

## Appendix B: Test Data For E-UTRA Band 4

### B.1: RF Output Power

#### Channel Bandwidth: 1.4 MHz

| Channel Bandwidth 1.4 MHz |         |                  |        |                     |               | Verdict |  |
|---------------------------|---------|------------------|--------|---------------------|---------------|---------|--|
| Modulation                | Channel | RB Configuration |        | Average Power [dBm] | E.i.r.p [dBm] |         |  |
|                           |         | Size             | Offset |                     |               |         |  |
| QPSK                      | LCH     | 1                | 0      | 21.92               |               | PASS    |  |
|                           |         | 1                | 3      | 22.36               |               | PASS    |  |
|                           |         | 1                | 5      | 22.44               |               | PASS    |  |
|                           |         | 3                | 0      | 22.14               |               | PASS    |  |
|                           |         | 3                | 2      | 21.56               |               | PASS    |  |
|                           |         | 3                | 3      | 22.33               |               | PASS    |  |
|                           |         | 6                | 0      | 21.98               |               | PASS    |  |
|                           | MCH     | 1                | 0      | 22.13               |               | PASS    |  |
|                           |         | 1                | 3      | 21.80               |               | PASS    |  |
|                           |         | 1                | 5      | 22.27               |               | PASS    |  |
|                           |         | 3                | 0      | 21.60               |               | PASS    |  |
|                           |         | 3                | 2      | 21.77               |               | PASS    |  |
|                           |         | 3                | 3      | 21.90               |               | PASS    |  |
|                           |         | 6                | 0      | 21.68               |               | PASS    |  |
| 16QAM                     | LCH     | 1                | 0      | 22.26               |               | PASS    |  |
|                           |         | 1                | 3      | 22.45               |               | PASS    |  |
|                           |         | 1                | 5      | 21.68               |               | PASS    |  |
|                           |         | 3                | 0      | 22.13               |               | PASS    |  |
|                           |         | 3                | 2      | 22.11               |               | PASS    |  |
|                           |         | 3                | 3      | 21.14               |               | PASS    |  |
|                           |         | 6                | 0      | 21.74               |               | PASS    |  |
|                           | MCH     | 1                | 0      | 20.64               |               | PASS    |  |
|                           |         | 1                | 3      | 20.52               |               | PASS    |  |
|                           |         | 1                | 5      | 21.37               |               | PASS    |  |
|                           |         | 3                | 0      | 21.20               |               | PASS    |  |
|                           |         | 3                | 2      | 20.51               |               | PASS    |  |
|                           |         | 3                | 3      | 21.00               |               | PASS    |  |
|                           |         | 6                | 0      | 21.14               |               | PASS    |  |

|  |     |   |   |       |  |      |
|--|-----|---|---|-------|--|------|
|  | HCH | 1 | 0 | 20.97 |  | PASS |
|  |     | 1 | 3 | 21.23 |  | PASS |
|  |     | 1 | 5 | 21.12 |  | PASS |
|  |     | 3 | 0 | 21.04 |  | PASS |
|  |     | 3 | 2 | 21.09 |  | PASS |
|  |     | 3 | 3 | 20.05 |  | PASS |
|  |     | 6 | 0 | 20.56 |  | PASS |

**Channel Bandwidth: 3 MHz**

| Channel Bandwidth 3 MHz |         |                  |        |                     |               |         |
|-------------------------|---------|------------------|--------|---------------------|---------------|---------|
| Modulation              | Channel | RB Configuration |        | Average Power [dBm] | E.i.r.p [dBm] | Verdict |
|                         |         | Size             | Offset |                     |               |         |
| QPSK                    | LCH     | 1                | 0      | 21.97               |               | PASS    |
|                         |         | 1                | 7      | 21.60               |               | PASS    |
|                         |         | 1                | 14     | 22.33               |               | PASS    |
|                         |         | 8                | 0      | 21.92               |               | PASS    |
|                         |         | 8                | 4      | 21.69               |               | PASS    |
|                         |         | 8                | 7      | 21.56               |               | PASS    |
|                         |         | 15               | 0      | 21.75               |               | PASS    |
|                         | MCH     | 1                | 0      | 21.62               |               | PASS    |
|                         |         | 1                | 7      | 22.04               |               | PASS    |
|                         |         | 1                | 14     | 22.50               |               | PASS    |
|                         |         | 8                | 0      | 21.68               |               | PASS    |
|                         |         | 8                | 4      | 22.37               |               | PASS    |
|                         |         | 8                | 7      | 21.63               |               | PASS    |
|                         |         | 15               | 0      | 22.26               |               | PASS    |
| 16QAM                   | HCH     | 1                | 0      | 22.22               |               | PASS    |
|                         |         | 1                | 7      | 22.13               |               | PASS    |
|                         |         | 1                | 14     | 22.32               |               | PASS    |
|                         |         | 8                | 0      | 22.09               |               | PASS    |
|                         |         | 8                | 4      | 21.79               |               | PASS    |
|                         |         | 8                | 7      | 21.89               |               | PASS    |
|                         |         | 15               | 0      | 21.07               |               | PASS    |
|                         | LCH     | 1                | 0      | 20.84               |               | PASS    |
|                         |         | 1                | 7      | 20.51               |               | PASS    |
|                         |         | 1                | 14     | 20.67               |               | PASS    |
|                         |         | 8                | 0      | 20.43               |               | PASS    |
|                         |         | 8                | 4      | 20.74               |               | PASS    |
|                         |         | 8                | 7      | 20.56               |               | PASS    |
|                         |         | 15               | 0      | 20.42               |               | PASS    |
|                         | MCH     | 1                | 0      | 20.55               |               | PASS    |
|                         |         | 1                | 7      | 21.20               |               | PASS    |

|  |     |    |    |       |  |      |
|--|-----|----|----|-------|--|------|
|  | HCH | 1  | 14 | 20.91 |  | PASS |
|  |     | 8  | 0  | 20.94 |  | PASS |
|  |     | 8  | 4  | 20.88 |  | PASS |
|  |     | 8  | 7  | 20.93 |  | PASS |
|  |     | 15 | 0  | 20.77 |  | PASS |
|  |     | 1  | 0  | 20.56 |  | PASS |
|  |     | 1  | 7  | 20.68 |  | PASS |
|  |     | 1  | 14 | 20.86 |  | PASS |
|  |     | 8  | 0  | 20.42 |  | PASS |
|  |     | 8  | 4  | 20.19 |  | PASS |
|  |     | 8  | 7  | 20.68 |  | PASS |
|  |     | 15 | 0  | 20.25 |  | PASS |

## Channel Bandwidth: 5 MHz

| Channel Bandwidth 5 MHz |         |                  |        |                     |               |         |
|-------------------------|---------|------------------|--------|---------------------|---------------|---------|
| Modulation              | Channel | RB Configuration |        | Average Power [dBm] | E.i.r.p [dBm] | Verdict |
|                         |         | Size             | Offset |                     |               |         |
| QPSK                    | LCH     | 1                | 0      | 22.28               |               | PASS    |
|                         |         | 1                | 12     | 22.19               |               | PASS    |
|                         |         | 1                | 24     | 21.85               |               | PASS    |
|                         |         | 12               | 0      | 21.54               |               | PASS    |
|                         |         | 12               | 6      | 21.25               |               | PASS    |
|                         |         | 12               | 13     | 21.49               |               | PASS    |
|                         |         | 25               | 0      | 21.01               |               | PASS    |
|                         | MCH     | 1                | 0      | 22.24               |               | PASS    |
|                         |         | 1                | 12     | 22.12               |               | PASS    |
|                         |         | 1                | 24     | 22.02               |               | PASS    |
|                         |         | 12               | 0      | 21.77               |               | PASS    |
|                         |         | 12               | 6      | 21.68               |               | PASS    |
|                         |         | 12               | 13     | 21.90               |               | PASS    |
|                         |         | 25               | 0      | 21.48               |               | PASS    |
|                         | HCH     | 1                | 0      | 21.93               |               | PASS    |
|                         |         | 1                | 12     | 22.20               |               | PASS    |
|                         |         | 1                | 24     | 22.14               |               | PASS    |
|                         |         | 12               | 0      | 21.77               |               | PASS    |
|                         |         | 12               | 6      | 21.82               |               | PASS    |
|                         |         | 12               | 13     | 21.81               |               | PASS    |
|                         |         | 25               | 0      | 21.23               |               | PASS    |
| 16QAM                   | LCH     | 1                | 0      | 21.84               |               | PASS    |
|                         |         | 1                | 12     | 21.25               |               | PASS    |
|                         |         | 1                | 24     | 21.13               |               | PASS    |
|                         |         | 12               | 0      | 21.45               |               | PASS    |

|  |     |    |    |       |  |      |
|--|-----|----|----|-------|--|------|
|  |     | 12 | 6  | 21.06 |  | PASS |
|  |     | 12 | 13 | 21.38 |  | PASS |
|  |     | 25 | 0  | 21.01 |  | PASS |
|  | MCH | 1  | 0  | 20.90 |  | PASS |
|  |     | 1  | 12 | 21.50 |  | PASS |
|  |     | 1  | 24 | 21.45 |  | PASS |
|  |     | 12 | 0  | 20.90 |  | PASS |
|  |     | 12 | 6  | 20.60 |  | PASS |
|  |     | 12 | 13 | 20.91 |  | PASS |
|  |     | 25 | 0  | 20.64 |  | PASS |
|  | HCH | 1  | 0  | 20.60 |  | PASS |
|  |     | 1  | 12 | 21.23 |  | PASS |
|  |     | 1  | 24 | 20.76 |  | PASS |
|  |     | 12 | 0  | 20.69 |  | PASS |
|  |     | 12 | 6  | 20.93 |  | PASS |
|  |     | 12 | 13 | 20.45 |  | PASS |
|  |     | 25 | 0  | 20.59 |  | PASS |

### Channel Bandwidth: 10 MHz

| Channel Bandwidth 10 MHz |         |                  |        |                     |               |         |
|--------------------------|---------|------------------|--------|---------------------|---------------|---------|
| Modulation               | Channel | RB Configuration |        | Average Power [dBm] | E.i.r.p [dBm] | Verdict |
|                          |         | Size             | Offset |                     |               |         |
| QPSK                     | LCH     | 1                | 0      | 21.96               |               | PASS    |
|                          |         | 1                | 24     | 22.27               |               | PASS    |
|                          |         | 1                | 49     | 22.32               |               | PASS    |
|                          |         | 25               | 0      | 21.47               |               | PASS    |
|                          |         | 25               | 12     | 21.38               |               | PASS    |
|                          |         | 25               | 25     | 21.80               |               | PASS    |
|                          |         | 50               | 0      | 21.28               |               | PASS    |
|                          | MCH     | 1                | 0      | 22.45               |               | PASS    |
|                          |         | 1                | 24     | 21.75               |               | PASS    |
|                          |         | 1                | 49     | 21.91               |               | PASS    |
|                          |         | 25               | 0      | 21.80               |               | PASS    |
|                          |         | 25               | 12     | 21.65               |               | PASS    |
|                          |         | 25               | 25     | 21.53               |               | PASS    |
|                          |         | 50               | 0      | 21.68               |               | PASS    |
|                          | HCH     | 1                | 0      | 22.11               |               | PASS    |
|                          |         | 1                | 24     | 21.70               |               | PASS    |
|                          |         | 1                | 49     | 22.36               |               | PASS    |
|                          |         | 25               | 0      | 21.81               |               | PASS    |
|                          |         | 25               | 12     | 21.69               |               | PASS    |
|                          |         | 25               | 25     | 21.84               |               | PASS    |

|       |     |    |    |       |  |      |
|-------|-----|----|----|-------|--|------|
|       |     | 50 | 0  | 21.47 |  | PASS |
| 16QAM | LCH | 1  | 0  | 20.91 |  | PASS |
|       |     | 1  | 24 | 20.89 |  | PASS |
|       |     | 1  | 49 | 21.25 |  | PASS |
|       |     | 25 | 0  | 20.84 |  | PASS |
|       |     | 25 | 12 | 20.96 |  | PASS |
|       |     | 25 | 25 | 20.76 |  | PASS |
|       |     | 50 | 0  | 20.66 |  | PASS |
|       | MCH | 1  | 0  | 20.58 |  | PASS |
|       |     | 1  | 24 | 21.17 |  | PASS |
|       |     | 1  | 49 | 21.07 |  | PASS |
|       |     | 25 | 0  | 20.42 |  | PASS |
|       |     | 25 | 12 | 20.46 |  | PASS |
|       |     | 25 | 25 | 20.18 |  | PASS |
|       |     | 50 | 0  | 20.27 |  | PASS |
|       | HCH | 1  | 0  | 21.43 |  | PASS |
|       |     | 1  | 24 | 21.30 |  | PASS |
|       |     | 1  | 49 | 21.28 |  | PASS |
|       |     | 25 | 0  | 20.96 |  | PASS |
|       |     | 25 | 12 | 20.60 |  | PASS |
|       |     | 25 | 25 | 20.25 |  | PASS |
|       |     | 50 | 0  | 20.45 |  | PASS |

### Channel Bandwidth: 15 MHz

| Channel Bandwidth 15 MHz |         |                  |        |                     |               |         |
|--------------------------|---------|------------------|--------|---------------------|---------------|---------|
| Modulation               | Channel | RB Configuration |        | Average Power [dBm] | E.i.r.p [dBm] | Verdict |
|                          |         | Size             | Offset |                     |               |         |
| QPSK                     | LCH     | 1                | 0      | 22.05               |               | PASS    |
|                          |         | 1                | 37     | 21.72               |               | PASS    |
|                          |         | 1                | 74     | 21.82               |               | PASS    |
|                          |         | 37               | 0      | 21.30               |               | PASS    |
|                          |         | 37               | 18     | 21.44               |               | PASS    |
|                          |         | 37               | 38     | 21.36               |               | PASS    |
|                          |         | 75               | 0      | 21.13               |               | PASS    |
|                          | MCH     | 1                | 0      | 22.22               |               | PASS    |
|                          |         | 1                | 37     | 22.04               |               | PASS    |
|                          |         | 1                | 74     | 21.74               |               | PASS    |
|                          |         | 37               | 0      | 21.93               |               | PASS    |
|                          |         | 37               | 18     | 21.92               |               | PASS    |
|                          |         | 37               | 38     | 21.89               |               | PASS    |
|                          |         | 75               | 0      | 21.60               |               | PASS    |
|                          | HCH     | 1                | 0      | 22.37               |               | PASS    |

|       |     |    |    |       |  |      |
|-------|-----|----|----|-------|--|------|
|       |     | 1  | 37 | 21.62 |  | PASS |
|       |     | 1  | 74 | 22.05 |  | PASS |
|       |     | 37 | 0  | 21.81 |  | PASS |
|       |     | 37 | 18 | 21.92 |  | PASS |
|       |     | 37 | 38 | 21.26 |  | PASS |
|       |     | 75 | 0  | 21.89 |  | PASS |
|       |     | 1  | 0  | 21.08 |  | PASS |
| 16QAM | LCH | 1  | 37 | 21.35 |  | PASS |
|       |     | 1  | 74 | 21.01 |  | PASS |
|       |     | 37 | 0  | 20.72 |  | PASS |
|       |     | 37 | 18 | 20.28 |  | PASS |
|       |     | 37 | 38 | 20.64 |  | PASS |
|       |     | 75 | 0  | 20.30 |  | PASS |
|       |     | 1  | 0  | 20.68 |  | PASS |
|       | MCH | 1  | 37 | 21.13 |  | PASS |
|       |     | 1  | 74 | 20.86 |  | PASS |
|       |     | 37 | 0  | 20.74 |  | PASS |
|       |     | 37 | 18 | 20.76 |  | PASS |
|       |     | 37 | 38 | 20.81 |  | PASS |
|       |     | 75 | 0  | 20.43 |  | PASS |
|       |     | 1  | 0  | 20.51 |  | PASS |
|       | HCH | 1  | 37 | 21.40 |  | PASS |
|       |     | 1  | 74 | 20.84 |  | PASS |
|       |     | 37 | 0  | 20.73 |  | PASS |
|       |     | 37 | 18 | 20.91 |  | PASS |
|       |     | 37 | 38 | 20.59 |  | PASS |
|       |     | 75 | 0  | 20.63 |  | PASS |
|       |     | 1  | 0  | 20.51 |  | PASS |

## Channel Bandwidth: 20 MHz

| Channel Bandwidth 20 MHz |         |                  |        |                     |               |         |
|--------------------------|---------|------------------|--------|---------------------|---------------|---------|
| Modulation               | Channel | RB Configuration |        | Average Power [dBm] | E.i.r.p [dBm] | Verdict |
|                          |         | Size             | Offset |                     |               |         |
| QPSK                     | LCH     | 1                | 0      | 21.89               |               | PASS    |
|                          |         | 1                | 49     | 22.06               |               | PASS    |
|                          |         | 1                | 99     | 22.19               |               | PASS    |
|                          |         | 50               | 0      | 21.89               |               | PASS    |
|                          |         | 50               | 25     | 21.66               |               | PASS    |
|                          |         | 50               | 50     | 21.64               |               | PASS    |
|                          |         | 100              | 0      | 21.75               |               | PASS    |
|                          | MCH     | 1                | 0      | 21.94               |               | PASS    |
|                          |         | 1                | 49     | 21.81               |               | PASS    |
|                          |         | 1                | 99     | 22.15               |               | PASS    |

|       |     |     |    |       |  |      |
|-------|-----|-----|----|-------|--|------|
|       | HCH | 50  | 0  | 21.66 |  | PASS |
|       |     | 50  | 25 | 21.32 |  | PASS |
|       |     | 50  | 50 | 21.89 |  | PASS |
|       |     | 100 | 0  | 21.55 |  | PASS |
|       |     | 1   | 0  | 22.36 |  | PASS |
|       |     | 1   | 49 | 22.27 |  | PASS |
|       |     | 1   | 99 | 21.55 |  | PASS |
|       |     | 50  | 0  | 21.53 |  | PASS |
|       |     | 50  | 25 | 21.92 |  | PASS |
|       |     | 50  | 50 | 21.94 |  | PASS |
| 16QAM | LCH | 100 | 0  | 21.63 |  | PASS |
|       |     | 1   | 0  | 21.12 |  | PASS |
|       |     | 1   | 49 | 20.66 |  | PASS |
|       |     | 1   | 99 | 20.70 |  | PASS |
|       |     | 50  | 0  | 20.44 |  | PASS |
|       |     | 50  | 25 | 20.45 |  | PASS |
|       |     | 50  | 50 | 20.09 |  | PASS |
|       | MCH | 100 | 0  | 20.19 |  | PASS |
|       |     | 1   | 0  | 20.77 |  | PASS |
|       |     | 1   | 49 | 20.90 |  | PASS |
|       |     | 1   | 99 | 20.54 |  | PASS |
|       |     | 50  | 0  | 20.18 |  | PASS |
|       |     | 50  | 25 | 20.73 |  | PASS |
|       |     | 50  | 50 | 20.21 |  | PASS |
|       | HCH | 100 | 0  | 20.44 |  | PASS |
|       |     | 1   | 0  | 21.00 |  | PASS |
|       |     | 1   | 49 | 21.35 |  | PASS |
|       |     | 1   | 99 | 21.37 |  | PASS |
|       |     | 50  | 0  | 20.48 |  | PASS |
|       |     | 50  | 25 | 20.44 |  | PASS |
|       |     | 50  | 50 | 20.14 |  | PASS |
|       |     | 100 | 0  | 20.46 |  | PASS |