

## 8 CONDUCTED RF OUPUT POWER

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## 8.1 WCDMA Output Power

| WCDMA              |      |           |                   |       |       |                          |
|--------------------|------|-----------|-------------------|-------|-------|--------------------------|
| WCDMA B2           | ANT  | DSI State | Output power(dBm) |       |       | Tune-up Limit Power(dBm) |
| Channel            |      |           | 9262              | 9400  | 9538  |                          |
| AMR                | ANT0 | FULL      | 13.89             | 13.50 | 13.89 | 15.50                    |
| RMC                | ANT0 | FULL      | 13.90             | 13.64 | 13.94 | 15.50                    |
| HSDPA Subtest-1    | ANT0 | FULL      | 13.04             | 13.00 | 13.12 | 14.50                    |
| HSDPA Subtest-2    | ANT0 | FULL      | 13.13             | 13.10 | 13.07 | 14.50                    |
| HSDPA Subtest-3    | ANT0 | FULL      | 12.58             | 12.58 | 12.52 | 14.00                    |
| HSDPA Subtest-4    | ANT0 | FULL      | 12.52             | 12.48 | 12.66 | 14.00                    |
| DC-HSDPA Subtest-1 | ANT0 | FULL      | 13.09             | 12.95 | 13.14 | 14.50                    |
| DC-HSDPA Subtest-2 | ANT0 | FULL      | 12.98             | 13.29 | 12.91 | 14.50                    |
| DC-HSDPA Subtest-3 | ANT0 | FULL      | 12.74             | 12.78 | 12.60 | 14.00                    |
| DC-HSDPA Subtest-4 | ANT0 | FULL      | 12.32             | 12.49 | 12.52 | 14.00                    |
| HSUPA Subtest-1    | ANT0 | FULL      | 13.18             | 13.07 | 13.07 | 14.50                    |
| HSUPA Subtest-2    | ANT0 | FULL      | 10.95             | 11.09 | 10.93 | 12.50                    |
| HSUPA Subtest-3    | ANT0 | FULL      | 11.94             | 12.13 | 12.23 | 13.50                    |
| HSUPA Subtest-4    | ANT0 | FULL      | 11.34             | 11.20 | 11.14 | 12.50                    |
| HSUPA Subtest-5    | ANT0 | FULL      | 12.72             | 12.62 | 12.79 | 14.50                    |
| HSPA+              | ANT0 | FULL      | 11.11             | 11.23 | 10.96 | 12.50                    |

| WCDMA              |      |           |                   |       |       |                          |
|--------------------|------|-----------|-------------------|-------|-------|--------------------------|
| WCDMA B4           | ANT  | DSI State | Output power(dBm) |       |       | Tune-up Limit Power(dBm) |
| Channel            |      |           | 1312              | 1412  | 1513  |                          |
| AMR                | ANT0 | FULL      | 12.96             | 13.11 | 12.92 | 14.50                    |
| RMC                | ANT0 | FULL      | 13.04             | 13.16 | 12.99 | 14.50                    |
| HSDPA Subtest-1    | ANT0 | FULL      | 12.23             | 12.08 | 12.23 | 13.50                    |
| HSDPA Subtest-2    | ANT0 | FULL      | 12.00             | 12.18 | 12.17 | 13.50                    |
| HSDPA Subtest-3    | ANT0 | FULL      | 11.74             | 11.70 | 11.69 | 13.00                    |
| HSDPA Subtest-4    | ANT0 | FULL      | 11.51             | 11.61 | 11.65 | 13.00                    |
| DC-HSDPA Subtest-1 | ANT0 | FULL      | 12.31             | 11.93 | 12.33 | 13.50                    |
| DC-HSDPA Subtest-2 | ANT0 | FULL      | 11.93             | 12.21 | 12.22 | 13.50                    |
| DC-HSDPA Subtest-3 | ANT0 | FULL      | 11.55             | 11.60 | 11.76 | 13.00                    |
| DC-HSDPA Subtest-4 | ANT0 | FULL      | 11.32             | 11.47 | 11.54 | 13.00                    |
| HSUPA Subtest-1    | ANT0 | FULL      | 12.02             | 12.15 | 12.05 | 13.50                    |
| HSUPA Subtest-2    | ANT0 | FULL      | 10.21             | 10.14 | 10.29 | 11.50                    |
| HSUPA Subtest-3    | ANT0 | FULL      | 11.16             | 11.05 | 10.85 | 12.50                    |
| HSUPA Subtest-4    | ANT0 | FULL      | 10.47             | 10.32 | 10.45 | 11.50                    |
| HSUPA Subtest-5    | ANT0 | FULL      | 12.05             | 11.94 | 11.94 | 13.50                    |
| HSPA+              | ANT0 | FULL      | 10.10             | 10.09 | 10.25 | 11.50                    |

| WCDMA              |      |           |                   |       |       |                          |
|--------------------|------|-----------|-------------------|-------|-------|--------------------------|
| WCDMA B5           | ANT  | DSI State | Output power(dBm) |       |       | Tune-up Limit Power(dBm) |
| Channel            |      |           | 4132              | 4183  | 4233  |                          |
| AMR                | ANT0 | FULL      | 18.15             | 17.94 | 17.92 | 19.50                    |
| RMC                | ANT0 | FULL      | 18.20             | 18.01 | 17.96 | 19.50                    |
| HSDPA Subtest-1    | ANT0 | FULL      | 17.10             | 16.99 | 16.97 | 17.50                    |
| HSDPA Subtest-2    | ANT0 | FULL      | 16.89             | 17.04 | 17.08 | 17.50                    |
| HSDPA Subtest-3    | ANT0 | FULL      | 16.62             | 16.52 | 16.40 | 17.00                    |
| HSDPA Subtest-4    | ANT0 | FULL      | 16.34             | 16.50 | 16.60 | 17.00                    |
| DC-HSDPA Subtest-1 | ANT0 | FULL      | 17.11             | 17.14 | 17.13 | 17.50                    |
| DC-HSDPA Subtest-2 | ANT0 | FULL      | 17.09             | 16.90 | 17.21 | 17.50                    |
| DC-HSDPA Subtest-3 | ANT0 | FULL      | 16.69             | 16.41 | 16.30 | 17.00                    |
| DC-HSDPA Subtest-4 | ANT0 | FULL      | 16.30             | 16.60 | 16.66 | 17.00                    |
| HSUPA Subtest-1    | ANT0 | FULL      | 17.06             | 17.01 | 16.93 | 17.50                    |
| HSUPA Subtest-2    | ANT0 | FULL      | 15.19             | 15.04 | 15.22 | 15.50                    |
| HSUPA Subtest-3    | ANT0 | FULL      | 16.09             | 16.06 | 16.12 | 16.50                    |
| HSUPA Subtest-4    | ANT0 | FULL      | 15.13             | 14.96 | 14.95 | 15.50                    |
| HSUPA Subtest-5    | ANT0 | FULL      | 16.91             | 16.89 | 16.88 | 17.50                    |
| HSPA+              | ANT0 | FULL      | 15.24             | 15.01 | 15.17 | 15.50                    |

## 8.2 LTE Output Power

| Band            |            |         |           | LTE B2 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 18607 | 18900 | 19185 | Tune-up power(dBm) |
| 1.4             | QPSK       | 1       | 0         | ANT0   | FULL      | 14.20 | 14.16 | 14.15 | 16.00              |
| 1.4             | QPSK       | 1       | 2         | ANT0   | FULL      | 14.11 | 14.23 | 14.17 | 16.00              |
| 1.4             | QPSK       | 1       | 5         | ANT0   | FULL      | 14.18 | 14.28 | 14.09 | 16.00              |
| 1.4             | QPSK       | 3       | 0         | ANT0   | FULL      | 14.07 | 14.17 | 14.17 | 16.00              |
| 1.4             | QPSK       | 3       | 1         | ANT0   | FULL      | 14.18 | 14.05 | 14.11 | 16.00              |
| 1.4             | QPSK       | 3       | 3         | ANT0   | FULL      | 14.19 | 14.24 | 14.18 | 16.00              |
| 1.4             | QPSK       | 6       | 0         | ANT0   | FULL      | 13.09 | 13.08 | 13.09 | 15.00              |
| 1.4             | 16QAM      | 1       | 0         | ANT0   | FULL      | 13.34 | 13.28 | 14.11 | 15.00              |
| 1.4             | 16QAM      | 1       | 2         | ANT0   | FULL      | 13.20 | 13.39 | 14.23 | 15.00              |
| 1.4             | 16QAM      | 1       | 5         | ANT0   | FULL      | 13.41 | 13.21 | 14.36 | 15.00              |
| 1.4             | 16QAM      | 3       | 0         | ANT0   | FULL      | 13.03 | 13.22 | 13.09 | 15.00              |
| 1.4             | 16QAM      | 3       | 1         | ANT0   | FULL      | 13.08 | 13.20 | 13.19 | 15.00              |
| 1.4             | 16QAM      | 3       | 3         | ANT0   | FULL      | 13.02 | 13.11 | 13.10 | 15.00              |
| 1.4             | 16QAM      | 6       | 0         | ANT0   | FULL      | 12.11 | 12.12 | 12.14 | 14.00              |

| Band            |            |         |           | LTE B2 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 18615 | 18900 | 19175 | Tune-up power(dBm) |
| 3               | QPSK       | 1       | 0         | ANT0   | FULL      | 14.21 | 14.28 | 14.07 | 16.00              |
| 3               | QPSK       | 1       | 7         | ANT0   | FULL      | 14.04 | 14.02 | 14.18 | 16.00              |
| 3               | QPSK       | 1       | 14        | ANT0   | FULL      | 14.04 | 14.25 | 14.17 | 16.00              |
| 3               | QPSK       | 8       | 0         | ANT0   | FULL      | 13.05 | 13.10 | 13.20 | 15.00              |
| 3               | QPSK       | 8       | 3         | ANT0   | FULL      | 13.05 | 13.07 | 13.05 | 15.00              |
| 3               | QPSK       | 8       | 7         | ANT0   | FULL      | 13.07 | 13.20 | 13.11 | 15.00              |
| 3               | QPSK       | 15      | 0         | ANT0   | FULL      | 13.13 | 13.14 | 13.27 | 15.00              |
| 3               | 16QAM      | 1       | 0         | ANT0   | FULL      | 13.31 | 13.26 | 13.98 | 15.00              |
| 3               | 16QAM      | 1       | 7         | ANT0   | FULL      | 13.22 | 13.27 | 14.29 | 15.00              |
| 3               | 16QAM      | 1       | 14        | ANT0   | FULL      | 13.45 | 13.34 | 14.20 | 15.00              |
| 3               | 16QAM      | 8       | 0         | ANT0   | FULL      | 12.00 | 12.14 | 12.12 | 14.00              |
| 3               | 16QAM      | 8       | 3         | ANT0   | FULL      | 12.15 | 12.22 | 12.19 | 14.00              |
| 3               | 16QAM      | 8       | 7         | ANT0   | FULL      | 12.01 | 12.26 | 12.22 | 14.00              |
| 3               | 16QAM      | 15      | 0         | ANT0   | FULL      | 12.05 | 12.12 | 12.08 | 14.00              |

| Band            |            |         |           | LTE B2 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 18625 | 18900 | 19175 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0   | FULL      | 14.07 | 14.28 | 14.06 | 16.00              |
| 5               | QPSK       | 1       | 12        | ANT0   | FULL      | 14.10 | 14.00 | 14.04 | 16.00              |
| 5               | QPSK       | 1       | 24        | ANT0   | FULL      | 14.14 | 14.23 | 14.23 | 16.00              |
| 5               | QPSK       | 12      | 0         | ANT0   | FULL      | 13.14 | 13.15 | 13.08 | 15.00              |
| 5               | QPSK       | 12      | 6         | ANT0   | FULL      | 13.12 | 13.11 | 13.19 | 15.00              |
| 5               | QPSK       | 12      | 13        | ANT0   | FULL      | 13.12 | 13.26 | 13.32 | 15.00              |
| 5               | QPSK       | 25      | 0         | ANT0   | FULL      | 13.08 | 13.11 | 13.11 | 15.00              |
| 5               | 16QAM      | 1       | 0         | ANT0   | FULL      | 13.25 | 13.27 | 13.99 | 15.00              |
| 5               | 16QAM      | 1       | 12        | ANT0   | FULL      | 13.37 | 13.37 | 14.28 | 15.00              |
| 5               | 16QAM      | 1       | 24        | ANT0   | FULL      | 13.40 | 13.22 | 14.31 | 15.00              |
| 5               | 16QAM      | 12      | 0         | ANT0   | FULL      | 12.11 | 12.24 | 12.18 | 14.00              |
| 5               | 16QAM      | 12      | 6         | ANT0   | FULL      | 12.08 | 12.03 | 12.17 | 14.00              |
| 5               | 16QAM      | 12      | 13        | ANT0   | FULL      | 12.19 | 12.07 | 12.12 | 14.00              |
| 5               | 16QAM      | 25      | 0         | ANT0   | FULL      | 12.10 | 12.21 | 12.23 | 14.00              |

| Band            |            |         |           | LTE B2 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 18650 | 18900 | 19150 | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0   | FULL      | 14.15 | 14.17 | 14.09 | 16.00              |
| 10              | QPSK       | 1       | 24        | ANT0   | FULL      | 14.10 | 14.00 | 14.02 | 16.00              |
| 10              | QPSK       | 1       | 49        | ANT0   | FULL      | 14.15 | 14.01 | 14.02 | 16.00              |
| 10              | QPSK       | 25      | 0         | ANT0   | FULL      | 13.06 | 13.14 | 13.26 | 15.00              |
| 10              | QPSK       | 25      | 12        | ANT0   | FULL      | 13.23 | 13.04 | 13.19 | 15.00              |
| 10              | QPSK       | 25      | 25        | ANT0   | FULL      | 13.10 | 13.02 | 13.20 | 15.00              |
| 10              | QPSK       | 50      | 0         | ANT0   | FULL      | 13.10 | 13.11 | 13.20 | 15.00              |
| 10              | 16QAM      | 1       | 0         | ANT0   | FULL      | 13.19 | 13.25 | 14.24 | 15.00              |
| 10              | 16QAM      | 1       | 24        | ANT0   | FULL      | 13.34 | 13.21 | 14.22 | 15.00              |
| 10              | 16QAM      | 1       | 49        | ANT0   | FULL      | 13.25 | 13.25 | 14.26 | 15.00              |
| 10              | 16QAM      | 25      | 0         | ANT0   | FULL      | 12.12 | 12.14 | 12.22 | 14.00              |
| 10              | 16QAM      | 25      | 12        | ANT0   | FULL      | 12.08 | 12.18 | 12.29 | 14.00              |
| 10              | 16QAM      | 25      | 25        | ANT0   | FULL      | 12.02 | 12.22 | 12.22 | 14.00              |
| 10              | 16QAM      | 50      | 0         | ANT0   | FULL      | 12.11 | 12.30 | 12.03 | 14.00              |

| Band            |            |         |           | LTE B2 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 18675 | 18900 | 19125 | Tune-up power(dBm) |
| 15              | QPSK       | 1       | 0         | ANT0   | FULL      | 14.18 | 14.06 | 14.05 | 16.00              |
| 15              | QPSK       | 1       | 37        | ANT0   | FULL      | 14.13 | 14.13 | 14.20 | 16.00              |
| 15              | QPSK       | 1       | 74        | ANT0   | FULL      | 14.13 | 14.21 | 14.08 | 16.00              |
| 15              | QPSK       | 36      | 0         | ANT0   | FULL      | 13.08 | 13.02 | 13.04 | 15.00              |
| 15              | QPSK       | 36      | 19        | ANT0   | FULL      | 13.13 | 13.17 | 13.09 | 15.00              |
| 15              | QPSK       | 36      | 39        | ANT0   | FULL      | 13.18 | 13.05 | 13.06 | 15.00              |
| 15              | QPSK       | 75      | 0         | ANT0   | FULL      | 13.15 | 13.12 | 13.26 | 15.00              |
| 15              | 16QAM      | 1       | 0         | ANT0   | FULL      | 13.34 | 13.46 | 14.03 | 15.00              |
| 15              | 16QAM      | 1       | 37        | ANT0   | FULL      | 13.18 | 13.32 | 14.29 | 15.00              |
| 15              | 16QAM      | 1       | 74        | ANT0   | FULL      | 13.43 | 13.40 | 14.17 | 15.00              |
| 15              | 16QAM      | 36      | 0         | ANT0   | FULL      | 12.05 | 12.14 | 12.13 | 14.00              |
| 15              | 16QAM      | 36      | 19        | ANT0   | FULL      | 12.08 | 12.10 | 12.08 | 14.00              |
| 15              | 16QAM      | 36      | 39        | ANT0   | FULL      | 12.00 | 12.16 | 12.23 | 14.00              |
| 15              | 16QAM      | 75      | 0         | ANT0   | FULL      | 12.01 | 12.16 | 12.16 | 14.00              |

| Band            |            |         |           | LTE B2 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 18700 | 18900 | 19100 | Tune-up power(dBm) |
| 20              | QPSK       | 1       | 0         | ANT0   | FULL      | 14.12 | 14.18 | 14.01 | 16.00              |
| 20              | QPSK       | 1       | 49        | ANT0   | FULL      | 14.02 | 14.11 | 14.08 | 16.00              |
| 20              | QPSK       | 1       | 99        | ANT0   | FULL      | 14.06 | 14.13 | 14.15 | 16.00              |
| 20              | QPSK       | 50      | 0         | ANT0   | FULL      | 13.03 | 13.06 | 13.15 | 15.00              |
| 20              | QPSK       | 50      | 25        | ANT0   | FULL      | 13.08 | 13.14 | 13.15 | 15.00              |
| 20              | QPSK       | 50      | 50        | ANT0   | FULL      | 13.07 | 13.13 | 13.20 | 15.00              |
| 20              | QPSK       | 100     | 0         | ANT0   | FULL      | 13.00 | 13.11 | 13.17 | 15.00              |
| 20              | 16QAM      | 1       | 0         | ANT0   | FULL      | 13.34 | 13.35 | 14.12 | 15.00              |
| 20              | 16QAM      | 1       | 49        | ANT0   | FULL      | 13.33 | 13.33 | 14.27 | 15.00              |
| 20              | 16QAM      | 1       | 99        | ANT0   | FULL      | 13.32 | 13.31 | 14.24 | 15.00              |
| 20              | 16QAM      | 50      | 0         | ANT0   | FULL      | 12.05 | 12.12 | 12.11 | 14.00              |
| 20              | 16QAM      | 50      | 25        | ANT0   | FULL      | 12.07 | 12.16 | 12.21 | 14.00              |
| 20              | 16QAM      | 50      | 50        | ANT0   | FULL      | 12.08 | 12.11 | 12.22 | 14.00              |
| 20              | 16QAM      | 100     | 0         | ANT0   | FULL      | 12.04 | 12.16 | 12.15 | 14.00              |

| Band            |            |         |           | LTE B4 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 19957 | 20175 | 20393 | Tune-up power(dBm) |
| 1.4             | QPSK       | 1       | 0         | ANT0   | FULL      | 13.61 | 13.22 | 13.25 | 15.00              |
| 1.4             | QPSK       | 1       | 2         | ANT0   | FULL      | 13.43 | 13.07 | 13.11 | 15.00              |
| 1.4             | QPSK       | 1       | 5         | ANT0   | FULL      | 13.13 | 13.09 | 13.01 | 15.00              |
| 1.4             | QPSK       | 3       | 0         | ANT0   | FULL      | 13.08 | 13.11 | 13.05 | 15.00              |
| 1.4             | QPSK       | 3       | 1         | ANT0   | FULL      | 13.35 | 13.27 | 13.29 | 15.00              |
| 1.4             | QPSK       | 3       | 3         | ANT0   | FULL      | 13.35 | 13.15 | 13.26 | 15.00              |
| 1.4             | QPSK       | 6       | 0         | ANT0   | FULL      | 12.05 | 12.31 | 12.13 | 14.00              |
| 1.4             | 16QAM      | 1       | 0         | ANT0   | FULL      | 12.64 | 12.48 | 12.34 | 14.00              |
| 1.4             | 16QAM      | 1       | 2         | ANT0   | FULL      | 12.74 | 12.33 | 12.22 | 14.00              |
| 1.4             | 16QAM      | 1       | 5         | ANT0   | FULL      | 12.86 | 12.28 | 12.32 | 14.00              |
| 1.4             | 16QAM      | 3       | 0         | ANT0   | FULL      | 12.11 | 12.08 | 12.31 | 14.00              |
| 1.4             | 16QAM      | 3       | 1         | ANT0   | FULL      | 12.36 | 12.35 | 12.26 | 14.00              |
| 1.4             | 16QAM      | 3       | 3         | ANT0   | FULL      | 12.09 | 12.17 | 12.06 | 14.00              |
| 1.4             | 16QAM      | 6       | 0         | ANT0   | FULL      | 11.16 | 11.36 | 11.06 | 13.00              |

| Band            |            |         |           | LTE B4 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 19965 | 20175 | 20385 | Tune-up power(dBm) |
| 3               | QPSK       | 1       | 0         | ANT0   | FULL      | 13.65 | 13.09 | 13.01 | 15.00              |
| 3               | QPSK       | 1       | 7         | ANT0   | FULL      | 13.62 | 13.15 | 13.22 | 15.00              |
| 3               | QPSK       | 1       | 14        | ANT0   | FULL      | 13.18 | 13.07 | 13.06 | 15.00              |
| 3               | QPSK       | 8       | 0         | ANT0   | FULL      | 12.17 | 12.17 | 12.20 | 14.00              |
| 3               | QPSK       | 8       | 3         | ANT0   | FULL      | 12.30 | 12.07 | 12.09 | 14.00              |
| 3               | QPSK       | 8       | 7         | ANT0   | FULL      | 12.25 | 12.14 | 12.11 | 14.00              |
| 3               | QPSK       | 15      | 0         | ANT0   | FULL      | 12.28 | 12.05 | 12.22 | 14.00              |
| 3               | 16QAM      | 1       | 0         | ANT0   | FULL      | 12.59 | 12.54 | 12.27 | 14.00              |
| 3               | 16QAM      | 1       | 7         | ANT0   | FULL      | 12.51 | 12.35 | 12.41 | 14.00              |
| 3               | 16QAM      | 1       | 14        | ANT0   | FULL      | 12.59 | 12.47 | 12.12 | 14.00              |
| 3               | 16QAM      | 8       | 0         | ANT0   | FULL      | 11.16 | 11.27 | 11.04 | 13.00              |
| 3               | 16QAM      | 8       | 3         | ANT0   | FULL      | 11.42 | 11.29 | 11.07 | 13.00              |
| 3               | 16QAM      | 8       | 7         | ANT0   | FULL      | 11.15 | 11.08 | 11.20 | 13.00              |
| 3               | 16QAM      | 15      | 0         | ANT0   | FULL      | 11.12 | 11.15 | 11.21 | 13.00              |

| Band            |            |         |           | LTE B4 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 19975 | 20175 | 20375 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0   | FULL      | 13.55 | 13.13 | 13.17 | 15.00              |
| 5               | QPSK       | 1       | 12        | ANT0   | FULL      | 13.45 | 13.00 | 13.23 | 15.00              |
| 5               | QPSK       | 1       | 24        | ANT0   | FULL      | 13.18 | 13.07 | 13.06 | 15.00              |
| 5               | QPSK       | 12      | 0         | ANT0   | FULL      | 12.16 | 12.09 | 12.29 | 14.00              |
| 5               | QPSK       | 12      | 6         | ANT0   | FULL      | 12.18 | 12.16 | 12.20 | 14.00              |
| 5               | QPSK       | 12      | 13        | ANT0   | FULL      | 12.38 | 12.26 | 12.18 | 14.00              |
| 5               | QPSK       | 25      | 0         | ANT0   | FULL      | 12.06 | 12.21 | 12.15 | 14.00              |
| 5               | 16QAM      | 1       | 0         | ANT0   | FULL      | 12.69 | 12.28 | 12.45 | 14.00              |
| 5               | 16QAM      | 1       | 12        | ANT0   | FULL      | 12.63 | 12.53 | 12.26 | 14.00              |
| 5               | 16QAM      | 1       | 24        | ANT0   | FULL      | 12.87 | 12.31 | 12.20 | 14.00              |
| 5               | 16QAM      | 12      | 0         | ANT0   | FULL      | 11.17 | 11.23 | 11.29 | 13.00              |
| 5               | 16QAM      | 12      | 6         | ANT0   | FULL      | 11.20 | 11.34 | 11.24 | 13.00              |
| 5               | 16QAM      | 12      | 13        | ANT0   | FULL      | 11.21 | 11.32 | 11.07 | 13.00              |
| 5               | 16QAM      | 25      | 0         | ANT0   | FULL      | 11.30 | 11.17 | 11.11 | 13.00              |

| Band            |            |         |           | LTE B4 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 20000 | 20175 | 20350 | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0   | FULL      | 13.36 | 13.19 | 13.13 | 15.00              |
| 10              | QPSK       | 1       | 24        | ANT0   | FULL      | 13.39 | 13.17 | 13.09 | 15.00              |
| 10              | QPSK       | 1       | 49        | ANT0   | FULL      | 13.18 | 13.00 | 13.00 | 15.00              |
| 10              | QPSK       | 25      | 0         | ANT0   | FULL      | 12.08 | 12.28 | 12.21 | 14.00              |
| 10              | QPSK       | 25      | 12        | ANT0   | FULL      | 12.10 | 12.26 | 12.05 | 14.00              |
| 10              | QPSK       | 25      | 25        | ANT0   | FULL      | 12.36 | 12.27 | 12.14 | 14.00              |
| 10              | QPSK       | 50      | 0         | ANT0   | FULL      | 12.21 | 12.24 | 12.01 | 14.00              |
| 10              | 16QAM      | 1       | 0         | ANT0   | FULL      | 12.61 | 12.27 | 12.41 | 14.00              |
| 10              | 16QAM      | 1       | 24        | ANT0   | FULL      | 12.47 | 12.33 | 12.31 | 14.00              |
| 10              | 16QAM      | 1       | 49        | ANT0   | FULL      | 12.82 | 12.37 | 12.38 | 14.00              |
| 10              | 16QAM      | 25      | 0         | ANT0   | FULL      | 11.07 | 11.12 | 11.13 | 13.00              |
| 10              | 16QAM      | 25      | 12        | ANT0   | FULL      | 11.24 | 11.34 | 11.07 | 13.00              |
| 10              | 16QAM      | 25      | 25        | ANT0   | FULL      | 11.13 | 11.20 | 11.08 | 13.00              |
| 10              | 16QAM      | 50      | 0         | ANT0   | FULL      | 11.31 | 11.15 | 11.02 | 13.00              |

| Band            |            |         |           | LTE B4 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 20025 | 20175 | 20325 | Tune-up power(dBm) |
| 15              | QPSK       | 1       | 0         | ANT0   | FULL      | 13.65 | 13.13 | 13.20 | 15.00              |
| 15              | QPSK       | 1       | 37        | ANT0   | FULL      | 13.42 | 13.04 | 13.03 | 15.00              |
| 15              | QPSK       | 1       | 74        | ANT0   | FULL      | 13.20 | 13.09 | 13.08 | 15.00              |
| 15              | QPSK       | 36      | 0         | ANT0   | FULL      | 12.14 | 12.00 | 12.22 | 14.00              |
| 15              | QPSK       | 36      | 19        | ANT0   | FULL      | 12.14 | 12.14 | 12.27 | 14.00              |
| 15              | QPSK       | 36      | 39        | ANT0   | FULL      | 12.36 | 12.06 | 12.21 | 14.00              |
| 15              | QPSK       | 75      | 0         | ANT0   | FULL      | 12.01 | 12.29 | 12.18 | 14.00              |
| 15              | 16QAM      | 1       | 0         | ANT0   | FULL      | 12.52 | 12.44 | 12.40 | 14.00              |
| 15              | 16QAM      | 1       | 37        | ANT0   | FULL      | 12.56 | 12.52 | 12.41 | 14.00              |
| 15              | 16QAM      | 1       | 74        | ANT0   | FULL      | 12.84 | 12.44 | 12.20 | 14.00              |
| 15              | 16QAM      | 36      | 0         | ANT0   | FULL      | 11.02 | 11.27 | 11.18 | 13.00              |
| 15              | 16QAM      | 36      | 19        | ANT0   | FULL      | 11.19 | 11.27 | 11.12 | 13.00              |
| 15              | 16QAM      | 36      | 39        | ANT0   | FULL      | 11.32 | 11.32 | 11.31 | 13.00              |
| 15              | 16QAM      | 75      | 0         | ANT0   | FULL      | 11.11 | 11.09 | 11.30 | 13.00              |

| Band            |            |         |           | LTE B4 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 20050 | 20175 | 20300 | Tune-up power(dBm) |
| 20              | QPSK       | 1       | 0         | ANT0   | FULL      | 13.50 | 13.07 | 13.12 | 15.00              |
| 20              | QPSK       | 1       | 49        | ANT0   | FULL      | 13.50 | 13.13 | 13.10 | 15.00              |
| 20              | QPSK       | 1       | 99        | ANT0   | FULL      | 13.13 | 13.07 | 13.06 | 15.00              |
| 20              | QPSK       | 50      | 0         | ANT0   | FULL      | 12.07 | 12.13 | 12.18 | 14.00              |
| 20              | QPSK       | 50      | 25        | ANT0   | FULL      | 12.25 | 12.20 | 12.18 | 14.00              |
| 20              | QPSK       | 50      | 50        | ANT0   | FULL      | 12.23 | 12.19 | 12.19 | 14.00              |
| 20              | QPSK       | 100     | 0         | ANT0   | FULL      | 12.15 | 12.17 | 12.10 | 14.00              |
| 20              | 16QAM      | 1       | 0         | ANT0   | FULL      | 12.55 | 12.39 | 12.38 | 14.00              |
| 20              | 16QAM      | 1       | 49        | ANT0   | FULL      | 12.61 | 12.46 | 12.34 | 14.00              |
| 20              | 16QAM      | 1       | 99        | ANT0   | FULL      | 12.74 | 12.37 | 12.26 | 14.00              |
| 20              | 16QAM      | 50      | 0         | ANT0   | FULL      | 11.10 | 11.15 | 11.19 | 13.00              |
| 20              | 16QAM      | 50      | 25        | ANT0   | FULL      | 11.29 | 11.20 | 11.15 | 13.00              |
| 20              | 16QAM      | 50      | 50        | ANT0   | FULL      | 11.22 | 11.22 | 11.20 | 13.00              |
| 20              | 16QAM      | 100     | 0         | ANT0   | FULL      | 11.22 | 11.22 | 11.16 | 13.00              |

| Band            |            |         |           | LTE Band5 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|-----------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT       | DSI State | 20407 | 20525 | 20643 | Tune-up power(dBm) |
| 1.4             | QPSK       | 1       | 0         | ANT0      | FULL      | 18.51 | 18.60 | 18.74 | 20.50              |
| 1.4             | QPSK       | 1       | 2         | ANT0      | FULL      | 18.65 | 18.72 | 18.55 | 20.50              |
| 1.4             | QPSK       | 1       | 5         | ANT0      | FULL      | 18.65 | 18.74 | 18.64 | 20.50              |
| 1.4             | QPSK       | 3       | 0         | ANT0      | FULL      | 18.60 | 18.58 | 18.83 | 20.50              |
| 1.4             | QPSK       | 3       | 1         | ANT0      | FULL      | 18.58 | 18.70 | 18.56 | 20.50              |
| 1.4             | QPSK       | 3       | 3         | ANT0      | FULL      | 18.71 | 18.79 | 18.64 | 20.50              |
| 1.4             | QPSK       | 6       | 0         | ANT0      | FULL      | 17.69 | 17.64 | 17.57 | 19.50              |
| 1.4             | 16QAM      | 1       | 0         | ANT0      | FULL      | 17.97 | 17.60 | 17.73 | 19.50              |
| 1.4             | 16QAM      | 1       | 2         | ANT0      | FULL      | 18.25 | 17.88 | 17.54 | 19.50              |
| 1.4             | 16QAM      | 1       | 5         | ANT0      | FULL      | 18.26 | 17.89 | 17.64 | 19.50              |
| 1.4             | 16QAM      | 3       | 0         | ANT0      | FULL      | 17.60 | 17.66 | 17.65 | 19.50              |
| 1.4             | 16QAM      | 3       | 1         | ANT0      | FULL      | 17.83 | 17.79 | 17.86 | 19.50              |
| 1.4             | 16QAM      | 3       | 3         | ANT0      | FULL      | 17.79 | 17.70 | 17.70 | 19.50              |
| 1.4             | 16QAM      | 6       | 0         | ANT0      | FULL      | 16.67 | 16.65 | 16.77 | 18.50              |

| Band            |            |         |           | LTE Band5 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|-----------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT       | DSI State | 20415 | 20525 | 20635 | Tune-up power(dBm) |
| 3               | QPSK       | 1       | 0         | ANT0      | FULL      | 18.62 | 18.59 | 18.59 | 20.50              |
| 3               | QPSK       | 1       | 7         | ANT0      | FULL      | 18.68 | 18.63 | 18.64 | 20.50              |
| 3               | QPSK       | 1       | 14        | ANT0      | FULL      | 18.51 | 18.73 | 18.65 | 20.50              |
| 3               | QPSK       | 8       | 0         | ANT0      | FULL      | 17.65 | 17.56 | 17.60 | 19.50              |
| 3               | QPSK       | 8       | 3         | ANT0      | FULL      | 17.60 | 17.70 | 17.77 | 19.50              |
| 3               | QPSK       | 8       | 7         | ANT0      | FULL      | 17.62 | 17.57 | 17.64 | 19.50              |
| 3               | QPSK       | 15      | 0         | ANT0      | FULL      | 17.51 | 17.76 | 17.79 | 19.50              |
| 3               | 16QAM      | 1       | 0         | ANT0      | FULL      | 17.99 | 17.62 | 17.82 | 19.50              |
| 3               | 16QAM      | 1       | 7         | ANT0      | FULL      | 18.27 | 17.76 | 17.74 | 19.50              |
| 3               | 16QAM      | 1       | 14        | ANT0      | FULL      | 18.13 | 17.88 | 17.64 | 19.50              |
| 3               | 16QAM      | 8       | 0         | ANT0      | FULL      | 16.58 | 16.61 | 16.65 | 18.50              |
| 3               | 16QAM      | 8       | 3         | ANT0      | FULL      | 16.71 | 16.64 | 16.67 | 18.50              |
| 3               | 16QAM      | 8       | 7         | ANT0      | FULL      | 16.72 | 16.76 | 16.78 | 18.50              |
| 3               | 16QAM      | 15      | 0         | ANT0      | FULL      | 16.69 | 16.74 | 16.62 | 18.50              |

| Band            |            |         |           | LTE Band5 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|-----------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT       | DSI State | 20425 | 20525 | 20625 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0      | FULL      | 18.62 | 18.61 | 18.59 | 20.50              |
| 5               | QPSK       | 1       | 12        | ANT0      | FULL      | 18.69 | 18.56 | 18.50 | 20.50              |
| 5               | QPSK       | 1       | 24        | ANT0      | FULL      | 18.76 | 18.69 | 18.66 | 20.50              |
| 5               | QPSK       | 12      | 0         | ANT0      | FULL      | 17.63 | 17.65 | 17.73 | 19.50              |
| 5               | QPSK       | 12      | 6         | ANT0      | FULL      | 17.73 | 17.80 | 17.75 | 19.50              |
| 5               | QPSK       | 12      | 13        | ANT0      | FULL      | 17.70 | 17.58 | 17.67 | 19.50              |
| 5               | QPSK       | 25      | 0         | ANT0      | FULL      | 17.70 | 17.75 | 17.78 | 19.50              |
| 5               | 16QAM      | 1       | 0         | ANT0      | FULL      | 17.99 | 17.69 | 17.85 | 19.50              |
| 5               | 16QAM      | 1       | 12        | ANT0      | FULL      | 18.03 | 17.62 | 17.59 | 19.50              |
| 5               | 16QAM      | 1       | 24        | ANT0      | FULL      | 18.23 | 17.86 | 17.65 | 19.50              |
| 5               | 16QAM      | 12      | 0         | ANT0      | FULL      | 16.65 | 16.71 | 16.67 | 18.50              |
| 5               | 16QAM      | 12      | 6         | ANT0      | FULL      | 16.78 | 16.66 | 16.82 | 18.50              |
| 5               | 16QAM      | 12      | 13        | ANT0      | FULL      | 16.80 | 16.77 | 16.58 | 18.50              |
| 5               | 16QAM      | 25      | 0         | ANT0      | FULL      | 16.73 | 16.67 | 16.65 | 18.50              |

| Band            |            |         |           | LTE Band5 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|-----------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT       | DSI State | 20450 | 20525 | 20600 | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0      | FULL      | 18.50 | 18.58 | 18.68 | 20.50              |
| 10              | QPSK       | 1       | 24        | ANT0      | FULL      | 18.54 | 18.59 | 18.61 | 20.50              |
| 10              | QPSK       | 1       | 49        | ANT0      | FULL      | 18.62 | 18.69 | 18.68 | 20.50              |
| 10              | QPSK       | 25      | 0         | ANT0      | FULL      | 17.64 | 17.67 | 17.72 | 19.50              |
| 10              | QPSK       | 25      | 12        | ANT0      | FULL      | 17.62 | 17.70 | 17.67 | 19.50              |
| 10              | QPSK       | 25      | 25        | ANT0      | FULL      | 17.74 | 17.68 | 17.63 | 19.50              |
| 10              | QPSK       | 50      | 0         | ANT0      | FULL      | 17.63 | 17.66 | 17.68 | 19.50              |
| 10              | 16QAM      | 1       | 0         | ANT0      | FULL      | 18.11 | 17.69 | 17.71 | 19.50              |
| 10              | 16QAM      | 1       | 24        | ANT0      | FULL      | 18.18 | 17.76 | 17.63 | 19.50              |
| 10              | 16QAM      | 1       | 49        | ANT0      | FULL      | 18.18 | 17.79 | 17.70 | 19.50              |
| 10              | 16QAM      | 25      | 0         | ANT0      | FULL      | 16.72 | 16.71 | 16.77 | 18.50              |
| 10              | 16QAM      | 25      | 12        | ANT0      | FULL      | 16.73 | 16.75 | 16.77 | 18.50              |
| 10              | 16QAM      | 25      | 25        | ANT0      | FULL      | 16.76 | 16.68 | 16.70 | 18.50              |
| 10              | 16QAM      | 50      | 0         | ANT0      | FULL      | 16.66 | 16.70 | 16.71 | 18.50              |

| Band            |            |         |           | LTE B7 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 20775 | 21100 | 21425 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0   | FULL      | 15.38 | 15.41 | 15.25 | 17.00              |
| 5               | QPSK       | 1       | 12        | ANT0   | FULL      | 15.08 | 15.48 | 15.43 | 17.00              |
| 5               | QPSK       | 1       | 24        | ANT0   | FULL      | 15.02 | 15.13 | 15.22 | 17.00              |
| 5               | QPSK       | 12      | 0         | ANT0   | FULL      | 14.39 | 14.05 | 14.03 | 16.00              |
| 5               | QPSK       | 12      | 6         | ANT0   | FULL      | 14.08 | 14.03 | 14.07 | 16.00              |
| 5               | QPSK       | 12      | 13        | ANT0   | FULL      | 14.46 | 14.24 | 14.14 | 16.00              |
| 5               | QPSK       | 25      | 0         | ANT0   | FULL      | 14.04 | 14.13 | 14.06 | 16.00              |
| 5               | 16QAM      | 1       | 0         | ANT0   | FULL      | 14.06 | 14.59 | 14.12 | 16.00              |
| 5               | 16QAM      | 1       | 12        | ANT0   | FULL      | 14.07 | 14.54 | 14.36 | 16.00              |
| 5               | 16QAM      | 1       | 24        | ANT0   | FULL      | 14.28 | 14.77 | 14.30 | 16.00              |
| 5               | 16QAM      | 12      | 0         | ANT0   | FULL      | 13.42 | 13.11 | 13.36 | 15.00              |
| 5               | 16QAM      | 12      | 6         | ANT0   | FULL      | 13.06 | 13.02 | 13.04 | 15.00              |
| 5               | 16QAM      | 12      | 13        | ANT0   | FULL      | 13.46 | 13.11 | 13.00 | 15.00              |
| 5               | 16QAM      | 25      | 0         | ANT0   | FULL      | 13.16 | 13.15 | 13.12 | 15.00              |

| Band            |            |         |           | LTE B7 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 20800 | 21100 | 21400 | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0   | FULL      | 15.49 | 15.58 | 15.25 | 17.00              |
| 10              | QPSK       | 1       | 24        | ANT0   | FULL      | 15.11 | 15.44 | 15.49 | 17.00              |
| 10              | QPSK       | 1       | 49        | ANT0   | FULL      | 15.03 | 15.03 | 15.00 | 17.00              |
| 10              | QPSK       | 25      | 0         | ANT0   | FULL      | 14.56 | 14.14 | 14.14 | 16.00              |
| 10              | QPSK       | 25      | 12        | ANT0   | FULL      | 14.04 | 14.12 | 14.03 | 16.00              |
| 10              | QPSK       | 25      | 25        | ANT0   | FULL      | 14.45 | 14.29 | 14.02 | 16.00              |
| 10              | QPSK       | 50      | 0         | ANT0   | FULL      | 14.01 | 14.02 | 14.13 | 16.00              |
| 10              | 16QAM      | 1       | 0         | ANT0   | FULL      | 14.17 | 14.45 | 14.16 | 16.00              |
| 10              | 16QAM      | 1       | 24        | ANT0   | FULL      | 14.06 | 14.62 | 14.38 | 16.00              |
| 10              | 16QAM      | 1       | 49        | ANT0   | FULL      | 14.04 | 14.76 | 14.26 | 16.00              |
| 10              | 16QAM      | 25      | 0         | ANT0   | FULL      | 13.32 | 13.17 | 13.51 | 15.00              |
| 10              | 16QAM      | 25      | 12        | ANT0   | FULL      | 13.13 | 13.02 | 13.05 | 15.00              |
| 10              | 16QAM      | 25      | 25        | ANT0   | FULL      | 13.47 | 13.02 | 13.17 | 15.00              |
| 10              | 16QAM      | 50      | 0         | ANT0   | FULL      | 13.28 | 13.09 | 13.06 | 15.00              |

| Band            |            |         |           | LTE B7 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 20825 | 21100 | 21375 | Tune-up power(dBm) |
| 15              | QPSK       | 1       | 0         | ANT0   | FULL      | 15.50 | 15.55 | 15.33 | 17.00              |
| 15              | QPSK       | 1       | 37        | ANT0   | FULL      | 15.15 | 15.29 | 15.38 | 17.00              |
| 15              | QPSK       | 1       | 74        | ANT0   | FULL      | 15.01 | 15.06 | 15.15 | 17.00              |
| 15              | QPSK       | 36      | 0         | ANT0   | FULL      | 14.31 | 14.13 | 14.12 | 16.00              |
| 15              | QPSK       | 36      | 19        | ANT0   | FULL      | 14.02 | 14.12 | 14.04 | 16.00              |
| 15              | QPSK       | 36      | 39        | ANT0   | FULL      | 14.42 | 14.17 | 14.19 | 16.00              |
| 15              | QPSK       | 75      | 0         | ANT0   | FULL      | 14.06 | 14.12 | 14.05 | 16.00              |
| 15              | 16QAM      | 1       | 0         | ANT0   | FULL      | 14.14 | 14.42 | 14.18 | 16.00              |
| 15              | 16QAM      | 1       | 37        | ANT0   | FULL      | 14.02 | 14.66 | 14.32 | 16.00              |
| 15              | 16QAM      | 1       | 74        | ANT0   | FULL      | 14.14 | 14.74 | 14.39 | 16.00              |
| 15              | 16QAM      | 36      | 0         | ANT0   | FULL      | 13.33 | 13.03 | 13.62 | 15.00              |
| 15              | 16QAM      | 36      | 19        | ANT0   | FULL      | 13.11 | 13.12 | 13.08 | 15.00              |
| 15              | 16QAM      | 36      | 39        | ANT0   | FULL      | 13.43 | 13.14 | 13.09 | 15.00              |
| 15              | 16QAM      | 75      | 0         | ANT0   | FULL      | 13.10 | 13.03 | 13.03 | 15.00              |

| Band            |            |         |           | LTE B7 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|--------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT    | DSI State | 20850 | 21100 | 21350 | Tune-up power(dBm) |
| 20              | QPSK       | 1       | 0         | ANT0   | FULL      | 15.38 | 15.43 | 15.30 | 17.00              |
| 20              | QPSK       | 1       | 49        | ANT0   | FULL      | 15.10 | 15.44 | 15.38 | 17.00              |
| 20              | QPSK       | 1       | 99        | ANT0   | FULL      | 15.00 | 15.12 | 15.07 | 17.00              |
| 20              | QPSK       | 50      | 0         | ANT0   | FULL      | 14.46 | 14.02 | 14.03 | 16.00              |
| 20              | QPSK       | 50      | 25        | ANT0   | FULL      | 14.03 | 14.10 | 14.05 | 16.00              |
| 20              | QPSK       | 50      | 50        | ANT0   | FULL      | 14.50 | 14.15 | 14.08 | 16.00              |
| 20              | QPSK       | 100     | 0         | ANT0   | FULL      | 14.16 | 14.12 | 14.05 | 16.00              |
| 20              | 16QAM      | 1       | 0         | ANT0   | FULL      | 14.08 | 14.44 | 14.27 | 16.00              |
| 20              | 16QAM      | 1       | 49        | ANT0   | FULL      | 14.07 | 14.59 | 14.32 | 16.00              |
| 20              | 16QAM      | 1       | 99        | ANT0   | FULL      | 14.16 | 14.69 | 14.39 | 16.00              |
| 20              | 16QAM      | 50      | 0         | ANT0   | FULL      | 13.35 | 13.11 | 13.50 | 15.00              |
| 20              | 16QAM      | 50      | 25        | ANT0   | FULL      | 13.04 | 13.00 | 13.05 | 15.00              |
| 20              | 16QAM      | 50      | 50        | ANT0   | FULL      | 13.42 | 13.04 | 13.06 | 15.00              |
| 20              | 16QAM      | 100     | 0         | ANT0   | FULL      | 13.19 | 13.01 | 13.05 | 15.00              |

| Band            |            |         |           | LTE B12 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 23017 | 23095 | 23173 | Tune-up power(dBm) |
| 1.4             | QPSK       | 1       | 0         | ANT0    | FULL      | 20.15 | 20.37 | 20.12 | 22.00              |
| 1.4             | QPSK       | 1       | 2         | ANT0    | FULL      | 20.13 | 20.00 | 20.25 | 22.00              |
| 1.4             | QPSK       | 1       | 5         | ANT0    | FULL      | 20.11 | 20.04 | 20.06 | 22.00              |
| 1.4             | QPSK       | 3       | 0         | ANT0    | FULL      | 20.02 | 20.24 | 20.21 | 22.00              |
| 1.4             | QPSK       | 3       | 1         | ANT0    | FULL      | 20.23 | 20.00 | 20.03 | 22.00              |
| 1.4             | QPSK       | 3       | 3         | ANT0    | FULL      | 20.10 | 20.20 | 20.14 | 22.00              |
| 1.4             | QPSK       | 6       | 0         | ANT0    | FULL      | 19.28 | 19.12 | 19.13 | 21.00              |
| 1.4             | 16QAM      | 1       | 0         | ANT0    | FULL      | 19.64 | 19.16 | 19.18 | 21.00              |
| 1.4             | 16QAM      | 1       | 2         | ANT0    | FULL      | 19.64 | 19.15 | 19.07 | 21.00              |
| 1.4             | 16QAM      | 1       | 5         | ANT0    | FULL      | 19.66 | 19.20 | 19.18 | 21.00              |
| 1.4             | 16QAM      | 3       | 0         | ANT0    | FULL      | 19.24 | 19.16 | 19.00 | 21.00              |
| 1.4             | 16QAM      | 3       | 1         | ANT0    | FULL      | 19.09 | 19.04 | 19.16 | 21.00              |
| 1.4             | 16QAM      | 3       | 3         | ANT0    | FULL      | 19.35 | 19.19 | 19.14 | 21.00              |
| 1.4             | 16QAM      | 6       | 0         | ANT0    | FULL      | 18.02 | 18.04 | 18.18 | 20.00              |

| Band            |            |         |           | LTE B12 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 23025 | 23095 | 23165 | Tune-up power(dBm) |
| 3               | QPSK       | 1       | 0         | ANT0    | FULL      | 20.15 | 20.47 | 20.14 | 22.00              |
| 3               | QPSK       | 1       | 7         | ANT0    | FULL      | 20.15 | 20.10 | 20.23 | 22.00              |
| 3               | QPSK       | 1       | 14        | ANT0    | FULL      | 20.16 | 20.00 | 20.12 | 22.00              |
| 3               | QPSK       | 8       | 0         | ANT0    | FULL      | 19.18 | 19.10 | 19.21 | 21.00              |
| 3               | QPSK       | 8       | 3         | ANT0    | FULL      | 19.12 | 19.01 | 19.09 | 21.00              |
| 3               | QPSK       | 8       | 7         | ANT0    | FULL      | 19.10 | 19.08 | 19.19 | 21.00              |
| 3               | QPSK       | 15      | 0         | ANT0    | FULL      | 19.02 | 19.14 | 19.12 | 21.00              |
| 3               | 16QAM      | 1       | 0         | ANT0    | FULL      | 19.64 | 19.08 | 19.01 | 21.00              |
| 3               | 16QAM      | 1       | 7         | ANT0    | FULL      | 19.82 | 19.25 | 19.31 | 21.00              |
| 3               | 16QAM      | 1       | 14        | ANT0    | FULL      | 19.71 | 19.09 | 19.14 | 21.00              |
| 3               | 16QAM      | 8       | 0         | ANT0    | FULL      | 18.26 | 18.21 | 18.09 | 20.00              |
| 3               | 16QAM      | 8       | 3         | ANT0    | FULL      | 18.19 | 18.27 | 18.03 | 20.00              |
| 3               | 16QAM      | 8       | 7         | ANT0    | FULL      | 18.23 | 18.12 | 18.06 | 20.00              |
| 3               | 16QAM      | 15      | 0         | ANT0    | FULL      | 18.00 | 18.18 | 18.14 | 20.00              |

| Band            |            |         |           | LTE B12 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 23035 | 23095 | 23155 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0    | FULL      | 20.14 | 20.55 | 20.09 | 22.00              |
| 5               | QPSK       | 1       | 12        | ANT0    | FULL      | 20.04 | 20.08 | 20.24 | 22.00              |
| 5               | QPSK       | 1       | 24        | ANT0    | FULL      | 20.15 | 20.08 | 20.01 | 22.00              |
| 5               | QPSK       | 12      | 0         | ANT0    | FULL      | 19.12 | 19.10 | 19.11 | 21.00              |
| 5               | QPSK       | 12      | 6         | ANT0    | FULL      | 19.18 | 19.00 | 19.11 | 21.00              |
| 5               | QPSK       | 12      | 13        | ANT0    | FULL      | 19.30 | 19.22 | 19.04 | 21.00              |
| 5               | QPSK       | 25      | 0         | ANT0    | FULL      | 19.06 | 19.12 | 19.05 | 21.00              |
| 5               | 16QAM      | 1       | 0         | ANT0    | FULL      | 19.59 | 19.23 | 19.11 | 21.00              |
| 5               | 16QAM      | 1       | 12        | ANT0    | FULL      | 19.74 | 19.03 | 19.09 | 21.00              |
| 5               | 16QAM      | 1       | 24        | ANT0    | FULL      | 19.60 | 19.21 | 19.25 | 21.00              |
| 5               | 16QAM      | 12      | 0         | ANT0    | FULL      | 18.25 | 18.13 | 18.27 | 20.00              |
| 5               | 16QAM      | 12      | 6         | ANT0    | FULL      | 18.07 | 18.14 | 18.17 | 20.00              |
| 5               | 16QAM      | 12      | 13        | ANT0    | FULL      | 18.10 | 18.27 | 18.03 | 20.00              |
| 5               | 16QAM      | 25      | 0         | ANT0    | FULL      | 18.22 | 18.24 | 18.09 | 20.00              |

| Band            |            |         |           | LTE B12 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 23060 | 23095 | 23130 | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0    | FULL      | 20.10 | 20.42 | 20.05 | 22.00              |
| 10              | QPSK       | 1       | 24        | ANT0    | FULL      | 20.03 | 20.04 | 20.36 | 22.00              |
| 10              | QPSK       | 1       | 49        | ANT0    | FULL      | 20.02 | 20.03 | 20.08 | 22.00              |
| 10              | QPSK       | 25      | 0         | ANT0    | FULL      | 19.10 | 19.09 | 19.06 | 21.00              |
| 10              | QPSK       | 25      | 12        | ANT0    | FULL      | 19.14 | 19.16 | 19.06 | 21.00              |
| 10              | QPSK       | 25      | 25        | ANT0    | FULL      | 19.15 | 19.09 | 19.06 | 21.00              |
| 10              | QPSK       | 50      | 0         | ANT0    | FULL      | 19.15 | 19.17 | 19.03 | 21.00              |
| 10              | 16QAM      | 1       | 0         | ANT0    | FULL      | 19.60 | 19.08 | 19.06 | 21.00              |
| 10              | 16QAM      | 1       | 24        | ANT0    | FULL      | 19.68 | 19.17 | 19.20 | 21.00              |
| 10              | 16QAM      | 1       | 49        | ANT0    | FULL      | 19.60 | 19.14 | 19.10 | 21.00              |
| 10              | 16QAM      | 25      | 0         | ANT0    | FULL      | 18.18 | 18.11 | 18.15 | 20.00              |
| 10              | 16QAM      | 25      | 12        | ANT0    | FULL      | 18.22 | 18.14 | 18.15 | 20.00              |
| 10              | 16QAM      | 25      | 25        | ANT0    | FULL      | 18.20 | 18.13 | 18.14 | 20.00              |
| 10              | 16QAM      | 50      | 0         | ANT0    | FULL      | 18.15 | 18.11 | 18.05 | 20.00              |

| Band            |            |         |           | LTE B13 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 23205 | 23230 | 23255 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0    | FULL      | 18.59 | 18.56 | 18.56 | 20.50              |
| 5               | QPSK       | 1       | 12        | ANT0    | FULL      | 18.64 | 18.64 | 18.69 | 20.50              |
| 5               | QPSK       | 1       | 24        | ANT0    | FULL      | 18.75 | 18.76 | 18.77 | 20.50              |
| 5               | QPSK       | 12      | 0         | ANT0    | FULL      | 17.66 | 17.66 | 17.65 | 19.50              |
| 5               | QPSK       | 12      | 6         | ANT0    | FULL      | 17.83 | 17.78 | 17.83 | 19.50              |
| 5               | QPSK       | 12      | 13        | ANT0    | FULL      | 17.65 | 17.68 | 17.70 | 19.50              |
| 5               | QPSK       | 25      | 0         | ANT0    | FULL      | 17.67 | 17.72 | 17.67 | 19.50              |
| 5               | 16QAM      | 1       | 0         | ANT0    | FULL      | 17.50 | 17.51 | 17.55 | 19.50              |
| 5               | 16QAM      | 1       | 12        | ANT0    | FULL      | 17.61 | 17.59 | 17.54 | 19.50              |
| 5               | 16QAM      | 1       | 24        | ANT0    | FULL      | 17.60 | 17.59 | 17.56 | 19.50              |
| 5               | 16QAM      | 12      | 0         | ANT0    | FULL      | 16.73 | 16.70 | 16.75 | 18.50              |
| 5               | 16QAM      | 12      | 6         | ANT0    | FULL      | 16.89 | 16.91 | 16.95 | 18.50              |
| 5               | 16QAM      | 12      | 13        | ANT0    | FULL      | 16.66 | 16.64 | 16.60 | 18.50              |
| 5               | 16QAM      | 25      | 0         | ANT0    | FULL      | 16.79 | 16.82 | 16.84 | 18.50              |

| Band            |            |         |           | LTE B13 |           |   |       |   |                    |
|-----------------|------------|---------|-----------|---------|-----------|---|-------|---|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | / | 23230 | / | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0    | FULL      | / | 18.55 | / | 20.50              |
| 10              | QPSK       | 1       | 24        | ANT0    | FULL      | / | 18.61 | / | 20.50              |
| 10              | QPSK       | 1       | 49        | ANT0    | FULL      | / | 18.69 | / | 20.50              |
| 10              | QPSK       | 25      | 0         | ANT0    | FULL      | / | 17.65 | / | 19.50              |
| 10              | QPSK       | 25      | 12        | ANT0    | FULL      | / | 17.73 | / | 19.50              |
| 10              | QPSK       | 25      | 25        | ANT0    | FULL      | / | 17.71 | / | 19.50              |
| 10              | QPSK       | 50      | 0         | ANT0    | FULL      | / | 17.71 | / | 19.50              |
| 10              | 16QAM      | 1       | 0         | ANT0    | FULL      | / | 17.57 | / | 19.50              |
| 10              | 16QAM      | 1       | 24        | ANT0    | FULL      | / | 17.62 | / | 19.50              |
| 10              | 16QAM      | 1       | 49        | ANT0    | FULL      | / | 17.71 | / | 19.50              |
| 10              | 16QAM      | 25      | 0         | ANT0    | FULL      | / | 16.77 | / | 18.50              |
| 10              | 16QAM      | 25      | 12        | ANT0    | FULL      | / | 16.80 | / | 18.50              |
| 10              | 16QAM      | 25      | 25        | ANT0    | FULL      | / | 16.78 | / | 18.50              |
| 10              | 16QAM      | 50      | 0         | ANT0    | FULL      | / | 16.74 | / | 18.50              |

| Band            |            |         |           | LTE B14 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 23305 | 23330 | 23355 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0    | FULL      | 18.25 | 18.13 | 18.22 | 20.00              |
| 5               | QPSK       | 1       | 12        | ANT0    | FULL      | 18.17 | 18.11 | 18.24 | 20.00              |
| 5               | QPSK       | 1       | 24        | ANT0    | FULL      | 18.14 | 18.04 | 18.11 | 20.00              |
| 5               | QPSK       | 12      | 0         | ANT0    | FULL      | 17.13 | 17.10 | 17.16 | 19.00              |
| 5               | QPSK       | 12      | 6         | ANT0    | FULL      | 17.19 | 17.17 | 17.28 | 19.00              |
| 5               | QPSK       | 12      | 13        | ANT0    | FULL      | 17.16 | 17.07 | 17.15 | 19.00              |
| 5               | QPSK       | 25      | 0         | ANT0    | FULL      | 17.23 | 17.10 | 17.11 | 19.00              |
| 5               | 16QAM      | 1       | 0         | ANT0    | FULL      | 17.12 | 17.05 | 17.11 | 19.00              |
| 5               | 16QAM      | 1       | 12        | ANT0    | FULL      | 17.19 | 17.13 | 17.21 | 19.00              |
| 5               | 16QAM      | 1       | 24        | ANT0    | FULL      | 17.15 | 17.14 | 17.18 | 19.00              |
| 5               | 16QAM      | 12      | 0         | ANT0    | FULL      | 16.06 | 16.05 | 16.15 | 18.00              |
| 5               | 16QAM      | 12      | 6         | ANT0    | FULL      | 16.37 | 16.31 | 16.37 | 18.00              |
| 5               | 16QAM      | 12      | 13        | ANT0    | FULL      | 16.06 | 16.04 | 16.10 | 18.00              |
| 5               | 16QAM      | 25      | 0         | ANT0    | FULL      | 16.09 | 16.03 | 16.07 | 18.00              |

| Band            |            |         |           | LTE B14 |           |   |       |   |                    |
|-----------------|------------|---------|-----------|---------|-----------|---|-------|---|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | / | 23330 | / | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0    | FULL      | / | 18.09 | / | 20.00              |
| 10              | QPSK       | 1       | 24        | ANT0    | FULL      | / | 18.08 | / | 20.00              |
| 10              | QPSK       | 1       | 49        | ANT0    | FULL      | / | 18.14 | / | 20.00              |
| 10              | QPSK       | 25      | 0         | ANT0    | FULL      | / | 17.11 | / | 19.00              |
| 10              | QPSK       | 25      | 12        | ANT0    | FULL      | / | 17.03 | / | 19.00              |
| 10              | QPSK       | 25      | 25        | ANT0    | FULL      | / | 17.05 | / | 19.00              |
| 10              | QPSK       | 50      | 0         | ANT0    | FULL      | / | 17.09 | / | 19.00              |
| 10              | 16QAM      | 1       | 0         | ANT0    | FULL      | / | 17.12 | / | 19.00              |
| 10              | 16QAM      | 1       | 24        | ANT0    | FULL      | / | 17.06 | / | 19.00              |
| 10              | 16QAM      | 1       | 49        | ANT0    | FULL      | / | 17.07 | / | 19.00              |
| 10              | 16QAM      | 25      | 0         | ANT0    | FULL      | / | 16.09 | / | 18.00              |
| 10              | 16QAM      | 25      | 12        | ANT0    | FULL      | / | 16.18 | / | 18.00              |
| 10              | 16QAM      | 25      | 25        | ANT0    | FULL      | / | 16.00 | / | 18.00              |
| 10              | 16QAM      | 50      | 0         | ANT0    | FULL      | / | 16.03 | / | 18.00              |

| Band            |            |         |           | LTE B17 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 23755 | 23790 | 23825 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0    | FULL      | 20.14 | 20.15 | 20.14 | 22.00              |
| 5               | QPSK       | 1       | 12        | ANT0    | FULL      | 20.24 | 20.10 | 20.01 | 22.00              |
| 5               | QPSK       | 1       | 24        | ANT0    | FULL      | 20.01 | 20.04 | 20.05 | 22.00              |
| 5               | QPSK       | 12      | 0         | ANT0    | FULL      | 19.15 | 19.07 | 19.12 | 21.00              |
| 5               | QPSK       | 12      | 6         | ANT0    | FULL      | 19.06 | 19.05 | 19.09 | 21.00              |
| 5               | QPSK       | 12      | 13        | ANT0    | FULL      | 19.10 | 19.07 | 19.03 | 21.00              |
| 5               | QPSK       | 25      | 0         | ANT0    | FULL      | 19.18 | 19.04 | 19.01 | 21.00              |
| 5               | 16QAM      | 1       | 0         | ANT0    | FULL      | 19.13 | 19.70 | 19.17 | 21.00              |
| 5               | 16QAM      | 1       | 12        | ANT0    | FULL      | 19.13 | 19.54 | 19.14 | 21.00              |
| 5               | 16QAM      | 1       | 24        | ANT0    | FULL      | 19.03 | 19.83 | 19.28 | 21.00              |
| 5               | 16QAM      | 12      | 0         | ANT0    | FULL      | 18.22 | 18.01 | 18.06 | 20.00              |
| 5               | 16QAM      | 12      | 6         | ANT0    | FULL      | 18.11 | 18.19 | 18.12 | 20.00              |
| 5               | 16QAM      | 12      | 13        | ANT0    | FULL      | 18.22 | 18.10 | 18.22 | 20.00              |
| 5               | 16QAM      | 25      | 0         | ANT0    | FULL      | 18.01 | 18.09 | 18.09 | 20.00              |

| Band            |            |         |           | LTE B17 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 23780 | 23790 | 23800 | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0    | FULL      | 20.13 | 20.02 | 20.04 | 22.00              |
| 10              | QPSK       | 1       | 24        | ANT0    | FULL      | 20.14 | 20.15 | 20.02 | 22.00              |
| 10              | QPSK       | 1       | 49        | ANT0    | FULL      | 20.09 | 20.05 | 20.09 | 22.00              |
| 10              | QPSK       | 25      | 0         | ANT0    | FULL      | 19.10 | 19.10 | 19.09 | 21.00              |
| 10              | QPSK       | 25      | 12        | ANT0    | FULL      | 19.07 | 19.09 | 19.08 | 21.00              |
| 10              | QPSK       | 25      | 25        | ANT0    | FULL      | 19.07 | 19.00 | 19.06 | 21.00              |
| 10              | QPSK       | 50      | 0         | ANT0    | FULL      | 19.10 | 19.12 | 19.06 | 21.00              |
| 10              | 16QAM      | 1       | 0         | ANT0    | FULL      | 19.05 | 19.63 | 19.12 | 21.00              |
| 10              | 16QAM      | 1       | 24        | ANT0    | FULL      | 19.04 | 19.57 | 19.13 | 21.00              |
| 10              | 16QAM      | 1       | 49        | ANT0    | FULL      | 19.10 | 19.68 | 19.23 | 21.00              |
| 10              | 16QAM      | 25      | 0         | ANT0    | FULL      | 18.16 | 18.12 | 18.16 | 20.00              |
| 10              | 16QAM      | 25      | 12        | ANT0    | FULL      | 18.19 | 18.12 | 18.22 | 20.00              |
| 10              | 16QAM      | 25      | 25        | ANT0    | FULL      | 18.15 | 18.04 | 18.18 | 20.00              |
| 10              | 16QAM      | 50      | 0         | ANT0    | FULL      | 18.08 | 18.05 | 18.19 | 20.00              |

| Band            |            |         |           | LTE B25 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 26047 | 26365 | 26683 | Tune-up power(dBm) |
| 1.4             | QPSK       | 1       | 0         | ANT0    | FULL      | 14.34 | 14.19 | 14.08 | 16.00              |
| 1.4             | QPSK       | 1       | 2         | ANT0    | FULL      | 14.25 | 14.24 | 14.05 | 16.00              |
| 1.4             | QPSK       | 1       | 5         | ANT0    | FULL      | 14.30 | 14.14 | 14.11 | 16.00              |
| 1.4             | QPSK       | 3       | 0         | ANT0    | FULL      | 14.21 | 14.09 | 14.17 | 16.00              |
| 1.4             | QPSK       | 3       | 1         | ANT0    | FULL      | 14.16 | 14.22 | 14.14 | 16.00              |
| 1.4             | QPSK       | 3       | 3         | ANT0    | FULL      | 14.06 | 14.23 | 14.21 | 16.00              |
| 1.4             | QPSK       | 6       | 0         | ANT0    | FULL      | 13.34 | 13.07 | 13.10 | 15.00              |
| 1.4             | 16QAM      | 1       | 0         | ANT0    | FULL      | 13.44 | 13.43 | 13.23 | 15.00              |
| 1.4             | 16QAM      | 1       | 2         | ANT0    | FULL      | 13.40 | 13.33 | 13.42 | 15.00              |
| 1.4             | 16QAM      | 1       | 5         | ANT0    | FULL      | 13.57 | 13.42 | 13.42 | 15.00              |
| 1.4             | 16QAM      | 3       | 0         | ANT0    | FULL      | 13.31 | 13.28 | 13.18 | 15.00              |
| 1.4             | 16QAM      | 3       | 1         | ANT0    | FULL      | 13.35 | 13.29 | 13.31 | 15.00              |
| 1.4             | 16QAM      | 3       | 3         | ANT0    | FULL      | 13.17 | 13.19 | 13.19 | 15.00              |
| 1.4             | 16QAM      | 6       | 0         | ANT0    | FULL      | 12.35 | 12.06 | 12.25 | 14.00              |

| Band            |            |         |           | LTE B25 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 26055 | 26365 | 26675 | Tune-up power(dBm) |
| 3               | QPSK       | 1       | 0         | ANT0    | FULL      | 14.28 | 14.20 | 14.13 | 16.00              |
| 3               | QPSK       | 1       | 7         | ANT0    | FULL      | 14.29 | 14.15 | 14.14 | 16.00              |
| 3               | QPSK       | 1       | 14        | ANT0    | FULL      | 14.32 | 14.05 | 14.06 | 16.00              |
| 3               | QPSK       | 8       | 0         | ANT0    | FULL      | 13.05 | 13.11 | 13.04 | 15.00              |
| 3               | QPSK       | 8       | 3         | ANT0    | FULL      | 13.21 | 13.28 | 13.29 | 15.00              |
| 3               | QPSK       | 8       | 7         | ANT0    | FULL      | 13.05 | 13.11 | 13.10 | 15.00              |
| 3               | QPSK       | 15      | 0         | ANT0    | FULL      | 13.29 | 13.00 | 13.21 | 15.00              |
| 3               | 16QAM      | 1       | 0         | ANT0    | FULL      | 13.66 | 13.52 | 13.16 | 15.00              |
| 3               | 16QAM      | 1       | 7         | ANT0    | FULL      | 13.41 | 13.31 | 13.47 | 15.00              |
| 3               | 16QAM      | 1       | 14        | ANT0    | FULL      | 13.53 | 13.41 | 13.37 | 15.00              |
| 3               | 16QAM      | 8       | 0         | ANT0    | FULL      | 12.33 | 12.01 | 12.08 | 14.00              |
| 3               | 16QAM      | 8       | 3         | ANT0    | FULL      | 12.21 | 12.18 | 12.09 | 14.00              |
| 3               | 16QAM      | 8       | 7         | ANT0    | FULL      | 12.10 | 12.13 | 12.01 | 14.00              |
| 3               | 16QAM      | 15      | 0         | ANT0    | FULL      | 12.26 | 12.31 | 12.19 | 14.00              |

| Band            |            |         |           | LTE B25 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 26065 | 26365 | 26665 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0    | FULL      | 14.20 | 14.32 | 14.14 | 16.00              |
| 5               | QPSK       | 1       | 12        | ANT0    | FULL      | 14.14 | 14.20 | 14.12 | 16.00              |
| 5               | QPSK       | 1       | 24        | ANT0    | FULL      | 14.38 | 14.14 | 14.07 | 16.00              |
| 5               | QPSK       | 12      | 0         | ANT0    | FULL      | 13.19 | 13.05 | 13.14 | 15.00              |
| 5               | QPSK       | 12      | 6         | ANT0    | FULL      | 13.15 | 13.30 | 13.21 | 15.00              |
| 5               | QPSK       | 12      | 13        | ANT0    | FULL      | 13.02 | 13.15 | 13.33 | 15.00              |
| 5               | QPSK       | 25      | 0         | ANT0    | FULL      | 13.17 | 13.07 | 13.14 | 15.00              |
| 5               | 16QAM      | 1       | 0         | ANT0    | FULL      | 13.66 | 13.34 | 13.16 | 15.00              |
| 5               | 16QAM      | 1       | 12        | ANT0    | FULL      | 13.37 | 13.50 | 13.34 | 15.00              |
| 5               | 16QAM      | 1       | 24        | ANT0    | FULL      | 13.60 | 13.47 | 13.31 | 15.00              |
| 5               | 16QAM      | 12      | 0         | ANT0    | FULL      | 12.09 | 12.05 | 12.06 | 14.00              |
| 5               | 16QAM      | 12      | 6         | ANT0    | FULL      | 12.10 | 12.18 | 12.36 | 14.00              |
| 5               | 16QAM      | 12      | 13        | ANT0    | FULL      | 12.17 | 12.29 | 12.24 | 14.00              |
| 5               | 16QAM      | 25      | 0         | ANT0    | FULL      | 12.33 | 12.20 | 12.09 | 14.00              |

| Band            |            |         |           | LTE B25 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 26090 | 26365 | 26640 | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0    | FULL      | 14.13 | 14.20 | 14.08 | 16.00              |
| 10              | QPSK       | 1       | 24        | ANT0    | FULL      | 14.09 | 14.12 | 14.15 | 16.00              |
| 10              | QPSK       | 1       | 49        | ANT0    | FULL      | 14.24 | 14.10 | 14.27 | 16.00              |
| 10              | QPSK       | 25      | 0         | ANT0    | FULL      | 13.08 | 13.08 | 13.17 | 15.00              |
| 10              | QPSK       | 25      | 12        | ANT0    | FULL      | 13.16 | 13.21 | 13.21 | 15.00              |
| 10              | QPSK       | 25      | 25        | ANT0    | FULL      | 13.18 | 13.03 | 13.19 | 15.00              |
| 10              | QPSK       | 50      | 0         | ANT0    | FULL      | 13.28 | 13.06 | 13.18 | 15.00              |
| 10              | 16QAM      | 1       | 0         | ANT0    | FULL      | 13.44 | 13.42 | 13.35 | 15.00              |
| 10              | 16QAM      | 1       | 24        | ANT0    | FULL      | 13.64 | 13.26 | 13.35 | 15.00              |
| 10              | 16QAM      | 1       | 49        | ANT0    | FULL      | 13.55 | 13.37 | 13.49 | 15.00              |
| 10              | 16QAM      | 25      | 0         | ANT0    | FULL      | 12.10 | 12.16 | 12.24 | 14.00              |
| 10              | 16QAM      | 25      | 12        | ANT0    | FULL      | 12.12 | 12.26 | 12.30 | 14.00              |
| 10              | 16QAM      | 25      | 25        | ANT0    | FULL      | 12.08 | 12.30 | 12.21 | 14.00              |
| 10              | 16QAM      | 50      | 0         | ANT0    | FULL      | 12.32 | 12.12 | 12.19 | 14.00              |

| Band            |            |         |           | LTE B25 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 26115 | 26365 | 26615 | Tune-up power(dBm) |
| 15              | QPSK       | 1       | 0         | ANT0    | FULL      | 14.17 | 14.37 | 14.10 | 16.00              |
| 15              | QPSK       | 1       | 37        | ANT0    | FULL      | 14.19 | 14.30 | 14.23 | 16.00              |
| 15              | QPSK       | 1       | 74        | ANT0    | FULL      | 14.20 | 14.31 | 14.25 | 16.00              |
| 15              | QPSK       | 36      | 0         | ANT0    | FULL      | 13.15 | 13.04 | 13.07 | 15.00              |
| 15              | QPSK       | 36      | 19        | ANT0    | FULL      | 13.32 | 13.06 | 13.32 | 15.00              |
| 15              | QPSK       | 36      | 39        | ANT0    | FULL      | 13.08 | 13.01 | 13.05 | 15.00              |
| 15              | QPSK       | 75      | 0         | ANT0    | FULL      | 13.14 | 13.27 | 13.23 | 15.00              |
| 15              | 16QAM      | 1       | 0         | ANT0    | FULL      | 13.46 | 13.31 | 13.27 | 15.00              |
| 15              | 16QAM      | 1       | 37        | ANT0    | FULL      | 13.64 | 13.25 | 13.50 | 15.00              |
| 15              | 16QAM      | 1       | 74        | ANT0    | FULL      | 13.62 | 13.32 | 13.36 | 15.00              |
| 15              | 16QAM      | 36      | 0         | ANT0    | FULL      | 12.29 | 12.13 | 12.31 | 14.00              |
| 15              | 16QAM      | 36      | 19        | ANT0    | FULL      | 12.36 | 12.29 | 12.20 | 14.00              |
| 15              | 16QAM      | 36      | 39        | ANT0    | FULL      | 12.25 | 12.17 | 12.10 | 14.00              |
| 15              | 16QAM      | 75      | 0         | ANT0    | FULL      | 12.25 | 12.11 | 12.18 | 14.00              |

| Band            |            |         |           | LTE B25 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 26140 | 26365 | 26590 | Tune-up power(dBm) |
| 20              | QPSK       | 1       | 0         | ANT0    | FULL      | 14.24 | 14.24 | 14.07 | 16.00              |
| 20              | QPSK       | 1       | 49        | ANT0    | FULL      | 14.21 | 14.21 | 14.11 | 16.00              |
| 20              | QPSK       | 1       | 99        | ANT0    | FULL      | 14.24 | 14.18 | 14.18 | 16.00              |
| 20              | QPSK       | 50      | 0         | ANT0    | FULL      | 13.19 | 13.25 | 13.12 | 15.00              |
| 20              | QPSK       | 50      | 25        | ANT0    | FULL      | 13.24 | 13.20 | 13.18 | 15.00              |
| 20              | QPSK       | 50      | 50        | ANT0    | FULL      | 13.17 | 13.12 | 13.19 | 15.00              |
| 20              | QPSK       | 100     | 0         | ANT0    | FULL      | 13.22 | 13.21 | 13.17 | 15.00              |
| 20              | 16QAM      | 1       | 0         | ANT0    | FULL      | 13.57 | 13.44 | 13.25 | 15.00              |
| 20              | 16QAM      | 1       | 49        | ANT0    | FULL      | 13.50 | 13.36 | 13.39 | 15.00              |
| 20              | 16QAM      | 1       | 99        | ANT0    | FULL      | 13.52 | 13.36 | 13.44 | 15.00              |
| 20              | 16QAM      | 50      | 0         | ANT0    | FULL      | 12.22 | 12.13 | 12.18 | 14.00              |
| 20              | 16QAM      | 50      | 25        | ANT0    | FULL      | 12.24 | 12.20 | 12.21 | 14.00              |
| 20              | 16QAM      | 50      | 50        | ANT0    | FULL      | 12.18 | 12.16 | 12.13 | 14.00              |
| 20              | 16QAM      | 100     | 0         | ANT0    | FULL      | 12.26 | 12.19 | 12.15 | 14.00              |

| Band            |            |         |           | LTE B26 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 26697 | 26865 | 27033 | Tune-up power(dBm) |
| 1.4             | QPSK       | 1       | 0         | ANT0    | FULL      | 18.61 | 18.54 | 18.63 | 20.50              |
| 1.4             | QPSK       | 1       | 2         | ANT0    | FULL      | 18.71 | 18.73 | 18.74 | 20.50              |
| 1.4             | QPSK       | 1       | 5         | ANT0    | FULL      | 18.69 | 18.63 | 18.62 | 20.50              |
| 1.4             | QPSK       | 3       | 0         | ANT0    | FULL      | 18.60 | 18.72 | 18.53 | 20.50              |
| 1.4             | QPSK       | 3       | 1         | ANT0    | FULL      | 18.66 | 18.66 | 18.63 | 20.50              |
| 1.4             | QPSK       | 3       | 3         | ANT0    | FULL      | 18.74 | 18.80 | 18.60 | 20.50              |
| 1.4             | QPSK       | 6       | 0         | ANT0    | FULL      | 17.77 | 17.61 | 17.62 | 19.50              |
| 1.4             | 16QAM      | 1       | 0         | ANT0    | FULL      | 18.10 | 17.74 | 18.07 | 19.50              |
| 1.4             | 16QAM      | 1       | 2         | ANT0    | FULL      | 18.38 | 17.71 | 18.27 | 19.50              |
| 1.4             | 16QAM      | 1       | 5         | ANT0    | FULL      | 18.19 | 17.76 | 18.01 | 19.50              |
| 1.4             | 16QAM      | 3       | 0         | ANT0    | FULL      | 17.87 | 17.74 | 17.71 | 19.50              |
| 1.4             | 16QAM      | 3       | 1         | ANT0    | FULL      | 17.72 | 17.69 | 17.52 | 19.50              |
| 1.4             | 16QAM      | 3       | 3         | ANT0    | FULL      | 17.70 | 17.69 | 17.53 | 19.50              |
| 1.4             | 16QAM      | 6       | 0         | ANT0    | FULL      | 16.71 | 16.66 | 16.67 | 18.50              |

| Band            |            |         |           | LTE B26 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 26705 | 26865 | 27025 | Tune-up power(dBm) |
| 3               | QPSK       | 1       | 0         | ANT0    | FULL      | 18.68 | 18.78 | 18.54 | 20.50              |
| 3               | QPSK       | 1       | 7         | ANT0    | FULL      | 18.75 | 18.68 | 18.77 | 20.50              |
| 3               | QPSK       | 1       | 14        | ANT0    | FULL      | 18.65 | 18.57 | 18.56 | 20.50              |
| 3               | QPSK       | 8       | 0         | ANT0    | FULL      | 17.57 | 17.65 | 17.64 | 19.50              |
| 3               | QPSK       | 8       | 3         | ANT0    | FULL      | 17.80 | 17.73 | 17.64 | 19.50              |
| 3               | QPSK       | 8       | 7         | ANT0    | FULL      | 17.57 | 17.80 | 17.64 | 19.50              |
| 3               | QPSK       | 15      | 0         | ANT0    | FULL      | 17.76 | 17.66 | 17.60 | 19.50              |
| 3               | 16QAM      | 1       | 0         | ANT0    | FULL      | 18.27 | 17.74 | 17.98 | 19.50              |
| 3               | 16QAM      | 1       | 7         | ANT0    | FULL      | 18.32 | 17.94 | 18.02 | 19.50              |
| 3               | 16QAM      | 1       | 14        | ANT0    | FULL      | 18.26 | 17.71 | 17.99 | 19.50              |
| 3               | 16QAM      | 8       | 0         | ANT0    | FULL      | 16.70 | 16.68 | 16.50 | 18.50              |
| 3               | 16QAM      | 8       | 3         | ANT0    | FULL      | 16.83 | 16.66 | 16.61 | 18.50              |
| 3               | 16QAM      | 8       | 7         | ANT0    | FULL      | 16.69 | 16.81 | 16.68 | 18.50              |
| 3               | 16QAM      | 15      | 0         | ANT0    | FULL      | 16.77 | 16.76 | 16.61 | 18.50              |

| Band            |            |         |           | LTE B26 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 26715 | 26865 | 27015 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0    | FULL      | 18.53 | 18.74 | 18.64 | 20.50              |
| 5               | QPSK       | 1       | 12        | ANT0    | FULL      | 18.77 | 18.72 | 18.66 | 20.50              |
| 5               | QPSK       | 1       | 24        | ANT0    | FULL      | 18.63 | 18.64 | 18.55 | 20.50              |
| 5               | QPSK       | 12      | 0         | ANT0    | FULL      | 17.64 | 17.78 | 17.65 | 19.50              |
| 5               | QPSK       | 12      | 6         | ANT0    | FULL      | 17.54 | 17.63 | 17.58 | 19.50              |
| 5               | QPSK       | 12      | 13        | ANT0    | FULL      | 17.58 | 17.60 | 17.65 | 19.50              |
| 5               | QPSK       | 25      | 0         | ANT0    | FULL      | 17.74 | 17.55 | 17.58 | 19.50              |
| 5               | 16QAM      | 1       | 0         | ANT0    | FULL      | 18.23 | 17.89 | 17.97 | 19.50              |
| 5               | 16QAM      | 1       | 12        | ANT0    | FULL      | 18.35 | 17.96 | 18.12 | 19.50              |
| 5               | 16QAM      | 1       | 24        | ANT0    | FULL      | 18.20 | 17.86 | 17.88 | 19.50              |
| 5               | 16QAM      | 12      | 0         | ANT0    | FULL      | 16.59 | 16.90 | 16.76 | 18.50              |
| 5               | 16QAM      | 12      | 6         | ANT0    | FULL      | 16.73 | 16.67 | 16.65 | 18.50              |
| 5               | 16QAM      | 12      | 13        | ANT0    | FULL      | 16.64 | 16.74 | 16.58 | 18.50              |
| 5               | 16QAM      | 25      | 0         | ANT0    | FULL      | 16.63 | 16.85 | 16.63 | 18.50              |

| Band            |            |         |           | LTE B26 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 26740 | 26865 | 26990 | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0    | FULL      | 18.67 | 18.79 | 18.59 | 20.50              |
| 10              | QPSK       | 1       | 24        | ANT0    | FULL      | 18.54 | 18.79 | 18.73 | 20.50              |
| 10              | QPSK       | 1       | 49        | ANT0    | FULL      | 18.77 | 18.62 | 18.58 | 20.50              |
| 10              | QPSK       | 25      | 0         | ANT0    | FULL      | 17.78 | 17.58 | 17.56 | 19.50              |
| 10              | QPSK       | 25      | 12        | ANT0    | FULL      | 17.80 | 17.82 | 17.70 | 19.50              |
| 10              | QPSK       | 25      | 25        | ANT0    | FULL      | 17.83 | 17.59 | 17.67 | 19.50              |
| 10              | QPSK       | 50      | 0         | ANT0    | FULL      | 17.53 | 17.59 | 17.51 | 19.50              |
| 10              | 16QAM      | 1       | 0         | ANT0    | FULL      | 18.19 | 17.77 | 18.19 | 19.50              |
| 10              | 16QAM      | 1       | 24        | ANT0    | FULL      | 18.40 | 17.80 | 18.01 | 19.50              |
| 10              | 16QAM      | 1       | 49        | ANT0    | FULL      | 18.39 | 17.61 | 18.04 | 19.50              |
| 10              | 16QAM      | 25      | 0         | ANT0    | FULL      | 16.70 | 16.72 | 16.55 | 18.50              |
| 10              | 16QAM      | 25      | 12        | ANT0    | FULL      | 16.83 | 16.79 | 16.74 | 18.50              |
| 10              | 16QAM      | 25      | 25        | ANT0    | FULL      | 16.84 | 16.69 | 16.53 | 18.50              |
| 10              | 16QAM      | 50      | 0         | ANT0    | FULL      | 16.66 | 16.65 | 16.65 | 18.50              |

| Band            |            |         |           | LTE B26 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 26765 | 26865 | 26965 | Tune-up power(dBm) |
| 15              | QPSK       | 1       | 0         | ANT0    | FULL      | 18.53 | 18.67 | 18.62 | 20.50              |
| 15              | QPSK       | 1       | 37        | ANT0    | FULL      | 18.62 | 18.67 | 18.62 | 20.50              |
| 15              | QPSK       | 1       | 74        | ANT0    | FULL      | 18.63 | 18.58 | 18.55 | 20.50              |
| 15              | QPSK       | 37      | 0         | ANT0    | FULL      | 17.65 | 17.72 | 17.56 | 19.50              |
| 15              | QPSK       | 37      | 19        | ANT0    | FULL      | 17.67 | 17.69 | 17.58 | 19.50              |
| 15              | QPSK       | 37      | 38        | ANT0    | FULL      | 17.70 | 17.66 | 17.61 | 19.50              |
| 15              | QPSK       | 75      | 0         | ANT0    | FULL      | 17.63 | 17.66 | 17.55 | 19.50              |
| 15              | 16QAM      | 1       | 0         | ANT0    | FULL      | 18.21 | 17.78 | 18.08 | 19.50              |
| 15              | 16QAM      | 1       | 37        | ANT0    | FULL      | 18.28 | 17.82 | 18.13 | 19.50              |
| 15              | 16QAM      | 1       | 74        | ANT0    | FULL      | 18.28 | 17.76 | 18.00 | 19.50              |
| 15              | 16QAM      | 37      | 0         | ANT0    | FULL      | 16.73 | 16.76 | 16.64 | 18.50              |
| 15              | 16QAM      | 37      | 19        | ANT0    | FULL      | 16.69 | 16.76 | 16.61 | 18.50              |
| 15              | 16QAM      | 37      | 38        | ANT0    | FULL      | 16.77 | 16.69 | 16.66 | 18.50              |
| 15              | 16QAM      | 75      | 0         | ANT0    | FULL      | 16.63 | 16.72 | 16.59 | 18.50              |

| Band            |            |         |           | LTE B30 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 27685 | 27710 | 27735 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0    | FULL      | 14.39 | 14.34 | 14.42 | 16.00              |
| 5               | QPSK       | 1       | 12        | ANT0    | FULL      | 14.46 | 14.43 | 14.50 | 16.00              |
| 5               | QPSK       | 1       | 24        | ANT0    | FULL      | 14.39 | 14.36 | 14.45 | 16.00              |
| 5               | QPSK       | 12      | 0         | ANT0    | FULL      | 13.46 | 13.45 | 13.47 | 15.00              |
| 5               | QPSK       | 12      | 6         | ANT0    | FULL      | 13.65 | 13.59 | 13.63 | 15.00              |
| 5               | QPSK       | 12      | 13        | ANT0    | FULL      | 13.62 | 13.59 | 13.70 | 15.00              |
| 5               | QPSK       | 25      | 0         | ANT0    | FULL      | 13.68 | 13.61 | 13.69 | 15.00              |
| 5               | 16QAM      | 1       | 0         | ANT0    | FULL      | 14.07 | 13.95 | 13.98 | 15.00              |
| 5               | 16QAM      | 1       | 12        | ANT0    | FULL      | 14.03 | 13.91 | 13.97 | 15.00              |
| 5               | 16QAM      | 1       | 24        | ANT0    | FULL      | 14.37 | 14.28 | 14.31 | 15.00              |
| 5               | 16QAM      | 12      | 0         | ANT0    | FULL      | 12.46 | 12.44 | 12.50 | 14.00              |
| 5               | 16QAM      | 12      | 6         | ANT0    | FULL      | 12.62 | 12.53 | 12.55 | 14.00              |
| 5               | 16QAM      | 12      | 13        | ANT0    | FULL      | 12.59 | 12.52 | 12.56 | 14.00              |
| 5               | 16QAM      | 25      | 0         | ANT0    | FULL      | 12.72 | 12.65 | 12.66 | 14.00              |

| Band            |            |         |           | LTE B30 |           |   |       |   |                    |
|-----------------|------------|---------|-----------|---------|-----------|---|-------|---|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | / | 27710 | / | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0    | FULL      | / | 14.42 | / | 16.00              |
| 10              | QPSK       | 1       | 24        | ANT0    | FULL      | / | 14.42 | / | 16.00              |
| 10              | QPSK       | 1       | 49        | ANT0    | FULL      | / | 14.49 | / | 16.00              |
| 10              | QPSK       | 25      | 0         | ANT0    | FULL      | / | 13.49 | / | 15.00              |
| 10              | QPSK       | 25      | 12        | ANT0    | FULL      | / | 13.56 | / | 15.00              |
| 10              | QPSK       | 25      | 25        | ANT0    | FULL      | / | 13.53 | / | 15.00              |
| 10              | QPSK       | 50      | 0         | ANT0    | FULL      | / | 13.54 | / | 15.00              |
| 10              | 16QAM      | 1       | 0         | ANT0    | FULL      | / | 14.05 | / | 15.00              |
| 10              | 16QAM      | 1       | 24        | ANT0    | FULL      | / | 14.06 | / | 15.00              |
| 10              | 16QAM      | 1       | 49        | ANT0    | FULL      | / | 14.14 | / | 15.00              |
| 10              | 16QAM      | 25      | 0         | ANT0    | FULL      | / | 12.55 | / | 14.00              |
| 10              | 16QAM      | 25      | 12        | ANT0    | FULL      | / | 12.64 | / | 14.00              |
| 10              | 16QAM      | 25      | 25        | ANT0    | FULL      | / | 12.62 | / | 14.00              |
| 10              | 16QAM      | 50      | 0         | ANT0    | FULL      | / | 12.57 | / | 14.00              |

| Band            |            |         |           | LTE B66 |           |        |        |        |                    |
|-----------------|------------|---------|-----------|---------|-----------|--------|--------|--------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 131979 | 132322 | 132665 | Tune-up power(dBm) |
| 1.4             | QPSK       | 1       | 0         | ANT0    | FULL      | 13.17  | 13.09  | 13.19  | 15.00              |
| 1.4             | QPSK       | 1       | 2         | ANT0    | FULL      | 13.09  | 13.08  | 13.40  | 15.00              |
| 1.4             | QPSK       | 1       | 5         | ANT0    | FULL      | 13.27  | 13.23  | 13.39  | 15.00              |
| 1.4             | QPSK       | 3       | 0         | ANT0    | FULL      | 13.20  | 13.08  | 13.02  | 15.00              |
| 1.4             | QPSK       | 3       | 1         | ANT0    | FULL      | 13.29  | 13.04  | 13.12  | 15.00              |
| 1.4             | QPSK       | 3       | 3         | ANT0    | FULL      | 13.19  | 13.13  | 13.06  | 15.00              |
| 1.4             | QPSK       | 6       | 0         | ANT0    | FULL      | 12.00  | 12.13  | 12.43  | 14.00              |
| 1.4             | 16QAM      | 1       | 0         | ANT0    | FULL      | 12.39  | 12.27  | 12.35  | 14.00              |
| 1.4             | 16QAM      | 1       | 2         | ANT0    | FULL      | 12.39  | 12.45  | 12.46  | 14.00              |
| 1.4             | 16QAM      | 1       | 5         | ANT0    | FULL      | 12.50  | 12.29  | 12.52  | 14.00              |
| 1.4             | 16QAM      | 3       | 0         | ANT0    | FULL      | 12.17  | 12.22  | 12.27  | 14.00              |
| 1.4             | 16QAM      | 3       | 1         | ANT0    | FULL      | 12.06  | 12.10  | 12.01  | 14.00              |
| 1.4             | 16QAM      | 3       | 3         | ANT0    | FULL      | 12.05  | 12.22  | 12.17  | 14.00              |
| 1.4             | 16QAM      | 6       | 0         | ANT0    | FULL      | 11.09  | 11.29  | 11.01  | 13.00              |

| Band            |            |         |           | LTE B66 |           |        |        |        |                    |
|-----------------|------------|---------|-----------|---------|-----------|--------|--------|--------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 131987 | 132322 | 132657 | Tune-up power(dBm) |
| 3               | QPSK       | 1       | 0         | ANT0    | FULL      | 13.02  | 13.17  | 13.19  | 15.00              |
| 3               | QPSK       | 1       | 7         | ANT0    | FULL      | 13.16  | 13.27  | 13.42  | 15.00              |
| 3               | QPSK       | 1       | 14        | ANT0    | FULL      | 13.20  | 13.01  | 13.17  | 15.00              |
| 3               | QPSK       | 8       | 0         | ANT0    | FULL      | 12.20  | 12.07  | 12.12  | 14.00              |
| 3               | QPSK       | 8       | 3         | ANT0    | FULL      | 12.01  | 12.13  | 12.03  | 14.00              |
| 3               | QPSK       | 8       | 7         | ANT0    | FULL      | 12.19  | 12.27  | 12.14  | 14.00              |
| 3               | QPSK       | 15      | 0         | ANT0    | FULL      | 12.10  | 12.07  | 12.42  | 14.00              |
| 3               | 16QAM      | 1       | 0         | ANT0    | FULL      | 12.31  | 12.11  | 12.55  | 14.00              |
| 3               | 16QAM      | 1       | 7         | ANT0    | FULL      | 12.49  | 12.44  | 12.66  | 14.00              |
| 3               | 16QAM      | 1       | 14        | ANT0    | FULL      | 12.52  | 12.31  | 12.59  | 14.00              |
| 3               | 16QAM      | 8       | 0         | ANT0    | FULL      | 11.24  | 11.24  | 11.25  | 13.00              |
| 3               | 16QAM      | 8       | 3         | ANT0    | FULL      | 11.08  | 11.04  | 11.10  | 13.00              |
| 3               | 16QAM      | 8       | 7         | ANT0    | FULL      | 11.19  | 11.29  | 11.21  | 13.00              |
| 3               | 16QAM      | 15      | 0         | ANT0    | FULL      | 11.20  | 11.26  | 11.10  | 13.00              |

| Band            |            |         |           | LTE B66 |           |        |        |        |                    |
|-----------------|------------|---------|-----------|---------|-----------|--------|--------|--------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 131997 | 132322 | 132647 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0    | FULL      | 13.05  | 13.15  | 13.13  | 15.00              |
| 5               | QPSK       | 1       | 12        | ANT0    | FULL      | 13.28  | 13.01  | 13.44  | 15.00              |
| 5               | QPSK       | 1       | 24        | ANT0    | FULL      | 13.10  | 13.09  | 13.36  | 15.00              |
| 5               | QPSK       | 12      | 0         | ANT0    | FULL      | 12.09  | 12.18  | 12.09  | 14.00              |
| 5               | QPSK       | 12      | 6         | ANT0    | FULL      | 12.27  | 12.07  | 12.13  | 14.00              |
| 5               | QPSK       | 12      | 13        | ANT0    | FULL      | 12.28  | 12.24  | 12.05  | 14.00              |
| 5               | QPSK       | 25      | 0         | ANT0    | FULL      | 12.22  | 12.13  | 12.48  | 14.00              |
| 5               | 16QAM      | 1       | 0         | ANT0    | FULL      | 12.33  | 12.34  | 12.51  | 14.00              |
| 5               | 16QAM      | 1       | 12        | ANT0    | FULL      | 12.31  | 12.44  | 12.51  | 14.00              |
| 5               | 16QAM      | 1       | 24        | ANT0    | FULL      | 12.49  | 12.17  | 12.36  | 14.00              |
| 5               | 16QAM      | 12      | 0         | ANT0    | FULL      | 11.14  | 11.24  | 11.23  | 13.00              |
| 5               | 16QAM      | 12      | 6         | ANT0    | FULL      | 11.13  | 11.23  | 11.11  | 13.00              |
| 5               | 16QAM      | 12      | 13        | ANT0    | FULL      | 11.15  | 11.26  | 11.16  | 13.00              |
| 5               | 16QAM      | 25      | 0         | ANT0    | FULL      | 11.07  | 11.09  | 11.19  | 13.00              |

| Band            |            |         |           | LTE B66 |           |        |        |        |                    |
|-----------------|------------|---------|-----------|---------|-----------|--------|--------|--------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 132022 | 132322 | 132622 | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0    | FULL      | 13.08  | 13.03  | 13.04  | 15.00              |
| 10              | QPSK       | 1       | 24        | ANT0    | FULL      | 13.28  | 13.07  | 13.46  | 15.00              |
| 10              | QPSK       | 1       | 49        | ANT0    | FULL      | 13.24  | 13.14  | 13.16  | 15.00              |
| 10              | QPSK       | 25      | 0         | ANT0    | FULL      | 12.22  | 12.17  | 12.16  | 14.00              |
| 10              | QPSK       | 25      | 12        | ANT0    | FULL      | 12.15  | 12.08  | 12.03  | 14.00              |
| 10              | QPSK       | 25      | 25        | ANT0    | FULL      | 12.26  | 12.24  | 12.08  | 14.00              |
| 10              | QPSK       | 50      | 0         | ANT0    | FULL      | 12.10  | 12.21  | 12.40  | 14.00              |
| 10              | 16QAM      | 1       | 0         | ANT0    | FULL      | 12.43  | 12.33  | 12.63  | 14.00              |
| 10              | 16QAM      | 1       | 24        | ANT0    | FULL      | 12.30  | 12.35  | 12.55  | 14.00              |
| 10              | 16QAM      | 1       | 49        | ANT0    | FULL      | 12.58  | 12.30  | 12.36  | 14.00              |
| 10              | 16QAM      | 25      | 0         | ANT0    | FULL      | 11.09  | 11.19  | 11.31  | 13.00              |
| 10              | 16QAM      | 25      | 12        | ANT0    | FULL      | 11.25  | 11.07  | 11.01  | 13.00              |
| 10              | 16QAM      | 25      | 25        | ANT0    | FULL      | 11.20  | 11.08  | 11.09  | 13.00              |
| 10              | 16QAM      | 50      | 0         | ANT0    | FULL      | 11.20  | 11.21  | 11.00  | 13.00              |

| Band            |            |         |           | LTE B66 |           |        |        |        |                    |
|-----------------|------------|---------|-----------|---------|-----------|--------|--------|--------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 132047 | 132322 | 132597 | Tune-up power(dBm) |
| 15              | QPSK       | 1       | 0         | ANT0    | FULL      | 13.06  | 13.09  | 13.05  | 15.00              |
| 15              | QPSK       | 1       | 37        | ANT0    | FULL      | 13.19  | 13.23  | 13.33  | 15.00              |
| 15              | QPSK       | 1       | 74        | ANT0    | FULL      | 13.05  | 13.12  | 13.43  | 15.00              |
| 15              | QPSK       | 36      | 0         | ANT0    | FULL      | 12.13  | 12.16  | 12.05  | 14.00              |
| 15              | QPSK       | 36      | 19        | ANT0    | FULL      | 12.17  | 12.15  | 12.07  | 14.00              |
| 15              | QPSK       | 36      | 39        | ANT0    | FULL      | 12.05  | 12.25  | 12.09  | 14.00              |
| 15              | QPSK       | 75      | 0         | ANT0    | FULL      | 12.06  | 12.26  | 12.32  | 14.00              |
| 15              | 16QAM      | 1       | 0         | ANT0    | FULL      | 12.54  | 12.21  | 12.37  | 14.00              |
| 15              | 16QAM      | 1       | 37        | ANT0    | FULL      | 12.29  | 12.41  | 12.43  | 14.00              |
| 15              | 16QAM      | 1       | 74        | ANT0    | FULL      | 12.58  | 12.22  | 12.54  | 14.00              |
| 15              | 16QAM      | 36      | 0         | ANT0    | FULL      | 11.20  | 11.23  | 11.12  | 13.00              |
| 15              | 16QAM      | 36      | 19        | ANT0    | FULL      | 11.06  | 11.20  | 11.09  | 13.00              |
| 15              | 16QAM      | 36      | 39        | ANT0    | FULL      | 11.31  | 11.16  | 11.14  | 13.00              |
| 15              | 16QAM      | 75      | 0         | ANT0    | FULL      | 11.07  | 11.19  | 11.15  | 13.00              |

| Band            |            |         |           | LTE B66 |           |        |        |        |                    |
|-----------------|------------|---------|-----------|---------|-----------|--------|--------|--------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 132072 | 132322 | 132572 | Tune-up power(dBm) |
| 20              | QPSK       | 1       | 0         | ANT0    | FULL      | 13.04  | 13.02  | 13.18  | 15.00              |
| 20              | QPSK       | 1       | 49        | ANT0    | FULL      | 13.14  | 13.35  | 13.31  | 15.00              |
| 20              | QPSK       | 1       | 99        | ANT0    | FULL      | 13.17  | 13.09  | 13.30  | 15.00              |
| 20              | QPSK       | 50      | 0         | ANT0    | FULL      | 12.13  | 12.19  | 12.06  | 14.00              |
| 20              | QPSK       | 50      | 25        | ANT0    | FULL      | 12.16  | 12.15  | 12.01  | 14.00              |
| 20              | QPSK       | 50      | 50        | ANT0    | FULL      | 12.18  | 12.14  | 12.01  | 14.00              |
| 20              | QPSK       | 100     | 0         | ANT0    | FULL      | 12.13  | 13.38  | 12.41  | 14.00              |
| 20              | 16QAM      | 1       | 0         | ANT0    | FULL      | 12.40  | 12.23  | 12.49  | 14.00              |
| 20              | 16QAM      | 1       | 49        | ANT0    | FULL      | 12.42  | 12.34  | 12.54  | 14.00              |
| 20              | 16QAM      | 1       | 99        | ANT0    | FULL      | 12.51  | 12.31  | 12.49  | 14.00              |
| 20              | 16QAM      | 50      | 0         | ANT0    | FULL      | 11.13  | 11.14  | 11.23  | 13.00              |
| 20              | 16QAM      | 50      | 25        | ANT0    | FULL      | 11.18  | 11.18  | 11.06  | 13.00              |
| 20              | 16QAM      | 50      | 50        | ANT0    | FULL      | 11.19  | 11.18  | 11.08  | 13.00              |
| 20              | 16QAM      | 100     | 0         | ANT0    | FULL      | 11.18  | 11.15  | 11.04  | 13.00              |

| Band            |            |         |           | LTE B71 |           |        |        |        |                    |
|-----------------|------------|---------|-----------|---------|-----------|--------|--------|--------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 133147 | 133297 | 133447 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0    | FULL      | 16.43  | 16.68  | 16.62  | 18.00              |
| 5               | QPSK       | 1       | 12        | ANT0    | FULL      | 16.47  | 16.40  | 16.40  | 18.00              |
| 5               | QPSK       | 1       | 24        | ANT0    | FULL      | 16.76  | 16.82  | 16.80  | 18.00              |
| 5               | QPSK       | 12      | 0         | ANT0    | FULL      | 15.68  | 15.61  | 15.64  | 17.00              |
| 5               | QPSK       | 12      | 6         | ANT0    | FULL      | 15.42  | 15.48  | 15.44  | 17.00              |
| 5               | QPSK       | 12      | 13        | ANT0    | FULL      | 15.72  | 15.61  | 15.32  | 17.00              |
| 5               | QPSK       | 25      | 0         | ANT0    | FULL      | 15.49  | 15.60  | 15.50  | 17.00              |
| 5               | 16QAM      | 1       | 0         | ANT0    | FULL      | 15.51  | 15.71  | 15.84  | 17.00              |
| 5               | 16QAM      | 1       | 12        | ANT0    | FULL      | 15.55  | 15.49  | 15.75  | 17.00              |
| 5               | 16QAM      | 1       | 24        | ANT0    | FULL      | 15.51  | 15.46  | 15.64  | 17.00              |
| 5               | 16QAM      | 12      | 0         | ANT0    | FULL      | 14.47  | 14.60  | 14.56  | 16.00              |
| 5               | 16QAM      | 12      | 6         | ANT0    | FULL      | 14.51  | 14.77  | 14.57  | 16.00              |
| 5               | 16QAM      | 12      | 13        | ANT0    | FULL      | 14.61  | 14.81  | 14.74  | 16.00              |
| 5               | 16QAM      | 25      | 0         | ANT0    | FULL      | 14.81  | 14.63  | 14.78  | 16.00              |

| Band            |            |         |           | LTE B71 |           |        |        |        |                    |
|-----------------|------------|---------|-----------|---------|-----------|--------|--------|--------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 133172 | 133297 | 133422 | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0    | FULL      | 16.52  | 16.71  | 16.50  | 18.00              |
| 10              | QPSK       | 1       | 24        | ANT0    | FULL      | 16.52  | 16.61  | 16.35  | 18.00              |
| 10              | QPSK       | 1       | 49        | ANT0    | FULL      | 16.80  | 16.96  | 16.95  | 18.00              |
| 10              | QPSK       | 25      | 0         | ANT0    | FULL      | 15.63  | 15.78  | 15.52  | 17.00              |
| 10              | QPSK       | 25      | 12        | ANT0    | FULL      | 15.49  | 15.71  | 15.38  | 17.00              |
| 10              | QPSK       | 25      | 25        | ANT0    | FULL      | 15.43  | 15.70  | 15.52  | 17.00              |
| 10              | QPSK       | 50      | 0         | ANT0    | FULL      | 15.60  | 15.50  | 15.47  | 17.00              |
| 10              | 16QAM      | 1       | 0         | ANT0    | FULL      | 15.69  | 15.69  | 15.60  | 17.00              |
| 10              | 16QAM      | 1       | 24        | ANT0    | FULL      | 15.55  | 15.62  | 15.54  | 17.00              |
| 10              | 16QAM      | 1       | 49        | ANT0    | FULL      | 15.56  | 15.65  | 15.76  | 17.00              |
| 10              | 16QAM      | 25      | 0         | ANT0    | FULL      | 14.61  | 14.78  | 14.54  | 16.00              |
| 10              | 16QAM      | 25      | 12        | ANT0    | FULL      | 14.61  | 14.78  | 14.65  | 16.00              |
| 10              | 16QAM      | 25      | 25        | ANT0    | FULL      | 14.68  | 14.85  | 14.74  | 16.00              |
| 10              | 16QAM      | 50      | 0         | ANT0    | FULL      | 14.80  | 14.85  | 14.64  | 16.00              |

| Band            |            |         |           | LTE B71 |           |        |        |        |                    |
|-----------------|------------|---------|-----------|---------|-----------|--------|--------|--------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 133197 | 133297 | 133397 | Tune-up power(dBm) |
| 15              | QPSK       | 1       | 0         | ANT0    | FULL      | 16.59  | 16.55  | 16.42  | 18.00              |
| 15              | QPSK       | 1       | 37        | ANT0    | FULL      | 16.41  | 16.60  | 16.52  | 18.00              |
| 15              | QPSK       | 1       | 74        | ANT0    | FULL      | 16.71  | 16.73  | 16.97  | 18.00              |
| 15              | QPSK       | 36      | 0         | ANT0    | FULL      | 15.68  | 15.79  | 15.45  | 17.00              |
| 15              | QPSK       | 36      | 19        | ANT0    | FULL      | 15.50  | 15.61  | 15.43  | 17.00              |
| 15              | QPSK       | 36      | 39        | ANT0    | FULL      | 15.54  | 15.45  | 15.30  | 17.00              |
| 15              | QPSK       | 75      | 0         | ANT0    | FULL      | 15.47  | 15.50  | 15.42  | 17.00              |
| 15              | 16QAM      | 1       | 0         | ANT0    | FULL      | 15.73  | 15.50  | 15.60  | 17.00              |
| 15              | 16QAM      | 1       | 37        | ANT0    | FULL      | 15.45  | 15.60  | 15.76  | 17.00              |
| 15              | 16QAM      | 1       | 74        | ANT0    | FULL      | 15.41  | 15.60  | 15.80  | 17.00              |
| 15              | 16QAM      | 36      | 0         | ANT0    | FULL      | 14.52  | 14.60  | 14.53  | 16.00              |
| 15              | 16QAM      | 36      | 19        | ANT0    | FULL      | 14.42  | 14.59  | 14.48  | 16.00              |
| 15              | 16QAM      | 36      | 39        | ANT0    | FULL      | 14.82  | 14.66  | 14.87  | 16.00              |
| 15              | 16QAM      | 75      | 0         | ANT0    | FULL      | 14.73  | 14.69  | 14.75  | 16.00              |

| Band            |            |         |           | LTE B71 |           |        |        |        |                    |
|-----------------|------------|---------|-----------|---------|-----------|--------|--------|--------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 133222 | 133322 | 133372 | Tune-up power(dBm) |
| 20              | QPSK       | 1       | 0         | ANT0    | FULL      | 16.65  | 16.57  | 16.61  | 18.00              |
| 20              | QPSK       | 1       | 49        | ANT0    | FULL      | 16.54  | 16.49  | 16.51  | 18.00              |
| 20              | QPSK       | 1       | 99        | ANT0    | FULL      | 16.85  | 16.87  | 16.80  | 18.00              |
| 20              | QPSK       | 50      | 0         | ANT0    | FULL      | 15.66  | 15.67  | 15.69  | 17.00              |
| 20              | QPSK       | 50      | 25        | ANT0    | FULL      | 15.70  | 15.61  | 15.64  | 17.00              |
| 20              | QPSK       | 50      | 50        | ANT0    | FULL      | 15.58  | 15.77  | 15.76  | 17.00              |
| 20              | QPSK       | 100     | 0         | ANT0    | FULL      | 15.55  | 15.51  | 15.65  | 17.00              |
| 20              | 16QAM      | 1       | 0         | ANT0    | FULL      | 15.73  | 15.63  | 15.58  | 17.00              |
| 20              | 16QAM      | 1       | 49        | ANT0    | FULL      | 15.54  | 15.54  | 15.46  | 17.00              |
| 20              | 16QAM      | 1       | 99        | ANT0    | FULL      | 15.67  | 15.73  | 15.76  | 17.00              |
| 20              | 16QAM      | 50      | 0         | ANT0    | FULL      | 14.58  | 14.71  | 14.59  | 16.00              |
| 20              | 16QAM      | 50      | 25        | ANT0    | FULL      | 14.76  | 14.79  | 14.88  | 16.00              |
| 20              | 16QAM      | 50      | 50        | ANT0    | FULL      | 14.59  | 14.71  | 14.80  | 16.00              |
| 20              | 16QAM      | 100     | 0         | ANT0    | FULL      | 14.65  | 14.65  | 14.74  | 16.00              |

| Band            |            |         |           | LTE B41 |           |       |       |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 39675 | 40110 | 40620 | 41130 | 41565 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0    | FULL      | 17.86 | 17.88 | 17.47 | 17.95 | 17.86 | 18.00              |
| 5               | QPSK       | 1       | 12        | ANT0    | FULL      | 17.41 | 17.50 | 17.81 | 17.89 | 17.75 | 18.00              |
| 5               | QPSK       | 1       | 24        | ANT0    | FULL      | 17.78 | 17.63 | 17.55 | 17.92 | 17.79 | 18.00              |
| 5               | QPSK       | 12      | 0         | ANT0    | FULL      | 16.93 | 16.78 | 16.82 | 16.74 | 16.59 | 17.00              |
| 5               | QPSK       | 12      | 6         | ANT0    | FULL      | 16.62 | 16.67 | 16.60 | 16.81 | 16.78 | 17.00              |
| 5               | QPSK       | 12      | 13        | ANT0    | FULL      | 16.81 | 16.77 | 16.79 | 16.86 | 16.79 | 17.00              |
| 5               | QPSK       | 25      | 0         | ANT0    | FULL      | 16.74 | 16.72 | 16.70 | 16.79 | 16.74 | 17.00              |
| 5               | 16QAM      | 1       | 0         | ANT0    | FULL      | 16.70 | 16.71 | 16.66 | 16.83 | 16.80 | 17.00              |
| 5               | 16QAM      | 1       | 12        | ANT0    | FULL      | 16.57 | 16.57 | 16.63 | 16.78 | 16.64 | 17.00              |
| 5               | 16QAM      | 1       | 24        | ANT0    | FULL      | 16.88 | 16.97 | 16.63 | 16.98 | 16.94 | 17.00              |
| 5               | 16QAM      | 12      | 0         | ANT0    | FULL      | 15.80 | 15.89 | 15.52 | 15.78 | 15.72 | 16.00              |
| 5               | 16QAM      | 12      | 6         | ANT0    | FULL      | 15.63 | 15.86 | 15.76 | 15.84 | 15.72 | 16.00              |
| 5               | 16QAM      | 12      | 13        | ANT0    | FULL      | 15.77 | 15.76 | 15.80 | 15.81 | 15.73 | 16.00              |
| 5               | 16QAM      | 25      | 0         | ANT0    | FULL      | 15.70 | 15.64 | 15.52 | 15.80 | 15.68 | 16.00              |

| Band            |            |         |           | LTE B41 |           |       |       |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 39700 | 40135 | 40620 | 41105 | 41540 | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0    | FULL      | 17.84 | 17.84 | 17.63 | 17.95 | 17.90 | 18.00              |
| 10              | QPSK       | 1       | 24        | ANT0    | FULL      | 17.35 | 17.49 | 17.89 | 17.89 | 17.82 | 18.00              |
| 10              | QPSK       | 1       | 49        | ANT0    | FULL      | 17.80 | 17.87 | 17.63 | 17.92 | 17.82 | 18.00              |
| 10              | QPSK       | 25      | 0         | ANT0    | FULL      | 16.93 | 16.66 | 16.66 | 16.74 | 16.61 | 17.00              |
| 10              | QPSK       | 25      | 12        | ANT0    | FULL      | 16.67 | 16.70 | 16.63 | 16.81 | 16.77 | 17.00              |
| 10              | QPSK       | 25      | 25        | ANT0    | FULL      | 16.72 | 16.69 | 16.79 | 16.86 | 16.79 | 17.00              |
| 10              | QPSK       | 50      | 0         | ANT0    | FULL      | 16.71 | 16.69 | 16.67 | 16.79 | 16.65 | 17.00              |
| 10              | 16QAM      | 1       | 0         | ANT0    | FULL      | 16.75 | 16.73 | 16.60 | 16.83 | 16.69 | 17.00              |
| 10              | 16QAM      | 1       | 24        | ANT0    | FULL      | 16.60 | 16.34 | 16.63 | 16.78 | 16.74 | 17.00              |
| 10              | 16QAM      | 1       | 49        | ANT0    | FULL      | 16.89 | 16.87 | 16.57 | 16.98 | 16.88 | 17.00              |
| 10              | 16QAM      | 25      | 0         | ANT0    | FULL      | 15.74 | 15.88 | 15.63 | 15.78 | 15.74 | 16.00              |
| 10              | 16QAM      | 25      | 12        | ANT0    | FULL      | 15.76 | 15.85 | 15.74 | 15.84 | 15.81 | 16.00              |
| 10              | 16QAM      | 25      | 25        | ANT0    | FULL      | 15.65 | 15.76 | 15.54 | 15.81 | 15.74 | 16.00              |
| 10              | 16QAM      | 50      | 0         | ANT0    | FULL      | 15.73 | 15.64 | 15.67 | 15.80 | 15.73 | 16.00              |

| Band            |            |         |           | LTE B41 |           |       |       |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 39725 | 40160 | 40620 | 41080 | 41515 | Tune-up power(dBm) |
| 15              | QPSK       | 1       | 0         | ANT0    | FULL      | 17.90 | 17.90 | 17.54 | 17.95 | 17.86 | 18.00              |
| 15              | QPSK       | 1       | 37        | ANT0    | FULL      | 17.61 | 17.35 | 17.90 | 17.89 | 17.82 | 18.00              |
| 15              | QPSK       | 1       | 74        | ANT0    | FULL      | 17.76 | 17.65 | 17.75 | 17.92 | 17.84 | 18.00              |
| 15              | QPSK       | 36      | 0         | ANT0    | FULL      | 16.93 | 16.83 | 16.69 | 16.74 | 16.61 | 17.00              |
| 15              | QPSK       | 36      | 19        | ANT0    | FULL      | 16.75 | 16.78 | 16.57 | 16.81 | 16.73 | 17.00              |
| 15              | QPSK       | 36      | 39        | ANT0    | FULL      | 16.63 | 16.61 | 16.71 | 16.86 | 16.77 | 17.00              |
| 15              | QPSK       | 75      | 0         | ANT0    | FULL      | 16.65 | 16.70 | 16.71 | 16.79 | 16.68 | 17.00              |
| 15              | 16QAM      | 1       | 0         | ANT0    | FULL      | 16.73 | 16.77 | 16.49 | 16.83 | 16.68 | 17.00              |
| 15              | 16QAM      | 1       | 37        | ANT0    | FULL      | 16.63 | 16.41 | 16.51 | 16.78 | 16.72 | 17.00              |
| 15              | 16QAM      | 1       | 74        | ANT0    | FULL      | 16.94 | 16.90 | 16.49 | 16.98 | 16.83 | 17.00              |
| 15              | 16QAM      | 36      | 0         | ANT0    | FULL      | 15.85 | 15.67 | 15.75 | 15.78 | 15.67 | 16.00              |
| 15              | 16QAM      | 36      | 19        | ANT0    | FULL      | 15.74 | 15.84 | 15.70 | 15.84 | 15.69 | 16.00              |
| 15              | 16QAM      | 36      | 39        | ANT0    | FULL      | 15.68 | 15.82 | 15.75 | 15.81 | 15.78 | 16.00              |
| 15              | 16QAM      | 75      | 0         | ANT0    | FULL      | 15.72 | 15.69 | 15.49 | 15.80 | 15.76 | 16.00              |

| Band            |            |         |           | LTE B41 |           |       |       |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 39750 | 40185 | 40620 | 41055 | 41490 | Tune-up power(dBm) |
| 20              | QPSK       | 1       | 0         | ANT0    | FULL      | 17.77 | 17.82 | 17.51 | 17.95 | 17.75 | 18.00              |
| 20              | QPSK       | 1       | 49        | ANT0    | FULL      | 17.50 | 17.42 | 17.95 | 17.89 | 17.78 | 18.00              |
| 20              | QPSK       | 1       | 99        | ANT0    | FULL      | 17.85 | 17.76 | 17.61 | 17.92 | 17.89 | 18.00              |
| 20              | QPSK       | 50      | 0         | ANT0    | FULL      | 16.94 | 16.89 | 16.97 | 16.74 | 16.70 | 17.00              |
| 20              | QPSK       | 50      | 25        | ANT0    | FULL      | 16.73 | 16.81 | 16.63 | 16.81 | 16.74 | 17.00              |
| 20              | QPSK       | 50      | 50        | ANT0    | FULL      | 16.76 | 16.66 | 16.65 | 16.86 | 16.74 | 17.00              |
| 20              | QPSK       | 100     | 0         | ANT0    | FULL      | 16.74 | 16.81 | 16.95 | 16.79 | 16.73 | 17.00              |
| 20              | 16QAM      | 1       | 0         | ANT0    | FULL      | 16.80 | 16.80 | 16.51 | 16.83 | 16.93 | 17.00              |
| 20              | 16QAM      | 1       | 49        | ANT0    | FULL      | 16.55 | 16.48 | 16.60 | 16.78 | 16.89 | 17.00              |
| 20              | 16QAM      | 1       | 99        | ANT0    | FULL      | 16.98 | 16.97 | 16.63 | 16.98 | 16.88 | 17.00              |
| 20              | 16QAM      | 50      | 0         | ANT0    | FULL      | 15.88 | 15.94 | 15.67 | 15.78 | 15.71 | 16.00              |
| 20              | 16QAM      | 50      | 25        | ANT0    | FULL      | 15.75 | 15.87 | 15.70 | 15.84 | 15.75 | 16.00              |
| 20              | 16QAM      | 50      | 50        | ANT0    | FULL      | 15.77 | 15.89 | 15.67 | 15.81 | 15.75 | 16.00              |
| 20              | 16QAM      | 100     | 0         | ANT0    | FULL      | 15.64 | 15.69 | 15.63 | 15.80 | 15.76 | 16.00              |

| Band            |            |         |           | LTE B42 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 41615 | 42590 | 43565 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0    | FULL      | 13.22 | 12.89 | 13.14 | 14.00              |
| 5               | QPSK       | 1       | 12        | ANT0    | FULL      | 12.92 | 12.74 | 12.83 | 14.00              |
| 5               | QPSK       | 1       | 24        | ANT0    | FULL      | 13.01 | 12.75 | 13.00 | 14.00              |
| 5               | QPSK       | 12      | 0         | ANT0    | FULL      | 11.94 | 11.75 | 12.13 | 13.00              |
| 5               | QPSK       | 12      | 6         | ANT0    | FULL      | 11.85 | 11.94 | 11.99 | 13.00              |
| 5               | QPSK       | 12      | 13        | ANT0    | FULL      | 11.74 | 11.71 | 11.78 | 13.00              |
| 5               | QPSK       | 25      | 0         | ANT0    | FULL      | 11.73 | 11.78 | 12.03 | 13.00              |
| 5               | 16QAM      | 1       | 0         | ANT0    | FULL      | 12.36 | 11.93 | 12.13 | 13.00              |
| 5               | 16QAM      | 1       | 12        | ANT0    | FULL      | 12.32 | 11.97 | 11.82 | 13.00              |
| 5               | 16QAM      | 1       | 24        | ANT0    | FULL      | 11.99 | 11.98 | 11.93 | 13.00              |
| 5               | 16QAM      | 12      | 0         | ANT0    | FULL      | 10.74 | 10.93 | 11.11 | 12.00              |
| 5               | 16QAM      | 12      | 6         | ANT0    | FULL      | 10.94 | 10.68 | 11.03 | 12.00              |
| 5               | 16QAM      | 12      | 13        | ANT0    | FULL      | 10.81 | 10.93 | 10.97 | 12.00              |
| 5               | 16QAM      | 25      | 0         | ANT0    | FULL      | 10.89 | 10.89 | 11.05 | 12.00              |

| Band            |            |         |           | LTE B42 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 41640 | 42590 | 43540 | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0    | FULL      | 12.97 | 12.89 | 13.13 | 14.00              |
| 10              | QPSK       | 1       | 24        | ANT0    | FULL      | 12.98 | 12.96 | 12.91 | 14.00              |
| 10              | QPSK       | 1       | 49        | ANT0    | FULL      | 13.10 | 12.97 | 12.82 | 14.00              |
| 10              | QPSK       | 25      | 0         | ANT0    | FULL      | 12.06 | 11.73 | 11.92 | 13.00              |
| 10              | QPSK       | 25      | 12        | ANT0    | FULL      | 11.85 | 11.76 | 11.96 | 13.00              |
| 10              | QPSK       | 25      | 25        | ANT0    | FULL      | 11.72 | 11.81 | 11.98 | 13.00              |
| 10              | QPSK       | 50      | 0         | ANT0    | FULL      | 11.75 | 11.88 | 12.02 | 13.00              |
| 10              | 16QAM      | 1       | 0         | ANT0    | FULL      | 12.12 | 11.90 | 12.01 | 13.00              |
| 10              | 16QAM      | 1       | 24        | ANT0    | FULL      | 12.09 | 12.02 | 11.91 | 13.00              |
| 10              | 16QAM      | 1       | 49        | ANT0    | FULL      | 12.02 | 12.08 | 11.77 | 13.00              |
| 10              | 16QAM      | 25      | 0         | ANT0    | FULL      | 10.87 | 10.76 | 11.03 | 12.00              |
| 10              | 16QAM      | 25      | 12        | ANT0    | FULL      | 11.07 | 10.91 | 11.18 | 12.00              |
| 10              | 16QAM      | 25      | 25        | ANT0    | FULL      | 11.01 | 10.82 | 10.94 | 12.00              |
| 10              | 16QAM      | 50      | 0         | ANT0    | FULL      | 10.89 | 10.71 | 11.10 | 12.00              |

| Band            |            |         |           | LTE B42 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 41665 | 42590 | 43515 | Tune-up power(dBm) |
| 15              | QPSK       | 1       | 0         | ANT0    | FULL      | 13.10 | 12.71 | 13.09 | 14.00              |
| 15              | QPSK       | 1       | 37        | ANT0    | FULL      | 13.05 | 12.80 | 13.03 | 14.00              |
| 15              | QPSK       | 1       | 74        | ANT0    | FULL      | 12.85 | 12.82 | 12.87 | 14.00              |
| 15              | QPSK       | 36      | 0         | ANT0    | FULL      | 12.03 | 11.83 | 11.94 | 13.00              |
| 15              | QPSK       | 36      | 19        | ANT0    | FULL      | 11.85 | 11.75 | 11.98 | 13.00              |
| 15              | QPSK       | 36      | 39        | ANT0    | FULL      | 11.83 | 11.80 | 11.84 | 13.00              |
| 15              | QPSK       | 75      | 0         | ANT0    | FULL      | 11.74 | 11.95 | 12.15 | 13.00              |
| 15              | 16QAM      | 1       | 0         | ANT0    | FULL      | 12.10 | 11.89 | 12.17 | 13.00              |
| 15              | 16QAM      | 1       | 37        | ANT0    | FULL      | 12.25 | 11.89 | 11.81 | 13.00              |
| 15              | 16QAM      | 1       | 74        | ANT0    | FULL      | 12.14 | 11.87 | 11.99 | 13.00              |
| 15              | 16QAM      | 36      | 0         | ANT0    | FULL      | 10.80 | 10.76 | 11.01 | 12.00              |
| 15              | 16QAM      | 36      | 19        | ANT0    | FULL      | 11.02 | 10.84 | 11.03 | 12.00              |
| 15              | 16QAM      | 36      | 39        | ANT0    | FULL      | 10.93 | 10.82 | 10.85 | 12.00              |
| 15              | 16QAM      | 75      | 0         | ANT0    | FULL      | 10.87 | 10.69 | 11.05 | 12.00              |

| Band            |            |         |           | LTE B42 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 41690 | 42590 | 43490 | Tune-up power(dBm) |
| 20              | QPSK       | 1       | 0         | ANT0    | FULL      | 13.09 | 12.81 | 13.04 | 14.00              |
| 20              | QPSK       | 1       | 49        | ANT0    | FULL      | 13.01 | 12.83 | 12.88 | 14.00              |
| 20              | QPSK       | 1       | 99        | ANT0    | FULL      | 12.99 | 13.15 | 12.89 | 14.00              |
| 20              | QPSK       | 50      | 0         | ANT0    | FULL      | 11.94 | 12.05 | 12.04 | 13.00              |
| 20              | QPSK       | 50      | 25        | ANT0    | FULL      | 11.97 | 11.90 | 12.03 | 13.00              |
| 20              | QPSK       | 50      | 50        | ANT0    | FULL      | 11.85 | 11.85 | 11.90 | 13.00              |
| 20              | QPSK       | 100     | 0         | ANT0    | FULL      | 11.88 | 12.03 | 12.02 | 13.00              |
| 20              | 16QAM      | 1       | 0         | ANT0    | FULL      | 12.24 | 11.92 | 12.05 | 13.00              |
| 20              | 16QAM      | 1       | 49        | ANT0    | FULL      | 12.22 | 11.99 | 11.88 | 13.00              |
| 20              | 16QAM      | 1       | 99        | ANT0    | FULL      | 12.14 | 11.98 | 11.85 | 13.00              |
| 20              | 16QAM      | 50      | 0         | ANT0    | FULL      | 10.87 | 10.80 | 11.04 | 12.00              |
| 20              | 16QAM      | 50      | 25        | ANT0    | FULL      | 10.94 | 10.82 | 11.10 | 12.00              |
| 20              | 16QAM      | 50      | 50        | ANT0    | FULL      | 10.87 | 10.84 | 10.94 | 12.00              |
| 20              | 16QAM      | 100     | 0         | ANT0    | FULL      | 10.84 | 10.82 | 11.02 | 12.00              |

| Band            |            |         |           | LTE B43 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 43615 | 44590 | 45565 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0    | FULL      | 13.02 | 12.77 | 13.08 | 14.00              |
| 5               | QPSK       | 1       | 12        | ANT0    | FULL      | 12.78 | 12.77 | 13.11 | 14.00              |
| 5               | QPSK       | 1       | 24        | ANT0    | FULL      | 12.82 | 12.78 | 12.96 | 14.00              |
| 5               | QPSK       | 12      | 0         | ANT0    | FULL      | 11.76 | 11.58 | 11.94 | 13.00              |
| 5               | QPSK       | 12      | 6         | ANT0    | FULL      | 11.98 | 11.62 | 12.11 | 13.00              |
| 5               | QPSK       | 12      | 13        | ANT0    | FULL      | 11.95 | 11.51 | 11.95 | 13.00              |
| 5               | QPSK       | 25      | 0         | ANT0    | FULL      | 11.94 | 11.59 | 11.90 | 13.00              |
| 5               | 16QAM      | 1       | 0         | ANT0    | FULL      | 11.88 | 11.89 | 11.98 | 13.00              |
| 5               | 16QAM      | 1       | 12        | ANT0    | FULL      | 11.90 | 11.82 | 12.05 | 13.00              |
| 5               | 16QAM      | 1       | 24        | ANT0    | FULL      | 11.61 | 12.04 | 12.27 | 13.00              |
| 5               | 16QAM      | 12      | 0         | ANT0    | FULL      | 10.69 | 10.54 | 11.01 | 12.00              |
| 5               | 16QAM      | 12      | 6         | ANT0    | FULL      | 10.80 | 10.55 | 11.06 | 12.00              |
| 5               | 16QAM      | 12      | 13        | ANT0    | FULL      | 10.72 | 10.56 | 10.99 | 12.00              |
| 5               | 16QAM      | 25      | 0         | ANT0    | FULL      | 10.86 | 10.47 | 11.00 | 12.00              |

| Band            |            |         |           | LTE B43 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 43640 | 44590 | 45540 | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0    | FULL      | 13.05 | 12.58 | 13.07 | 14.00              |
| 10              | QPSK       | 1       | 24        | ANT0    | FULL      | 12.71 | 12.80 | 12.90 | 14.00              |
| 10              | QPSK       | 1       | 49        | ANT0    | FULL      | 12.83 | 12.90 | 13.06 | 14.00              |
| 10              | QPSK       | 25      | 0         | ANT0    | FULL      | 11.99 | 11.64 | 11.99 | 13.00              |
| 10              | QPSK       | 25      | 12        | ANT0    | FULL      | 11.88 | 11.57 | 11.91 | 13.00              |
| 10              | QPSK       | 25      | 25        | ANT0    | FULL      | 11.88 | 11.66 | 12.03 | 13.00              |
| 10              | QPSK       | 50      | 0         | ANT0    | FULL      | 11.82 | 11.54 | 12.11 | 13.00              |
| 10              | 16QAM      | 1       | 0         | ANT0    | FULL      | 11.79 | 11.76 | 11.97 | 13.00              |
| 10              | 16QAM      | 1       | 24        | ANT0    | FULL      | 11.86 | 11.88 | 12.00 | 13.00              |
| 10              | 16QAM      | 1       | 49        | ANT0    | FULL      | 11.61 | 12.00 | 12.21 | 13.00              |
| 10              | 16QAM      | 25      | 0         | ANT0    | FULL      | 10.93 | 10.49 | 10.94 | 12.00              |
| 10              | 16QAM      | 25      | 12        | ANT0    | FULL      | 10.86 | 10.65 | 10.99 | 12.00              |
| 10              | 16QAM      | 25      | 25        | ANT0    | FULL      | 10.82 | 10.69 | 11.01 | 12.00              |
| 10              | 16QAM      | 50      | 0         | ANT0    | FULL      | 10.83 | 10.63 | 11.05 | 12.00              |

| Band            |            |         |           | LTE B43 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 43665 | 44590 | 45515 | Tune-up power(dBm) |
| 15              | QPSK       | 1       | 0         | ANT0    | FULL      | 12.94 | 12.60 | 13.03 | 14.00              |
| 15              | QPSK       | 1       | 37        | ANT0    | FULL      | 12.74 | 12.76 | 13.14 | 14.00              |
| 15              | QPSK       | 1       | 74        | ANT0    | FULL      | 12.86 | 12.81 | 13.17 | 14.00              |
| 15              | QPSK       | 36      | 0         | ANT0    | FULL      | 11.95 | 11.43 | 12.04 | 13.00              |
| 15              | QPSK       | 36      | 19        | ANT0    | FULL      | 11.97 | 11.69 | 12.17 | 13.00              |
| 15              | QPSK       | 36      | 39        | ANT0    | FULL      | 11.88 | 11.62 | 12.00 | 13.00              |
| 15              | QPSK       | 75      | 0         | ANT0    | FULL      | 11.96 | 11.55 | 11.97 | 13.00              |
| 15              | 16QAM      | 1       | 0         | ANT0    | FULL      | 11.94 | 11.76 | 12.08 | 13.00              |
| 15              | 16QAM      | 1       | 37        | ANT0    | FULL      | 11.70 | 11.72 | 12.15 | 13.00              |
| 15              | 16QAM      | 1       | 74        | ANT0    | FULL      | 11.79 | 11.83 | 12.23 | 13.00              |
| 15              | 16QAM      | 36      | 0         | ANT0    | FULL      | 10.69 | 10.71 | 11.02 | 12.00              |
| 15              | 16QAM      | 36      | 19        | ANT0    | FULL      | 10.72 | 10.67 | 11.14 | 12.00              |
| 15              | 16QAM      | 36      | 39        | ANT0    | FULL      | 10.85 | 10.62 | 11.11 | 12.00              |
| 15              | 16QAM      | 75      | 0         | ANT0    | FULL      | 10.84 | 10.61 | 11.11 | 12.00              |

| Band            |            |         |           | LTE B43 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 43690 | 44590 | 45490 | Tune-up power(dBm) |
| 20              | QPSK       | 1       | 0         | ANT0    | FULL      | 12.93 | 13.11 | 13.00 | 14.00              |
| 20              | QPSK       | 1       | 49        | ANT0    | FULL      | 12.84 | 12.67 | 13.03 | 14.00              |
| 20              | QPSK       | 1       | 99        | ANT0    | FULL      | 12.84 | 12.77 | 13.09 | 14.00              |
| 20              | QPSK       | 50      | 0         | ANT0    | FULL      | 11.85 | 12.04 | 11.98 | 13.00              |
| 20              | QPSK       | 50      | 25        | ANT0    | FULL      | 11.88 | 11.62 | 12.02 | 13.00              |
| 20              | QPSK       | 50      | 50        | ANT0    | FULL      | 11.87 | 11.65 | 12.03 | 13.00              |
| 20              | QPSK       | 100     | 0         | ANT0    | FULL      | 11.87 | 12.08 | 12.02 | 13.00              |
| 20              | 16QAM      | 1       | 0         | ANT0    | FULL      | 11.89 | 11.88 | 12.06 | 13.00              |
| 20              | 16QAM      | 1       | 49        | ANT0    | FULL      | 11.82 | 11.87 | 12.07 | 13.00              |
| 20              | 16QAM      | 1       | 99        | ANT0    | FULL      | 11.74 | 11.97 | 12.14 | 13.00              |
| 20              | 16QAM      | 50      | 0         | ANT0    | FULL      | 10.81 | 10.56 | 10.95 | 12.00              |
| 20              | 16QAM      | 50      | 25        | ANT0    | FULL      | 10.86 | 10.63 | 11.00 | 12.00              |
| 20              | 16QAM      | 50      | 50        | ANT0    | FULL      | 10.82 | 10.62 | 11.04 | 12.00              |
| 20              | 16QAM      | 100     | 0         | ANT0    | FULL      | 10.87 | 10.60 | 10.97 | 12.00              |

| Band            |            |         |           | LTE B48 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 55265 | 55990 | 56715 | Tune-up power(dBm) |
| 5               | QPSK       | 1       | 0         | ANT0    | FULL      | 11.54 | 11.44 | 11.78 | 13.00              |
| 5               | QPSK       | 1       | 12        | ANT0    | FULL      | 11.00 | 11.29 | 11.05 | 13.00              |
| 5               | QPSK       | 1       | 24        | ANT0    | FULL      | 11.12 | 11.08 | 11.10 | 13.00              |
| 5               | QPSK       | 12      | 0         | ANT0    | FULL      | 11.75 | 11.77 | 11.84 | 12.00              |
| 5               | QPSK       | 12      | 6         | ANT0    | FULL      | 10.34 | 10.18 | 10.13 | 12.00              |
| 5               | QPSK       | 12      | 13        | ANT0    | FULL      | 10.55 | 10.55 | 10.51 | 12.00              |
| 5               | QPSK       | 25      | 0         | ANT0    | FULL      | 10.67 | 10.72 | 10.98 | 12.00              |
| 5               | 16QAM      | 1       | 0         | ANT0    | FULL      | 10.98 | 10.70 | 10.99 | 12.00              |
| 5               | 16QAM      | 1       | 12        | ANT0    | FULL      | 10.19 | 10.20 | 10.03 | 12.00              |
| 5               | 16QAM      | 1       | 24        | ANT0    | FULL      | 10.25 | 10.30 | 10.12 | 12.00              |
| 5               | 16QAM      | 12      | 0         | ANT0    | FULL      | 9.23  | 9.02  | 9.06  | 11.00              |
| 5               | 16QAM      | 12      | 6         | ANT0    | FULL      | 9.64  | 9.75  | 9.80  | 11.00              |
| 5               | 16QAM      | 12      | 13        | ANT0    | FULL      | 9.56  | 9.61  | 9.54  | 11.00              |
| 5               | 16QAM      | 25      | 0         | ANT0    | FULL      | 9.56  | 9.79  | 9.83  | 11.00              |

| Band            |            |         |           | LTE B48 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 55290 | 55990 | 56690 | Tune-up power(dBm) |
| 10              | QPSK       | 1       | 0         | ANT0    | FULL      | 11.68 | 11.56 | 11.63 | 13.00              |
| 10              | QPSK       | 1       | 24        | ANT0    | FULL      | 11.13 | 11.01 | 11.13 | 13.00              |
| 10              | QPSK       | 1       | 49        | ANT0    | FULL      | 11.22 | 11.09 | 11.23 | 13.00              |
| 10              | QPSK       | 25      | 0         | ANT0    | FULL      | 11.86 | 11.64 | 11.68 | 12.00              |
| 10              | QPSK       | 25      | 12        | ANT0    | FULL      | 10.11 | 10.11 | 10.04 | 12.00              |
| 10              | QPSK       | 25      | 25        | ANT0    | FULL      | 10.59 | 10.72 | 10.62 | 12.00              |
| 10              | QPSK       | 50      | 0         | ANT0    | FULL      | 10.49 | 10.78 | 10.76 | 12.00              |
| 10              | 16QAM      | 1       | 0         | ANT0    | FULL      | 10.90 | 10.82 | 10.83 | 12.00              |
| 10              | 16QAM      | 1       | 24        | ANT0    | FULL      | 10.22 | 10.10 | 10.09 | 12.00              |
| 10              | 16QAM      | 1       | 49        | ANT0    | FULL      | 10.02 | 10.25 | 10.09 | 12.00              |
| 10              | 16QAM      | 25      | 0         | ANT0    | FULL      | 9.16  | 9.01  | 9.26  | 11.00              |
| 10              | 16QAM      | 25      | 12        | ANT0    | FULL      | 9.64  | 9.51  | 9.72  | 11.00              |
| 10              | 16QAM      | 25      | 25        | ANT0    | FULL      | 9.49  | 9.52  | 9.62  | 11.00              |
| 10              | 16QAM      | 50      | 0         | ANT0    | FULL      | 9.72  | 9.67  | 10.01 | 11.00              |

| Band            |            |         |           | LTE B48 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 55315 | 55990 | 56665 | Tune-up power(dBm) |
| 15              | QPSK       | 1       | 0         | ANT0    | FULL      | 11.70 | 11.46 | 11.56 | 13.00              |
| 15              | QPSK       | 1       | 37        | ANT0    | FULL      | 11.25 | 11.14 | 11.21 | 13.00              |
| 15              | QPSK       | 1       | 74        | ANT0    | FULL      | 11.25 | 11.11 | 11.32 | 13.00              |
| 15              | QPSK       | 36      | 0         | ANT0    | FULL      | 11.91 | 11.65 | 11.92 | 12.00              |
| 15              | QPSK       | 36      | 19        | ANT0    | FULL      | 10.08 | 10.02 | 10.04 | 12.00              |
| 15              | QPSK       | 36      | 39        | ANT0    | FULL      | 10.60 | 10.67 | 10.74 | 12.00              |
| 15              | QPSK       | 75      | 0         | ANT0    | FULL      | 10.67 | 10.81 | 10.82 | 12.00              |
| 15              | 16QAM      | 1       | 0         | ANT0    | FULL      | 10.77 | 10.70 | 11.01 | 12.00              |
| 15              | 16QAM      | 1       | 37        | ANT0    | FULL      | 10.16 | 10.18 | 10.12 | 12.00              |
| 15              | 16QAM      | 1       | 74        | ANT0    | FULL      | 10.15 | 10.07 | 10.04 | 12.00              |
| 15              | 16QAM      | 36      | 0         | ANT0    | FULL      | 9.19  | 9.12  | 9.14  | 11.00              |
| 15              | 16QAM      | 36      | 19        | ANT0    | FULL      | 9.55  | 9.71  | 9.64  | 11.00              |
| 15              | 16QAM      | 36      | 39        | ANT0    | FULL      | 9.69  | 9.59  | 9.69  | 11.00              |
| 15              | 16QAM      | 75      | 0         | ANT0    | FULL      | 9.54  | 9.70  | 9.93  | 11.00              |

| Band            |            |         |           | LTE B48 |           |       |       |       |                    |
|-----------------|------------|---------|-----------|---------|-----------|-------|-------|-------|--------------------|
| Bandwidth (MHz) | Modulation | RB Size | RB offset | ANT     | DSI State | 55340 | 55990 | 56640 | Tune-up power(dBm) |
| 20              | QPSK       | 1       | 0         | ANT0    | FULL      | 11.59 | 11.68 | 11.63 | 13.00              |
| 20              | QPSK       | 1       | 49        | ANT0    | FULL      | 11.11 | 11.15 | 11.20 | 13.00              |
| 20              | QPSK       | 1       | 99        | ANT0    | FULL      | 11.17 | 11.07 | 11.18 | 13.00              |
| 20              | QPSK       | 50      | 0         | ANT0    | FULL      | 11.78 | 11.82 | 11.78 | 12.00              |
| 20              | QPSK       | 50      | 25        | ANT0    | FULL      | 10.21 | 10.14 | 10.03 | 12.00              |
| 20              | QPSK       | 50      | 50        | ANT0    | FULL      | 10.65 | 10.67 | 10.66 | 12.00              |
| 20              | QPSK       | 100     | 0         | ANT0    | FULL      | 10.64 | 10.88 | 10.87 | 12.00              |
| 20              | 16QAM      | 1       | 0         | ANT0    | FULL      | 10.85 | 10.83 | 10.93 | 12.00              |
| 20              | 16QAM      | 1       | 49        | ANT0    | FULL      | 10.20 | 10.17 | 10.03 | 12.00              |
| 20              | 16QAM      | 1       | 99        | ANT0    | FULL      | 10.16 | 10.19 | 10.10 | 12.00              |
| 20              | 16QAM      | 50      | 0         | ANT0    | FULL      | 9.10  | 9.04  | 9.17  | 11.00              |
| 20              | 16QAM      | 50      | 25        | ANT0    | FULL      | 9.60  | 9.62  | 9.70  | 11.00              |
| 20              | 16QAM      | 50      | 50        | ANT0    | FULL      | 9.58  | 9.56  | 9.60  | 11.00              |
| 20              | 16QAM      | 100     | 0         | ANT0    | FULL      | 9.65  | 9.78  | 9.91  | 11.00              |

### 8.3 WIFI Output Power

| test Mode | Modulation | Channel number | Fre. (MHz) | Output power(dBm) |              |         | Tune up power(dBm) |       |         | SAR Test |      |         |
|-----------|------------|----------------|------------|-------------------|--------------|---------|--------------------|-------|---------|----------|------|---------|
|           |            |                |            | ANT1              | ANT2         | ANTMIMO | ANT1               | ANT2  | ANTMIMO | ANT1     | ANT2 | ANTMIMO |
| WIFI 2.4G | 11b        | 1              | 2412       | 10.88             | 10.36        | 13.64   | 11.50              | 11.50 | 14.50   | Yes      | Yes  | No      |
|           |            | 6              | 2437       | 11.05             | <b>10.55</b> | 13.82   | 11.50              | 11.50 | 14.50   | Yes      | Yes  | No      |
|           |            | 11             | 2462       | <b>11.08</b>      | 10.37        | 13.75   | 11.50              | 11.50 | 14.50   | Yes      | Yes  | No      |
|           | 11g        | 1              | 2412       | 10.72             | 11.45        | 14.11   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |            | 6              | 2437       | 11.04             | 10.88        | 13.97   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |            | 11             | 2462       | 10.83             | 10.90        | 13.88   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | HT20       | 1              | 2412       | 10.15             | 10.37        | 13.27   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |            | 6              | 2437       | 10.40             | 10.38        | 13.40   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |            | 11             | 2462       | 10.37             | 10.16        | 13.28   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | ax20       | 1              | 2412       | 9.55              | 9.94         | 12.76   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |            | 6              | 2437       | 9.78              | 9.52         | 12.66   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |            | 11             | 2462       | 9.68              | 9.59         | 12.65   | 11.50              | 11.50 | 14.50   | No       | No   | No      |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.  
 1) SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure.  
 2) According KDB 248227, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, OFDM SAR test is not required.  
 Adjusted SAR =  $0.625 * (14.13\text{mW}/14.13\text{mW}) = 0.625$  W/Kg, so 2.4G OFDM SAR test is not required.

| test Mode | Modulation | Channel number | Fre.(MHz) | Power Setting | Output power(dBm) |             |         | Tune up power(dBm) |      |         | SAR Test |      |         |
|-----------|------------|----------------|-----------|---------------|-------------------|-------------|---------|--------------------|------|---------|----------|------|---------|
|           |            |                |           |               | ANT1              | ANT2        | ANTMIMO | ANT1               | ANT2 | ANTMIMO | ANT1     | ANT2 | ANTMIMO |
| 5.2 WIFI  | 11a        | 36             | 5180      | 5             | 6.06              | 6.34        | 9.21    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 44             | 5220      | 5             | 6.10              | 6.13        | 9.13    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 48             | 5240      | 5             | 6.21              | 6.00        | 9.12    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           | 11n20      | 36             | 5180      | 5             | 6.02              | 6.18        | 9.11    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 44             | 5220      | 5             | 6.28              | 6.22        | 9.26    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 48             | 5240      | 5             | 6.14              | 5.96        | 9.06    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           | 11n40      | 38             | 5190      | 5             | 5.67              | 4.53        | 8.15    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 46             | 5230      | 5             | 6.44              | 4.83        | 8.72    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           | 11ac20     | 36             | 5180      | 5             | 6.50              | 6.42        | 9.47    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 44             | 5220      | 5             | 6.44              | 6.47        | 9.47    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 48             | 5240      | 5             | 6.12              | 5.83        | 8.99    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           | 11ac40     | 38             | 5190      | 5             | 6.42              | 6.35        | 9.40    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 46             | 5230      | 5             | 6.45              | 6.36        | 9.42    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           | 11ac80     | 42             | 5210      | 5             | 6.15              | 6.13        | 9.15    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 36             | 5180      | 5             | 6.30              | 6.10        | 9.21    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 44             | 5220      | 5             | 6.36              | 6.42        | 9.40    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           | 11ax20     | 48             | 5240      | 5             | 6.40              | 5.92        | 9.18    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 38             | 5190      | 5             | 6.06              | 5.71        | 8.90    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 46             | 5230      | 5             | 6.36              | 5.99        | 9.19    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           | 11ax80     | 42             | 5210      | 5             | 5.79              | 5.74        | 8.78    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
| 5.3 WIFI  | 11a        | 52             | 5260      | 5             | 6.27              | 6.43        | 9.36    | 6.50               | 6.50 | 9.50    | Yes      | Yes  | No      |
|           |            | 60             | 5300      | 5             | 6.42              | 6.49        | 9.47    | 6.50               | 6.50 | 9.50    | Yes      | Yes  | No      |
|           |            | 64             | 5320      | 5             | 6.28              | 6.37        | 9.34    | 6.50               | 6.50 | 9.50    | Yes      | Yes  | No      |
|           | 11n20      | 52             | 5260      | 5             | 6.08              | 5.70        | 8.90    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 60             | 5300      | 5             | 6.30              | 6.35        | 9.34    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 64             | 5320      | 5             | 6.30              | 6.35        | 9.34    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           | 11n40      | 54             | 5270      | 5             | 6.47              | 5.28        | 8.93    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 62             | 5310      | 5             | 6.15              | 5.44        | 8.82    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           | 11ac20     | 52             | 5260      | 5             | 6.46              | 6.40        | 9.44    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 60             | 5300      | 5             | 6.42              | 6.50        | 9.47    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 64             | 5320      | 5             | 6.03              | 6.18        | 9.12    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           | 11ac40     | 54             | 5270      | 5             | 6.38              | 6.39        | 9.40    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 62             | 5310      | 5             | 6.31              | 5.38        | 8.88    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           | 11ac80     | 58             | 5290      | 5             | <b>5.60</b>       | <b>5.21</b> | 8.42    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 52             | 5260      | 5             | 6.13              | 6.31        | 9.23    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 60             | 5300      | 5             | 6.41              | 6.27        | 9.35    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           | 11ax20     | 64             | 5320      | 5             | 6.42              | 6.08        | 9.26    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 54             | 5270      | 5             | 6.37              | 5.98        | 9.19    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           |            | 62             | 5310      | 5             | 6.17              | 5.68        | 8.94    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
|           | 11ax80     | 58             | 5290      | 5             | 5.55              | 5.01        | 8.30    | 6.50               | 6.50 | 9.50    | No       | No   | No      |
| 5.6G WIFI | 11a        | 100            | 5500      | 6             | 5.77              | <b>5.60</b> | 8.70    | 6.00               | 6.00 | 9.00    | Yes      | Yes  | No      |
|           |            | 116            | 5580      | 6             | 5.93              | 5.39        | 8.68    | 6.00               | 6.00 | 9.00    | Yes      | Yes  | No      |
|           |            | 140            | 5700      | 6             | <b>5.78</b>       | 4.15        | 8.05    | 6.00               | 6.00 | 9.00    | Yes      | Yes  | No      |
|           | 11n20      | 100            | 5500      | 6             | 5.98              | 5.70        | 8.85    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           |            | 116            | 5580      | 6             | 5.94              | 4.78        | 8.41    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           |            | 140            | 5700      | 6             | 5.71              | 4.42        | 8.12    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           | 11n40      | 102            | 5510      | 6             | 5.98              | 5.14        | 8.59    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           |            | 118            | 5590      | 6             | 5.98              | 4.24        | 8.21    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           |            | 134            | 5670      | 6             | 5.84              | 4.05        | 8.05    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           | 11ac20     | 100            | 5500      | 6             | 5.88              | 5.71        | 8.81    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           |            | 116            | 5580      | 6             | 5.99              | 4.98        | 8.52    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           |            | 140            | 5700      | 6             | 5.88              | 4.03        | 8.06    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           | 11ac40     | 102            | 5510      | 6             | 5.87              | 5.04        | 8.49    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           |            | 118            | 5590      | 6             | 5.98              | 4.39        | 8.27    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           |            | 134            | 5670      | 6             | 5.91              | 4.15        | 8.13    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           | 11ac80     | 106            | 5530      | 6             | 5.82              | <b>5.12</b> | 8.49    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           |            | 122            | 5610      | 6             | <b>5.91</b>       | 4.75        | 8.38    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           |            | 100            | 5500      | 6             | 5.51              | 5.10        | 8.32    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           | 11ax20     | 116            | 5580      | 6             | 5.97              | 5.58        | 8.79    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           |            | 140            | 5700      | 6             | 5.98              | 4.03        | 8.12    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           | 11ax40     | 102            | 5510      | 6             | 5.90              | 5.17        | 8.56    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           |            | 118            | 5590      | 6             | 5.78              | 4.26        | 8.10    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           |            | 134            | 5670      | 6             | 5.99              | 4.07        | 8.15    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           | 11ax80     | 106            | 5530      | 6             | 5.45              | 5.06        | 8.27    | 6.00               | 6.00 | 9.00    | No       | No   | No      |
|           |            | 122            | 5610      | 6             | 5.43              | 4.18        | 7.86    | 6.00               | 6.00 | 9.00    | No       | No   | No      |

|           |        |     |      |   |             |             |      |      |      |      |     |     |    |
|-----------|--------|-----|------|---|-------------|-------------|------|------|------|------|-----|-----|----|
| 5.8G WIFI | 11a    | 149 | 5745 | 6 | 5.59        | <b>4.21</b> | 7.96 | 6.00 | 6.00 | 9.00 | Yes | Yes | No |
|           |        | 157 | 5785 | 6 | <b>5.95</b> | 4.17        | 8.16 | 6.00 | 6.00 | 9.00 | Yes | Yes | No |
|           |        | 165 | 5825 | 6 | 5.89        | 4.15        | 8.12 | 6.00 | 6.00 | 9.00 | Yes | Yes | No |
|           | 11n20  | 149 | 5745 | 6 | 5.94        | 4.39        | 8.24 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           |        | 157 | 5785 | 6 | 5.96        | 4.22        | 8.19 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           |        | 165 | 5825 | 6 | 5.94        | 4.34        | 8.22 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           | 11n40  | 151 | 5755 | 6 | 5.62        | 4.02        | 7.90 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           |        | 159 | 5795 | 6 | 5.98        | 4.15        | 8.17 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           |        | 149 | 5745 | 6 | 5.69        | 4.13        | 7.99 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           | 11ac20 | 157 | 5785 | 6 | 5.97        | 4.17        | 8.17 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           |        | 165 | 5825 | 6 | 5.56        | 4.03        | 7.87 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           |        | 151 | 5755 | 6 | 5.94        | 4.48        | 8.28 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           | 11ac40 | 159 | 5795 | 6 | 5.96        | 4.01        | 8.10 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           | 11ac80 | 155 | 5775 | 6 | 5.79        | 4.07        | 8.02 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           |        | 149 | 5745 | 6 | 5.56        | 4.14        | 7.92 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           |        | 157 | 5785 | 6 | 5.71        | 4.08        | 7.98 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           | 11ax20 | 165 | 5825 | 6 | 5.69        | 4.12        | 7.99 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           |        | 151 | 5755 | 6 | 5.67        | 4.15        | 7.99 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           |        | 159 | 5795 | 6 | 5.97        | 4.04        | 8.12 | 6.00 | 6.00 | 9.00 | No  | No  | No |
|           | 11ax40 | 155 | 5775 | 6 | 5.48        | 4.12        | 7.86 | 6.00 | 6.00 | 9.00 | No  | No  | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

2) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power.

3) When multiple transmission modes (802.11a/n/ac/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac.

## 8.4 Bluetooth

### 8.4.1 Bluetooth Output Power

| Bluetooth                                                                                                                                                                                                                                                       |            |           |                      |                    |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|----------------------|--------------------|----------|
| test Mode                                                                                                                                                                                                                                                       | Modulation | Fre.(MHz) | AV output power(dBm) | Tune up power(dBm) | SAR Test |
| BT                                                                                                                                                                                                                                                              | DH5        | 2402      | 3.03                 | 5.00               | Yes      |
|                                                                                                                                                                                                                                                                 |            | 2441      | <b>3.48</b>          | 5.00               | Yes      |
|                                                                                                                                                                                                                                                                 |            | 2480      | 2.87                 | 5.00               | Yes      |
|                                                                                                                                                                                                                                                                 | 2DH5       | 2402      | 3.65                 | 5.00               | No       |
|                                                                                                                                                                                                                                                                 |            | 2441      | 3.94                 | 5.00               | No       |
|                                                                                                                                                                                                                                                                 |            | 2480      | 2.57                 | 5.00               | No       |
|                                                                                                                                                                                                                                                                 | 3DH5       | 2402      | 3.45                 | 5.00               | No       |
|                                                                                                                                                                                                                                                                 |            | 2441      | 3.98                 | 5.00               | No       |
|                                                                                                                                                                                                                                                                 |            | 2480      | 2.54                 | 5.00               | No       |
|                                                                                                                                                                                                                                                                 | BLE1M      | 2402      | 3.86                 | 5.00               | No       |
|                                                                                                                                                                                                                                                                 |            | 2440      | 3.93                 | 5.00               | No       |
|                                                                                                                                                                                                                                                                 |            | 2480      | 3.24                 | 5.00               | No       |
| Note: Since bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation,and SAR measurement is not required for the EDR and LE. When the secondary mode is ≤ ¼ dB higher than the primary mode. |            |           |                      |                    |          |

## 8.4.2 Bluetooth Duty Cycle

The Bluetooth duty cycle is 77.37% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle

