



| Radiated Power (EIRP) for LTE Band 7 / 15M |               |         |         |                 |            |            |                  |                          |            |
|--|---------------|---------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                 | RB            |         | Channel | Result          |            |            |                  |                          | Conclusion |
|  | Size          | Offset  |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK                                       | 1             | 0       | Lowest  | 9.2             | 2.56       | 10.60      | 17.24            | Horizontal               | Pass       |
|  | 1             | 0       | Middle  | 9.54            | 2.67       | 10.65      | 17.52            | Horizontal               | Pass       |
|  | 1             | 0       | Highest | 9.12            | 2.72       | 10.70      | 17.10            | Horizontal               | Pass       |
|  | 1             | 0       | Lowest  | 10.54           | 2.56       | 10.60      | 18.58            | Vertical                 | Pass       |
|  | 1             | 0       | Middle  | 10.84           | 2.67       | 10.65      | 18.82            | Vertical                 | Pass       |
|  | 1             | 0       | Highest | 10.54           | 2.72       | 10.70      | 18.52            | Vertical                 | Pass       |
| 16QAM                                      | 1             | 0       | Lowest  | 8.93            | 2.56       | 10.60      | 16.97            | Horizontal               | Pass       |
|  | 1             | 0       | Middle  | 9.23            | 2.67       | 10.65      | 17.21            | Horizontal               | Pass       |
|  | 1             | 0       | Highest | 8.77            | 2.72       | 10.70      | 16.75            | Horizontal               | Pass       |
|  | 1             | 0       | Lowest  | 10.36           | 2.56       | 10.60      | 18.40            | Vertical                 | Pass       |
|  | 1             | 0       | Middle  | 10.53           | 2.67       | 10.65      | 18.51            | Vertical                 | Pass       |
| 1  | 0             | Highest | 10.14   | 2.72            | 10.70      | 18.12      | Vertical         | Pass                     |            |
| Limit                                      | EIRP<2W=33dBm |         |         |                 |            |            |                  |                          |            |

| Radiated Power (EIRP) for LTE Band 7 / 20M |               |         |         |                 |            |            |                  |                          |            |
|--|---------------|---------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                 | RB            |         | Channel | Result          |            |            |                  |                          | Conclusion |
|  | Size          | Offset  |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK                                       | 1             | 0       | Lowest  | 9.47            | 2.56       | 10.60      | 17.51            | Horizontal               | Pass       |
|  | 1             | 0       | Middle  | 9.7             | 2.67       | 10.65      | 17.68            | Horizontal               | Pass       |
|  | 1             | 0       | Highest | 9.59            | 2.72       | 10.70      | 17.57            | Horizontal               | Pass       |
|  | 1             | 0       | Lowest  | 10.94           | 2.56       | 10.60      | 18.98            | Vertical                 | Pass       |
|  | 1             | 0       | Middle  | 11.16           | 2.67       | 10.65      | 19.14            | Vertical                 | Pass       |
|  | 1             | 0       | Highest | 11.07           | 2.72       | 10.70      | 19.05            | Vertical                 | Pass       |
| 16QAM                                      | 1             | 0       | Lowest  | 9.25            | 2.56       | 10.60      | 17.29            | Horizontal               | Pass       |
|  | 1             | 0       | Middle  | 9.48            | 2.67       | 10.65      | 17.46            | Horizontal               | Pass       |
|  | 1             | 0       | Highest | 9.57            | 2.72       | 10.70      | 17.55            | Horizontal               | Pass       |
|  | 1             | 0       | Lowest  | 10.73           | 2.56       | 10.60      | 18.77            | Vertical                 | Pass       |
|  | 1             | 0       | Middle  | 10.91           | 2.67       | 10.65      | 18.89            | Vertical                 | Pass       |
| 1  | 0             | Highest | 10.98   | 2.72            | 10.70      | 18.96      | Vertical         | Pass                     |            |
| Limit                                      | EIRP<2W=33dBm |         |         |                 |            |            |                  |                          |            |



| Radiated Power (EIRP) for LTE Band 12 / 1.4M |               |        |         |                 |            |            |                  |                          |            |
|--|---------------|--------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                   | RB            |        | Channel | Result          |            |            |                  |                          | Conclusion |
|  | Size          | Offset |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK   | 1             | 0      | Lowest  | 15.37           | 1.21       | 6.40       | 20.56            | Horizontal               | Pass       |
|  | 1             | 0      | Middle  | 15.33           | 1.22       | 6.40       | 20.51            | Horizontal               | Pass       |
|  | 1             | 0      | Highest | 14.57           | 1.23       | 6.40       | 19.74            | Horizontal               | Pass       |
|  | 1             | 0      | Lowest  | 16.7            | 1.21       | 6.40       | 21.89            | Vertical                 | Pass       |
|  | 1             | 0      | Middle  | 16.64           | 1.22       | 6.40       | 21.82            | Vertical                 | Pass       |
|  | 1             | 0      | Highest | 15.92           | 1.23       | 6.40       | 21.09            | Vertical                 | Pass       |
| 16QAM  | 1             | 0      | Lowest  | 15.18           | 1.21       | 6.40       | 20.37            | Horizontal               | Pass       |
|  | 1             | 0      | Middle  | 14.96           | 1.22       | 6.40       | 20.14            | Horizontal               | Pass       |
|  | 1             | 0      | Highest | 14.45           | 1.23       | 6.40       | 19.62            | Horizontal               | Pass       |
|  | 1             | 0      | Lowest  | 16.49           | 1.21       | 6.40       | 21.68            | Vertical                 | Pass       |
|  | 1             | 0      | Middle  | 16.44           | 1.22       | 6.40       | 21.62            | Vertical                 | Pass       |
|  | 1             | 0      | Highest | 15.8            | 1.23       | 6.40       | 20.97            | Vertical                 | Pass       |
| Limit  | EIRP<2W=33dBm |        |         |                 |            |            |                  |                          |            |

| Radiated Power (EIRP) for LTE Band 12 / 3M |               |        |         |                 |            |            |                  |                          |            |
|--|---------------|--------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                 | RB            |        | Channel | Result          |            |            |                  |                          | Conclusion |
|  | Size          | Offset |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK                                       | 1             | 0      | Lowest  | 14.08           | 1.21       | 6.40       | 19.27            | Horizontal               | Pass       |
|  | 1             | 0      | Middle  | 13.84           | 1.22       | 6.40       | 19.02            | Horizontal               | Pass       |
|  | 1             | 0      | Highest | 13.58           | 1.23       | 6.40       | 18.75            | Horizontal               | Pass       |
|  | 1             | 0      | Lowest  | 15.47           | 1.21       | 6.40       | 20.66            | Vertical                 | Pass       |
|  | 1             | 0      | Middle  | 15.22           | 1.22       | 6.40       | 20.40            | Vertical                 | Pass       |
|  | 1             | 0      | Highest | 15.06           | 1.23       | 6.40       | 20.23            | Vertical                 | Pass       |
| 16QAM                                      | 1             | 0      | Lowest  | 13.83           | 1.21       | 6.40       | 19.02            | Horizontal               | Pass       |
|  | 1             | 0      | Middle  | 13.47           | 1.22       | 6.40       | 18.65            | Horizontal               | Pass       |
|  | 1             | 0      | Highest | 13.5            | 1.23       | 6.40       | 18.67            | Horizontal               | Pass       |
|  | 1             | 0      | Lowest  | 15.27           | 1.21       | 6.40       | 20.46            | Vertical                 | Pass       |
|  | 1             | 0      | Middle  | 14.96           | 1.22       | 6.40       | 20.14            | Vertical                 | Pass       |
|  | 1             | 0      | Highest | 14.87           | 1.23       | 6.40       | 20.04            | Vertical                 | Pass       |
| Limit                                      | EIRP<2W=33dBm |        |         |                 |            |            |                  |                          |            |



| Radiated Power (EIRP) for LTE Band 12 / 5M |                 |        |         |                 |            |            |                  |                          |            |
|--|-----------------|--------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                 | RB              |        | Channel | Result          |            |            |                  |                          | Conclusion |
|  | Size            | Offset |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK                                       | 1               | 0      | Lowest  | 14.77           | 1.21       | 6.40       | 19.96            | Horizontal               | Pass       |
|  | 1               | 0      | Middle  | 15.03           | 1.22       | 6.40       | 20.21            | Horizontal               | Pass       |
|  | 1               | 0      | Highest | 15.12           | 1.23       | 6.40       | 20.29            | Horizontal               | Pass       |
|  | 1               | 0      | Lowest  | 16.23           | 1.21       | 6.40       | 21.42            | Vertical                 | Pass       |
|  | 1               | 0      | Middle  | 16.41           | 1.22       | 6.40       | 21.59            | Vertical                 | Pass       |
|  | 1               | 0      | Highest | 16.42           | 1.23       | 6.40       | 21.59            | Vertical                 | Pass       |
| 16QAM                                      | 1               | 0      | Lowest  | 14.45           | 1.21       | 6.40       | 19.64            | Horizontal               | Pass       |
|  | 1               | 0      | Middle  | 14.61           | 1.22       | 6.40       | 19.79            | Horizontal               | Pass       |
|  | 1               | 0      | Highest | 14.8            | 1.23       | 6.40       | 19.97            | Horizontal               | Pass       |
|  | 1               | 0      | Lowest  | 15.91           | 1.21       | 6.40       | 21.10            | Vertical                 | Pass       |
|  | 1               | 0      | Middle  | 16.01           | 1.22       | 6.40       | 21.19            | Vertical                 | Pass       |
|  | 1               | 0      | Highest | 16.26           | 1.23       | 6.40       | 21.43            | Vertical                 | Pass       |
| Limit                                      | ERP<3W=34.77dBm |        |         |                 |            |            |                  |                          |            |

| Radiated Power (EIRP) for LTE Band 12 / 10M |                 |        |         |                 |            |            |                  |                          |            |
|---|-----------------|--------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                  | RB              |        | Channel | Result          |            |            |                  |                          | Conclusion |
|   | Size            | Offset |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK  | 1               | 0      | Lowest  | 15.86           | 1.21       | 6.40       | 21.05            | Horizontal               | Pass       |
|   | 1               | 0      | Middle  | 15.74           | 1.22       | 6.40       | 20.92            | Horizontal               | Pass       |
|   | 1               | 0      | Highest | 15.53           | 1.23       | 6.40       | 20.70            | Horizontal               | Pass       |
|   | 1               | 0      | Lowest  | 17.19           | 1.21       | 6.40       | 22.38            | Vertical                 | Pass       |
|   | 1               | 0      | Middle  | 17.04           | 1.22       | 6.40       | 22.22            | Vertical                 | Pass       |
|   | 1               | 0      | Highest | 16.93           | 1.23       | 6.40       | 22.10            | Vertical                 | Pass       |
| 16QAM                                       | 1               | 0      | Lowest  | 15.46           | 1.21       | 6.40       | 20.65            | Horizontal               | Pass       |
|   | 1               | 0      | Middle  | 15.59           | 1.22       | 6.40       | 20.77            | Horizontal               | Pass       |
|   | 1               | 0      | Highest | 15.05           | 1.23       | 6.40       | 20.22            | Horizontal               | Pass       |
|   | 1               | 0      | Lowest  | 16.85           | 1.21       | 6.40       | 22.04            | Vertical                 | Pass       |
|   | 1               | 0      | Middle  | 16.9            | 1.22       | 6.40       | 22.08            | Vertical                 | Pass       |
|   | 1               | 0      | Highest | 16.53           | 1.23       | 6.40       | 21.70            | Vertical                 | Pass       |
| Limit                                       | ERP<3W=34.77dBm |        |         |                 |            |            |                  |                          |            |



| Radiated Power (EIRP) for LTE Band 13 / 5M |                 |        |         |                 |            |            |                  |                          |            |
|--|-----------------|--------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                 | RB              |        | Channel | Result          |            |            |                  |                          | Conclusion |
|  | Size            | Offset |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK                                       | 1               | 0      | Lowest  | 14.64           | 1.21       | 6.40       | 19.83            | Horizontal               | Pass       |
|  | 1               | 0      | Middle  | 14.45           | 1.22       | 6.40       | 19.63            | Horizontal               | Pass       |
|  | 1               | 0      | Highest | 14.45           | 1.23       | 6.40       | 19.62            | Horizontal               | Pass       |
|  | 1               | 0      | Lowest  | 16              | 1.21       | 6.40       | 21.19            | Vertical                 | Pass       |
|  | 1               | 0      | Middle  | 15.75           | 1.22       | 6.40       | 20.93            | Vertical                 | Pass       |
|  | 1               | 0      | Highest | 15.91           | 1.23       | 6.40       | 21.08            | Vertical                 | Pass       |
| 16QAM                                      | 1               | 0      | Lowest  | 14.41           | 1.21       | 6.40       | 19.60            | Horizontal               | Pass       |
|  | 1               | 0      | Middle  | 13.96           | 1.22       | 6.40       | 19.14            | Horizontal               | Pass       |
|  | 1               | 0      | Highest | 14.14           | 1.23       | 6.40       | 19.31            | Horizontal               | Pass       |
|  | 1               | 0      | Lowest  | 15.79           | 1.21       | 6.40       | 20.98            | Vertical                 | Pass       |
|  | 1               | 0      | Middle  | 15.46           | 1.22       | 6.40       | 20.64            | Vertical                 | Pass       |
|  | 1               | 0      | Highest | 15.6            | 1.23       | 6.40       | 20.77            | Vertical                 | Pass       |
| Limit                                      | ERP<3W=34.77dBm |        |         |                 |            |            |                  |                          |            |

| Radiated Power (EIRP) for LTE Band 13 / 10M |                 |        |         |                 |            |            |                  |                          |            |
|---|-----------------|--------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                  | RB              |        | Channel | Result          |            |            |                  |                          | Conclusion |
|   | Size            | Offset |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK  | 1               | 0      | Middle  | 14.7            | 1.22       | 6.40       | 19.88            | Horizontal               | Pass       |
|   | 1               | 0      | Middle  | 16.05           | 1.22       | 6.40       | 21.23            | Vertical                 | Pass       |
| 16QAM                                       | 1               | 0      | Middle  | 14.74           | 1.22       | 6.40       | 19.92            | Horizontal               | Pass       |
|   | 1               | 0      | Middle  | 16.19           | 1.22       | 6.40       | 21.37            | Vertical                 | Pass       |
| Limit                                       | ERP<3W=34.77dBm |        |         |                 |            |            |                  |                          |            |



| Radiated Power (EIRP) for LTE Band 17 / 5M |                 |        |         |                 |            |            |                  |                          |            |
|--|-----------------|--------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                 | RB              |        | Channel | Result          |            |            |                  |                          | Conclusion |
|  | Size            | Offset |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK                                       | 1               | 0      | Lowest  | 14.47           | 1.21       | 6.40       | 19.66            | Horizontal               | Pass       |
|  | 1               | 0      | Middle  | 14.71           | 1.22       | 6.40       | 19.89            | Horizontal               | Pass       |
|  | 1               | 0      | Highest | 14.45           | 1.23       | 6.40       | 19.62            | Horizontal               | Pass       |
|  | 1               | 0      | Lowest  | 15.86           | 1.21       | 6.40       | 21.05            | Vertical                 | Pass       |
|  | 1               | 0      | Middle  | 16.06           | 1.22       | 6.40       | 21.24            | Vertical                 | Pass       |
|  | 1               | 0      | Highest | 15.86           | 1.23       | 6.40       | 21.03            | Vertical                 | Pass       |
| 16QAM                                      | 1               | 0      | Lowest  | 14.22           | 1.21       | 6.40       | 19.41            | Horizontal               | Pass       |
|  | 1               | 0      | Middle  | 14.49           | 1.22       | 6.40       | 19.67            | Horizontal               | Pass       |
|  | 1               | 0      | Highest | 14.11           | 1.23       | 6.40       | 19.28            | Horizontal               | Pass       |
|  | 1               | 0      | Lowest  | 15.7            | 1.21       | 6.40       | 20.89            | Vertical                 | Pass       |
|  | 1               | 0      | Middle  | 15.89           | 1.22       | 6.40       | 21.07            | Vertical                 | Pass       |
|  | 1               | 0      | Highest | 15.5            | 1.23       | 6.40       | 20.67            | Vertical                 | Pass       |
| Limit                                      | ERP<3W=34.77dBm |        |         |                 |            |            |                  |                          |            |

| Radiated Power (EIRP) for LTE Band 17 / 10M |                 |        |         |                 |            |            |                  |                          |            |
|---|-----------------|--------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                  | RB              |        | Channel | Result          |            |            |                  |                          | Conclusion |
|   | Size            | Offset |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK  | 1               | 0      | Lowest  | 14.74           | 1.21       | 6.40       | 19.93            | Horizontal               | Pass       |
|   | 1               | 0      | Middle  | 14.97           | 1.22       | 6.40       | 20.15            | Horizontal               | Pass       |
|   | 1               | 0      | Highest | 14.82           | 1.23       | 6.40       | 19.99            | Horizontal               | Pass       |
|   | 1               | 0      | Lowest  | 16.16           | 1.21       | 6.40       | 21.35            | Vertical                 | Pass       |
|   | 1               | 0      | Middle  | 16.38           | 1.22       | 6.40       | 21.56            | Vertical                 | Pass       |
|   | 1               | 0      | Highest | 16.21           | 1.23       | 6.40       | 21.38            | Vertical                 | Pass       |
| 16QAM                                       | 1               | 0      | Lowest  | 14.44           | 1.21       | 6.40       | 19.63            | Horizontal               | Pass       |
|   | 1               | 0      | Middle  | 14.73           | 1.22       | 6.40       | 19.91            | Horizontal               | Pass       |
|   | 1               | 0      | Highest | 14.58           | 1.23       | 6.40       | 19.75            | Horizontal               | Pass       |
|   | 1               | 0      | Lowest  | 15.88           | 1.21       | 6.40       | 21.07            | Vertical                 | Pass       |
|   | 1               | 0      | Middle  | 16.06           | 1.22       | 6.40       | 21.24            | Vertical                 | Pass       |
|   | 1               | 0      | Highest | 16.05           | 1.23       | 6.40       | 21.22            | Vertical                 | Pass       |
| Limit                                       | ERP<3W=34.77dBm |        |         |                 |            |            |                  |                          |            |



| Radiated Power (EIRP) for LTE Band 25 / 1.4M |               |         |         |                 |            |            |                  |                          |            |
|--|---------------|---------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                   | RB            |         | Channel | Result          |            |            |                  |                          | Conclusion |
|  | Size          | Offset  |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK   | 1             | 0       | Lowest  | 12.39           | 2.37       | 10.40      | 20.42            | Horizontal               | Pass       |
|  | 1             | 0       | Middle  | 12.25           | 2.39       | 10.42      | 20.28            | Horizontal               | Pass       |
|  | 1             | 0       | Highest | 12.41           | 2.40       | 10.44      | 20.45            | Horizontal               | Pass       |
|  | 1             | 0       | Lowest  | 13.88           | 2.37       | 10.40      | 21.91            | Vertical                 | Pass       |
|  | 1             | 0       | Middle  | 13.74           | 2.39       | 10.42      | 21.77            | Vertical                 | Pass       |
|  | 1             | 0       | Highest | 13.79           | 2.40       | 10.44      | 21.83            | Vertical                 | Pass       |
| 16QAM  | 1             | 0       | Lowest  | 12.28           | 2.37       | 10.40      | 20.31            | Horizontal               | Pass       |
|  | 1             | 0       | Middle  | 12.04           | 2.39       | 10.42      | 20.07            | Horizontal               | Pass       |
|  | 1             | 0       | Highest | 12.11           | 2.40       | 10.44      | 20.15            | Horizontal               | Pass       |
|  | 1             | 0       | Lowest  | 13.72           | 2.37       | 10.40      | 21.75            | Vertical                 | Pass       |
|  | 1             | 0       | Middle  | 13.47           | 2.39       | 10.42      | 21.50            | Vertical                 | Pass       |
| 1  | 0             | Highest | 13.48   | 2.40            | 10.44      | 21.52      | Vertical         | Pass                     |            |
| Limit  | EIRP<2W=33dBm |         |         |                 |            |            |                  |                          |            |

| Radiated Power (EIRP) for LTE Band 25 / 3M |               |         |         |                 |            |            |                  |                          |            |
|--|---------------|---------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                 | RB            |         | Channel | Result          |            |            |                  |                          | Conclusion |
|  | Size          | Offset  |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK                                       | 1             | 0       | Lowest  | 12.05           | 2.37       | 10.40      | 20.08            | Horizontal               | Pass       |
|  | 1             | 0       | Middle  | 12.04           | 2.39       | 10.42      | 20.07            | Horizontal               | Pass       |
|  | 1             | 0       | Highest | 12.06           | 2.40       | 10.44      | 20.10            | Horizontal               | Pass       |
|  | 1             | 0       | Lowest  | 13.48           | 2.37       | 10.40      | 21.51            | Vertical                 | Pass       |
|  | 1             | 0       | Middle  | 13.51           | 2.39       | 10.42      | 21.54            | Vertical                 | Pass       |
|  | 1             | 0       | Highest | 13.42           | 2.40       | 10.44      | 21.46            | Vertical                 | Pass       |
| 16QAM                                      | 1             | 0       | Lowest  | 11.87           | 2.37       | 10.40      | 19.90            | Horizontal               | Pass       |
|  | 1             | 0       | Middle  | 11.89           | 2.39       | 10.42      | 19.92            | Horizontal               | Pass       |
|  | 1             | 0       | Highest | 11.76           | 2.40       | 10.44      | 19.80            | Horizontal               | Pass       |
|  | 1             | 0       | Lowest  | 13.25           | 2.37       | 10.40      | 21.28            | Vertical                 | Pass       |
|  | 1             | 0       | Middle  | 13.39           | 2.39       | 10.42      | 21.42            | Vertical                 | Pass       |
| 1  | 0             | Highest | 13.12   | 2.40            | 10.44      | 21.16      | Vertical         | Pass                     |            |
| Limit                                      | EIRP<2W=33dBm |         |         |                 |            |            |                  |                          |            |



| Radiated Power (EIRP) for LTE Band 25 / 5M |               |         |         |                 |            |            |                  |                          |            |
|--|---------------|---------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                 | RB            |         | Channel | Result          |            |            |                  |                          | Conclusion |
|  | Size          | Offset  |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK                                       | 1             | 0       | Lowest  | 11.98           | 2.37       | 10.40      | 20.01            | Horizontal               | Pass       |
|  | 1             | 0       | Middle  | 11.64           | 2.39       | 10.42      | 19.67            | Horizontal               | Pass       |
|  | 1             | 0       | Highest | 11.96           | 2.40       | 10.44      | 20.00            | Horizontal               | Pass       |
|  | 1             | 0       | Lowest  | 13.4            | 2.37       | 10.40      | 21.43            | Vertical                 | Pass       |
|  | 1             | 0       | Middle  | 13.08           | 2.39       | 10.42      | 21.11            | Vertical                 | Pass       |
|  | 1             | 0       | Highest | 13.29           | 2.40       | 10.44      | 21.33            | Vertical                 | Pass       |
| 16QAM                                      | 1             | 0       | Lowest  | 11.56           | 2.37       | 10.40      | 19.59            | Horizontal               | Pass       |
|  | 1             | 0       | Middle  | 11.41           | 2.39       | 10.42      | 19.44            | Horizontal               | Pass       |
|  | 1             | 0       | Highest | 11.63           | 2.40       | 10.44      | 19.67            | Horizontal               | Pass       |
|  | 1             | 0       | Lowest  | 13.03           | 2.37       | 10.40      | 21.06            | Vertical                 | Pass       |
|  | 1             | 0       | Middle  | 12.8            | 2.39       | 10.42      | 20.83            | Vertical                 | Pass       |
| 1  | 0             | Highest | 13.03   | 2.40            | 10.44      | 21.07      | Vertical         | Pass                     |            |
| Limit                                      | EIRP<2W=33dBm |         |         |                 |            |            |                  |                          |            |

| Radiated Power (EIRP) for LTE Band 25 / 10M |               |         |         |                 |            |            |                  |                          |            |
|---|---------------|---------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                  | RB            |         | Channel | Result          |            |            |                  |                          | Conclusion |
|   | Size          | Offset  |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK  | 1             | 0       | Lowest  | 11.85           | 2.37       | 10.40      | 19.88            | Horizontal               | Pass       |
|   | 1             | 0       | Middle  | 11.88           | 2.39       | 10.42      | 19.91            | Horizontal               | Pass       |
|   | 1             | 0       | Highest | 12.17           | 2.40       | 10.44      | 20.21            | Horizontal               | Pass       |
|   | 1             | 0       | Lowest  | 13.35           | 2.37       | 10.40      | 21.38            | Vertical                 | Pass       |
|   | 1             | 0       | Middle  | 13.32           | 2.39       | 10.42      | 21.35            | Vertical                 | Pass       |
|   | 1             | 0       | Highest | 13.5            | 2.40       | 10.44      | 21.54            | Vertical                 | Pass       |
| 16QAM                                       | 1             | 0       | Lowest  | 11.54           | 2.37       | 10.40      | 19.57            | Horizontal               | Pass       |
|   | 1             | 0       | Middle  | 11.55           | 2.39       | 10.42      | 19.58            | Horizontal               | Pass       |
|   | 1             | 0       | Highest | 11.74           | 2.40       | 10.44      | 19.78            | Horizontal               | Pass       |
|   | 1             | 0       | Lowest  | 13              | 2.37       | 10.40      | 21.03            | Vertical                 | Pass       |
|   | 1             | 0       | Middle  | 13.03           | 2.39       | 10.42      | 21.06            | Vertical                 | Pass       |
| 1   | 0             | Highest | 13.16   | 2.40            | 10.44      | 21.20      | Vertical         | Pass                     |            |
| Limit                                       | EIRP<2W=33dBm |         |         |                 |            |            |                  |                          |            |



| Radiated Power (EIRP) for LTE Band 25 / 15M |               |         |         |                 |            |            |                  |                          |            |
|---|---------------|---------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                  | RB            |         | Channel | Result          |            |            |                  |                          | Conclusion |
|   | Size          | Offset  |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK  | 1             | 0       | Lowest  | 11.74           | 2.37       | 10.40      | 19.77            | Horizontal               | Pass       |
|   | 1             | 0       | Middle  | 11.89           | 2.39       | 10.42      | 19.92            | Horizontal               | Pass       |
|   | 1             | 0       | Highest | 11.59           | 2.40       | 10.44      | 19.63            | Horizontal               | Pass       |
|   | 1             | 0       | Lowest  | 13.21           | 2.37       | 10.40      | 21.24            | Vertical                 | Pass       |
|   | 1             | 0       | Middle  | 13.25           | 2.39       | 10.42      | 21.28            | Vertical                 | Pass       |
|   | 1             | 0       | Highest | 13.08           | 2.40       | 10.44      | 21.12            | Vertical                 | Pass       |
| 16QAM                                       | 1             | 0       | Lowest  | 11.5            | 2.37       | 10.40      | 19.53            | Horizontal               | Pass       |
|   | 1             | 0       | Middle  | 11.61           | 2.39       | 10.42      | 19.64            | Horizontal               | Pass       |
|   | 1             | 0       | Highest | 11.41           | 2.40       | 10.44      | 19.45            | Horizontal               | Pass       |
|   | 1             | 0       | Lowest  | 12.9            | 2.37       | 10.40      | 20.93            | Vertical                 | Pass       |
|   | 1             | 0       | Middle  | 12.99           | 2.39       | 10.42      | 21.02            | Vertical                 | Pass       |
| 1   | 0             | Highest | 12.75   | 2.40            | 10.44      | 20.79      | Vertical         | Pass                     |            |
| Limit                                       | EIRP<2W=33dBm |         |         |                 |            |            |                  |                          |            |

| Radiated Power (EIRP) for LTE Band 25 / 20M |               |         |         |                 |            |            |                  |                          |            |
|---|---------------|---------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                  | RB            |         | Channel | Result          |            |            |                  |                          | Conclusion |
|   | Size          | Offset  |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK  | 1             | 0       | Lowest  | 12.78           | 2.37       | 10.40      | 20.81            | Horizontal               | Pass       |
|   | 1             | 0       | Middle  | 12.6            | 2.39       | 10.42      | 20.63            | Horizontal               | Pass       |
|   | 1             | 0       | Highest | 12.54           | 2.40       | 10.44      | 20.58            | Horizontal               | Pass       |
|   | 1             | 0       | Lowest  | 14.12           | 2.37       | 10.40      | 22.15            | Vertical                 | Pass       |
|   | 1             | 0       | Middle  | 14.05           | 2.39       | 10.42      | 22.08            | Vertical                 | Pass       |
|   | 1             | 0       | Highest | 13.88           | 2.40       | 10.44      | 21.92            | Vertical                 | Pass       |
| 16QAM                                       | 1             | 0       | Lowest  | 12.57           | 2.37       | 10.40      | 20.60            | Horizontal               | Pass       |
|   | 1             | 0       | Middle  | 12.3            | 2.39       | 10.42      | 20.33            | Horizontal               | Pass       |
|   | 1             | 0       | Highest | 12.2            | 2.40       | 10.44      | 20.24            | Horizontal               | Pass       |
|   | 1             | 0       | Lowest  | 13.92           | 2.37       | 10.40      | 21.95            | Vertical                 | Pass       |
|   | 1             | 0       | Middle  | 13.78           | 2.39       | 10.42      | 21.81            | Vertical                 | Pass       |
| 1   | 0             | Highest | 13.67   | 2.40            | 10.44      | 21.71      | Vertical         | Pass                     |            |
| Limit                                       | EIRP<2W=33dBm |         |         |                 |            |            |                  |                          |            |





| Radiated Power (EIRP) for LTE Band 26 / 1.4M |               |        |         |                       |               |               |                      |                |            |
|--|---------------|--------|---------|-----------------------|---------------|---------------|----------------------|----------------|------------|
| Modulation                                   | RB            |        | Channel | Result                |               |               |                      |                | Conclusion |
|  | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.R.P.(dBm) | Polarization   |            |
|  |               |        |         |                       |               |               |                      | Of Max.<br>ERP |            |
| QPSK   | 1             | 0      | Middle  | 11.53                 | 2.36          | 10.16         | 19.33                | Horizontal     | Pass       |
|  | 1             | 0      | Highest | 11.9                  | 2.37          | 10.22         | 19.75                | Horizontal     | Pass       |
|  | 1             | 0      | Middle  | 13.01                 | 2.36          | 10.16         | 20.81                | Vertical       | Pass       |
|  | 1             | 0      | Highest | 13.2                  | 2.37          | 10.22         | 21.05                | Vertical       | Pass       |
| 16QAM  | 1             | 0      | Middle  | 11.42                 | 2.36          | 10.16         | 19.22                | Horizontal     | Pass       |
|  | 1             | 0      | Highest | 11.54                 | 2.37          | 10.22         | 19.39                | Horizontal     | Pass       |
|  | 1             | 0      | Middle  | 12.76                 | 2.36          | 10.16         | 20.56                | Vertical       | Pass       |
|  | 1             | 0      | Highest | 12.94                 | 2.37          | 10.22         | 20.79                | Vertical       | Pass       |
| Limit  | EIRP<1W=30dBm |        |         |                       |               |               |                      |                |            |

| Radiated Power (EIRP) for LTE Band 26 / 3M |               |        |         |                       |               |               |                      |                |            |
|--|---------------|--------|---------|-----------------------|---------------|---------------|----------------------|----------------|------------|
| Modulation                                 | RB            |        | Channel | Result                |               |               |                      |                | Conclusion |
|  | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.R.P.(dBm) | Polarization   |            |
|  |               |        |         |                       |               |               |                      | Of Max.<br>ERP |            |
| QPSK                                       | 1             | 0      | Middle  | 12.39                 | 2.36          | 10.16         | 20.19                | Horizontal     | Pass       |
|  | 1             | 0      | Highest | 12.44                 | 2.37          | 10.22         | 20.29                | Horizontal     | Pass       |
|  | 1             | 0      | Middle  | 13.83                 | 2.36          | 10.16         | 21.63                | Vertical       | Pass       |
|  | 1             | 0      | Highest | 13.91                 | 2.37          | 10.22         | 21.76                | Vertical       | Pass       |
| 16QAM                                      | 1             | 0      | Middle  | 12.16                 | 2.36          | 10.16         | 19.96                | Horizontal     | Pass       |
|  | 1             | 0      | Highest | 12.29                 | 2.37          | 10.22         | 20.14                | Horizontal     | Pass       |
|  | 1             | 0      | Middle  | 13.51                 | 2.36          | 10.16         | 21.31                | Vertical       | Pass       |
|  | 1             | 0      | Highest | 13.69                 | 2.37          | 10.22         | 21.54                | Vertical       | Pass       |
| Limit                                      | EIRP<1W=30dBm |        |         |                       |               |               |                      |                |            |

| Radiated Power (EIRP) for LTE Band 26 / 5M |               |        |         |                       |               |               |                      |                |            |
|--|---------------|--------|---------|-----------------------|---------------|---------------|----------------------|----------------|------------|
| Modulation                                 | RB            |        | Channel | Result                |               |               |                      |                | Conclusion |
|  | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.R.P.(dBm) | Polarization   |            |
|  |               |        |         |                       |               |               |                      | Of Max.<br>ERP |            |
| QPSK                                       | 1             | 0      | Middle  | 12.27                 | 2.36          | 10.16         | 20.07                | Horizontal     | Pass       |
|  | 1             | 0      | Highest | 12.03                 | 2.37          | 10.22         | 19.88                | Horizontal     | Pass       |
|  | 1             | 0      | Middle  | 13.77                 | 2.36          | 10.16         | 21.57                | Vertical       | Pass       |
|  | 1             | 0      | Highest | 13.47                 | 2.37          | 10.22         | 21.32                | Vertical       | Pass       |
| 16QAM                                      | 1             | 0      | Middle  | 12.32                 | 2.36          | 10.16         | 20.12                | Horizontal     | Pass       |
|  | 1             | 0      | Highest | 12.03                 | 2.37          | 10.22         | 19.88                | Horizontal     | Pass       |
|  | 1             | 0      | Middle  | 13.69                 | 2.36          | 10.16         | 21.49                | Vertical       | Pass       |
|  | 1             | 0      | Highest | 13.33                 | 2.37          | 10.22         | 21.18                | Vertical       | Pass       |
| Limit                                      | EIRP<1W=30dBm |        |         |                       |               |               |                      |                |            |



| Radiated Power (EIRP) for LTE Band 26 / 10M |               |        |         |                       |               |               |                     |                                |            |
|---|---------------|--------|---------|-----------------------|---------------|---------------|---------------------|--------------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result                |               |               |                     |                                | Conclusion |
|   | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK  | 1             | 0      | Middle  | 12.51                 | 2.36          | 10.16         | 20.31               | Horizontal                     | Pass       |
|   | 1             | 0      | Highest | 12.56                 | 2.37          | 10.22         | 20.41               | Horizontal                     | Pass       |
|   | 1             | 0      | Middle  | 13.85                 | 2.36          | 10.16         | 21.65               | Vertical                       | Pass       |
|   | 1             | 0      | Highest | 14.03                 | 2.37          | 10.22         | 21.88               | Vertical                       | Pass       |
| 16QAM                                       | 1             | 0      | Middle  | 12.18                 | 2.36          | 10.16         | 19.98               | Horizontal                     | Pass       |
|   | 1             | 0      | Highest | 12.29                 | 2.37          | 10.22         | 20.14               | Horizontal                     | Pass       |
|   | 1             | 0      | Middle  | 13.63                 | 2.36          | 10.16         | 21.43               | Vertical                       | Pass       |
|   | 1             | 0      | Highest | 13.69                 | 2.37          | 10.22         | 21.54               | Vertical                       | Pass       |
| Limit                                       | EIRP<1W=30dBm |        |         |                       |               |               |                     |                                |            |

| Radiated Power (EIRP) for LTE Band 26 / 15M |               |        |         |                       |               |               |                     |                                |            |
|---|---------------|--------|---------|-----------------------|---------------|---------------|---------------------|--------------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result                |               |               |                     |                                | Conclusion |
|   | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK  | 1             | 0      | Middle  | 12.85                 | 2.36          | 10.16         | 20.65               | Horizontal                     | Pass       |
|   | 1             | 0      | Highest | 12.8                  | 2.37          | 10.22         | 20.65               | Horizontal                     | Pass       |
|   | 1             | 0      | Middle  | 14.26                 | 2.36          | 10.16         | 22.06               | Vertical                       | Pass       |
|   | 1             | 0      | Highest | 14.25                 | 2.37          | 10.22         | 22.10               | Vertical                       | Pass       |
| 16QAM                                       | 1             | 0      | Middle  | 12.4                  | 2.36          | 10.16         | 20.20               | Horizontal                     | Pass       |
|   | 1             | 0      | Highest | 12.6                  | 2.37          | 10.22         | 20.45               | Horizontal                     | Pass       |
|   | 1             | 0      | Middle  | 13.87                 | 2.36          | 10.16         | 21.67               | Vertical                       | Pass       |
|   | 1             | 0      | Highest | 13.99                 | 2.37          | 10.22         | 21.84               | Vertical                       | Pass       |
| Limit                                       | EIRP<1W=30dBm |        |         |                       |               |               |                     |                                |            |



| Radiated Power (EIRP) for LTE Band 26(Part 90) / 1.4M |                 |        |         |                       |               |               |                     |                |            |
|---|-----------------|--------|---------|-----------------------|---------------|---------------|---------------------|----------------|------------|
| Modulation  | RB              |        | Channel | Result                |               |               |                     |                | Conclusion |
|   | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.R.P(dBm) | Polarization   |            |
|   |                 |        |         |                       |               |               |                     | Of Max.<br>ERP |            |
| QPSK  | 1               | 0      | Lowest  | 11.84                 | 2.35          | 10.13         | 19.62               | Horizontal     | Pass       |
|   | 1               | 0      | Lowest  | 13.34                 | 2.35          | 10.13         | 21.12               | Vertical       | Pass       |
| 16QAM   | 1               | 0      | Lowest  | 11.74                 | 2.35          | 10.13         | 19.52               | Horizontal     | Pass       |
|   | 1               | 0      | Lowest  | 13.12                 | 2.35          | 10.13         | 20.90               | Vertical       | Pass       |
| Limit   | EIRP<100W=50dBm |        |         |                       |               |               |                     |                |            |

| Radiated Power (EIRP) for LTE Band 26(Part 90) / 3M |                 |        |         |                       |               |               |                     |                |            |
|---|-----------------|--------|---------|-----------------------|---------------|---------------|---------------------|----------------|------------|
| Modulation  | RB              |        | Channel | Result                |               |               |                     |                | Conclusion |
|   | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.R.P(dBm) | Polarization   |            |
|   |                 |        |         |                       |               |               |                     | Of Max.<br>ERP |            |
| QPSK  | 1               | 0      | Lowest  | 12.37                 | 2.35          | 10.13         | 20.15               | Horizontal     | Pass       |
|   | 1               | 0      | Lowest  | 13.78                 | 2.35          | 10.13         | 21.56               | Vertical       | Pass       |
| 16QAM   | 1               | 0      | Lowest  | 12.2                  | 2.35          | 10.13         | 19.98               | Horizontal     | Pass       |
|   | 1               | 0      | Lowest  | 13.57                 | 2.35          | 10.13         | 21.35               | Vertical       | Pass       |
| Limit   | EIRP<100W=50dBm |        |         |                       |               |               |                     |                |            |

| Radiated Power (EIRP) for LTE Band 26(Part 90) / 5M |                 |        |         |                       |               |               |                     |                |            |
|---|-----------------|--------|---------|-----------------------|---------------|---------------|---------------------|----------------|------------|
| Modulation  | RB              |        | Channel | Result                |               |               |                     |                | Conclusion |
|   | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.R.P(dBm) | Polarization   |            |
|   |                 |        |         |                       |               |               |                     | Of Max.<br>ERP |            |
| QPSK  | 1               | 0      | Lowest  | 12.2                  | 2.35          | 10.13         | 19.98               | Horizontal     | Pass       |
|   | 1               | 0      | Lowest  | 13.69                 | 2.35          | 10.13         | 21.47               | Vertical       | Pass       |
| 16QAM   | 1               | 0      | Lowest  | 12.13                 | 2.35          | 10.13         | 19.91               | Horizontal     | Pass       |
|   | 1               | 0      | Lowest  | 13.6                  | 2.35          | 10.13         | 21.38               | Vertical       | Pass       |
| Limit   | EIRP<100W=50dBm |        |         |                       |               |               |                     |                |            |

| Radiated Power (EIRP) for LTE Band 26(Part 90) / 10M |                 |        |         |                       |               |               |                     |                |            |
|--|-----------------|--------|---------|-----------------------|---------------|---------------|---------------------|----------------|------------|
| Modulation   | RB              |        | Channel | Result                |               |               |                     |                | Conclusion |
|  | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.R.P(dBm) | Polarization   |            |
|  |                 |        |         |                       |               |               |                     | Of Max.<br>ERP |            |
| QPSK   | 1               | 0      | Lowest  | 12.55                 | 2.35          | 10.13         | 20.33               | Horizontal     | Pass       |
|  | 1               | 0      | Lowest  | 13.98                 | 2.35          | 10.13         | 21.76               | Vertical       | Pass       |
| 16QAM  | 1               | 0      | Lowest  | 12.45                 | 2.35          | 10.13         | 20.23               | Horizontal     | Pass       |
|  | 1               | 0      | Lowest  | 13.84                 | 2.35          | 10.13         | 21.62               | Vertical       | Pass       |
| Limit  | EIRP<100W=50dBm |        |         |                       |               |               |                     |                |            |



| Radiated Power (EIRP) for LTE Band41 / 5M |               |        |         |                 |            |            |                  |                          |            |
|---|---------------|--------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                | RB            |        | Channel | Result          |            |            |                  |                          | Conclusion |
|   | Size          | Offset |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK                                      | 1             | 0      | Lowest  | 9.45            | 2.56       | 10.60      | 17.49            | Horizontal               | Pass       |
|   | 1             | 0      | Middle  | 9.63            | 2.67       | 10.65      | 17.61            | Horizontal               | Pass       |
|   | 1             | 0      | Highest | 9.8             | 2.72       | 10.70      | 17.78            | Horizontal               | Pass       |
|   | 1             | 0      | Lowest  | 10.94           | 2.56       | 10.60      | 18.98            | Vertical                 | Pass       |
|   | 1             | 0      | Middle  | 11.13           | 2.67       | 10.65      | 19.11            | Vertical                 | Pass       |
|   | 1             | 0      | Highest | 11.14           | 2.72       | 10.70      | 19.12            | Vertical                 | Pass       |
| 16QAM                                     | 1             | 0      | Lowest  | 9.37            | 2.56       | 10.60      | 17.41            | Horizontal               | Pass       |
|   | 1             | 0      | Middle  | 9.4             | 2.67       | 10.65      | 17.38            | Horizontal               | Pass       |
|   | 1             | 0      | Highest | 9.51            | 2.72       | 10.70      | 17.49            | Horizontal               | Pass       |
|   | 1             | 0      | Lowest  | 10.67           | 2.56       | 10.60      | 18.71            | Vertical                 | Pass       |
|   | 1             | 0      | Middle  | 10.73           | 2.67       | 10.65      | 18.71            | Vertical                 | Pass       |
|   | 1             | 0      | Highest | 10.94           | 2.72       | 10.70      | 18.92            | Vertical                 | Pass       |
| Limit                                     | EIRP<2W=33dBm |        |         |                 |            |            |                  |                          |            |

| Radiated Power (EIRP) for LTE Band 41 / 10M |               |        |         |                 |            |            |                  |                          |            |
|---|---------------|--------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result          |            |            |                  |                          | Conclusion |
|   | Size          | Offset |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK  | 1             | 0      | Lowest  | 9.43            | 2.56       | 10.60      | 17.47            | Horizontal               | Pass       |
|   | 1             | 0      | Middle  | 9.54            | 2.67       | 10.65      | 17.52            | Horizontal               | Pass       |
|   | 1             | 0      | Highest | 9.43            | 2.72       | 10.70      | 17.41            | Horizontal               | Pass       |
|   | 1             | 0      | Lowest  | 10.9            | 2.56       | 10.60      | 18.94            | Vertical                 | Pass       |
|   | 1             | 0      | Middle  | 10.88           | 2.67       | 10.65      | 18.86            | Vertical                 | Pass       |
|   | 1             | 0      | Highest | 10.93           | 2.72       | 10.70      | 18.91            | Vertical                 | Pass       |
| 16QAM                                       | 1             | 0      | Lowest  | 9.19            | 2.56       | 10.60      | 17.23            | Horizontal               | Pass       |
|   | 1             | 0      | Middle  | 9.22            | 2.67       | 10.65      | 17.20            | Horizontal               | Pass       |
|   | 1             | 0      | Highest | 9.49            | 2.72       | 10.70      | 17.47            | Horizontal               | Pass       |
|   | 1             | 0      | Lowest  | 10.68           | 2.56       | 10.60      | 18.72            | Vertical                 | Pass       |
|   | 1             | 0      | Middle  | 10.58           | 2.67       | 10.65      | 18.56            | Vertical                 | Pass       |
|   | 1             | 0      | Highest | 10.81           | 2.72       | 10.70      | 18.79            | Vertical                 | Pass       |
| Limit                                       | EIRP<2W=33dBm |        |         |                 |            |            |                  |                          |            |



| Radiated Power (EIRP) for LTE Band 41 / 15M |               |        |         |                 |            |            |                  |                          |            |
|---|---------------|--------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result          |            |            |                  |                          | Conclusion |
|   | Size          | Offset |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK  | 1             | 0      | Lowest  | 9.75            | 2.56       | 10.60      | 17.79            | Horizontal               | Pass       |
|   | 1             | 0      | Middle  | 9.89            | 2.67       | 10.65      | 17.87            | Horizontal               | Pass       |
|   | 1             | 0      | Highest | 9.78            | 2.72       | 10.70      | 17.76            | Horizontal               | Pass       |
|   | 1             | 0      | Lowest  | 11.19           | 2.56       | 10.60      | 19.23            | Vertical                 | Pass       |
|   | 1             | 0      | Middle  | 11.34           | 2.67       | 10.65      | 19.32            | Vertical                 | Pass       |
|   | 1             | 0      | Highest | 11.27           | 2.72       | 10.70      | 19.25            | Vertical                 | Pass       |
| 16QAM                                       | 1             | 0      | Lowest  | 9.46            | 2.56       | 10.60      | 17.50            | Horizontal               | Pass       |
|   | 1             | 0      | Middle  | 9.67            | 2.67       | 10.65      | 17.65            | Horizontal               | Pass       |
|   | 1             | 0      | Highest | 9.51            | 2.72       | 10.70      | 17.49            | Horizontal               | Pass       |
|   | 1             | 0      | Lowest  | 10.83           | 2.56       | 10.60      | 18.87            | Vertical                 | Pass       |
|   | 1             | 0      | Middle  | 11.08           | 2.67       | 10.65      | 19.06            | Vertical                 | Pass       |
|   | 1             | 0      | Highest | 10.94           | 2.72       | 10.70      | 18.92            | Vertical                 | Pass       |
| Limit                                       | EIRP<2W=33dBm |        |         |                 |            |            |                  |                          |            |

| Radiated Power (EIRP) for LTE Band 41 / 20M |               |        |         |                 |            |            |                  |                          |            |
|---|---------------|--------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result          |            |            |                  |                          | Conclusion |
|   | Size          | Offset |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK  | 1             | 0      | Lowest  | 10.14           | 2.56       | 10.60      | 18.18            | Horizontal               | Pass       |
|   | 1             | 0      | Middle  | 10.11           | 2.67       | 10.65      | 18.09            | Horizontal               | Pass       |
|   | 1             | 0      | Highest | 9.92            | 2.72       | 10.70      | 17.90            | Horizontal               | Pass       |
|   | 1             | 0      | Lowest  | 11.51           | 2.56       | 10.60      | 19.55            | Vertical                 | Pass       |
|   | 1             | 0      | Middle  | 11.61           | 2.67       | 10.65      | 19.59            | Vertical                 | Pass       |
|   | 1             | 0      | Highest | 11.27           | 2.72       | 10.70      | 19.25            | Vertical                 | Pass       |
| 16QAM                                       | 1             | 0      | Lowest  | 9.92            | 2.56       | 10.60      | 17.96            | Horizontal               | Pass       |
|   | 1             | 0      | Middle  | 9.99            | 2.67       | 10.65      | 17.97            | Horizontal               | Pass       |
|   | 1             | 0      | Highest | 9.77            | 2.72       | 10.70      | 17.75            | Horizontal               | Pass       |
|   | 1             | 0      | Lowest  | 11.37           | 2.56       | 10.60      | 19.41            | Vertical                 | Pass       |
|   | 1             | 0      | Middle  | 11.33           | 2.67       | 10.65      | 19.31            | Vertical                 | Pass       |
|   | 1             | 0      | Highest | 11.14           | 2.72       | 10.70      | 19.12            | Vertical                 | Pass       |
| Limit                                       | EIRP<2W=33dBm |        |         |                 |            |            |                  |                          |            |



| Radiated Power (EIRP) for LTE Band 66 / 1.4M |               |        |         |                       |               |               |                     |                                |            |
|--|---------------|--------|---------|-----------------------|---------------|---------------|---------------------|--------------------------------|------------|
| Modulation                                   | RB            |        | Channel | Result                |               |               |                     |                                | Conclusion |
|  | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK   | 1             | 0      | Lowest  | 10.18                 | 2.35          | 10.13         | 17.96               | Horizontal                     | Pass       |
|  | 1             | 0      | Middle  | 10.41                 | 2.36          | 10.16         | 18.21               | Horizontal                     | Pass       |
|  | 1             | 0      | Highest | 10.34                 | 2.37          | 10.22         | 18.19               | Horizontal                     | Pass       |
|  | 1             | 0      | Lowest  | 11.62                 | 2.35          | 10.13         | 19.40               | Vertical                       | Pass       |
|  | 1             | 0      | Middle  | 11.8                  | 2.36          | 10.16         | 19.60               | Vertical                       | Pass       |
|  | 1             | 0      | Highest | 11.75                 | 2.37          | 10.22         | 19.60               | Vertical                       | Pass       |
| 16QAM  | 1             | 0      | Lowest  | 10.11                 | 2.35          | 10.13         | 17.89               | Horizontal                     | Pass       |
|  | 1             | 0      | Middle  | 10.12                 | 2.36          | 10.16         | 17.92               | Horizontal                     | Pass       |
|  | 1             | 0      | Highest | 9.87                  | 2.37          | 10.22         | 17.72               | Horizontal                     | Pass       |
|  | 1             | 0      | Lowest  | 11.53                 | 2.35          | 10.13         | 19.31               | Vertical                       | Pass       |
|  | 1             | 0      | Middle  | 11.54                 | 2.36          | 10.16         | 19.34               | Vertical                       | Pass       |
|  | 1             | 0      | Highest | 11.35                 | 2.37          | 10.22         | 19.20               | Vertical                       | Pass       |
| Limit  | EIRP<1W=30dBm |        |         |                       |               |               |                     |                                |            |

| Radiated Power (EIRP) for LTE Band 66 / 3M |               |        |         |                       |               |               |                     |                                |            |
|--|---------------|--------|---------|-----------------------|---------------|---------------|---------------------|--------------------------------|------------|
| Modulation                                 | RB            |        | Channel | Result                |               |               |                     |                                | Conclusion |
|  | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                       | 1             | 0      | Lowest  | 11.27                 | 2.35          | 10.13         | 19.05               | Horizontal                     | Pass       |
|  | 1             | 0      | Middle  | 11.18                 | 2.36          | 10.16         | 18.98               | Horizontal                     | Pass       |
|  | 1             | 0      | Highest | 11.04                 | 2.37          | 10.22         | 18.89               | Horizontal                     | Pass       |
|  | 1             | 0      | Lowest  | 12.66                 | 2.35          | 10.13         | 20.44               | Vertical                       | Pass       |
|  | 1             | 0      | Middle  | 12.58                 | 2.36          | 10.16         | 20.38               | Vertical                       | Pass       |
|  | 1             | 0      | Highest | 12.44                 | 2.37          | 10.22         | 20.29               | Vertical                       | Pass       |
| 16QAM                                      | 1             | 0      | Lowest  | 10.96                 | 2.35          | 10.13         | 18.74               | Horizontal                     | Pass       |
|  | 1             | 0      | Middle  | 10.99                 | 2.36          | 10.16         | 18.79               | Horizontal                     | Pass       |
|  | 1             | 0      | Highest | 10.67                 | 2.37          | 10.22         | 18.52               | Horizontal                     | Pass       |
|  | 1             | 0      | Lowest  | 12.37                 | 2.35          | 10.13         | 20.15               | Vertical                       | Pass       |
|  | 1             | 0      | Middle  | 12.34                 | 2.36          | 10.16         | 20.14               | Vertical                       | Pass       |
|  | 1             | 0      | Highest | 12.09                 | 2.37          | 10.22         | 19.94               | Vertical                       | Pass       |
| Limit                                      | EIRP<1W=30dBm |        |         |                       |               |               |                     |                                |            |



| Radiated Power (EIRP) for LTE Band 66 / 5M |               |        |         |                 |            |            |                  |                          |            |
|--|---------------|--------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                 | RB            |        | Channel | Result          |            |            |                  |                          | Conclusion |
|  | Size          | Offset |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK                                       | 1             | 0      | Lowest  | 10.96           | 2.35       | 10.13      | 18.74            | Horizontal               | Pass       |
|  | 1             | 0      | Middle  | 10.93           | 2.36       | 10.16      | 18.73            | Horizontal               | Pass       |
|  | 1             | 0      | Highest | 10.54           | 2.37       | 10.22      | 18.39            | Horizontal               | Pass       |
|  | 1             | 0      | Lowest  | 12.45           | 2.35       | 10.13      | 20.23            | Vertical                 | Pass       |
|  | 1             | 0      | Middle  | 12.28           | 2.36       | 10.16      | 20.08            | Vertical                 | Pass       |
|  | 1             | 0      | Highest | 12.03           | 2.37       | 10.22      | 19.88            | Vertical                 | Pass       |
| 16QAM                                      | 1             | 0      | Lowest  | 10.85           | 2.35       | 10.13      | 18.63            | Horizontal               | Pass       |
|  | 1             | 0      | Middle  | 10.59           | 2.36       | 10.16      | 18.39            | Horizontal               | Pass       |
|  | 1             | 0      | Highest | 10.42           | 2.37       | 10.22      | 18.27            | Horizontal               | Pass       |
|  | 1             | 0      | Lowest  | 12.16           | 2.35       | 10.13      | 19.94            | Vertical                 | Pass       |
|  | 1             | 0      | Middle  | 12.04           | 2.36       | 10.16      | 19.84            | Vertical                 | Pass       |
|  | 1             | 0      | Highest | 11.73           | 2.37       | 10.22      | 19.58            | Vertical                 | Pass       |
| Limit                                      | EIRP<1W=30dBm |        |         |                 |            |            |                  |                          |            |

| Radiated Power (EIRP) for LTE Band 66 / 10M |               |        |         |                 |            |            |                  |                          |            |
|---|---------------|--------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result          |            |            |                  |                          | Conclusion |
|   | Size          | Offset |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK  | 1             | 0      | Lowest  | 10.78           | 2.35       | 10.13      | 18.56            | Horizontal               | Pass       |
|   | 1             | 0      | Middle  | 10.7            | 2.36       | 10.16      | 18.50            | Horizontal               | Pass       |
|   | 1             | 0      | Highest | 10.62           | 2.37       | 10.22      | 18.47            | Horizontal               | Pass       |
|   | 1             | 0      | Lowest  | 12.11           | 2.35       | 10.13      | 19.89            | Vertical                 | Pass       |
|   | 1             | 0      | Middle  | 12.18           | 2.36       | 10.16      | 19.98            | Vertical                 | Pass       |
|   | 1             | 0      | Highest | 12              | 2.37       | 10.22      | 19.85            | Vertical                 | Pass       |
| 16QAM                                       | 1             | 0      | Lowest  | 10.49           | 2.35       | 10.13      | 18.27            | Horizontal               | Pass       |
|   | 1             | 0      | Middle  | 10.3            | 2.36       | 10.16      | 18.10            | Horizontal               | Pass       |
|   | 1             | 0      | Highest | 10.2            | 2.37       | 10.22      | 18.05            | Horizontal               | Pass       |
|   | 1             | 0      | Lowest  | 11.95           | 2.35       | 10.13      | 19.73            | Vertical                 | Pass       |
|   | 1             | 0      | Middle  | 11.78           | 2.36       | 10.16      | 19.58            | Vertical                 | Pass       |
|   | 1             | 0      | Highest | 11.64           | 2.37       | 10.22      | 19.49            | Vertical                 | Pass       |
| Limit                                       | EIRP<1W=30dBm |        |         |                 |            |            |                  |                          |            |



| Radiated Power (EIRP) for LTE Band 66 / 15M |               |         |         |                 |            |            |                  |                          |            |
|---|---------------|---------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                  | RB            |         | Channel | Result          |            |            |                  |                          | Conclusion |
|   | Size          | Offset  |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK  | 1             | 0       | Lowest  | 10.51           | 2.35       | 10.13      | 18.29            | Horizontal               | Pass       |
|   | 1             | 0       | Middle  | 10.5            | 2.36       | 10.16      | 18.30            | Horizontal               | Pass       |
|   | 1             | 0       | Highest | 10.16           | 2.37       | 10.22      | 18.01            | Horizontal               | Pass       |
|   | 1             | 0       | Lowest  | 11.85           | 2.35       | 10.13      | 19.63            | Vertical                 | Pass       |
|   | 1             | 0       | Middle  | 11.87           | 2.36       | 10.16      | 19.67            | Vertical                 | Pass       |
|   | 1             | 0       | Highest | 11.54           | 2.37       | 10.22      | 19.39            | Vertical                 | Pass       |
| 16QAM                                       | 1             | 0       | Lowest  | 9.98            | 2.35       | 10.13      | 17.76            | Horizontal               | Pass       |
|   | 1             | 0       | Middle  | 10.23           | 2.36       | 10.16      | 18.03            | Horizontal               | Pass       |
|   | 1             | 0       | Highest | 9.71            | 2.37       | 10.22      | 17.56            | Horizontal               | Pass       |
|   | 1             | 0       | Lowest  | 11.46           | 2.35       | 10.13      | 19.24            | Vertical                 | Pass       |
|   | 1             | 0       | Middle  | 11.62           | 2.36       | 10.16      | 19.42            | Vertical                 | Pass       |
| 1   | 0             | Highest | 11.16   | 2.37            | 10.22      | 19.01      | Vertical         | Pass                     |            |
| Limit                                       | EIRP<1W=30dBm |         |         |                 |            |            |                  |                          |            |

| Radiated Power (EIRP) for LTE Band 66 / 20M |               |         |         |                 |            |            |                  |                          |            |
|---|---------------|---------|---------|-----------------|------------|------------|------------------|--------------------------|------------|
| Modulation                                  | RB            |         | Channel | Result          |            |            |                  |                          | Conclusion |
|   | Size          | Offset  |         | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP |            |
| QPSK  | 1             | 0       | Lowest  | 11.47           | 2.35       | 10.13      | 19.25            | Horizontal               | Pass       |
|   | 1             | 0       | Middle  | 11.37           | 2.36       | 10.16      | 19.17            | Horizontal               | Pass       |
|   | 1             | 0       | Highest | 11.26           | 2.37       | 10.22      | 19.11            | Horizontal               | Pass       |
|   | 1             | 0       | Lowest  | 12.91           | 2.35       | 10.13      | 20.69            | Vertical                 | Pass       |
|   | 1             | 0       | Middle  | 12.71           | 2.36       | 10.16      | 20.51            | Vertical                 | Pass       |
|   | 1             | 0       | Highest | 12.59           | 2.37       | 10.22      | 20.44            | Vertical                 | Pass       |
| 16QAM                                       | 1             | 0       | Lowest  | 11.13           | 2.35       | 10.13      | 18.91            | Horizontal               | Pass       |
|   | 1             | 0       | Middle  | 11.16           | 2.36       | 10.16      | 18.96            | Horizontal               | Pass       |
|   | 1             | 0       | Highest | 11.09           | 2.37       | 10.22      | 18.94            | Horizontal               | Pass       |
|   | 1             | 0       | Lowest  | 12.56           | 2.35       | 10.13      | 20.34            | Vertical                 | Pass       |
|   | 1             | 0       | Middle  | 12.5            | 2.36       | 10.16      | 20.30            | Vertical                 | Pass       |
| 1   | 0             | Highest | 12.53   | 2.37            | 10.22      | 20.38      | Vertical         | Pass                     |            |
| Limit                                       | EIRP<1W=30dBm |         |         |                 |            |            |                  |                          |            |



## 6. OCCUPIED BANDWIDTH

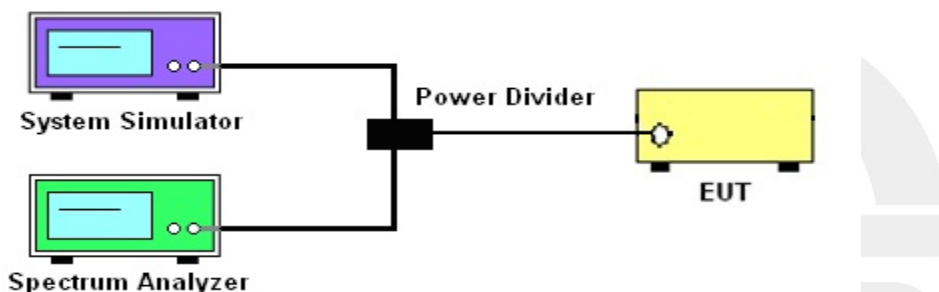
### 6.1 DESCRIPTION OF OCCUPIED BANDWIDTH MEASUREMENT

#### 6.1.1 MEASUREMENT METHOD

1.The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

2.The 26 db emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 db below the maximum in-band spectral density of the modulated signal. spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

#### 6.1.2 TEST SETUP



#### 6.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01 v03r01 Section 4.1.and 4.2
2. The EUT was connected to spectrum and system simulator via a power divider
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure the Occupied Bandwidth of the spectrum analyzer
5. Measure and record the Occupied Bandwidth from the Spectrum Analyzer.

|             | LTE    |        |        |        |         |         |
|-------------|--------|--------|--------|--------|---------|---------|
| LTE BW      | 1.4M   | 3M     | 5M     | 10M    | 15M     | 20M     |
| Span        | 3MHz   | 6MHz   | 10MHz  | 20MHz  | 30MHz   | 40MHz   |
| RBW         | 30kHz  | 30kHz  | 100kHz | 100kHz | 300kHz  | 300kHz  |
| VBW         | 100kHz | 100kHz | 300kHz | 300kHz | 1000kHz | 1000kHz |
| Detector    | PK     | PK     | PK     | PK     | PK      | PK      |
| Trace       | Max    | Max    | Max    | Max    | Max     | Max     |
| Sweep Count | Auto   | Auto   | Auto   | Auto   | Auto    | Auto    |



6.1.4 MEASUREMENT RESULT

| LTE Band 2 Bandwidth [MHz] |        |        |         |        |         |         |         |
|----------------------------|--------|--------|---------|--------|---------|---------|---------|
| BW [MHz]                   | Mod    | Lowest |         | Middle |         | Highest |         |
|                            |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 1.4                        | QPSK   | 1.0967 | 1.278   | 1.092  | 1.283   | 1.0945  | 1.291   |
| 1.4                        | 16-QAM | 1.0946 | 1.281   | 1.098  | 1.309   | 1.09    | 1.275   |
| 3                          | QPSK   | 2.681  | 2.855   | 2.675  | 2.861   | 2.678   | 2.856   |
| 3                          | 16-QAM | 2.676  | 2.848   | 2.671  | 2.849   | 2.6734  | 2.863   |
| 5                          | QPSK   | 4.523  | 5.191   | 4.509  | 5.155   | 4.527   | 5.219   |
| 5                          | 16-QAM | 4.519  | 5.346   | 4.54   | 5.184   | 4.5385  | 5.36    |
| 10                         | QPSK   | 8.937  | 9.887   | 8.949  | 9.881   | 8.949   | 9.889   |
| 10                         | 16-QAM | 8.9436 | 9.729   | 8.9512 | 9.806   | 8.945   | 9.824   |
| 15                         | QPSK   | 13.473 | 14.99   | 13.527 | 15.01   | 13.478  | 15.27   |
| 15                         | 16-QAM | 13.471 | 14.95   | 13.516 | 14.99   | 13.505  | 14.98   |
| 20                         | QPSK   | 17.876 | 19.53   | 17.958 | 19.61   | 17.961  | 19.52   |
| 20                         | 16-QAM | 17.912 | 19.53   | 17.929 | 19.63   | 17.955  | 19.5    |

| LTE Band 4 Bandwidth [MHz] |        |        |         |        |         |         |         |
|----------------------------|--------|--------|---------|--------|---------|---------|---------|
| BW [MHz]                   | Mod    | Lowest |         | Middle |         | Highest |         |
|                            |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 1.4                        | QPSK   | 1.0864 | 1.277   | 1.0949 | 1.289   | 1.1004  | 1.283   |
| 1.4                        | 16-QAM | 1.094  | 1.287   | 1.099  | 1.308   | 1.0903  | 1.275   |
| 3                          | QPSK   | 2.681  | 2.859   | 2.675  | 2.86    | 2.6738  | 2.849   |
| 3                          | 16-QAM | 2.6713 | 2.859   | 2.675  | 2.84    | 2.672   | 2.856   |
| 5                          | QPSK   | 4.518  | 5.206   | 4.511  | 5.131   | 4.53    | 5.131   |
| 5                          | 16-QAM | 4.517  | 5.159   | 4.538  | 5.177   | 4.542   | 5.212   |
| 10                         | QPSK   | 8.945  | 9.843   | 8.958  | 9.931   | 8.941   | 9.759   |
| 10                         | 16-QAM | 8.949  | 9.812   | 8.952  | 9.807   | 8.944   | 9.761   |
| 15                         | QPSK   | 13.453 | 15.04   | 13.492 | 15.05   | 13.505  | 15.2    |
| 15                         | 16-QAM | 13.505 | 15      | 13.506 | 15.02   | 13.502  | 14.9    |
| 20                         | QPSK   | 17.754 | 18.64   | 17.942 | 19.54   | 17.922  | 19.48   |
| 20                         | 16-QAM | 17.947 | 19.57   | 17.926 | 19.57   | 17.915  | 19.5    |

| LTE Band 5 Bandwidth [MHz] |        |        |         |        |         |         |         |
|----------------------------|--------|--------|---------|--------|---------|---------|---------|
| BW [MHz]                   | Mod    | Lowest |         | Middle |         | Highest |         |
|                            |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 1.4                        | QPSK   | 1.0865 | 1.293   | 1.095  | 1.284   | 1.101   | 1.28    |
| 1.4                        | 16-QAM | 1.0944 | 1.284   | 1.0967 | 1.308   | 1.087   | 1.275   |
| 3                          | QPSK   | 2.674  | 2.859   | 2.677  | 2.846   | 2.676   | 2.861   |
| 3                          | 16-QAM | 2.672  | 2.854   | 2.671  | 2.864   | 2.674   | 2.849   |
| 5                          | QPSK   | 4.519  | 5.233   | 4.5057 | 5.127   | 4.533   | 5.185   |
| 5                          | 16-QAM | 4.5183 | 5.172   | 4.532  | 5.152   | 4.547   | 5.184   |
| 10                         | QPSK   | 8.956  | 9.871   | 8.94   | 9.851   | 8.974   | 9.846   |
| 10                         | 16-QAM | 8.961  | 9.856   | 8.935  | 9.773   | 8.956   | 9.887   |



| LTE Band 7 Bandwidth [MHz]  |        |        |         |        |         |         |         |
|-----------------------------|--------|--------|---------|--------|---------|---------|---------|
| BW [MHz]                    | Mod    | Lowest |         | Middle |         | Highest |         |
|                             |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 5                           | QPSK   | 4.522  | 5.191   | 4.531  | 5.211   | 4.518   | 5.197   |
| 5                           | 16-QAM | 4.542  | 5.196   | 4.539  | 5.212   | 4.512   | 5.159   |
| 10                          | QPSK   | 8.934  | 9.819   | 8.948  | 9.891   | 8.96    | 9.816   |
| 10                          | 16-QAM | 8.936  | 9.675   | 8.948  | 9.795   | 8.937   | 9.819   |
| 15                          | QPSK   | 13.459 | 15.05   | 13.506 | 15.21   | 13.472  | 14.95   |
| 15                          | 16-QAM | 13.48  | 15.02   | 13.511 | 15.02   | 13.459  | 14.86   |
| 20                          | QPSK   | 17.893 | 19.4    | 17.959 | 19.66   | 17.859  | 19.33   |
| 20                          | 16-QAM | 17.951 | 19.61   | 17.94  | 19.62   | 17.845  | 19.38   |
| LTE Band 12 Bandwidth [MHz] |        |        |         |        |         |         |         |
| BW [MHz]                    | Mod    | Lowest |         | Middle |         | Highest |         |
|                             |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 1.4                         | QPSK   | 1.096  | 1.29    | 1.1    | 1.281   | 1.0924  | 1.281   |
| 1.4                         | 16-QAM | 1.1    | 1.306   | 1.09   | 1.275   | 1.093   | 1.278   |
| 3                           | QPSK   | 2.68   | 2.856   | 2.6757 | 2.866   | 2.6738  | 2.856   |
| 3                           | 16-QAM | 2.673  | 2.857   | 2.676  | 2.853   | 2.6713  | 2.852   |
| 5                           | QPSK   | 4.508  | 5.141   | 4.534  | 5.163   | 4.517   | 5.196   |
| 5                           | 16-QAM | 4.538  | 5.168   | 4.538  | 5.216   | 4.513   | 5.143   |
| 10                          | QPSK   | 8.932  | 9.774   | 8.958  | 9.907   | 8.936   | 9.826   |
| 10                          | 16-QAM | 8.942  | 9.733   | 8.946  | 9.849   | 8.9474  | 9.756   |
| LTE Band 13 Bandwidth [MHz] |        |        |         |        |         |         |         |
| BW [MHz]                    | Mod    | Lowest |         | Middle |         | Highest |         |
|                             |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 5                           | QPSK   | 4.5278 | 5.145   | 4.518  | 5.195   | 4.517   | 5.185   |
| 5                           | 16-QAM | 4.529  | 5.235   | 4.5179 | 5.125   | 4.536   | 5.211   |
| 10                          | QPSK   |        |         | 8.955  | 9.906   |         |         |
| 10                          | 16-QAM |        |         | 8.935  | 9.693   |         |         |
| LTE Band 17 Bandwidth [MHz] |        |        |         |        |         |         |         |
| BW [MHz]                    | Mod    | Lowest |         | Middle |         | Highest |         |
|                             |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 5                           | QPSK   | 4.515  | 5.172   | 4.531  | 5.168   | 4.5154  | 5.187   |
| 5                           | 16-QAM | 4.5389 | 5.252   | 4.5201 | 5.16    | 4.5376  | 5.154   |
| 10                          | QPSK   | 8.9613 | 10.02   | 8.9521 | 9.896   | 8.9568  | 9.924   |
| 10                          | 16-QAM | 8.9496 | 9.721   | 8.9527 | 9.824   | 8.9528  | 9.858   |
| LTE Band 25 Bandwidth [MHz] |        |        |         |        |         |         |         |
| BW [MHz]                    | Mod    | Lowest |         | Middle |         | Highest |         |
|                             |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 1.4                         | QPSK   | 1.098  | 1.304   | 1.105  | 1.305   | 1.0928  | 1.281   |
| 1.4                         | 16-QAM | 1.0927 | 1.285   | 1.096  | 1.304   | 1.0986  | 1.305   |
| 3                           | QPSK   | 2.683  | 2.854   | 2.677  | 2.866   | 2.672   | 2.856   |
| 3                           | 16-QAM | 2.677  | 2.866   | 2.677  | 2.85    | 2.67    | 2.849   |
| 5                           | QPSK   | 4.526  | 5.213   | 4.537  | 5.214   | 4.516   | 5.159   |
| 5                           | 16-QAM | 4.545  | 5.306   | 4.526  | 5.236   | 4.531   | 5.156   |
| 10                          | QPSK   | 8.94   | 9.977   | 8.962  | 10.07   | 8.921   | 9.659   |
| 10                          | 16-QAM | 8.962  | 10.57   | 8.953  | 9.836   | 8.931   | 9.722   |
| 15                          | QPSK   | 13.508 | 14.87   | 13.521 | 15.22   | 13.483  | 15      |
| 15                          | 16-QAM | 13.487 | 14.93   | 13.515 | 15.09   | 13.485  | 14.93   |
| 20                          | QPSK   | 17.855 | 19.35   | 17.925 | 19.66   | 17.943  | 19.7    |
| 20                          | 16-QAM | 17.897 | 19.38   | 17.942 | 19.77   | 17.906  | 19.46   |



| LTE Band 26 Bandwidth [MHz] |        |        |         |         |         |
|-----------------------------|--------|--------|---------|---------|---------|
| BW [MHz]                    | Mod    | Middle |         | Highest |         |
|                             |        | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 1.4                         | QPSK   | 1.102  | 1.276   | 1.0919  | 1.28    |
| 1.4                         | 16-QAM | 1.0901 | 1.273   | 1.0932  | 1.293   |
| 3                           | QPSK   | 2.6753 | 2.841   | 2.6777  | 2.857   |
| 3                           | 16-QAM | 2.6729 | 2.855   | 2.6699  | 2.848   |
| 5                           | QPSK   | 4.4847 | 4.931   | 4.5072  | 4.957   |
| 5                           | 16-QAM | 4.5098 | 4.936   | 4.5021  | 4.944   |
| 10                          | QPSK   | 8.9509 | 9.652   | 8.9604  | 9.551   |
| 10                          | 16-QAM | 8.9527 | 9.551   | 8.9441  | 9.576   |
| 15                          | QPSK   | 13.532 | 14.71   | 13.403  | 14.45   |
| 15                          | 16-QAM | 13.53  | 14.57   | 13.432  | 14.52   |

| LTE Band 26(Part 90) Bandwidth [MHz] |        |        |         |
|--------------------------------------|--------|--------|---------|
| BW [MHz]                             | Mod    | Lowest |         |
|                                      |        | 99% BW | 26dB BW |
| 1.4                                  | QPSK   | 1.0975 | 1.307   |
| 1.4                                  | 16-QAM | 1.0993 | 1.308   |
| 3                                    | QPSK   | 2.6799 | 2.872   |
| 3                                    | 16-QAM | 2.6776 | 2.863   |
| 5                                    | QPSK   | 4.5037 | 4.932   |
| 5                                    | 16-QAM | 4.49   | 4.898   |
| 10                                   | QPSK   | 8.9456 | 9.621   |
| 10                                   | 16-QAM | 8.9370 | 9.515   |

| LTE Band 41 Bandwidth [MHz] |        |        |         |        |         |         |         |
|-----------------------------|--------|--------|---------|--------|---------|---------|---------|
| BW [MHz]                    | Mod    | Lowest |         | Middle |         | Highest |         |
|                             |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 5                           | QPSK   | 4.495  | 5.098   | 4.492  | 4.936   | 4.509   | 4.863   |
| 5                           | 16-QAM | 4.494  | 4.991   | 4.488  | 5.178   | 4.495   | 5.145   |
| 10                          | QPSK   | 8.935  | 9.592   | 8.939  | 9.834   | 8.942   | 9.544   |
| 10                          | 16-QAM | 8.927  | 9.424   | 8.932  | 9.805   | 8.933   | 9.49    |
| 15                          | QPSK   | 13.463 | 14.91   | 13.437 | 15.17   | 13.506  | 14.98   |
| 15                          | 16-QAM | 13.464 | 14.79   | 13.492 | 15.25   | 13.498  | 15.76   |
| 20                          | QPSK   | 17.88  | 19.37   | 17.896 | 19.16   | 17.949  | 19.76   |
| 20                          | 16-QAM | 17.907 | 20.22   | 17.887 | 19.1    | 17.925  | 19.43   |

| LTE Band 66 Bandwidth [MHz] |        |        |         |        |         |         |         |
|-----------------------------|--------|--------|---------|--------|---------|---------|---------|
| BW [MHz]                    | Mod    | Lowest |         | Middle |         | Highest |         |
|                             |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 1.4                         | QPSK   | 1.1031 | 1.283   | 1.0907 | 1.298   | 1.0931  | 1.29    |
| 1.4                         | 16-QAM | 1.0988 | 1.305   | 1.089  | 1.27    | 1.094   | 1.29    |
| 3                           | QPSK   | 2.68   | 2.85    | 2.678  | 2.863   | 2.675   | 2.853   |
| 3                           | 16-QAM | 2.673  | 2.859   | 2.6755 | 2.85    | 2.672   | 2.854   |
| 5                           | QPSK   | 4.5084 | 5.152   | 4.335  | 5.184   | 4.514   | 5.196   |
| 5                           | 16-QAM | 4.534  | 5.178   | 4.5423 | 5.226   | 4.513   | 5.151   |
| 10                          | QPSK   | 8.957  | 9.912   | 8.939  | 9.783   | 8.945   | 9.862   |
| 10                          | 16-QAM | 8.951  | 9.833   | 8.95   | 9.682   | 8.953   | 9.809   |
| 15                          | QPSK   | 13.45  | 15.01   | 13.484 | 15.07   | 13.53   | 15.08   |
| 15                          | 16-QAM | 13.495 | 15.02   | 13.5   | 14.97   | 13.506  | 14.98   |
| 20                          | QPSK   | 17.896 | 19.56   | 17.929 | 19.73   | 17.926  | 19.33   |
| 20                          | 16-QAM | 17.952 | 19.55   | 17.926 | 19.58   | 17.92   | 19.66   |

Note: Test chart See Appendix A



## 7. CONDUCTED BAND EDGE

### 7.1 DESCRIPTION OF CONDUCTED BAND EDGE MEASUREMENT

#### 7.1.1 MEASUREMENT METHOD

##### 1. §22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

##### 2. §24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed

##### 3. §27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

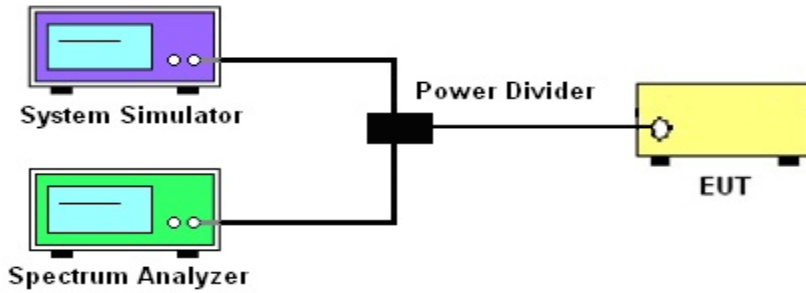
##### 4. §27.53(m)(4)

For operations in the 2500 MHz ~ 2570 MHz band this section, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

##### 5. §27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

### 7.1.2 TEST SETUP



### 7.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26 2015 Section 5.7.
  2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
  3. The band edges of low and high channels for the highest RF powers were measured. Set RBW  $\geq 1\%$  EBW in the 1MHz band immediately outside and adjacent to the band edge.
  4. Set spectrum analyzer with RMS/AVG detector.
  5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
  6. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)
 
$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$
- Band 7:
- $$= P(W) - [55 + 10\log(P)] \text{ (dB)}$$
- $$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$
- $$= -25\text{dBm}.$$

|             | LTE    |        |        |        |         |         |
|-------------|--------|--------|--------|--------|---------|---------|
| LTE BW      | 1.4M   | 3M     | 5M     | 10M    | 15M     | 20M     |
| Span        | 12MHz  | 13MHz  | 15MHz  | 20MHz  | 25MHz   | 30MHz   |
| RBW         | 30kHz  | 30kHz  | 100kHz | 100kHz | 300kHz  | 300kHz  |
| VBW         | 100kHz | 100kHz | 300kHz | 300kHz | 1000kHz | 1000kHz |
| Detector    | RMS    | RMS    | RMS    | RMS    | RMS     | RMS     |
| Trace       | Max    | Max    | Max    | Max    | Max     | Max     |
| Sweep Count | Auto   | Auto   | Auto   | Auto   | Auto    | Auto    |

### 7.1.4 MEASUREMENT RESULT

Note: Test chart See Appendix B

## 8. CONDUCTED SPURIOUS EMISSION

### 8.1 DESCRIPTION OF CONDUCTED SPURIOUS EMISSION MEASUREMENT

#### 8.1.1 MEASUREMENT METHOD

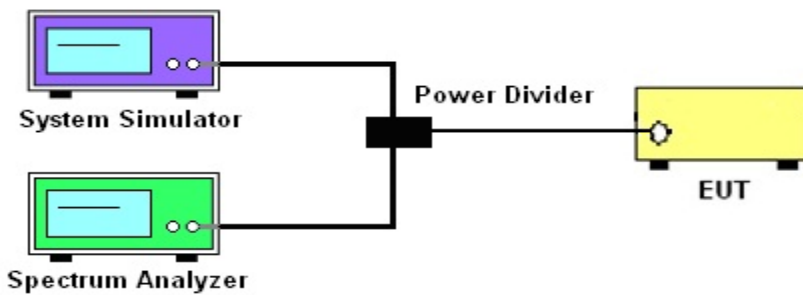
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 7:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 8.1.2 TEST SETUP



#### 8.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26 2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement
4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from  $43 + 10\log(P)\text{dB}$  below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)] \text{ (dB)} = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
 $= -13\text{dBm}$ .  
 For Band 7:  $P(W) - [43 + 10\log(P)] \text{ (dB)} = -25\text{dBm}$

|          | LTE     |         |         |         |         |         |
|----------|---------|---------|---------|---------|---------|---------|
| LTE BW   | 1.4M    | 3M      | 5M      | 10M     | 15M     | 20M     |
| Span     | Auto    | Auto    | Auto    | Auto    | Auto    | Auto    |
| RBW      | 1000kHz | 1000kHz | 1000kHz | 1000kHz | 1000kHz | 1000kHz |
| VBW      | 3000kHz | 3000kHz | 3000kHz | 3000kHz | 3000kHz | 3000kHz |
| Detector | PK      | PK      | PK      | PK      | PK      | PK      |
| Trace    | Max     | Max     | Max     | Max     | Max     | Max     |

#### 8.1.4 TEST RESULTS

Note: Test chart See Appendix C

## 9. RADIATED SPURIOUS EMISSION

### 9.1 DESCRIPTION OF RADIATED SPURIOUS EMISSION

#### 9.1.1 MEASUREMENT METHOD

The radiated spurious emission was measured by substitution method according to ANSI C63.26 2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB. For Band 7 The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 9.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as,  $RSE = Rx (dBuV) + CL (dB) + SA (dB) + Gain (dBi) - 107 (dBuV \text{ to } dBm)$  The SA is calibrated using following setup.

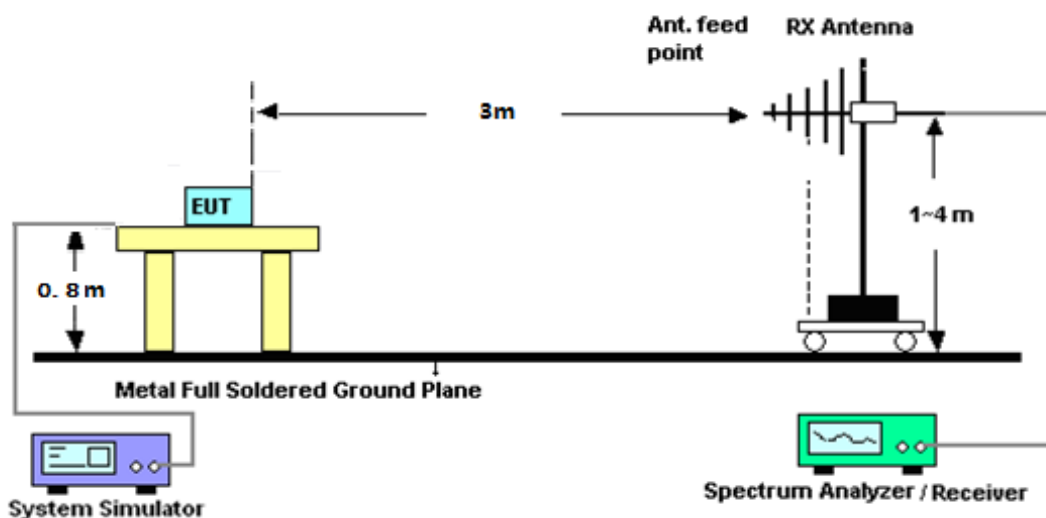
b) EUT was placed on 1.5 m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth.

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below:

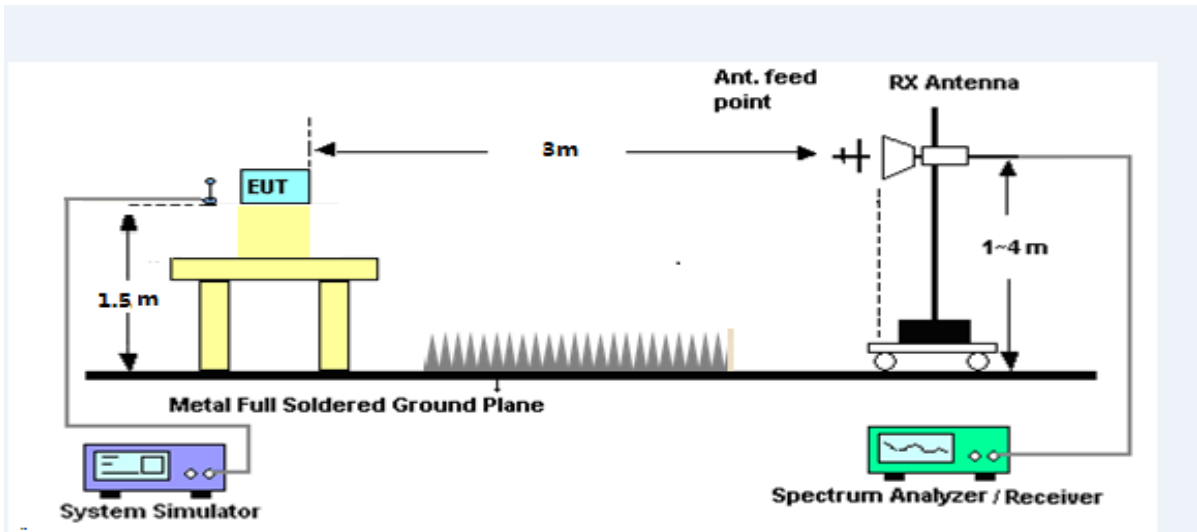
$$\text{Power} = \text{PMea} + \text{ARpl}$$

For radiated test from 30MHz to 1GHz





For radiated test from above 1GHz



### 9.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26 2015 Section 5.5.
2. The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
 $= -13$ dBm

For Band 7:

The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= [30 + 10\log(P)]$  (dBm) -  $[55 + 10\log(P)]$  (dB)  
 $= -25$ dBm

EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

ERP (dBm) = EIRP - 2.15



9.1.4 TEST RESULTS

| LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |                     |          |       |        |        |        |          |
|---|---------------------|----------|-------|--------|--------|--------|----------|
| Frequency(MHz)  | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|   |                     |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3701.33   | -34.56              | 12.60    | 12.93 | -34.89 | -13.00 | -21.89 | H        |
| 5552.16   | -34.60              | 13.10    | 17.11 | -38.61 | -13.00 | -25.61 | H        |
| 7402.79   | -32.79              | 11.50    | 22.20 | -43.49 | -13.00 | -30.49 | H        |
| 3701.33   | -35.79              | 12.60    | 12.93 | -36.12 | -13.00 | -23.12 | V        |
| 5552.16   | -35.05              | 13.10    | 17.11 | -39.06 | -13.00 | -26.06 | V        |
| 7402.79   | -32.10              | 11.50    | 22.20 | -42.80 | -13.00 | -29.80 | V        |
| LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |                     |          |       |        |        |        |          |
| Frequency(MHz)  | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|   |                     |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3760.19   | -33.77              | 12.60    | 12.93 | -34.10 | -13.00 | -21.10 | H        |
| 5640.13   | -35.27              | 13.10    | 17.11 | -39.28 | -13.00 | -26.28 | H        |
| 7520.18   | -33.17              | 11.50    | 22.20 | -43.87 | -13.00 | -30.87 | H        |
| 3760.19   | -35.26              | 12.60    | 12.93 | -35.59 | -13.00 | -22.59 | V        |
| 5640.13   | -34.73              | 13.10    | 17.11 | -38.74 | -13.00 | -25.74 | V        |
| 7520.18   | -32.47              | 11.50    | 22.20 | -43.17 | -13.00 | -30.17 | V        |
| LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |                     |          |       |        |        |        |          |
| Frequency(MHz)  | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|   |                     |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3818.48   | -34.34              | 12.60    | 12.93 | -34.67 | -13.00 | -21.67 | H        |
| 5727.89   | -34.11              | 13.10    | 17.11 | -38.12 | -13.00 | -25.12 | H        |
| 7637.01   | -32.67              | 11.50    | 22.20 | -43.37 | -13.00 | -30.37 | H        |
| 3818.48   | -35.17              | 12.60    | 12.93 | -35.50 | -13.00 | -22.50 | V        |
| 5727.89   | -33.79              | 13.10    | 17.11 | -37.80 | -13.00 | -24.80 | V        |
| 7637.01   | -33.09              | 11.50    | 22.20 | -43.79 | -13.00 | -30.79 | V        |



| LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |                     |          |       |        |        |        |          |
|---|---------------------|----------|-------|--------|--------|--------|----------|
| Frequency(MHz)  | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|   |                     |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3703.47   | -33.73              | 12.60    | 12.93 | -34.06 | -13.00 | -21.06 | H        |
| 5554.36   | -34.70              | 13.10    | 17.11 | -38.71 | -13.00 | -25.71 | H        |
| 7406.57   | -32.56              | 11.50    | 22.20 | -43.26 | -13.00 | -30.26 | H        |
| 3703.47   | -34.64              | 12.60    | 12.93 | -34.97 | -13.00 | -21.97 | V        |
| 5554.36   | -34.93              | 13.10    | 17.11 | -38.94 | -13.00 | -25.94 | V        |
| 7406.57   | -32.88              | 11.50    | 22.20 | -43.58 | -13.00 | -30.58 | V        |
| LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |                     |          |       |        |        |        |          |
| Frequency(MHz)  | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|   |                     |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3760.18   | -33.75              | 12.60    | 12.93 | -34.08 | -13.00 | -21.08 | H        |
| 5640.29   | -35.47              | 13.10    | 17.11 | -39.48 | -13.00 | -26.48 | H        |
| 7520.27   | -33.19              | 11.50    | 22.20 | -43.89 | -13.00 | -30.89 | H        |
| 3760.18   | -35.61              | 12.60    | 12.93 | -35.94 | -13.00 | -22.94 | V        |
| 5640.29   | -35.12              | 13.10    | 17.11 | -39.13 | -13.00 | -26.13 | V        |
| 7520.27   | -32.71              | 11.50    | 22.20 | -43.41 | -13.00 | -30.41 | V        |
| LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |                     |          |       |        |        |        |          |
| Frequency(MHz)  | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|   |                     |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3816.72   | -34.08              | 12.60    | 12.93 | -34.41 | -13.00 | -21.41 | H        |
| 5724.86   | -34.72              | 13.10    | 17.11 | -38.73 | -13.00 | -25.73 | H        |
| 7633.38   | -33.58              | 11.50    | 22.20 | -44.28 | -13.00 | -31.28 | H        |
| 3816.72   | -35.21              | 12.60    | 12.93 | -35.54 | -13.00 | -22.54 | V        |
| 5724.86   | -34.93              | 13.10    | 17.11 | -38.94 | -13.00 | -25.94 | V        |
| 7633.38   | -33.21              | 11.50    | 22.20 | -43.91 | -13.00 | -30.91 | V        |



| LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |                     |          |       |        |        |        |          |
|---|---------------------|----------|-------|--------|--------|--------|----------|
| Frequency(MHz)  | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|   |                     |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3705.05   | -34.19              | 12.60    | 12.93 | -34.52 | -13.00 | -21.52 | H        |
| 5557.86   | -35.22              | 13.10    | 17.11 | -39.23 | -13.00 | -26.23 | H        |
| 7410.74   | -33.11              | 11.50    | 22.20 | -43.81 | -13.00 | -30.81 | H        |
| 3705.05   | -35.05              | 12.60    | 12.93 | -35.38 | -13.00 | -22.38 | V        |
| 5557.86   | -34.79              | 13.10    | 17.11 | -38.80 | -13.00 | -25.80 | V        |
| 7410.74   | -33.21              | 11.50    | 22.20 | -43.91 | -13.00 | -30.91 | V        |
| LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |                     |          |       |        |        |        |          |
| Frequency(MHz)  | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|   |                     |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3760.20   | -33.96              | 12.60    | 12.93 | -34.29 | -13.00 | -21.29 | H        |
| 5640.22   | -34.64              | 13.10    | 17.11 | -38.65 | -13.00 | -25.65 | H        |
| 7520.21   | -32.62              | 11.50    | 22.20 | -43.32 | -13.00 | -30.32 | H        |
| 3760.20   | -34.75              | 12.60    | 12.93 | -35.08 | -13.00 | -22.08 | V        |
| 5640.22   | -33.90              | 13.10    | 17.11 | -37.91 | -13.00 | -24.91 | V        |
| 7520.21   | -32.64              | 11.50    | 22.20 | -43.34 | -13.00 | -30.34 | V        |
| LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |                     |          |       |        |        |        |          |
| Frequency(MHz)  | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|   |                     |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3814.32   | -34.59              | 12.60    | 12.93 | -34.92 | -13.00 | -21.92 | H        |
| 5721.40   | -35.01              | 13.10    | 17.11 | -39.02 | -13.00 | -26.02 | H        |
| 7628.41   | -32.76              | 11.50    | 22.20 | -43.46 | -13.00 | -30.46 | H        |
| 3814.32   | -35.76              | 12.60    | 12.93 | -36.09 | -13.00 | -23.09 | V        |
| 5721.40   | -34.32              | 13.10    | 17.11 | -38.33 | -13.00 | -25.33 | V        |
| 7628.41   | -32.10              | 11.50    | 22.20 | -42.80 | -13.00 | -29.80 | V        |



| LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |                     |          |       |        |        |        |          |
|--|---------------------|----------|-------|--------|--------|--------|----------|
| Frequency(MHz)   | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|  |                     |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3710.30  | -33.54              | 12.60    | 12.93 | -33.87 | -13.00 | -20.87 | H        |
| 5565.56  | -34.75              | 13.10    | 17.11 | -38.76 | -13.00 | -25.76 | H        |
| 7421.08  | -33.54              | 11.50    | 22.20 | -44.24 | -13.00 | -31.24 | H        |
| 3710.30  | -34.99              | 12.60    | 12.93 | -35.32 | -13.00 | -22.32 | V        |
| 5565.56  | -34.88              | 13.10    | 17.11 | -38.89 | -13.00 | -25.89 | V        |
| 7421.08  | -32.41              | 11.50    | 22.20 | -43.11 | -13.00 | -30.11 | V        |
| LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |                     |          |       |        |        |        |          |
| Frequency(MHz)   | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|  |                     |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3759.91  | -33.96              | 12.60    | 12.93 | -34.29 | -13.00 | -21.29 | H        |
| 5640.03  | -35.09              | 13.10    | 17.11 | -39.10 | -13.00 | -26.10 | H        |
| 7520.28  | -32.53              | 11.50    | 22.20 | -43.23 | -13.00 | -30.23 | H        |
| 3759.91  | -35.85              | 12.60    | 12.93 | -36.18 | -13.00 | -23.18 | V        |
| 5640.03  | -34.55              | 13.10    | 17.11 | -38.56 | -13.00 | -25.56 | V        |
| 7520.28  | -31.75              | 11.50    | 22.20 | -42.45 | -13.00 | -29.45 | V        |
| LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |                     |          |       |        |        |        |          |
| Frequency(MHz)   | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|  |                     |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3809.33  | -33.62              | 12.60    | 12.93 | -33.95 | -13.00 | -20.95 | H        |
| 5713.62  | -34.35              | 13.10    | 17.11 | -38.36 | -13.00 | -25.36 | H        |
| 7617.88  | -32.47              | 11.50    | 22.20 | -43.17 | -13.00 | -30.17 | H        |
| 3809.33  | -35.14              | 12.60    | 12.93 | -35.47 | -13.00 | -22.47 | V        |
| 5713.62  | -35.16              | 13.10    | 17.11 | -39.17 | -13.00 | -26.17 | V        |
| 7617.88  | -33.06              | 11.50    | 22.20 | -43.76 | -13.00 | -30.76 | V        |