slots | 26.55        | 26.66        | 26.64        | 27.00   | -4.26            | 22.29                           | 22.40 | 22.38 | 22.74        |
|                          | 4 TX Slots | <b>25.31</b> | <b>25.44</b> | <b>25.33</b> | 26.00   | -3.01            | 22.30                           | 22.43 | 22.32 | <b>22.99</b> |

## 1.2 Conducted Power of WCDMA

| WCDMA Band V Receiver on&off |              |              |              |              |         |
|------------------------------|--------------|--------------|--------------|--------------|---------|
| Average Conducted Power(dBm) |              |              |              |              |         |
| Channel                      |              | 4132         | 4182         | 4233         | Tune up |
| WCDMA                        | 12.2kbps RMC | <b>23.40</b> | <b>23.44</b> | <b>23.60</b> | 24.00   |
|                              | 12.2kbps AMR | 23.35        | 23.42        | 23.55        | 24.00   |
| HSDPA                        | Subtest 1    | 22.35        | 22.38        | 22.44        | 23.50   |
|                              | Subtest 2    | 22.29        | 22.32        | 22.43        | 23.50   |
|                              | Subtest 3    | 21.89        | 21.96        | 22.03        | 23.00   |
|                              | Subtest 4    | 21.92        | 21.88        | 21.98        | 23.00   |
| HSUPA                        | Subtest 1    | 20.26        | 20.31        | 20.37        | 21.50   |
|                              | Subtest 2    | 20.21        | 20.25        | 20.26        | 21.50   |
|                              | Subtest 3    | 20.77        | 20.69        | 20.75        | 22.00   |
|                              | Subtest 4    | 19.26        | 19.61        | 19.73        | 20.50   |
|                              | Subtest 5    | 21.73        | 21.68        | 21.74        | 23.00   |

### 1.3 Conducted Power of LTE

| LTE Band 2 Receiver on&off |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz                     | QPSK       | 1       | 0         | 23.19                | 23.19   | 23.15   | 24.00   |
|                            |            | 1       | 2         | 23.21                | 23.15   | 23.23   | 24.00   |
|                            |            | 1       | 5         | 23.25                | 23.36   | 23.34   | 24.00   |
|                            |            | 3       | 0         | 23.23                | 23.28   | 23.13   | 24.00   |
|                            |            | 3       | 2         | 23.18                | 23.11   | 23.15   | 24.00   |
|                            |            | 3       | 3         | 23.31                | 23.28   | 23.27   | 24.00   |
|                            |            | 6       | 0         | 22.29                | 22.17   | 22.24   | 23.00   |
|                            | 16QAM      | 1       | 0         | 22.39                | 22.40   | 22.48   | 23.00   |
|                            |            | 1       | 2         | 22.35                | 22.40   | 22.41   | 23.00   |
|                            |            | 1       | 5         | 22.50                | 22.64   | 22.38   | 23.00   |
|                            |            | 3       | 0         | 22.48                | 22.40   | 22.38   | 23.00   |
|                            |            | 3       | 2         | 22.42                | 22.36   | 22.28   | 23.00   |
|                            |            | 3       | 3         | 22.60                | 22.50   | 22.46   | 23.00   |
|                            |            | 6       | 0         | 21.43                | 21.33   | 21.17   | 22.00   |
|                            | 64QAM      | 1       | 0         | 21.45                | 21.56   | 21.45   | 22.00   |
|                            |            | 1       | 2         | 21.54                | 21.47   | 21.39   | 22.00   |
|                            |            | 1       | 5         | 21.43                | 21.27   | 21.34   | 22.00   |
|                            |            | 3       | 0         | 21.56                | 21.45   | 21.48   | 22.00   |
|                            |            | 3       | 2         | 21.61                | 21.43   | 21.56   | 22.00   |
|                            |            | 3       | 3         | 21.33                | 21.39   | 21.51   | 22.00   |
|                            |            | 6       | 0         | 20.26                | 20.22   | 20.25   | 21.00   |
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz                       | QPSK       | 1       | 0         | 23.30                | 23.27   | 23.11   | 24.00   |
|                            |            | 1       | 7         | 23.21                | 23.11   | 23.12   | 24.00   |
|                            |            | 1       | 14        | 23.27                | 23.32   | 23.27   | 24.00   |
|                            |            | 8       | 0         | 22.23                | 22.32   | 22.22   | 23.00   |
|                            |            | 8       | 4         | 22.38                | 22.35   | 22.34   | 23.00   |
|                            |            | 8       | 7         | 22.29                | 22.19   | 22.28   | 23.00   |
|                            |            | 15      | 0         | 22.26                | 22.20   | 22.13   | 23.00   |
|                            | 16QAM      | 1       | 0         | 22.39                | 22.57   | 22.43   | 23.00   |
|                            |            | 1       | 7         | 22.47                | 22.37   | 22.28   | 23.00   |
|                            |            | 1       | 14        | 22.56                | 22.56   | 22.52   | 23.00   |
|                            |            | 8       | 0         | 21.39                | 21.38   | 21.31   | 22.00   |
|                            |            | 8       | 4         | 21.41                | 21.29   | 21.33   | 22.00   |
|                            |            | 8       | 7         | 21.42                | 21.41   | 21.44   | 22.00   |
|                            |            | 15      | 0         | 21.45                | 21.29   | 21.33   | 22.00   |
|                            | 64QAM      | 1       | 0         | 21.56                | 21.46   | 21.40   | 22.00   |
|                            |            | 1       | 7         | 21.56                | 21.42   | 21.48   | 22.00   |
|                            |            | 1       | 14        | 21.52                | 21.37   | 21.53   | 22.00   |
|                            |            | 8       | 0         | 20.44                | 20.46   | 20.31   | 21.00   |
|                            |            | 8       | 4         | 20.45                | 20.25   | 20.36   | 21.00   |
|                            |            | 8       | 7         | 20.23                | 20.35   | 20.31   | 21.00   |
|                            |            | 15      | 0         | 20.42                | 20.36   | 20.21   | 21.00   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.15   | 23.20   | 23.15   | 24.00   |
|           |            | 1       | 13        | 23.33   | 23.14   | 23.25   | 24.00   |
|           |            | 1       | 24        | 23.37   | 23.28   | 23.26   | 24.00   |
|           |            | 12      | 0         | 22.32   | 22.18   | 22.27   | 23.00   |
|           |            | 12      | 6         | 22.35   | 22.32   | 22.31   | 23.00   |
|           |            | 12      | 13        | 22.21   | 22.21   | 22.32   | 23.00   |
|           |            | 25      | 0         | 22.17   | 22.24   | 22.30   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.51   | 22.51   | 22.28   | 23.00   |
|           |            | 1       | 13        | 22.43   | 22.33   | 22.24   | 23.00   |
|           |            | 1       | 24        | 22.53   | 22.61   | 22.45   | 23.00   |
|           |            | 12      | 0         | 21.49   | 21.39   | 21.37   | 22.00   |
|           |            | 12      | 6         | 21.44   | 21.31   | 21.44   | 22.00   |
|           |            | 12      | 13        | 21.47   | 21.43   | 21.36   | 22.00   |
|           |            | 25      | 0         | 21.39   | 21.37   | 21.25   | 22.00   |
|           | 64QAM      | 1       | 0         | 21.52   | 21.52   | 21.42   | 22.00   |
|           |            | 1       | 13        | 21.60   | 21.56   | 21.37   | 22.00   |
|           |            | 1       | 24        | 21.43   | 21.32   | 21.46   | 22.00   |
|           |            | 12      | 0         | 20.44   | 20.43   | 20.31   | 21.00   |
|           |            | 12      | 6         | 20.28   | 20.32   | 20.25   | 21.00   |
|           |            | 12      | 13        | 20.27   | 20.36   | 20.42   | 21.00   |
|           |            | 25      | 0         | 20.39   | 20.32   | 20.32   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.15   | 23.18   | 23.04   | 24.00   |
|           |            | 1       | 25        | 23.34   | 23.14   | 23.28   | 24.00   |
|           |            | 1       | 49        | 23.27   | 23.34   | 23.31   | 24.00   |
|           |            | 25      | 0         | 22.17   | 22.29   | 22.28   | 23.00   |
|           |            | 25      | 13        | 22.27   | 22.34   | 22.35   | 23.00   |
|           |            | 25      | 25        | 22.32   | 22.27   | 22.28   | 23.00   |
|           |            | 50      | 0         | 22.27   | 22.24   | 22.21   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.55   | 22.44   | 22.47   | 23.00   |
|           |            | 1       | 25        | 22.38   | 22.31   | 22.38   | 23.00   |
|           |            | 1       | 49        | 22.44   | 22.60   | 22.44   | 23.00   |
|           |            | 25      | 0         | 21.39   | 21.54   | 21.31   | 22.00   |
|           |            | 25      | 13        | 21.31   | 21.40   | 21.40   | 22.00   |
|           |            | 25      | 25        | 21.47   | 21.45   | 21.31   | 22.00   |
|           |            | 50      | 0         | 21.29   | 21.21   | 21.20   | 22.00   |
|           | 64QAM      | 1       | 0         | 21.58   | 21.44   | 21.44   | 22.00   |
|           |            | 1       | 25        | 21.44   | 21.55   | 21.40   | 22.00   |
|           |            | 1       | 49        | 21.40   | 21.39   | 21.51   | 22.00   |
|           |            | 25      | 0         | 20.41   | 20.44   | 20.34   | 21.00   |
|           |            | 25      | 13        | 20.34   | 20.20   | 20.31   | 21.00   |
|           |            | 25      | 25        | 20.24   | 20.47   | 20.44   | 21.00   |
|           |            | 50      | 0         | 20.38   | 20.33   | 20.18   | 21.00   |

| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|-----------|------------|---------|-----------|--------------|--------------|--------------|---------|
|           |            |         |           | 18675        | 18900        | 19125        |         |
| 15MHz     | QPSK       | 1       | 0         | 23.27        | 23.21        | 23.16        | 24.00   |
|           |            | 1       | 38        | 23.31        | 23.13        | 23.30        | 24.00   |
|           |            | 1       | 74        | 23.36        | <b>23.37</b> | 23.18        | 24.00   |
|           |            | 36      | 0         | 22.34        | 22.28        | 22.25        | 23.00   |
|           |            | 36      | 18        | 22.40        | 22.27        | 22.32        | 23.00   |
|           |            | 36      | 39        | 22.20        | 22.17        | 22.32        | 23.00   |
|           |            | 75      | 0         | 22.16        | 22.17        | 22.21        | 23.00   |
|           | 16QAM      | 1       | 0         | 22.52        | 22.54        | 22.28        | 23.00   |
|           |            | 1       | 38        | 22.41        | 22.42        | 22.36        | 23.00   |
|           |            | 1       | 74        | 22.42        | 22.49        | 22.44        | 23.00   |
|           |            | 36      | 0         | 21.51        | 21.35        | 21.44        | 22.00   |
|           |            | 36      | 18        | 21.47        | 21.46        | 21.39        | 22.00   |
|           |            | 36      | 39        | 21.39        | 21.36        | 21.47        | 22.00   |
|           |            | 75      | 0         | 21.27        | 21.37        | 21.24        | 22.00   |
|           | 64QAM      | 1       | 0         | 21.56        | 21.57        | 21.44        | 22.00   |
|           |            | 1       | 38        | 21.61        | 21.42        | 21.54        | 22.00   |
|           |            | 1       | 74        | 21.37        | 21.24        | 21.51        | 22.00   |
|           |            | 36      | 0         | 20.32        | 20.51        | 20.50        | 21.00   |
|           |            | 36      | 18        | 20.43        | 20.36        | 20.29        | 21.00   |
|           |            | 36      | 39        | 20.42        | 20.39        | 20.25        | 21.00   |
|           |            | 75      | 0         | 20.36        | 20.22        | 20.21        | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|           |            |         |           | 18700        | 18900        | 19100        |         |
| 20MHz     | QPSK       | 1       | 0         | 23.29        | 23.23        | 23.18        | 24.00   |
|           |            | 1       | 50        | 23.31        | 23.21        | 23.25        | 24.00   |
|           |            | 1       | 99        | <b>23.40</b> | <b>23.38</b> | <b>23.30</b> | 24.00   |
|           |            | 50      | 0         | 22.31        | 22.28        | 22.29        | 23.00   |
|           |            | 50      | 25        | <b>22.39</b> | <b>22.33</b> | <b>22.35</b> | 23.00   |
|           |            | 50      | 50        | 22.30        | 22.24        | 22.32        | 23.00   |
|           |            | 100     | 0         | <b>22.29</b> | 22.19        | 22.27        | 23.00   |
|           | 16QAM      | 1       | 0         | 22.53        | 22.53        | 22.43        | 23.00   |
|           |            | 1       | 50        | 22.46        | 22.41        | 22.37        | 23.00   |
|           |            | 1       | 99        | 22.56        | 22.60        | 22.48        | 23.00   |
|           |            | 50      | 0         | 21.48        | 21.49        | 21.40        | 22.00   |
|           |            | 50      | 25        | 21.45        | 21.43        | 21.44        | 22.00   |
|           |            | 50      | 50        | 21.42        | 21.45        | 21.46        | 22.00   |
|           |            | 100     | 0         | 21.40        | 21.34        | 21.30        | 22.00   |
|           | 64QAM      | 1       | 0         | 21.55        | 21.52        | 21.53        | 22.00   |
|           |            | 1       | 50        | 21.58        | 21.57        | 21.51        | 22.00   |
|           |            | 1       | 99        | 21.47        | 21.38        | 21.49        | 22.00   |
|           |            | 50      | 0         | 20.46        | 20.48        | 20.45        | 21.00   |
|           |            | 50      | 25        | 20.43        | 20.34        | 20.38        | 21.00   |
|           |            | 50      | 50        | 20.38        | 20.43        | 20.40        | 21.00   |
|           |            | 100     | 0         | 20.38        | 20.36        | 20.28        | 21.00   |

| LTE Band 5 Receiver on/off |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 20407                | 20525   | 20643   |         |
| 1.4MHz                     | QPSK       | 1       | 0         | 22.89                | 22.94   | 22.80   | 24.00   |
|                            |            | 1       | 2         | 22.96                | 22.85   | 22.83   | 24.00   |
|                            |            | 1       | 5         | 22.97                | 22.95   | 22.80   | 24.00   |
|                            |            | 3       | 0         | 22.94                | 22.93   | 22.87   | 24.00   |
|                            |            | 3       | 2         | 22.89                | 22.91   | 22.91   | 24.00   |
|                            |            | 3       | 3         | 22.92                | 22.93   | 22.89   | 24.00   |
|                            |            | 6       | 0         | 21.84                | 21.97   | 21.88   | 23.00   |
|                            | 16QAM      | 1       | 0         | 22.08                | 22.21   | 22.11   | 23.00   |
|                            |            | 1       | 2         | 22.18                | 22.23   | 22.15   | 23.00   |
|                            |            | 1       | 5         | 22.11                | 22.31   | 22.17   | 23.00   |
|                            |            | 3       | 0         | 22.10                | 22.17   | 22.08   | 23.00   |
|                            |            | 3       | 2         | 22.20                | 22.08   | 22.09   | 23.00   |
|                            |            | 3       | 3         | 22.14                | 22.21   | 22.18   | 23.00   |
|                            |            | 6       | 0         | 20.96                | 21.02   | 20.97   | 22.00   |
|                            | 64QAM      | 1       | 0         | 21.04                | 21.13   | 21.13   | 22.00   |
|                            |            | 1       | 2         | 21.02                | 21.06   | 20.99   | 22.00   |
|                            |            | 1       | 5         | 21.13                | 21.22   | 21.06   | 22.00   |
|                            |            | 3       | 0         | 20.95                | 21.19   | 21.14   | 22.00   |
|                            |            | 3       | 2         | 21.11                | 21.11   | 21.00   | 22.00   |
|                            |            | 3       | 3         | 21.08                | 21.13   | 21.08   | 22.00   |
|                            |            | 6       | 0         | 19.93                | 20.08   | 19.99   | 21.00   |
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 20415                | 20525   | 20635   |         |
| 3MHz                       | QPSK       | 1       | 0         | 22.93                | 22.95   | 22.78   | 24.00   |
|                            |            | 1       | 7         | 22.81                | 22.84   | 22.81   | 24.00   |
|                            |            | 1       | 14        | 22.95                | 22.89   | 22.80   | 24.00   |
|                            |            | 8       | 0         | 21.97                | 22.00   | 21.84   | 23.00   |
|                            |            | 8       | 4         | 21.84                | 21.83   | 21.73   | 23.00   |
|                            |            | 8       | 7         | 21.89                | 21.90   | 21.78   | 23.00   |
|                            |            | 15      | 0         | 21.80                | 21.82   | 21.79   | 23.00   |
|                            | 16QAM      | 1       | 0         | 22.10                | 22.20   | 22.25   | 23.00   |
|                            |            | 1       | 7         | 22.11                | 22.15   | 22.03   | 23.00   |
|                            |            | 1       | 14        | 22.21                | 22.27   | 22.26   | 23.00   |
|                            |            | 8       | 0         | 21.00                | 21.03   | 20.91   | 22.00   |
|                            |            | 8       | 4         | 21.04                | 20.94   | 20.92   | 22.00   |
|                            |            | 8       | 7         | 20.99                | 20.97   | 21.04   | 22.00   |
|                            |            | 15      | 0         | 21.02                | 21.01   | 21.05   | 22.00   |
|                            | 64QAM      | 1       | 0         | 20.95                | 21.19   | 21.09   | 22.00   |
|                            |            | 1       | 7         | 21.05                | 21.11   | 20.94   | 22.00   |
|                            |            | 1       | 14        | 21.21                | 21.20   | 21.08   | 22.00   |
|                            |            | 8       | 0         | 19.97                | 19.93   | 19.94   | 21.00   |
|                            |            | 8       | 4         | 19.89                | 19.90   | 19.81   | 21.00   |
|                            |            | 8       | 7         | 20.00                | 19.99   | 19.95   | 21.00   |
|                            |            | 15      | 0         | 19.88                | 20.10   | 20.12   | 21.00   |

| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|-----------|------------|---------|-----------|--------------|--------------|--------------|---------|
|           |            |         |           | 20425        | 20525        | 20625        |         |
| 5MHz      | QPSK       | 1       | 0         | 22.86        | 22.89        | 22.81        | 24.00   |
|           |            | 1       | 13        | 22.97        | 22.91        | 22.85        | 24.00   |
|           |            | 1       | 24        | 22.88        | 22.87        | 22.84        | 24.00   |
|           |            | 12      | 0         | 22.06        | 22.06        | 21.80        | 23.00   |
|           |            | 12      | 6         | 21.85        | 21.84        | 21.73        | 23.00   |
|           |            | 12      | 13        | 21.80        | 21.94        | 21.75        | 23.00   |
|           |            | 25      | 0         | 21.92        | 21.87        | 21.90        | 23.00   |
|           |            | 25      | 13        | 21.92        | 21.87        | 21.90        | 23.00   |
|           | 16QAM      | 1       | 0         | 22.21        | 22.14        | 22.21        | 23.00   |
|           |            | 1       | 13        | 22.08        | 22.06        | 22.04        | 23.00   |
|           |            | 1       | 24        | 22.17        | 22.17        | 22.19        | 23.00   |
|           |            | 12      | 0         | 21.06        | 20.96        | 20.89        | 22.00   |
|           |            | 12      | 6         | 20.98        | 20.99        | 21.02        | 22.00   |
|           |            | 12      | 13        | 21.02        | 21.12        | 21.00        | 22.00   |
|           |            | 25      | 0         | 21.02        | 20.99        | 20.95        | 22.00   |
|           |            | 25      | 13        | 21.02        | 20.99        | 20.95        | 22.00   |
|           | 64QAM      | 1       | 0         | 21.12        | 21.05        | 21.16        | 22.00   |
|           |            | 1       | 13        | 20.97        | 21.15        | 21.00        | 22.00   |
|           |            | 1       | 24        | 21.06        | 21.25        | 21.09        | 22.00   |
|           |            | 12      | 0         | 20.06        | 20.02        | 19.95        | 21.00   |
|           |            | 12      | 6         | 19.93        | 19.88        | 19.82        | 21.00   |
|           |            | 12      | 13        | 20.00        | 20.05        | 19.92        | 21.00   |
|           |            | 25      | 0         | 20.00        | 20.08        | 19.99        | 21.00   |
|           |            | 25      | 13        | 20.00        | 20.08        | 19.99        | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|           |            |         |           | 20450        | 20525        | 20600        |         |
| 10MHz     | QPSK       | 1       | 0         | <b>22.96</b> | <b>22.99</b> | <b>22.88</b> | 24.00   |
|           |            | 1       | 25        | 22.91        | 22.93        | 22.85        | 24.00   |
|           |            | 1       | 49        | 22.94        | 22.95        | 22.87        | 24.00   |
|           |            | 25      | 0         | 22.00        | <b>22.01</b> | 21.88        | 23.00   |
|           |            | 25      | 13        | 21.82        | 21.89        | 21.80        | 23.00   |
|           |            | 25      | 25        | 21.85        | 21.93        | 21.86        | 23.00   |
|           |            | 50      | 0         | 21.84        | 21.93        | 21.84        | 23.00   |
|           |            | 50      | 13        | 21.84        | 21.93        | 21.84        | 23.00   |
|           | 16QAM      | 1       | 0         | 22.15        | 22.16        | 22.17        | 23.00   |
|           |            | 1       | 25        | 22.15        | 22.17        | 22.07        | 23.00   |
|           |            | 1       | 49        | 22.19        | 22.23        | 22.27        | 23.00   |
|           |            | 25      | 0         | 21.05        | 21.03        | 20.99        | 22.00   |
|           |            | 25      | 13        | 21.01        | 21.03        | 21.02        | 22.00   |
|           |            | 25      | 25        | 20.95        | 21.04        | 20.99        | 22.00   |
|           |            | 50      | 0         | 20.94        | 21.03        | 21.01        | 22.00   |
|           |            | 50      | 13        | 20.94        | 21.03        | 21.01        | 22.00   |
|           | 64QAM      | 1       | 0         | 21.04        | 21.11        | 21.14        | 22.00   |
|           |            | 1       | 25        | 21.03        | 21.10        | 21.00        | 22.00   |
|           |            | 1       | 49        | 21.16        | 21.23        | 21.16        | 22.00   |
|           |            | 25      | 0         | 19.99        | 19.98        | 19.92        | 21.00   |
|           |            | 25      | 13        | 19.93        | 19.97        | 19.88        | 21.00   |
|           |            | 25      | 25        | 20.00        | 20.04        | 19.97        | 21.00   |
|           |            | 50      | 0         | 19.95        | 20.02        | 20.06        | 21.00   |
|           |            | 50      | 13        | 19.95        | 20.02        | 20.06        | 21.00   |

| LTE Band 7 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                   | QPSK       | 1       | 0         | 23.23                | 23.33   | 23.35   | 24.00   |
|                        |            | 1       | 13        | 23.37                | 23.36   | 23.38   | 24.00   |
|                        |            | 1       | 24        | 23.23                | 23.19   | 23.34   | 24.00   |
|                        |            | 12      | 0         | 22.31                | 22.56   | 22.47   | 23.00   |
|                        |            | 12      | 6         | 22.48                | 22.45   | 22.42   | 23.00   |
|                        |            | 12      | 13        | 22.21                | 22.36   | 22.41   | 23.00   |
|                        |            | 25      | 0         | 22.34                | 22.48   | 22.50   | 23.00   |
|                        | 16QAM      | 1       | 0         | 22.70                | 22.78   | 22.58   | 23.00   |
|                        |            | 1       | 13        | 22.64                | 22.72   | 22.54   | 23.00   |
|                        |            | 1       | 24        | 22.53                | 22.54   | 22.35   | 23.00   |
|                        |            | 12      | 0         | 21.45                | 21.46   | 21.42   | 22.00   |
|                        |            | 12      | 6         | 21.54                | 21.58   | 21.42   | 22.00   |
|                        |            | 12      | 13        | 21.50                | 21.53   | 21.37   | 22.00   |
|                        |            | 25      | 0         | 21.57                | 21.40   | 21.46   | 22.00   |
|                        | 64QAM      | 1       | 0         | 21.57                | 21.63   | 21.52   | 22.00   |
|                        |            | 1       | 13        | 21.57                | 21.60   | 21.59   | 22.00   |
|                        |            | 1       | 24        | 21.41                | 21.47   | 21.39   | 22.00   |
|                        |            | 12      | 0         | 20.43                | 20.47   | 20.49   | 21.00   |
|                        |            | 12      | 6         | 20.39                | 20.40   | 20.36   | 21.00   |
|                        |            | 12      | 13        | 20.47                | 20.39   | 20.26   | 21.00   |
|                        |            | 25      | 0         | 20.53                | 20.47   | 20.51   | 21.00   |
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz                  | QPSK       | 1       | 0         | 23.22                | 23.41   | 23.26   | 24.00   |
|                        |            | 1       | 25        | 23.35                | 23.38   | 23.35   | 24.00   |
|                        |            | 1       | 49        | 23.28                | 23.27   | 23.31   | 24.00   |
|                        |            | 25      | 0         | 22.31                | 22.53   | 22.35   | 23.00   |
|                        |            | 25      | 13        | 22.31                | 22.47   | 22.46   | 23.00   |
|                        |            | 25      | 25        | 22.34                | 22.35   | 22.38   | 23.00   |
|                        |            | 50      | 0         | 22.31                | 22.41   | 22.51   | 23.00   |
|                        | 16QAM      | 1       | 0         | 22.58                | 22.85   | 22.56   | 23.00   |
|                        |            | 1       | 25        | 22.67                | 22.60   | 22.56   | 23.00   |
|                        |            | 1       | 49        | 22.56                | 22.56   | 22.48   | 23.00   |
|                        |            | 25      | 0         | 21.40                | 21.57   | 21.56   | 22.00   |
|                        |            | 25      | 13        | 21.47                | 21.49   | 21.57   | 22.00   |
|                        |            | 25      | 25        | 21.39                | 21.50   | 21.43   | 22.00   |
|                        |            | 50      | 0         | 21.40                | 21.44   | 21.32   | 22.00   |
|                        | 64QAM      | 1       | 0         | 21.50                | 21.56   | 21.44   | 22.00   |
|                        |            | 1       | 25        | 21.59                | 21.62   | 21.58   | 22.00   |
|                        |            | 1       | 49        | 21.39                | 21.49   | 21.43   | 22.00   |
|                        |            | 25      | 0         | 20.39                | 20.49   | 20.54   | 21.00   |
|                        |            | 25      | 13        | 20.50                | 20.50   | 20.49   | 21.00   |
|                        |            | 25      | 25        | 20.45                | 20.50   | 20.30   | 21.00   |
|                        |            | 50      | 0         | 20.54                | 20.40   | 20.42   | 21.00   |

| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|-----------|------------|---------|-----------|--------------|--------------|--------------|---------|
|           |            |         |           | 20825        | 21100        | 21375        |         |
| 15MHz     | QPSK       | 1       | 0         | 23.33        | 23.40        | 23.27        | 24.00   |
|           |            | 1       | 38        | 23.38        | 23.41        | 23.40        | 24.00   |
|           |            | 1       | 74        | 23.22        | 23.27        | 23.30        | 24.00   |
|           |            | 36      | 0         | 22.42        | 22.38        | 22.46        | 23.00   |
|           |            | 36      | 18        | 22.47        | 22.52        | 22.42        | 23.00   |
|           |            | 36      | 39        | 22.34        | 22.36        | 22.26        | 23.00   |
|           |            | 75      | 0         | 22.40        | 22.52        | 22.44        | 23.00   |
|           | 16QAM      | 1       | 0         | 22.75        | 22.74        | 22.60        | 23.00   |
|           |            | 1       | 38        | 22.70        | 22.61        | 22.49        | 23.00   |
|           |            | 1       | 74        | 22.50        | 22.47        | 22.37        | 23.00   |
|           |            | 36      | 0         | 21.36        | 21.55        | 21.50        | 22.00   |
|           |            | 36      | 18        | 21.46        | 21.46        | 21.48        | 22.00   |
|           |            | 36      | 39        | 21.42        | 21.47        | 21.33        | 22.00   |
|           |            | 75      | 0         | 21.49        | 21.42        | 21.42        | 22.00   |
|           | 64QAM      | 1       | 0         | 21.49        | 21.65        | 21.41        | 22.00   |
|           |            | 1       | 38        | 21.69        | 21.53        | 21.54        | 22.00   |
|           |            | 1       | 74        | 21.41        | 21.39        | 21.29        | 22.00   |
|           |            | 36      | 0         | 20.45        | 20.46        | 20.45        | 21.00   |
|           |            | 36      | 18        | 20.37        | 20.50        | 20.39        | 21.00   |
|           |            | 36      | 39        | 20.43        | 20.42        | 20.42        | 21.00   |
|           |            | 75      | 0         | 20.41        | 20.48        | 20.49        | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|           |            |         |           | 20850        | 21100        | 21350        |         |
| 20MHz     | QPSK       | 1       | 0         | 23.25        | 23.37        | 23.31        | 24.00   |
|           |            | 1       | 50        | <b>23.40</b> | <b>23.42</b> | <b>23.40</b> | 24.00   |
|           |            | 1       | 99        | 23.20        | 23.25        | 23.28        | 24.00   |
|           |            | 50      | 0         | 22.40        | <b>22.48</b> | 22.44        | 23.00   |
|           |            | 50      | 25        | 22.41        | 22.46        | 22.38        | 23.00   |
|           |            | 50      | 50        | 22.29        | 22.39        | 22.35        | 23.00   |
|           |            | 100     | 0         | 22.39        | 22.46        | 22.45        | 23.00   |
|           | 16QAM      | 1       | 0         | 22.68        | 22.77        | 22.67        | 23.00   |
|           |            | 1       | 50        | 22.67        | 22.64        | 22.56        | 23.00   |
|           |            | 1       | 99        | 22.60        | 22.55        | 22.46        | 23.00   |
|           |            | 50      | 0         | 21.41        | 21.50        | 21.51        | 22.00   |
|           |            | 50      | 25        | 21.54        | 21.50        | 21.53        | 22.00   |
|           |            | 50      | 50        | 21.42        | 21.45        | 21.37        | 22.00   |
|           |            | 100     | 0         | 21.49        | 21.45        | 21.43        | 22.00   |
|           | 64QAM      | 1       | 0         | 21.60        | 21.62        | 21.52        | 22.00   |
|           |            | 1       | 50        | 21.61        | 21.60        | 21.53        | 22.00   |
|           |            | 1       | 99        | 21.36        | 21.42        | 21.39        | 22.00   |
|           |            | 50      | 0         | 20.48        | 20.48        | 20.51        | 21.00   |
|           |            | 50      | 25        | 20.42        | 20.51        | 20.45        | 21.00   |
|           |            | 50      | 50        | 20.45        | 20.42        | 20.35        | 21.00   |
|           |            | 100     | 0         | 20.46        | 20.45        | 20.48        | 21.00   |

| LTE Band 7 Receiver off |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth               | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                         |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                    | QPSK       | 1       | 0         | 21.70                | 21.91   | 21.90   | 22.50   |
|                         |            | 1       | 13        | 21.75                | 21.94   | 21.85   | 22.50   |
|                         |            | 1       | 24        | 21.72                | 21.71   | 21.72   | 22.50   |
|                         |            | 12      | 0         | 21.66                | 21.64   | 21.56   | 22.50   |
|                         |            | 12      | 6         | 21.68                | 21.62   | 21.53   | 22.50   |
|                         |            | 12      | 13        | 21.50                | 21.65   | 21.46   | 22.50   |
|                         |            | 25      | 0         | 21.55                | 21.73   | 21.62   | 22.50   |
|                         | 16QAM      | 1       | 0         | 21.90                | 21.93   | 21.80   | 22.50   |
|                         |            | 1       | 13        | 21.85                | 21.89   | 21.75   | 22.50   |
|                         |            | 1       | 24        | 21.85                | 21.79   | 21.67   | 22.50   |
|                         |            | 12      | 0         | 20.63                | 20.63   | 20.60   | 21.50   |
|                         |            | 12      | 6         | 20.74                | 20.67   | 20.60   | 21.50   |
|                         |            | 12      | 13        | 20.47                | 20.67   | 20.45   | 21.50   |
|                         |            | 25      | 0         | 20.62                | 20.62   | 20.62   | 21.50   |
|                         | 64QAM      | 1       | 0         | 20.64                | 20.82   | 20.53   | 21.50   |
|                         |            | 1       | 13        | 20.69                | 20.74   | 20.49   | 21.50   |
|                         |            | 1       | 24        | 20.56                | 20.64   | 20.32   | 21.50   |
|                         |            | 12      | 0         | 19.55                | 19.65   | 19.60   | 20.50   |
|                         |            | 12      | 6         | 19.52                | 19.71   | 19.62   | 20.50   |
|                         |            | 12      | 13        | 19.47                | 19.58   | 19.51   | 20.50   |
|                         |            | 25      | 0         | 19.58                | 19.56   | 19.59   | 20.50   |
| Bandwidth               | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                         |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz                   | QPSK       | 1       | 0         | 21.82                | 21.89   | 21.91   | 22.50   |
|                         |            | 1       | 25        | 21.84                | 21.93   | 21.89   | 22.50   |
|                         |            | 1       | 49        | 21.72                | 21.75   | 21.80   | 22.50   |
|                         |            | 25      | 0         | 21.68                | 21.76   | 21.64   | 22.50   |
|                         |            | 25      | 13        | 21.62                | 21.57   | 21.49   | 22.50   |
|                         |            | 25      | 25        | 21.40                | 21.66   | 21.53   | 22.50   |
|                         |            | 50      | 0         | 21.55                | 21.78   | 21.69   | 22.50   |
|                         | 16QAM      | 1       | 0         | 21.85                | 21.90   | 21.84   | 22.50   |
|                         |            | 1       | 25        | 21.86                | 21.91   | 21.73   | 22.50   |
|                         |            | 1       | 49        | 21.87                | 21.82   | 21.60   | 22.50   |
|                         |            | 25      | 0         | 20.58                | 20.64   | 20.60   | 21.50   |
|                         |            | 25      | 13        | 20.77                | 20.55   | 20.59   | 21.50   |
|                         |            | 25      | 25        | 20.55                | 20.63   | 20.38   | 21.50   |
|                         |            | 50      | 0         | 20.61                | 20.73   | 20.61   | 21.50   |
|                         | 64QAM      | 1       | 0         | 20.72                | 20.84   | 20.64   | 21.50   |
|                         |            | 1       | 25        | 20.72                | 20.78   | 20.50   | 21.50   |
|                         |            | 1       | 49        | 20.51                | 20.53   | 20.34   | 21.50   |
|                         |            | 25      | 0         | 19.62                | 19.57   | 19.62   | 20.50   |
|                         |            | 25      | 13        | 19.55                | 19.72   | 19.61   | 20.50   |
|                         |            | 25      | 25        | 19.44                | 19.56   | 19.45   | 20.50   |
|                         |            | 50      | 0         | 19.56                | 19.61   | 19.51   | 20.50   |

| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|-----------|------------|---------|-----------|--------------|--------------|--------------|---------|
|           |            |         |           | 20825        | 21100        | 21375        |         |
| 15MHz     | QPSK       | 1       | 0         | 21.75        | 21.88        | 21.91        | 22.50   |
|           |            | 1       | 38        | 21.73        | 21.93        | 21.80        | 22.50   |
|           |            | 1       | 74        | 21.74        | 21.75        | 21.81        | 22.50   |
|           |            | 36      | 0         | 21.59        | 21.68        | 21.59        | 22.50   |
|           |            | 36      | 18        | 21.68        | 21.56        | 21.48        | 22.50   |
|           |            | 36      | 39        | 21.42        | 21.72        | 21.43        | 22.50   |
|           |            | 75      | 0         | 21.48        | 21.66        | 21.61        | 22.50   |
|           | 16QAM      | 1       | 0         | 21.84        | 21.91        | 21.89        | 22.50   |
|           |            | 1       | 38        | 21.86        | 21.88        | 21.80        | 22.50   |
|           |            | 1       | 74        | 21.91        | 21.78        | 21.64        | 22.50   |
|           |            | 36      | 0         | 20.58        | 20.66        | 20.61        | 21.50   |
|           |            | 36      | 18        | 20.72        | 20.66        | 20.62        | 21.50   |
|           |            | 36      | 39        | 20.52        | 20.70        | 20.43        | 21.50   |
|           |            | 75      | 0         | 20.56        | 20.72        | 20.51        | 21.50   |
|           | 64QAM      | 1       | 0         | 20.70        | 20.78        | 20.53        | 21.50   |
|           |            | 1       | 38        | 20.64        | 20.80        | 20.51        | 21.50   |
|           |            | 1       | 74        | 20.53        | 20.55        | 20.40        | 21.50   |
|           |            | 36      | 0         | 19.56        | 19.65        | 19.70        | 20.50   |
|           |            | 36      | 18        | 19.63        | 19.66        | 19.55        | 20.50   |
|           |            | 36      | 39        | 19.50        | 19.62        | 19.41        | 20.50   |
|           |            | 75      | 0         | 19.56        | 19.53        | 19.53        | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|           |            |         |           | 20850        | 21100        | 21350        |         |
| 20MHz     | QPSK       | 1       | 0         | 21.76        | 21.93        | 21.85        | 22.50   |
|           |            | 1       | 50        | <b>21.78</b> | <b>21.96</b> | <b>21.86</b> | 22.50   |
|           |            | 1       | 99        | 21.76        | 21.76        | 21.77        | 22.50   |
|           |            | 50      | 0         | <b>21.65</b> | <b>21.70</b> | <b>21.62</b> | 22.50   |
|           |            | 50      | 25        | 21.54        | 21.60        | 21.50        | 22.50   |
|           |            | 50      | 50        | 21.45        | 21.56        | 21.47        | 22.50   |
|           |            | 100     | 0         | 21.53        | <b>21.72</b> | 21.64        | 22.50   |
|           | 16QAM      | 1       | 0         | 21.88        | 21.94        | 21.85        | 22.50   |
|           |            | 1       | 50        | 21.91        | 21.85        | 21.77        | 22.50   |
|           |            | 1       | 99        | 21.90        | 21.79        | 21.66        | 22.50   |
|           |            | 50      | 0         | 20.59        | 20.60        | 20.62        | 21.50   |
|           |            | 50      | 25        | 20.72        | 20.61        | 20.59        | 21.50   |
|           |            | 50      | 50        | 20.52        | 20.64        | 20.42        | 21.50   |
|           |            | 100     | 0         | 20.57        | 20.67        | 20.57        | 21.50   |
|           | 64QAM      | 1       | 0         | 20.70        | 20.78        | 20.59        | 21.50   |
|           |            | 1       | 50        | 20.66        | 20.74        | 20.49        | 21.50   |
|           |            | 1       | 99        | 20.55        | 20.59        | 20.34        | 21.50   |
|           |            | 50      | 0         | 19.60        | 19.60        | 19.66        | 20.50   |
|           |            | 50      | 25        | 19.58        | 19.67        | 19.56        | 20.50   |
|           |            | 50      | 50        | 19.44        | 19.58        | 19.47        | 20.50   |
|           |            | 100     | 0         | 19.58        | 19.58        | 19.57        | 20.50   |

| LTE Band 12 Receiver on/off |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 23017                | 23095   | 23173   |         |
| 1.4MHz                      | QPSK       | 1       | 0         | 22.93                | 23.03   | 23.06   | 24.00   |
|                             |            | 1       | 2         | 23.03                | 23.12   | 23.04   | 24.00   |
|                             |            | 1       | 5         | 22.97                | 22.91   | 22.88   | 24.00   |
|                             |            | 3       | 0         | 22.92                | 23.11   | 23.09   | 24.00   |
|                             |            | 3       | 2         | 23.03                | 22.98   | 23.07   | 24.00   |
|                             |            | 3       | 3         | 22.91                | 22.92   | 22.98   | 24.00   |
|                             |            | 6       | 0         | 22.12                | 22.10   | 22.04   | 23.00   |
|                             | 16QAM      | 1       | 0         | 22.18                | 22.15   | 22.19   | 23.00   |
|                             |            | 1       | 2         | 22.38                | 22.49   | 22.38   | 23.00   |
|                             |            | 1       | 5         | 22.18                | 22.11   | 22.09   | 23.00   |
|                             |            | 3       | 0         | 22.21                | 22.18   | 22.27   | 23.00   |
|                             |            | 3       | 2         | 22.46                | 22.35   | 22.33   | 23.00   |
|                             |            | 3       | 3         | 22.20                | 22.11   | 22.22   | 23.00   |
|                             |            | 6       | 0         | 21.02                | 20.95   | 20.97   | 22.00   |
|                             | 64QAM      | 1       | 0         | 21.27                | 21.21   | 21.22   | 22.00   |
|                             |            | 1       | 2         | 21.36                | 21.21   | 21.15   | 22.00   |
|                             |            | 1       | 5         | 20.96                | 21.02   | 21.02   | 22.00   |
|                             |            | 3       | 0         | 21.20                | 21.12   | 21.15   | 22.00   |
|                             |            | 3       | 2         | 21.31                | 21.16   | 21.22   | 22.00   |
|                             |            | 3       | 3         | 20.86                | 21.01   | 20.98   | 22.00   |
|                             |            | 6       | 0         | 20.16                | 20.12   | 20.17   | 21.00   |
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 23025                | 23095   | 23165   |         |
| 3MHz                        | QPSK       | 1       | 0         | 22.95                | 23.10   | 23.10   | 24.00   |
|                             |            | 1       | 7         | 23.01                | 23.08   | 23.04   | 24.00   |
|                             |            | 1       | 14        | 22.84                | 23.00   | 22.87   | 24.00   |
|                             |            | 8       | 0         | 22.00                | 22.21   | 22.20   | 23.00   |
|                             |            | 8       | 4         | 21.99                | 22.08   | 22.03   | 23.00   |
|                             |            | 8       | 7         | 21.88                | 21.96   | 22.03   | 23.00   |
|                             |            | 15      | 0         | 22.09                | 22.09   | 21.93   | 23.00   |
|                             | 16QAM      | 1       | 0         | 22.08                | 22.14   | 22.20   | 23.00   |
|                             |            | 1       | 7         | 22.35                | 22.49   | 22.42   | 23.00   |
|                             |            | 1       | 14        | 22.04                | 22.16   | 22.19   | 23.00   |
|                             |            | 8       | 0         | 21.12                | 21.15   | 21.05   | 22.00   |
|                             |            | 8       | 4         | 20.97                | 21.04   | 21.00   | 22.00   |
|                             |            | 8       | 7         | 20.88                | 21.07   | 21.00   | 22.00   |
|                             |            | 15      | 0         | 20.96                | 20.96   | 21.06   | 22.00   |
|                             | 64QAM      | 1       | 0         | 21.32                | 21.26   | 21.20   | 22.00   |
|                             |            | 1       | 7         | 21.36                | 21.29   | 21.16   | 22.00   |
|                             |            | 1       | 14        | 20.91                | 20.94   | 20.91   | 22.00   |
|                             |            | 8       | 0         | 19.98                | 20.07   | 20.02   | 21.00   |
|                             |            | 8       | 4         | 19.98                | 20.10   | 19.94   | 21.00   |
|                             |            | 8       | 7         | 19.84                | 19.93   | 19.89   | 21.00   |
|                             |            | 15      | 0         | 20.10                | 20.03   | 20.03   | 21.00   |

| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|-----------|------------|---------|-----------|--------------|--------------|--------------|---------|
|           |            |         |           | 23035        | 23095        | 23155        |         |
| 5MHz      | QPSK       | 1       | 0         | 22.99        | 23.09        | 23.11        | 24.00   |
|           |            | 1       | 13        | 22.97        | 23.06        | 23.00        | 24.00   |
|           |            | 1       | 24        | 22.89        | 23.00        | 22.95        | 24.00   |
|           |            | 12      | 0         | 22.14        | 22.07        | 22.03        | 23.00   |
|           |            | 12      | 6         | 22.17        | 22.02        | 22.03        | 23.00   |
|           |            | 12      | 13        | 21.88        | 22.03        | 22.09        | 23.00   |
|           |            | 25      | 0         | 22.08        | 22.12        | 22.04        | 23.00   |
|           | 16QAM      | 1       | 0         | 22.19        | 22.22        | 22.23        | 23.00   |
|           |            | 1       | 13        | 22.50        | 22.44        | 22.37        | 23.00   |
|           |            | 1       | 24        | 22.12        | 22.19        | 22.19        | 23.00   |
|           |            | 12      | 0         | 21.18        | 21.05        | 20.95        | 22.00   |
|           |            | 12      | 6         | 21.01        | 21.09        | 20.94        | 22.00   |
|           |            | 12      | 13        | 20.97        | 21.06        | 20.88        | 22.00   |
|           |            | 25      | 0         | 20.98        | 21.09        | 21.07        | 22.00   |
|           | 64QAM      | 1       | 0         | 21.24        | 21.29        | 21.17        | 22.00   |
|           |            | 1       | 13        | 21.32        | 21.31        | 21.13        | 22.00   |
|           |            | 1       | 24        | 20.94        | 21.10        | 20.93        | 22.00   |
|           |            | 12      | 0         | 19.99        | 20.13        | 20.07        | 21.00   |
|           |            | 12      | 6         | 20.10        | 20.07        | 20.07        | 21.00   |
|           |            | 12      | 13        | 19.84        | 20.03        | 19.81        | 21.00   |
|           |            | 25      | 0         | 20.07        | 20.03        | 20.05        | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel      | Channel      | Tune up |
|           |            |         |           | 23060        | 23095        | 23130        |         |
| 10MHz     | QPSK       | 1       | 0         | <b>23.03</b> | <b>23.13</b> | <b>23.11</b> | 24.00   |
|           |            | 1       | 25        | 23.01        | 23.06        | 23.04        | 24.00   |
|           |            | 1       | 49        | 22.90        | 22.93        | 22.92        | 24.00   |
|           |            | 25      | 0         | 22.07        | <b>22.15</b> | 22.12        | 23.00   |
|           |            | 25      | 13        | 22.10        | 22.06        | 22.01        | 23.00   |
|           |            | 25      | 25        | 21.96        | 21.99        | 22.01        | 23.00   |
|           |            | 50      | 0         | 22.11        | 22.08        | 21.99        | 23.00   |
|           | 16QAM      | 1       | 0         | 22.14        | 22.23        | 22.23        | 23.00   |
|           |            | 1       | 25        | 22.45        | 22.42        | 22.35        | 23.00   |
|           |            | 1       | 49        | 22.15        | 22.22        | 22.16        | 23.00   |
|           |            | 25      | 0         | 21.13        | 21.13        | 21.03        | 22.00   |
|           |            | 25      | 13        | 20.98        | 21.06        | 21.05        | 22.00   |
|           |            | 25      | 25        | 20.98        | 21.00        | 20.96        | 22.00   |
|           |            | 50      | 0         | 21.05        | 21.06        | 21.05        | 22.00   |
|           | 64QAM      | 1       | 0         | 21.24        | 21.23        | 21.25        | 22.00   |
|           |            | 1       | 25        | 21.29        | 21.26        | 21.16        | 22.00   |
|           |            | 1       | 49        | 20.95        | 21.03        | 20.96        | 22.00   |
|           |            | 25      | 0         | 20.02        | 20.10        | 20.11        | 21.00   |
|           |            | 25      | 13        | 20.02        | 20.03        | 20.04        | 21.00   |
|           |            | 25      | 25        | 19.95        | 19.98        | 19.91        | 21.00   |
|           |            | 50      | 0         | 20.10        | 20.06        | 20.10        | 21.00   |

| LTE Band 17 Receiver on/off |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 23755                | 23790   | 23825   |         |
| 5MHz                        | QPSK       | 1       | 0         | 22.93                | 22.96   | 22.91   | 24.00   |
|                             |            | 1       | 13        | 22.84                | 22.73   | 22.80   | 24.00   |
|                             |            | 1       | 24        | 22.76                | 22.89   | 22.83   | 24.00   |
|                             |            | 12      | 0         | 21.97                | 21.96   | 21.93   | 23.00   |
|                             |            | 12      | 6         | 21.78                | 21.94   | 21.84   | 23.00   |
|                             |            | 12      | 13        | 21.96                | 21.96   | 21.79   | 23.00   |
|                             |            | 25      | 0         | 21.96                | 21.96   | 21.72   | 23.00   |
|                             | 16QAM      | 1       | 0         | 22.23                | 22.23   | 22.26   | 23.00   |
|                             |            | 1       | 13        | 22.25                | 22.15   | 22.08   | 23.00   |
|                             |            | 1       | 24        | 22.20                | 22.11   | 22.14   | 23.00   |
|                             |            | 12      | 0         | 21.02                | 20.94   | 20.97   | 22.00   |
|                             |            | 12      | 6         | 20.85                | 20.82   | 20.85   | 22.00   |
|                             |            | 12      | 13        | 20.77                | 20.92   | 20.90   | 22.00   |
|                             |            | 25      | 0         | 20.87                | 20.85   | 21.04   | 22.00   |
|                             | 64QAM      | 1       | 0         | 21.16                | 21.25   | 21.13   | 22.00   |
|                             |            | 1       | 13        | 20.84                | 20.91   | 21.03   | 22.00   |
|                             |            | 1       | 24        | 21.06                | 21.09   | 21.07   | 22.00   |
|                             |            | 12      | 0         | 19.89                | 19.94   | 19.84   | 21.00   |
|                             |            | 12      | 6         | 19.91                | 19.85   | 19.80   | 21.00   |
|                             |            | 12      | 13        | 19.85                | 19.83   | 19.85   | 21.00   |
|                             |            | 25      | 0         | 19.76                | 19.92   | 20.00   | 21.00   |
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 23780                | 23790   | 23800   |         |
| 10MHz                       | QPSK       | 1       | 0         | 22.94                | 23.01   | 22.97   | 24.00   |
|                             |            | 1       | 25        | 22.79                | 22.83   | 22.86   | 24.00   |
|                             |            | 1       | 49        | 22.78                | 22.85   | 22.77   | 24.00   |
|                             |            | 25      | 0         | 21.92                | 21.97   | 21.88   | 23.00   |
|                             |            | 25      | 13        | 21.78                | 21.86   | 21.87   | 23.00   |
|                             |            | 25      | 25        | 21.91                | 21.90   | 21.83   | 23.00   |
|                             |            | 50      | 0         | 21.93                | 21.93   | 21.83   | 23.00   |
|                             | 16QAM      | 1       | 0         | 22.26                | 22.26   | 22.30   | 23.00   |
|                             |            | 1       | 25        | 22.21                | 22.16   | 22.11   | 23.00   |
|                             |            | 1       | 49        | 22.22                | 22.20   | 22.25   | 23.00   |
|                             |            | 25      | 0         | 21.01                | 20.99   | 20.94   | 22.00   |
|                             |            | 25      | 13        | 20.77                | 20.86   | 20.82   | 22.00   |
|                             |            | 25      | 25        | 20.79                | 20.88   | 20.87   | 22.00   |
|                             |            | 50      | 0         | 20.89                | 20.94   | 20.96   | 22.00   |
|                             | 64QAM      | 1       | 0         | 21.08                | 21.17   | 21.14   | 22.00   |
|                             |            | 1       | 25        | 20.84                | 20.93   | 20.95   | 22.00   |
|                             |            | 1       | 49        | 20.99                | 21.03   | 21.00   | 22.00   |
|                             |            | 25      | 0         | 19.93                | 19.98   | 19.88   | 21.00   |
|                             |            | 25      | 13        | 19.87                | 19.86   | 19.82   | 21.00   |
|                             |            | 25      | 25        | 19.87                | 19.90   | 19.86   | 21.00   |
|                             |            | 50      | 0         | 19.83                | 19.93   | 19.96   | 21.00   |

| LTE Band 38 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth               | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                         |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz                    | QPSK       | 1       | 0         | 23.16                | 23.27   | 23.09   | 24.00   |
|                         |            | 1       | 13        | 23.22                | 23.24   | 23.26   | 24.00   |
|                         |            | 1       | 24        | 23.13                | 23.22   | 23.19   | 24.00   |
|                         |            | 12      | 0         | 22.11                | 22.28   | 22.19   | 23.00   |
|                         |            | 12      | 6         | 22.18                | 22.17   | 22.12   | 23.00   |
|                         |            | 12      | 13        | 22.16                | 22.21   | 22.14   | 23.00   |
|                         |            | 25      | 0         | 22.12                | 22.21   | 22.10   | 23.00   |
|                         | 16QAM      | 1       | 0         | 22.18                | 22.29   | 22.30   | 23.00   |
|                         |            | 1       | 13        | 22.22                | 22.31   | 22.36   | 23.00   |
|                         |            | 1       | 24        | 22.15                | 22.18   | 22.07   | 23.00   |
|                         |            | 12      | 0         | 21.14                | 21.21   | 21.12   | 22.00   |
|                         |            | 12      | 6         | 21.25                | 21.31   | 21.19   | 22.00   |
|                         |            | 12      | 13        | 21.16                | 21.22   | 21.20   | 22.00   |
|                         |            | 25      | 0         | 21.14                | 21.13   | 21.17   | 22.00   |
|                         | 64QAM      | 1       | 0         | 20.89                | 20.93   | 20.87   | 22.00   |
|                         |            | 1       | 13        | 20.93                | 20.77   | 20.92   | 22.00   |
|                         |            | 1       | 24        | 20.92                | 20.76   | 20.87   | 22.00   |
|                         |            | 12      | 0         | 20.18                | 20.21   | 20.10   | 21.00   |
|                         |            | 12      | 6         | 20.19                | 20.30   | 20.16   | 21.00   |
|                         |            | 12      | 13        | 20.09                | 20.20   | 20.20   | 21.00   |
|                         |            | 25      | 0         | 20.26                | 20.15   | 20.17   | 21.00   |
| Bandwidth               | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                         |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz                   | QPSK       | 1       | 0         | 23.22                | 23.21   | 23.12   | 24.00   |
|                         |            | 1       | 25        | 23.18                | 23.26   | 23.21   | 24.00   |
|                         |            | 1       | 49        | 23.11                | 23.12   | 23.13   | 24.00   |
|                         |            | 25      | 0         | 22.18                | 22.18   | 22.20   | 23.00   |
|                         |            | 25      | 13        | 22.19                | 22.30   | 22.18   | 23.00   |
|                         |            | 25      | 25        | 22.11                | 22.29   | 22.19   | 23.00   |
|                         |            | 50      | 0         | 22.11                | 22.19   | 22.13   | 23.00   |
|                         | 16QAM      | 1       | 0         | 22.18                | 22.25   | 22.29   | 23.00   |
|                         |            | 1       | 25        | 22.31                | 22.19   | 22.27   | 23.00   |
|                         |            | 1       | 49        | 22.21                | 22.16   | 22.04   | 23.00   |
|                         |            | 25      | 0         | 21.25                | 21.28   | 21.26   | 22.00   |
|                         |            | 25      | 13        | 21.21                | 21.20   | 21.22   | 22.00   |
|                         |            | 25      | 25        | 21.18                | 21.15   | 21.21   | 22.00   |
|                         |            | 50      | 0         | 21.12                | 21.13   | 21.32   | 22.00   |
|                         | 64QAM      | 1       | 0         | 20.79                | 20.88   | 20.79   | 22.00   |
|                         |            | 1       | 25        | 20.79                | 20.78   | 20.88   | 22.00   |
|                         |            | 1       | 49        | 20.93                | 20.91   | 20.76   | 22.00   |
|                         |            | 25      | 0         | 20.18                | 20.28   | 20.14   | 21.00   |
|                         |            | 25      | 13        | 20.22                | 20.29   | 20.17   | 21.00   |
|                         |            | 25      | 25        | 20.11                | 20.13   | 20.27   | 21.00   |
|                         |            | 50      | 0         | 20.19                | 20.22   | 20.25   | 21.00   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.23   | 23.22   | 23.10   | 24.00   |
|           |            | 1       | 38        | 23.24   | 23.20   | 23.21   | 24.00   |
|           |            | 1       | 74        | 23.11   | 23.23   | 23.09   | 24.00   |
|           |            | 36      | 0         | 22.15   | 22.17   | 22.21   | 23.00   |
|           |            | 36      | 18        | 22.11   | 22.28   | 22.20   | 23.00   |
|           |            | 36      | 39        | 22.10   | 22.23   | 22.10   | 23.00   |
|           |            | 75      | 0         | 22.19   | 22.27   | 22.15   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.08   | 22.23   | 22.27   | 23.00   |
|           |            | 1       | 38        | 22.31   | 22.20   | 22.35   | 23.00   |
|           |            | 1       | 74        | 22.21   | 22.18   | 22.17   | 23.00   |
|           |            | 36      | 0         | 21.21   | 21.28   | 21.17   | 22.00   |
|           |            | 36      | 18        | 21.23   | 21.27   | 21.18   | 22.00   |
|           |            | 36      | 39        | 21.21   | 21.31   | 21.22   | 22.00   |
|           |            | 75      | 0         | 21.16   | 21.24   | 21.17   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.78   | 20.98   | 20.78   | 22.00   |
|           |            | 1       | 38        | 20.79   | 20.89   | 20.92   | 22.00   |
|           |            | 1       | 74        | 20.79   | 20.83   | 20.88   | 22.00   |
|           |            | 36      | 0         | 20.18   | 20.27   | 20.14   | 21.00   |
|           |            | 36      | 18        | 20.34   | 20.19   | 20.20   | 21.00   |
|           |            | 36      | 39        | 20.05   | 20.22   | 20.19   | 21.00   |
|           |            | 75      | 0         | 20.12   | 20.15   | 20.27   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37850   | 38000   | 38150   |         |
| 20MHz     | QPSK       | 1       | 0         | 23.23   | 23.25   | 23.12   | 24.00   |
|           |            | 1       | 50        | 23.25   | 23.28   | 23.21   | 24.00   |
|           |            | 1       | 99        | 23.18   | 23.15   | 23.11   | 24.00   |
|           |            | 50      | 0         | 22.18   | 22.24   | 22.16   | 23.00   |
|           |            | 50      | 25        | 22.14   | 22.22   | 22.18   | 23.00   |
|           |            | 50      | 50        | 22.17   | 22.21   | 22.12   | 23.00   |
|           |            | 100     | 0         | 22.12   | 22.20   | 22.18   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.16   | 22.26   | 22.30   | 23.00   |
|           |            | 1       | 50        | 22.28   | 22.27   | 22.28   | 23.00   |
|           |            | 1       | 99        | 22.17   | 22.21   | 22.11   | 23.00   |
|           |            | 50      | 0         | 21.19   | 21.27   | 21.18   | 22.00   |
|           |            | 50      | 25        | 21.29   | 21.25   | 21.19   | 22.00   |
|           |            | 50      | 50        | 21.21   | 21.23   | 21.16   | 22.00   |
|           |            | 100     | 0         | 21.17   | 21.20   | 21.25   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.85   | 20.91   | 20.86   | 22.00   |
|           |            | 1       | 50        | 20.87   | 20.83   | 20.84   | 22.00   |
|           |            | 1       | 99        | 20.85   | 20.83   | 20.84   | 22.00   |
|           |            | 50      | 0         | 20.15   | 20.25   | 20.17   | 21.00   |
|           |            | 50      | 25        | 20.26   | 20.25   | 20.21   | 21.00   |
|           |            | 50      | 50        | 20.11   | 20.21   | 20.21   | 21.00   |
|           |            | 100     | 0         | 20.20   | 20.18   | 20.20   | 21.00   |

| LTE Band 38 Receiver off |            |         |           | Conducted Power(dBm) |         |         |         |
|--------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                          |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz                     | QPSK       | 1       | 0         | 22.12                | 22.30   | 22.07   | 23.00   |
|                          |            | 1       | 13        | 22.20                | 22.25   | 22.19   | 23.00   |
|                          |            | 1       | 24        | 22.20                | 22.08   | 22.16   | 23.00   |
|                          |            | 12      | 0         | 22.01                | 22.13   | 21.98   | 23.00   |
|                          |            | 12      | 6         | 22.09                | 22.25   | 22.11   | 23.00   |
|                          |            | 12      | 13        | 22.17                | 22.18   | 22.11   | 23.00   |
|                          |            | 25      | 0         | 22.09                | 22.17   | 22.02   | 23.00   |
|                          | 16QAM      | 1       | 0         | 22.03                | 22.18   | 22.21   | 23.00   |
|                          |            | 1       | 13        | 22.07                | 22.21   | 22.11   | 23.00   |
|                          |            | 1       | 24        | 22.18                | 22.27   | 21.93   | 23.00   |
|                          |            | 12      | 0         | 21.14                | 21.18   | 21.11   | 22.00   |
|                          |            | 12      | 6         | 21.16                | 21.16   | 21.06   | 22.00   |
|                          |            | 12      | 13        | 21.22                | 21.21   | 21.01   | 22.00   |
|                          |            | 25      | 0         | 21.07                | 21.10   | 21.22   | 22.00   |
|                          | 64QAM      | 1       | 0         | 21.08                | 21.13   | 21.03   | 22.00   |
|                          |            | 1       | 13        | 21.08                | 21.02   | 21.16   | 22.00   |
|                          |            | 1       | 24        | 21.08                | 21.03   | 21.08   | 22.00   |
|                          |            | 12      | 0         | 20.05                | 20.15   | 20.08   | 21.00   |
|                          |            | 12      | 6         | 20.29                | 20.11   | 20.06   | 21.00   |
|                          |            | 12      | 13        | 20.03                | 20.23   | 20.07   | 21.00   |
|                          |            | 25      | 0         | 20.20                | 20.07   | 20.04   | 21.00   |
| Bandwidth                | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                          |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz                    | QPSK       | 1       | 0         | 22.12                | 22.26   | 22.16   | 23.00   |
|                          |            | 1       | 25        | 22.20                | 22.26   | 22.18   | 23.00   |
|                          |            | 1       | 49        | 22.16                | 22.19   | 22.11   | 23.00   |
|                          |            | 25      | 0         | 22.06                | 22.09   | 22.07   | 23.00   |
|                          |            | 25      | 13        | 22.07                | 22.22   | 22.07   | 23.00   |
|                          |            | 25      | 25        | 22.14                | 22.22   | 22.13   | 23.00   |
|                          |            | 50      | 0         | 22.08                | 22.06   | 22.07   | 23.00   |
|                          | 16QAM      | 1       | 0         | 21.97                | 22.21   | 22.18   | 23.00   |
|                          |            | 1       | 25        | 22.09                | 22.17   | 22.14   | 23.00   |
|                          |            | 1       | 49        | 22.16                | 22.22   | 21.93   | 23.00   |
|                          |            | 25      | 0         | 21.15                | 21.17   | 21.09   | 22.00   |
|                          |            | 25      | 13        | 21.28                | 21.20   | 21.03   | 22.00   |
|                          |            | 25      | 25        | 21.22                | 21.18   | 21.08   | 22.00   |
|                          |            | 50      | 0         | 21.10                | 21.09   | 21.21   | 22.00   |
|                          | 64QAM      | 1       | 0         | 21.02                | 21.17   | 21.09   | 22.00   |
|                          |            | 1       | 25        | 21.07                | 20.98   | 21.09   | 22.00   |
|                          |            | 1       | 49        | 21.13                | 21.07   | 21.09   | 22.00   |
|                          |            | 25      | 0         | 20.04                | 20.24   | 20.03   | 21.00   |
|                          |            | 25      | 13        | 20.17                | 20.17   | 20.05   | 21.00   |
|                          |            | 25      | 25        | 19.90                | 20.16   | 20.12   | 21.00   |
|                          |            | 50      | 0         | 20.13                | 20.17   | 20.09   | 21.00   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.18   | 22.30   | 22.12   | 23.00   |
|           |            | 1       | 38        | 22.23   | 22.30   | 22.29   | 23.00   |
|           |            | 1       | 74        | 22.14   | 22.19   | 22.05   | 23.00   |
|           |            | 36      | 0         | 22.06   | 22.05   | 22.11   | 23.00   |
|           |            | 36      | 18        | 22.09   | 22.15   | 22.05   | 23.00   |
|           |            | 36      | 39        | 22.13   | 22.12   | 22.16   | 23.00   |
|           |            | 75      | 0         | 22.17   | 22.09   | 22.08   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.09   | 22.19   | 22.27   | 23.00   |
|           |            | 1       | 38        | 22.11   | 22.13   | 22.19   | 23.00   |
|           |            | 1       | 74        | 22.19   | 22.23   | 22.04   | 23.00   |
|           |            | 36      | 0         | 21.09   | 21.29   | 21.02   | 22.00   |
|           |            | 36      | 18        | 21.17   | 21.18   | 21.11   | 22.00   |
|           |            | 36      | 39        | 21.08   | 21.29   | 21.08   | 22.00   |
|           |            | 75      | 0         | 21.09   | 21.01   | 21.26   | 22.00   |
|           | 64QAM      | 1       | 0         | 21.01   | 21.15   | 21.03   | 22.00   |
|           |            | 1       | 38        | 21.08   | 21.07   | 21.02   | 22.00   |
|           |            | 1       | 74        | 21.17   | 21.01   | 21.04   | 22.00   |
|           |            | 36      | 0         | 20.08   | 20.27   | 20.15   | 21.00   |
|           |            | 36      | 18        | 20.30   | 20.13   | 20.11   | 21.00   |
|           |            | 36      | 39        | 20.00   | 20.16   | 20.04   | 21.00   |
|           |            | 75      | 0         | 20.16   | 20.14   | 20.14   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37850   | 38000   | 38150   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.17   | 22.29   | 22.09   | 23.00   |
|           |            | 1       | 50        | 22.22   | 22.31   | 22.24   | 23.00   |
|           |            | 1       | 99        | 22.16   | 22.11   | 22.10   | 23.00   |
|           |            | 50      | 0         | 22.03   | 22.11   | 22.03   | 23.00   |
|           |            | 50      | 25        | 22.08   | 22.19   | 22.05   | 23.00   |
|           |            | 50      | 50        | 22.09   | 22.17   | 22.09   | 23.00   |
|           |            | 100     | 0         | 22.10   | 22.12   | 22.06   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.01   | 22.15   | 22.19   | 23.00   |
|           |            | 1       | 50        | 22.13   | 22.16   | 22.17   | 23.00   |
|           |            | 1       | 99        | 22.13   | 22.19   | 21.99   | 23.00   |
|           |            | 50      | 0         | 21.07   | 21.21   | 21.06   | 22.00   |
|           |            | 50      | 25        | 21.22   | 21.19   | 21.03   | 22.00   |
|           |            | 50      | 50        | 21.14   | 21.21   | 21.03   | 22.00   |
|           |            | 100     | 0         | 21.13   | 21.07   | 21.21   | 22.00   |
|           | 64QAM      | 1       | 0         | 21.03   | 21.17   | 21.01   | 22.00   |
|           |            | 1       | 50        | 21.02   | 21.04   | 21.08   | 22.00   |
|           |            | 1       | 99        | 21.12   | 21.03   | 21.05   | 22.00   |
|           |            | 50      | 0         | 20.00   | 20.19   | 20.09   | 21.00   |
|           |            | 50      | 25        | 20.22   | 20.11   | 20.08   | 21.00   |
|           |            | 50      | 50        | 19.96   | 20.17   | 20.07   | 21.00   |
|           |            | 100     | 0         | 20.12   | 20.11   | 20.08   | 21.00   |

| LTE Band 41 Receiver on |            |         |           | 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         | 23.31                | 23.81   | 23.77   | 23.61   | 23.90   | 24.50   |
|                         |            | 1       | 13        | 23.07                | 23.66   | 23.55   | 23.50   | 23.61   | 24.50   |
|                         |            | 1       | 24        | 23.06                | 23.53   | 23.41   | 23.35   | 23.62   | 24.50   |
|                         |            | 12      | 0         | 22.31                | 22.54   | 22.61   | 22.54   | 22.73   | 23.50   |
|                         |            | 12      | 6         | 22.36                | 22.76   | 22.68   | 22.51   | 22.79   | 23.50   |
|                         |            | 12      | 13        | 22.30                | 22.70   | 22.69   | 22.45   | 22.69   | 23.50   |
|                         |            | 25      | 0         | 22.36                | 22.68   | 22.67   | 22.56   | 22.71   | 23.50   |
|                         | 16QAM      | 1       | 0         | 22.28                | 22.62   | 22.73   | 22.47   | 22.66   | 23.50   |
|                         |            | 1       | 13        | 22.32                | 22.67   | 22.73   | 22.64   | 22.84   | 23.50   |
|                         |            | 1       | 24        | 22.34                | 22.65   | 22.71   | 22.45   | 22.71   | 23.50   |
|                         |            | 12      | 0         | 21.51                | 21.81   | 21.88   | 21.73   | 21.99   | 22.50   |
|                         |            | 12      | 6         | 21.46                | 21.86   | 21.74   | 21.59   | 21.89   | 22.50   |
|                         |            | 12      | 13        | 21.32                | 21.70   | 21.81   | 21.67   | 21.82   | 22.50   |
|                         |            | 25      | 0         | 21.52                | 21.75   | 21.82   | 21.64   | 21.85   | 22.50   |
|                         | 64QAM      | 1       | 0         | 21.06                | 21.36   | 21.33   | 21.35   | 21.56   | 22.50   |
|                         |            | 1       | 13        | 20.92                | 21.50   | 21.34   | 21.30   | 21.58   | 22.50   |
|                         |            | 1       | 24        | 20.98                | 21.48   | 21.32   | 21.32   | 21.55   | 22.50   |
|                         |            | 12      | 0         | 20.56                | 20.92   | 20.94   | 20.74   | 20.98   | 21.50   |
|                         |            | 12      | 6         | 20.49                | 20.86   | 20.89   | 20.73   | 21.06   | 21.50   |
|                         |            | 12      | 13        | 20.31                | 20.85   | 20.80   | 20.77   | 20.89   | 21.50   |
|                         |            | 25      | 0         | 20.52                | 20.85   | 20.84   | 20.65   | 20.99   | 21.50   |
| Bandwidth               | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|                         |            |         |           | 39700                | 40160   | 40620   | 41080   | 41540   |         |
| 10MHz                   | QPSK       | 1       | 0         | 23.38                | 23.80   | 23.78   | 23.56   | 23.85   | 24.50   |
|                         |            | 1       | 25        | 23.08                | 23.62   | 23.51   | 23.41   | 23.67   | 24.50   |
|                         |            | 1       | 49        | 22.99                | 23.57   | 23.35   | 23.34   | 23.49   | 24.50   |
|                         |            | 25      | 0         | 22.36                | 22.55   | 22.60   | 22.49   | 22.79   | 23.50   |
|                         |            | 25      | 13        | 22.30                | 22.64   | 22.74   | 22.60   | 22.85   | 23.50   |
|                         |            | 25      | 25        | 22.25                | 22.61   | 22.67   | 22.45   | 22.71   | 23.50   |
|                         |            | 50      | 0         | 22.30                | 22.57   | 22.72   | 22.62   | 22.82   | 23.50   |
|                         | 16QAM      | 1       | 0         | 22.18                | 22.61   | 22.70   | 22.45   | 22.64   | 23.50   |
|                         |            | 1       | 25        | 22.21                | 22.66   | 22.68   | 22.68   | 22.75   | 23.50   |
|                         |            | 1       | 49        | 22.36                | 22.60   | 22.69   | 22.51   | 22.80   | 23.50   |
|                         |            | 25      | 0         | 21.44                | 21.91   | 21.92   | 21.71   | 21.99   | 22.50   |
|                         |            | 25      | 13        | 21.40                | 21.81   | 21.75   | 21.62   | 21.81   | 22.50   |
|                         |            | 25      | 25        | 21.41                | 21.73   | 21.83   | 21.62   | 21.82   | 22.50   |
|                         |            | 50      | 0         | 21.38                | 21.82   | 21.90   | 21.71   | 21.91   | 22.50   |
|                         | 64QAM      | 1       | 0         | 21.02                | 21.43   | 21.33   | 21.25   | 21.52   | 22.50   |
|                         |            | 1       | 25        | 20.99                | 21.49   | 21.40   | 21.27   | 21.60   | 22.50   |
|                         |            | 1       | 49        | 21.01                | 21.35   | 21.29   | 21.21   | 21.50   | 22.50   |
|                         |            | 25      | 0         | 20.48                | 20.83   | 20.90   | 20.76   | 21.04   | 21.50   |
|                         |            | 25      | 13        | 20.56                | 20.88   | 20.89   | 20.72   | 21.02   | 21.50   |
|                         |            | 25      | 25        | 20.45                | 20.82   | 20.85   | 20.63   | 20.87   | 21.50   |
|                         |            | 50      | 0         | 20.47                | 20.91   | 20.77   | 20.61   | 20.97   | 21.50   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.30   | 23.79   | 23.72   | 23.59   | 23.87   | 24.50   |
|           |            | 1       | 38        | 23.08   | 23.57   | 23.54   | 23.42   | 23.65   | 24.50   |
|           |            | 1       | 74        | 22.98   | 23.56   | 23.42   | 23.37   | 23.62   | 24.50   |
|           |            | 36      | 0         | 22.35   | 22.66   | 22.64   | 22.56   | 22.70   | 23.50   |
|           |            | 36      | 18        | 22.42   | 22.71   | 22.69   | 22.55   | 22.78   | 23.50   |
|           |            | 36      | 39        | 22.19   | 22.65   | 22.74   | 22.43   | 22.69   | 23.50   |
|           |            | 75      | 0         | 22.37   | 22.66   | 22.61   | 22.61   | 22.76   | 23.50   |
|           | 16QAM      | 1       | 0         | 22.23   | 22.69   | 22.70   | 22.53   | 22.76   | 23.50   |
|           |            | 1       | 38        | 22.19   | 22.74   | 22.71   | 22.59   | 22.79   | 23.50   |
|           |            | 1       | 74        | 22.27   | 22.64   | 22.67   | 22.60   | 22.73   | 23.50   |
|           |            | 36      | 0         | 21.42   | 21.84   | 21.88   | 21.82   | 21.92   | 22.50   |
|           |            | 36      | 18        | 21.33   | 21.84   | 21.67   | 21.67   | 21.87   | 22.50   |
|           |            | 36      | 39        | 21.39   | 21.80   | 21.77   | 21.64   | 21.80   | 22.50   |
|           |            | 75      | 0         | 21.48   | 21.75   | 21.77   | 21.65   | 21.90   | 22.50   |
|           | 64QAM      | 1       | 0         | 21.05   | 21.32   | 21.35   | 21.33   | 21.50   | 22.50   |
|           |            | 1       | 38        | 21.01   | 21.50   | 21.36   | 21.38   | 21.60   | 22.50   |
|           |            | 1       | 74        | 21.01   | 21.41   | 21.44   | 21.26   | 21.52   | 22.50   |
|           |            | 36      | 0         | 20.60   | 20.96   | 20.93   | 20.77   | 20.93   | 21.50   |
|           |            | 36      | 18        | 20.44   | 20.89   | 20.78   | 20.72   | 20.92   | 21.50   |
|           |            | 36      | 39        | 20.35   | 20.81   | 20.70   | 20.72   | 20.89   | 21.50   |
|           |            | 75      | 0         | 20.47   | 20.81   | 20.69   | 20.73   | 21.00   | 21.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |
| 20MHz     | QPSK       | 1       | 0         | 23.34   | 23.85   | 23.79   | 23.60   | 23.92   | 24.50   |
|           |            | 1       | 50        | 23.13   | 23.59   | 23.56   | 23.43   | 23.68   | 24.50   |
|           |            | 1       | 99        | 23.02   | 23.49   | 23.43   | 23.33   | 23.54   | 24.50   |
|           |            | 50      | 0         | 22.28   | 22.61   | 22.64   | 22.57   | 22.75   | 23.50   |
|           |            | 50      | 25        | 22.34   | 22.70   | 22.70   | 22.59   | 22.81   | 23.50   |
|           |            | 50      | 50        | 22.24   | 22.65   | 22.66   | 22.47   | 22.71   | 23.50   |
|           |            | 100     | 0         | 22.29   | 22.62   | 22.66   | 22.60   | 22.75   | 23.50   |
|           | 16QAM      | 1       | 0         | 22.23   | 22.61   | 22.65   | 22.52   | 22.71   | 23.50   |
|           |            | 1       | 50        | 22.27   | 22.71   | 22.72   | 22.61   | 22.82   | 23.50   |
|           |            | 1       | 99        | 22.31   | 22.63   | 22.70   | 22.53   | 22.78   | 23.50   |
|           |            | 50      | 0         | 21.50   | 21.83   | 21.89   | 21.79   | 21.96   | 22.50   |
|           |            | 50      | 25        | 21.38   | 21.80   | 21.75   | 21.66   | 21.88   | 22.50   |
|           |            | 50      | 50        | 21.33   | 21.73   | 21.77   | 21.61   | 21.85   | 22.50   |
|           |            | 100     | 0         | 21.46   | 21.83   | 21.83   | 21.70   | 21.92   | 22.50   |
|           | 64QAM      | 1       | 0         | 21.00   | 21.38   | 21.38   | 21.32   | 21.52   | 22.50   |
|           |            | 1       | 50        | 21.00   | 21.47   | 21.38   | 21.31   | 21.52   | 22.50   |
|           |            | 1       | 99        | 21.00   | 21.41   | 21.37   | 21.28   | 21.51   | 22.50   |
|           |            | 50      | 0         | 20.52   | 20.89   | 20.90   | 20.81   | 20.98   | 21.50   |
|           |            | 50      | 25        | 20.49   | 20.88   | 20.84   | 20.75   | 20.99   | 21.50   |
|           |            | 50      | 50        | 20.38   | 20.80   | 20.78   | 20.70   | 20.88   | 21.50   |
|           |            | 100     | 0         | 20.47   | 20.84   | 20.77   | 20.68   | 20.92   | 21.50   |

| LTE Band 41 Receiver off |            |         |           | 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         | 22.24                | 22.83   | 22.74   | 22.56   | 22.92   | 23.50   |
|                          |            | 1       | 13        | 22.16                | 22.59   | 22.59   | 22.29   | 22.67   | 23.50   |
|                          |            | 1       | 24        | 22.08                | 22.42   | 22.38   | 22.34   | 22.56   | 23.50   |
|                          |            | 12      | 0         | 22.11                | 22.33   | 22.48   | 22.40   | 22.58   | 23.50   |
|                          |            | 12      | 6         | 21.97                | 22.34   | 22.40   | 22.31   | 22.63   | 23.50   |
|                          |            | 12      | 13        | 21.93                | 22.19   | 22.25   | 22.20   | 22.43   | 23.50   |
|                          |            | 25      | 0         | 21.91                | 22.25   | 22.46   | 22.40   | 22.53   | 23.50   |
|                          | 16QAM      | 1       | 0         | 21.83                | 22.37   | 22.40   | 22.16   | 22.34   | 23.50   |
|                          |            | 1       | 13        | 21.95                | 22.55   | 22.37   | 22.27   | 22.51   | 23.50   |
|                          |            | 1       | 24        | 22.02                | 22.46   | 22.34   | 22.23   | 22.40   | 23.50   |
|                          |            | 12      | 0         | 21.32                | 21.63   | 21.53   | 21.48   | 21.69   | 22.50   |
|                          |            | 12      | 6         | 21.18                | 21.53   | 21.48   | 21.38   | 21.56   | 22.50   |
|                          |            | 12      | 13        | 21.01                | 21.55   | 21.38   | 21.37   | 21.49   | 22.50   |
|                          |            | 25      | 0         | 21.08                | 21.55   | 21.60   | 21.33   | 21.60   | 22.50   |
|                          | 64QAM      | 1       | 0         | 20.98                | 21.39   | 21.45   | 21.39   | 21.51   | 22.50   |
|                          |            | 1       | 13        | 21.05                | 21.58   | 21.35   | 21.30   | 21.64   | 22.50   |
|                          |            | 1       | 24        | 21.08                | 21.36   | 21.36   | 21.22   | 21.65   | 22.50   |
|                          |            | 12      | 0         | 20.19                | 20.44   | 20.62   | 20.47   | 20.70   | 21.50   |
|                          |            | 12      | 6         | 20.33                | 20.52   | 20.54   | 20.51   | 20.68   | 21.50   |
|                          |            | 12      | 13        | 19.96                | 20.53   | 20.59   | 20.37   | 20.60   | 21.50   |
|                          |            | 25      | 0         | 20.18                | 20.62   | 20.43   | 20.48   | 20.64   | 21.50   |
| Bandwidth                | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|                          |            |         |           | 39700                | 40160   | 40620   | 41080   | 41540   |         |
| 10MHz                    | QPSK       | 1       | 0         | 22.21                | 22.84   | 22.76   | 22.46   | 22.94   | 23.50   |
|                          |            | 1       | 25        | 22.09                | 22.65   | 22.48   | 22.38   | 22.67   | 23.50   |
|                          |            | 1       | 49        | 21.98                | 22.34   | 22.51   | 22.25   | 22.61   | 23.50   |
|                          |            | 25      | 0         | 22.04                | 22.33   | 22.34   | 22.28   | 22.59   | 23.50   |
|                          |            | 25      | 13        | 22.12                | 22.43   | 22.33   | 22.40   | 22.61   | 23.50   |
|                          |            | 25      | 25        | 21.98                | 22.27   | 22.28   | 22.24   | 22.52   | 23.50   |
|                          |            | 50      | 0         | 22.00                | 22.38   | 22.35   | 22.42   | 22.46   | 23.50   |
|                          | 16QAM      | 1       | 0         | 21.91                | 22.29   | 22.47   | 22.24   | 22.30   | 23.50   |
|                          |            | 1       | 25        | 21.98                | 22.49   | 22.33   | 22.16   | 22.55   | 23.50   |
|                          |            | 1       | 49        | 22.08                | 22.37   | 22.50   | 22.15   | 22.53   | 23.50   |
|                          |            | 25      | 0         | 21.24                | 21.50   | 21.55   | 21.56   | 21.64   | 22.50   |
|                          |            | 25      | 13        | 21.03                | 21.52   | 21.34   | 21.34   | 21.61   | 22.50   |
|                          |            | 25      | 25        | 20.91                | 21.39   | 21.46   | 21.35   | 21.49   | 22.50   |
|                          |            | 50      | 0         | 21.17                | 21.55   | 21.64   | 21.36   | 21.54   | 22.50   |
|                          | 64QAM      | 1       | 0         | 21.03                | 21.43   | 21.44   | 21.49   | 21.42   | 22.50   |
|                          |            | 1       | 25        | 21.06                | 21.51   | 21.38   | 21.29   | 21.52   | 22.50   |
|                          |            | 1       | 49        | 21.09                | 21.39   | 21.46   | 21.30   | 21.66   | 22.50   |
|                          |            | 25      | 0         | 20.19                | 20.45   | 20.62   | 20.44   | 20.78   | 21.50   |
|                          |            | 25      | 13        | 20.20                | 20.59   | 20.49   | 20.54   | 20.79   | 21.50   |
|                          |            | 25      | 25        | 20.01                | 20.43   | 20.60   | 20.38   | 20.54   | 21.50   |
|                          |            | 50      | 0         | 20.25                | 20.51   | 20.36   | 20.50   | 20.67   | 21.50   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.20   | 22.81   | 22.76   | 22.53   | 22.91   | 23.50   |
|           |            | 1       | 38        | 22.07   | 22.64   | 22.49   | 22.39   | 22.75   | 23.50   |
|           |            | 1       | 74        | 22.12   | 22.48   | 22.43   | 22.26   | 22.60   | 23.50   |
|           |            | 36      | 0         | 22.11   | 22.28   | 22.48   | 22.35   | 22.57   | 23.50   |
|           |            | 36      | 18        | 21.99   | 22.40   | 22.33   | 22.38   | 22.63   | 23.50   |
|           |            | 36      | 39        | 21.87   | 22.22   | 22.26   | 22.15   | 22.41   | 23.50   |
|           |            | 75      | 0         | 21.96   | 22.40   | 22.37   | 22.41   | 22.57   | 23.50   |
|           | 16QAM      | 1       | 0         | 21.93   | 22.35   | 22.42   | 22.18   | 22.40   | 23.50   |
|           |            | 1       | 38        | 21.87   | 22.52   | 22.47   | 22.16   | 22.55   | 23.50   |
|           |            | 1       | 74        | 22.00   | 22.42   | 22.49   | 22.16   | 22.49   | 23.50   |
|           |            | 36      | 0         | 21.33   | 21.47   | 21.49   | 21.49   | 21.66   | 22.50   |
|           |            | 36      | 18        | 21.05   | 21.48   | 21.39   | 21.38   | 21.64   | 22.50   |
|           |            | 36      | 39        | 20.89   | 21.47   | 21.44   | 21.41   | 21.52   | 22.50   |
|           |            | 75      | 0         | 21.16   | 21.59   | 21.57   | 21.41   | 21.56   | 22.50   |
|           | 64QAM      | 1       | 0         | 21.03   | 21.41   | 21.44   | 21.40   | 21.48   | 22.50   |
|           |            | 1       | 38        | 21.12   | 21.62   | 21.40   | 21.31   | 21.51   | 22.50   |
|           |            | 1       | 74        | 21.18   | 21.43   | 21.42   | 21.25   | 21.65   | 22.50   |
|           |            | 36      | 0         | 20.11   | 20.51   | 20.61   | 20.52   | 20.73   | 21.50   |
|           |            | 36      | 18        | 20.28   | 20.64   | 20.52   | 20.49   | 20.73   | 21.50   |
|           |            | 36      | 39        | 19.95   | 20.51   | 20.62   | 20.38   | 20.56   | 21.50   |
|           |            | 75      | 0         | 20.17   | 20.55   | 20.33   | 20.49   | 20.56   | 21.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.47   | 22.88   | 22.93   | 22.74   | 22.95   | 23.50   |
|           |            | 1       | 50        | 22.12   | 22.58   | 22.51   | 22.37   | 22.74   | 23.50   |
|           |            | 1       | 99        | 22.04   | 22.42   | 22.45   | 22.27   | 22.53   | 23.50   |
|           |            | 50      | 0         | 22.03   | 22.27   | 22.40   | 22.34   | 22.53   | 23.50   |
|           |            | 50      | 25        | 22.45   | 22.55   | 22.57   | 22.67   | 22.79   | 23.50   |
|           |            | 50      | 50        | 21.94   | 22.27   | 22.30   | 22.22   | 22.47   | 23.50   |
|           |            | 100     | 0         | 21.97   | 22.32   | 22.41   | 22.38   | 22.53   | 23.50   |
|           | 16QAM      | 1       | 0         | 21.85   | 22.30   | 22.40   | 22.23   | 22.35   | 23.50   |
|           |            | 1       | 50        | 21.92   | 22.48   | 22.41   | 22.23   | 22.50   | 23.50   |
|           |            | 1       | 99        | 22.06   | 22.38   | 22.42   | 22.20   | 22.45   | 23.50   |
|           |            | 50      | 0         | 21.27   | 21.55   | 21.57   | 21.49   | 21.71   | 22.50   |
|           |            | 50      | 25        | 21.11   | 21.51   | 21.41   | 21.38   | 21.60   | 22.50   |
|           |            | 50      | 50        | 20.95   | 21.47   | 21.43   | 21.37   | 21.48   | 22.50   |
|           |            | 100     | 0         | 21.15   | 21.57   | 21.59   | 21.37   | 21.56   | 22.50   |
|           | 64QAM      | 1       | 0         | 20.95   | 21.35   | 21.48   | 21.42   | 21.47   | 22.50   |
|           |            | 1       | 50        | 21.04   | 21.56   | 21.34   | 21.34   | 21.57   | 22.50   |
|           |            | 1       | 99        | 21.10   | 21.41   | 21.38   | 21.24   | 21.60   | 22.50   |
|           |            | 50      | 0         | 20.19   | 20.51   | 20.55   | 20.49   | 20.70   | 21.50   |
|           |            | 50      | 25        | 20.27   | 20.58   | 20.56   | 20.50   | 20.74   | 21.50   |
|           |            | 50      | 50        | 20.03   | 20.46   | 20.55   | 20.35   | 20.61   | 21.50   |
|           |            | 100     | 0         | 20.25   | 20.59   | 20.41   | 20.46   | 20.64   | 21.50   |

## 1.4 Conducted Power of WIFI and BT

| WIFI 2.4G Receiver On |                 |                     |               |          |
|-----------------------|-----------------|---------------------|---------------|----------|
| Test Mode             | Frequency (MHz) | Average Power (dBm) | Tune up (dBm) | SAR Test |
| 11b                   | 2412            | <b>16.10</b>        | 17.50         | Yes      |
|                       | 2437            | <b>16.18</b>        |               | Yes      |
|                       | 2462            | <b>16.16</b>        |               | Yes      |
| 11g                   | 2412            | Not Required        | 17.50         | No       |
|                       | 2437            |                     |               | No       |
|                       | 2462            |                     |               | No       |
| 11n20                 | 2412            | Not Required        | 17.5          | No       |
|                       | 2437            |                     |               | No       |
|                       | 2462            |                     |               | No       |
| 11n 40                | 2422            | Not Required        | 17.50         | No       |
|                       | 2437            |                     |               | No       |
|                       | 2452            |                     |               | No       |
| 11ac 20               | 2412            | Not Required        | 17.50         | No       |
|                       | 2437            |                     |               | No       |
|                       | 2462            |                     |               | No       |
| 11ac 40               | 2422            | Not Required        | 17.5          | No       |
|                       | 2437            |                     |               | No       |
|                       | 2452            |                     |               | No       |

| WIFI 2.4G Receiver On Simultaneous |                 |                     |               |          |
|------------------------------------|-----------------|---------------------|---------------|----------|
| Test Mode                          | Frequency (MHz) | Average Power (dBm) | Tune up (dBm) | SAR Test |
| 11b                                | 2412            | <b>15.08</b>        | 16.50         | Yes      |
|                                    | 2437            | <b>15.25</b>        |               | Yes      |
|                                    | 2462            | <b>15.20</b>        |               | Yes      |
| 11g                                | 2412            | Not Required        | 16.50         | No       |
|                                    | 2437            |                     |               | No       |
|                                    | 2462            |                     |               | No       |
| 11n20                              | 2412            | Not Required        | 16.5          | No       |
|                                    | 2437            |                     |               | No       |
|                                    | 2462            |                     |               | No       |
| 11n40                              | 2422            | Not Required        | 16.50         | No       |
|                                    | 2437            |                     |               | No       |
|                                    | 2452            |                     |               | No       |
| 11ac 20                            | 2412            | Not Required        | 16.50         | No       |
|                                    | 2437            |                     |               | No       |
|                                    | 2462            |                     |               | No       |
| 11ac 40                            | 2422            | Not Required        | 16.5          | No       |
|                                    | 2437            |                     |               | No       |
|                                    | 2452            |                     |               | No       |

| WIFI 2.4G Receiver Off |                 |                     |               |          |
|------------------------|-----------------|---------------------|---------------|----------|
| Test Mode              | Frequency (MHz) | Average Power (dBm) | Tune up (dBm) | SAR Test |
| 11b                    | 2412            | <b>16.10</b>        | 17.5          | Yes      |
|                        | 2437            | <b>16.18</b>        |               | Yes      |
|                        | 2462            | <b>16.16</b>        |               | Yes      |
| 11g                    | 2412            | Not Required        | 18.5          | No       |
|                        | 2437            |                     |               | No       |
|                        | 2462            |                     |               | No       |
| 11n20                  | 2412            | Not Required        | 18.5          | No       |
|                        | 2437            |                     |               | No       |
|                        | 2462            |                     |               | No       |
| 11n40                  | 2422            | Not Required        | 18.5          | No       |
|                        | 2437            |                     |               | No       |
|                        | 2452            |                     |               | No       |
| 11ac20                 | 2412            | Not Required        | 18.5          | No       |
|                        | 2437            |                     |               | No       |
|                        | 2462            |                     |               | No       |
| 11ac40                 | 2422            | Not Required        | 18.5          | No       |
|                        | 2437            |                     |               | No       |
|                        | 2452            |                     |               | No       |

| WIFI 5G Receiver On |          |         |                 |                  |                     |             |          |
|---------------------|----------|---------|-----------------|------------------|---------------------|-------------|----------|
| 5GHz                | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up     | SAR Test |
| 802.11a             | U-NII-1  | 36      | 5180            | 6                | Not Required        | 17.5        | No       |
|                     |          | 40      | 5200            |                  |                     | 17.5        | No       |
|                     |          | 48      | 5240            |                  |                     | 17.5        | No       |
|                     | U-NII-2A | 52      | 5260            |                  |                     | 17.5        | No       |
|                     |          | 60      | 5300            |                  |                     | 17.5        | No       |
|                     |          | 64      | 5320            |                  |                     | 17.5        | No       |
|                     | U-NII-2C | 100     | 5500            |                  |                     | 17.5        | No       |
|                     |          | 104     | 5520            |                  |                     | 17.5        | No       |
|                     |          | 108     | 5540            |                  |                     | 17.5        | No       |
|                     |          | 112     | 5560            |                  |                     | 17.5        | No       |
|                     |          | 116     | 5580            |                  |                     | 17.5        | No       |
|                     |          | 120     | 5600            |                  |                     | 17.5        | No       |
|                     |          | 124     | 5620            |                  |                     | 17.5        | No       |
|                     |          | 128     | 5640            |                  |                     | 17.5        | No       |
|                     |          | 132     | 5660            |                  |                     | 17.5        | No       |
|                     |          | 136     | 5680            |                  |                     | 17.5        | No       |
|                     |          | 140     | 5700            |                  |                     | 16.0        | No       |
|                     |          | 144     | 5720            |                  |                     | 16.0        | No       |
|                     | U-NII-3  | 149     | 5745            |                  |                     | 17.5        | No       |
|                     |          | 153     | 5765            |                  |                     | 17.5        | No       |
|                     |          | 157     | 5785            |                  |                     | 17.5        | No       |
|                     |          | 161     | 5805            |                  |                     | 17.5        | No       |
|                     |          | 165     | 5825            |                  |                     | 17.5        | No       |
| 5GHz                | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up     | SAR Test |
| 802.11n-HT20        | U-NII-1  | 36      | 5180            | MCS0             | Not Required        | 17.5        | No       |
|                     |          | 40      | 5200            |                  |                     | 17.5        | No       |
|                     |          | 48      | 5240            |                  |                     | 17.5        | No       |
|                     | U-NII-2A | 52      | 5260            |                  |                     | 17.5        | No       |
|                     |          | 60      | 5300            |                  |                     | 17.5        | No       |
|                     |          | 64      | 5320            |                  |                     | 17.5        | No       |
|                     | U-NII-2C | 100     | 5500            |                  |                     | 17.5        | No       |
|                     |          | 104     | 5520            |                  |                     | 17.5        | No       |
|                     |          | 108     | 5540            |                  |                     | 17.5        | No       |
|                     |          | 112     | 5560            |                  |                     | 17.5        | No       |
|                     |          | 116     | 5580            |                  |                     | 17.5        | No       |
|                     |          | 120     | 5600            |                  |                     | 17.5        | No       |
|                     |          | 124     | 5620            |                  |                     | 17.5        | No       |
|                     |          | 128     | 5640            |                  |                     | 17.5        | No       |
|                     |          | 132     | 5660            |                  |                     | 17.5        | No       |
|                     |          | 136     | 5680            |                  |                     | 17.5        | No       |
|                     |          | 140     | 5700            |                  |                     | 16.0        | No       |
|                     |          | 144     | 5720            |                  |                     | 16.0        | No       |
|                     | U-NII-3  | 149     | 5745            |                  |                     | 17.5        | No       |
|                     |          | 153     | 5765            |                  |                     | 17.5        | No       |
|                     |          | 157     | 5785            |                  |                     | 17.5        | No       |
|                     |          | 161     | 5805            |                  |                     | 17.5        | No       |
|                     |          | 165     | 5825            |                  |                     | 17.5        | No       |
| 5GHz                | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up     | SAR Test |
| 802.11n-HT40        | U-NII-1  | 38      | 5190            | MCS0             | <b>15.74</b>        | <b>17.0</b> | Yes      |
|                     |          | 46      | 5230            |                  | <b>16.31</b>        | <b>17.5</b> | Yes      |
|                     | U-NII-2A | 54      | 5270            |                  | <b>16.38</b>        | <b>17.5</b> | Yes      |
|                     |          | 62      | 5310            |                  | <b>15.15</b>        | <b>16.5</b> | Yes      |
|                     | U-NII-2C | 102     | 5510            |                  | 14.05               | 15.5        | No       |
|                     |          | 110     | 5550            |                  | <b>16.31</b>        | <b>17.5</b> | Yes      |
|                     |          | 118     | 5590            |                  | <b>16.37</b>        | <b>17.5</b> | Yes      |
|                     |          | 126     | 5630            |                  | 16.15               | 17.5        | No       |
|                     |          | 134     | 5670            |                  | <b>16.36</b>        | <b>17.5</b> | Yes      |
|                     |          | 142     | 5710            |                  | 16.23               | 17.5        | No       |
|                     | U-NII-3  | 151     | 5755            |                  | 16.02               | 17.5        | No       |
|                     |          | 159     | 5795            |                  | 16.05               | 17.5        | No       |

| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up | SAR Test |    |
|--------------|----------|---------|-----------------|------------------|---------------------|---------|----------|----|
| 802.11ac-20  | U-NII-1  | 36      | 5180            | MCS0             | Not Required        | 17.5    | No       |    |
|              |          | 40      | 5200            |                  |                     | 17.5    | No       |    |
|              |          | 48      | 5240            |                  |                     | 17.5    | No       |    |
|              | U-NII-2A | 52      | 5260            |                  |                     | 17.5    | No       |    |
|              |          | 60      | 5300            |                  |                     | 17.5    | No       |    |
|              |          | 64      | 5320            |                  |                     | 17.5    | No       |    |
|              | U-NII-2C | 100     | 5500            |                  |                     | 16.5    | No       |    |
|              |          | 104     | 5520            |                  |                     | 17.5    | No       |    |
|              |          | 108     | 5540            |                  |                     | 17.5    | No       |    |
|              |          | 112     | 5560            |                  |                     | 17.5    | No       |    |
|              |          | 116     | 5580            |                  |                     | 17.5    | No       |    |
|              |          | 120     | 5600            |                  |                     | 17.5    | No       |    |
|              |          | 124     | 5620            |                  |                     | 17.5    | No       |    |
|              |          | 128     | 5640            |                  |                     | 17.5    | No       |    |
|              |          | 132     | 5660            |                  |                     | 17.5    | No       |    |
|              |          | 136     | 5680            |                  |                     | 17.5    | No       |    |
|              |          | 140     | 5700            |                  |                     | 16.0    | No       |    |
|              |          | 144     | 5720            |                  |                     | 16.0    | No       |    |
|              |          | U-NII-3 | 149             |                  |                     | 5745    | 17.5     | No |
|              |          |         | 153             |                  |                     | 5765    | 17.5     | No |
|              | 157      |         | 5785            |                  |                     | 17.5    | No       |    |
|              | 161      |         | 5805            |                  |                     | 17.5    | No       |    |
|              | 165      |         | 5825            |                  |                     | 17.5    | No       |    |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up | SAR Test |    |
| 802.11ac-40  | U-NII-1  | 38      | 5190            | MCS0             | Not Required        | 17.0    | No       |    |
|              |          | 46      | 5230            |                  |                     | 17.5    | No       |    |
|              | U-NII-2A | 54      | 5270            |                  |                     | 17.5    | No       |    |
|              |          | 62      | 5310            |                  |                     | 16.5    | No       |    |
|              | U-NII-2C | 102     | 5510            |                  |                     | 15.5    | No       |    |
|              |          | 110     | 5550            |                  |                     | 17.5    | No       |    |
|              |          | 118     | 5590            |                  |                     | 17.5    | No       |    |
|              |          | 126     | 5630            |                  |                     | 17.5    | No       |    |
|              |          | 134     | 5670            |                  |                     | 17.5    | No       |    |
|              |          | 142     | 5710            |                  |                     | 17.5    | No       |    |
|              | U-NII-3  | 151     | 5755            |                  |                     | 17.5    | No       |    |
|              |          | 159     | 5795            |                  |                     | 17.5    | No       |    |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up | SAR Test |    |
| 802.11ac 80M | U-NII-1  | 42      | 5210            | MCS0             | 14.61               | 16.0    | No       |    |
|              | U-NII-2A | 58      | 5290            |                  | 14.66               | 16.0    | No       |    |
|              | U-NII-2C | 106     | 5530            |                  | 14.11               | 15.5    | No       |    |
|              |          | 122     | 5610            |                  | 14.89               | 16.0    | No       |    |
|              |          | 138     | 5690            |                  | 14.57               | 16.0    | No       |    |
|              | U-NII-3  | 155     | 5775            |                  | <b>16.18</b>        | 17.5    | Yes      |    |

| WIFI 5G Receiver On Simultaneous |          |         |                 |                  |                     |         |          |
|----------------------------------|----------|---------|-----------------|------------------|---------------------|---------|----------|
| 5GHz                             | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up | SAR Test |
| 802.11a                          | U-NII-1  | 36      | 5180            | 6                | Not Required        | 15.0    | No       |
|                                  |          | 40      | 5200            |                  |                     | 15.0    | No       |
|                                  |          | 48      | 5240            |                  |                     | 15.0    | No       |
|                                  | U-NII-2A | 52      | 5260            |                  |                     | 15.0    | No       |
|                                  |          | 60      | 5300            |                  |                     | 15.0    | No       |
|                                  |          | 64      | 5320            |                  |                     | 15.0    | No       |
|                                  | U-NII-2C | 100     | 5500            |                  |                     | 15.0    | No       |
|                                  |          | 104     | 5520            |                  |                     | 15.0    | No       |
|                                  |          | 108     | 5540            |                  |                     | 15.0    | No       |
|                                  |          | 112     | 5560            |                  |                     | 15.0    | No       |
|                                  |          | 116     | 5580            |                  |                     | 15.0    | No       |
|                                  |          | 120     | 5600            |                  |                     | 15.0    | No       |
|                                  |          | 124     | 5620            |                  |                     | 15.0    | No       |
|                                  |          | 128     | 5640            |                  |                     | 15.0    | No       |
|                                  |          | 132     | 5660            |                  |                     | 15.0    | No       |
|                                  |          | 136     | 5680            |                  |                     | 15.0    | No       |
|                                  |          | 140     | 5700            |                  |                     | 15.0    | No       |
|                                  |          | 144     | 5720            |                  |                     | 15.0    | No       |
|                                  | U-NII-3  | 149     | 5745            |                  |                     | 15.0    | No       |
|                                  |          | 153     | 5765            |                  |                     | 15.0    | No       |
|                                  |          | 157     | 5785            |                  |                     | 15.0    | No       |
|                                  |          | 161     | 5805            |                  |                     | 15.0    | No       |
|                                  |          | 165     | 5825            |                  |                     | 15.0    | No       |
| 5GHz                             | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up | SAR Test |
| 802.11n-HT20                     | U-NII-1  | 36      | 5180            | MCS0             | Not Required        | 15.0    | No       |
|                                  |          | 40      | 5200            |                  |                     | 15.0    | No       |
|                                  |          | 48      | 5240            |                  |                     | 15.0    | No       |
|                                  | U-NII-2A | 52      | 5260            |                  |                     | 15.0    | No       |
|                                  |          | 60      | 5300            |                  |                     | 15.0    | No       |
|                                  |          | 64      | 5320            |                  |                     | 15.0    | No       |
|                                  | U-NII-2C | 100     | 5500            |                  |                     | 15.0    | No       |
|                                  |          | 104     | 5520            |                  |                     | 15.0    | No       |
|                                  |          | 108     | 5540            |                  |                     | 15.0    | No       |
|                                  |          | 112     | 5560            |                  |                     | 15.0    | No       |
|                                  |          | 116     | 5580            |                  |                     | 15.0    | No       |
|                                  |          | 120     | 5600            |                  |                     | 15.0    | No       |
|                                  |          | 124     | 5620            |                  |                     | 15.0    | No       |
|                                  |          | 128     | 5640            |                  |                     | 15.0    | No       |
|                                  |          | 132     | 5660            |                  |                     | 15.0    | No       |
|                                  |          | 136     | 5680            |                  |                     | 15.0    | No       |
|                                  |          | 140     | 5700            |                  |                     | 15.0    | No       |
|                                  |          | 144     | 5720            |                  |                     | 15.0    | No       |
|                                  | U-NII-3  | 149     | 5745            |                  |                     | 15.0    | No       |
|                                  |          | 153     | 5765            |                  |                     | 15.0    | No       |
|                                  |          | 157     | 5785            |                  |                     | 15.0    | No       |
|                                  |          | 161     | 5805            |                  |                     | 15.0    | No       |
|                                  |          | 165     | 5825            |                  |                     | 15.0    | No       |
| 5GHz                             | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up | SAR Test |
| 802.11n-HT40                     | U-NII-1  | 38      | 5190            | MCS0             | Not Required        | 15.0    | No       |
|                                  |          | 46      | 5230            |                  |                     | 15.0    | No       |
|                                  | U-NII-2A | 54      | 5270            |                  |                     | 15.0    | No       |
|                                  |          | 62      | 5310            |                  |                     | 15.0    | No       |
|                                  | U-NII-2C | 102     | 5510            |                  |                     | 15.0    | No       |
|                                  |          | 110     | 5550            |                  |                     | 15.0    | No       |
|                                  |          | 118     | 5590            |                  |                     | 15.0    | No       |
|                                  |          | 126     | 5630            |                  |                     | 15.0    | No       |
|                                  |          | 134     | 5670            |                  |                     | 15.0    | No       |
|                                  |          | 142     | 5710            |                  |                     | 15.0    | No       |
|                                  | U-NII-3  | 151     | 5755            |                  |                     | 15.0    | No       |
|                                  |          | 159     | 5795            |                  |                     | 15.0    | No       |

| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up         | SAR Test         |                     |
|--------------|----------|---------|-----------------|------------------|---------------------|-----------------|------------------|---------------------|
| 802.11ac-20  | U-NII-1  | 36      | 5180            | MCS0             | Not Required        | 15.0            | No               |                     |
|              |          | 40      | 5200            |                  |                     | 15.0            | No               |                     |
|              |          | 48      | 5240            |                  |                     | 15.0            | No               |                     |
|              | U-NII-2A | 52      | 5260            |                  |                     | 15.0            | No               |                     |
|              |          | 60      | 5300            |                  |                     | 15.0            | No               |                     |
|              |          | 64      | 5320            |                  |                     | 15.0            | No               |                     |
|              | U-NII-2C | 100     | 5500            |                  |                     | 15.0            | No               |                     |
|              |          | 104     | 5520            |                  |                     | 15.0            | No               |                     |
|              |          | 108     | 5540            |                  |                     | 15.0            | No               |                     |
|              |          | 112     | 5560            |                  |                     | 15.0            | No               |                     |
|              |          | 116     | 5580            |                  |                     | 15.0            | No               |                     |
|              |          | 120     | 5600            |                  |                     | 15.0            | No               |                     |
|              |          | 124     | 5620            |                  |                     | 15.0            | No               |                     |
|              |          | 128     | 5640            |                  |                     | 15.0            | No               |                     |
|              |          | 132     | 5660            |                  |                     | 15.0            | No               |                     |
|              |          | 136     | 5680            |                  |                     | 15.0            | No               |                     |
|              |          | 140     | 5700            |                  |                     | 15.0            | No               |                     |
|              |          | 144     | 5720            |                  |                     | 15.0            | No               |                     |
|              |          | U-NII-3 | 149             |                  |                     | 5745            | 15.0             | No                  |
|              |          |         | 153             |                  |                     | 5765            | 15.0             | No                  |
|              | 157      |         | 5785            |                  |                     | 15.0            | No               |                     |
|              | 161      |         | 5805            |                  |                     | 15.0            | No               |                     |
|              | 165      |         | 5825            |                  |                     | 15.0            | No               |                     |
|              | 5GHz     | mode    | Channel         |                  |                     | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) |
| 802.11ac-40  | U-NII-1  | 38      | 5190            | MCS0             | Not Required        | 15.0            | No               |                     |
|              |          | 46      | 5230            |                  |                     | 15.0            | No               |                     |
|              | U-NII-2A | 54      | 5270            |                  |                     | 15.0            | No               |                     |
|              |          | 62      | 5310            |                  |                     | 15.0            | No               |                     |
|              | U-NII-2C | 102     | 5510            |                  |                     | 15.0            | No               |                     |
|              |          | 110     | 5550            |                  |                     | 15.0            | No               |                     |
|              |          | 118     | 5590            |                  |                     | 15.0            | No               |                     |
|              |          | 126     | 5630            |                  |                     | 15.0            | No               |                     |
|              |          | 134     | 5670            |                  |                     | 15.0            | No               |                     |
|              |          | 142     | 5710            |                  |                     | 15.0            | No               |                     |
|              | U-NII-3  | 151     | 5755            |                  |                     | 15.0            | No               |                     |
|              |          | 159     | 5795            |                  |                     | 15.0            | No               |                     |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up         | SAR Test         |                     |
| 802.11ac 80M | U-NII-1  | 42      | 5210            | MCS0             | 13.84               | 15.0            | No               |                     |
|              | U-NII-2A | 58      | 5290            |                  | <b>13.86</b>        | 15.0            | Yes              |                     |
|              | U-NII-2C | 106     | 5530            |                  | <b>13.71</b>        | 15.0            | Yes              |                     |
|              |          | 122     | 5610            |                  | <b>13.85</b>        | 15.0            | Yes              |                     |
|              |          | 138     | 5690            |                  | <b>13.78</b>        | 15.0            | Yes              |                     |
|              | U-NII-3  | 155     | 5775            |                  | <b>13.72</b>        | 15.0            | Yes              |                     |

| WIFI 5G Receiver Off |          |         |                 |                  |                     |             |          |
|----------------------|----------|---------|-----------------|------------------|---------------------|-------------|----------|
| 5GHz                 | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up     | SAR Test |
| 802.11a              | U-NII-1  | 36      | 5180            | 6                | Not Required        | 16.5        | No       |
|                      |          | 40      | 5200            |                  |                     | 16.5        | No       |
|                      |          | 48      | 5240            |                  |                     | 16.5        | No       |
|                      | U-NII-2A | 52      | 5260            |                  |                     | 16.5        | No       |
|                      |          | 60      | 5300            |                  |                     | 16.5        | No       |
|                      |          | 64      | 5320            |                  |                     | 16.5        | No       |
|                      | U-NII-2C | 100     | 5500            |                  |                     | 16.5        | No       |
|                      |          | 104     | 5520            |                  |                     | 16.5        | No       |
|                      |          | 108     | 5540            |                  |                     | 16.5        | No       |
|                      |          | 112     | 5560            |                  |                     | 16.5        | No       |
|                      |          | 116     | 5580            |                  |                     | 16.5        | No       |
|                      |          | 120     | 5600            |                  |                     | 16.5        | No       |
|                      |          | 124     | 5620            |                  |                     | 16.5        | No       |
|                      |          | 128     | 5640            |                  |                     | 16.5        | No       |
|                      |          | 132     | 5660            |                  |                     | 16.5        | No       |
|                      |          | 136     | 5680            |                  |                     | 16.5        | No       |
|                      |          | 140     | 5700            |                  |                     | 16.0        | No       |
|                      |          | 144     | 5720            |                  |                     | 16.0        | No       |
|                      | U-NII-3  | 149     | 5745            |                  |                     | 16.5        | No       |
|                      |          | 153     | 5765            |                  |                     | 16.5        | No       |
|                      |          | 157     | 5785            |                  |                     | 16.5        | No       |
|                      |          | 161     | 5805            |                  |                     | 16.5        | No       |
|                      |          | 165     | 5825            |                  |                     | 16.5        | No       |
| 5GHz                 | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up     | SAR Test |
| 802.11n-HT20         | U-NII-1  | 36      | 5180            | MCS0             | Not Required        | 16.5        | No       |
|                      |          | 40      | 5200            |                  |                     | 16.5        | No       |
|                      |          | 48      | 5240            |                  |                     | 16.5        | No       |
|                      | U-NII-2A | 52      | 5260            |                  |                     | 16.5        | No       |
|                      |          | 60      | 5300            |                  |                     | 16.5        | No       |
|                      |          | 64      | 5320            |                  |                     | 16.5        | No       |
|                      | U-NII-2C | 100     | 5500            |                  |                     | 16.5        | No       |
|                      |          | 104     | 5520            |                  |                     | 16.5        | No       |
|                      |          | 108     | 5540            |                  |                     | 16.5        | No       |
|                      |          | 112     | 5560            |                  |                     | 16.5        | No       |
|                      |          | 116     | 5580            |                  |                     | 16.5        | No       |
|                      |          | 120     | 5600            |                  |                     | 16.5        | No       |
|                      |          | 124     | 5620            |                  |                     | 16.5        | No       |
|                      |          | 128     | 5640            |                  |                     | 16.5        | No       |
|                      |          | 132     | 5660            |                  |                     | 16.5        | No       |
|                      |          | 136     | 5680            |                  |                     | 16.5        | No       |
|                      |          | 140     | 5700            |                  |                     | 16.0        | No       |
|                      |          | 144     | 5720            |                  |                     | 16.0        | No       |
|                      | U-NII-3  | 149     | 5745            |                  |                     | 16.5        | No       |
|                      |          | 153     | 5765            |                  |                     | 16.5        | No       |
|                      |          | 157     | 5785            |                  |                     | 16.5        | No       |
|                      |          | 161     | 5805            |                  |                     | 16.5        | No       |
|                      |          | 165     | 5825            |                  |                     | 16.5        | No       |
| 5GHz                 | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up     | SAR Test |
| 802.11n-HT40         | U-NII-1  | 38      | 5190            | MCS0             | <b>15.17</b>        | <b>16.5</b> | Yes      |
|                      |          | 46      | 5230            |                  | <b>15.28</b>        | <b>16.5</b> | Yes      |
|                      | U-NII-2A | 54      | 5270            |                  | <b>15.32</b>        | <b>16.5</b> | Yes      |
|                      |          | 62      | 5310            |                  | <b>15.15</b>        | <b>16.5</b> | Yes      |
|                      | U-NII-2C | 102     | 5510            |                  | 15.10               | 15.5        | No       |
|                      |          | 110     | 5550            |                  | <b>15.22</b>        | <b>16.5</b> | Yes      |
|                      |          | 118     | 5590            |                  | <b>15.25</b>        | <b>16.5</b> | Yes      |
|                      |          | 126     | 5630            |                  | 15.18               | 16.5        | No       |
|                      |          | 134     | 5670            |                  | <b>15.26</b>        | <b>16.5</b> | Yes      |
|                      |          | 142     | 5710            |                  | 15.20               | 16.5        | No       |
|                      | U-NII-3  | 151     | 5755            |                  | 15.10               | 16.5        | No       |
|                      |          | 159     | 5795            |                  | 15.13               | 16.5        | No       |

| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up | SAR Test |
|--------------|----------|---------|-----------------|------------------|---------------------|---------|----------|
| 802.11ac-20  | U-NII-1  | 36      | 5180            | MCS0             | Not Required        | 16.5    | No       |
|              |          | 40      | 5200            |                  |                     | 16.5    | No       |
|              |          | 48      | 5240            |                  |                     | 16.5    | No       |
|              | U-NII-2A | 52      | 5260            |                  |                     | 16.5    | No       |
|              |          | 60      | 5300            |                  |                     | 16.5    | No       |
|              |          | 64      | 5320            |                  |                     | 16.5    | No       |
|              | U-NII-2C | 100     | 5500            |                  |                     | 16.5    | No       |
|              |          | 104     | 5520            |                  |                     | 16.5    | No       |
|              |          | 108     | 5540            |                  |                     | 16.5    | No       |
|              |          | 112     | 5560            |                  |                     | 16.5    | No       |
|              |          | 116     | 5580            |                  |                     | 16.5    | No       |
|              |          | 120     | 5600            |                  |                     | 16.5    | No       |
|              |          | 124     | 5620            |                  |                     | 16.5    | No       |
|              |          | 128     | 5640            |                  |                     | 16.5    | No       |
|              |          | 132     | 5660            |                  |                     | 16.5    | No       |
|              |          | 136     | 5680            |                  |                     | 16.5    | No       |
|              |          | 140     | 5700            |                  |                     | 16.0    | No       |
|              |          | 144     | 5720            |                  |                     | 16.0    | No       |
|              | U-NII-3  | 149     | 5745            |                  |                     | 16.5    | No       |
|              |          | 153     | 5765            |                  |                     | 16.5    | No       |
|              |          | 157     | 5785            |                  |                     | 16.5    | No       |
|              |          | 161     | 5805            |                  |                     | 16.5    | No       |
|              |          | 165     | 5825            |                  |                     | 16.5    | No       |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up | SAR Test |
| 802.11ac-40  | U-NII-1  | 38      | 5190            | MCS0             | Not Required        | 16.5    | No       |
|              |          | 46      | 5230            |                  |                     | 16.5    | No       |
|              | U-NII-2A | 54      | 5270            |                  |                     | 16.5    | No       |
|              |          | 62      | 5310            |                  |                     | 16.5    | No       |
|              | U-NII-2C | 102     | 5510            |                  |                     | 15.5    | No       |
|              |          | 110     | 5550            |                  |                     | 16.5    | No       |
|              |          | 118     | 5590            |                  |                     | 16.5    | No       |
|              |          | 126     | 5630            |                  |                     | 16.5    | No       |
|              |          | 134     | 5670            |                  |                     | 16.5    | No       |
|              |          | 142     | 5710            |                  |                     | 16.5    | No       |
|              | U-NII-3  | 151     | 5755            |                  |                     | 16.5    | No       |
|              |          | 159     | 5795            |                  |                     | 16.5    | No       |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) | Tune up | SAR Test |
| 802.11ac 80M | U-NII-1  | 42      | 5210            | MCS0             | 14.53               | 16.0    | No       |
|              | U-NII-2A | 58      | 5290            |                  | 14.56               | 16.0    | No       |
|              | U-NII-2C | 106     | 5530            |                  | 14.11               | 15.5    | No       |
|              |          | 122     | 5610            |                  | 14.78               | 16.0    | No       |
|              |          | 138     | 5690            |                  | 14.59               | 16.0    | No       |
|              | U-NII-3  | 155     | 5775            |                  | 15.18               | 16.5    | Yes      |
|              |          |         |                 |                  |                     |         |          |

| BT        |                 |                     |               |
|-----------|-----------------|---------------------|---------------|
| Test Mode | Frequency (MHz) | Average Power (dBm) | Tune up (dBm) |
| DH5       | 2402            | 13.38               | 14.00         |
|           | 2441            | 13.70               | 14.00         |
|           | 2480            | 13.90               | 14.00         |
| 2DH5      | 2402            | 10.40               | 11.00         |
|           | 2441            | 10.53               | 11.00         |
|           | 2480            | 10.85               | 11.00         |
| 3DH5      | 2402            | 10.13               | 11.00         |
|           | 2441            | 10.47               | 11.00         |
|           | 2480            | 10.78               | 11.00         |
| BLE 1M    | 2402            | 4.63                | 6.00          |
|           | 2440            | 5.50                | 6.00          |
|           | 2480            | 5.12                | 6.00          |
| BLE 2M    | 2402            | 4.60                | 6.00          |
|           | 2440            | 5.34                | 6.00          |
|           | 2480            | 5.21                | 6.00          |