

## Frequency Stability

|        | Condition       |         | Freq.Error (Hz) | Frequency Stability (ppm) | Verdict |
|--------|-----------------|---------|-----------------|---------------------------|---------|
|        | Temperature     | Voltage | GMSK            | GMSK                      |         |
| GSM850 | Extreme (50°C)  | NV      | 2.90            | 0.00347                   | PASS    |
|        | Extreme (40°C)  |         | 14.59           | 0.01745                   | PASS    |
|        | Extreme (30°C)  |         | 12.53           | 0.01497                   | PASS    |
|        | Extreme (20°C)  |         | 16.10           | 0.01924                   | PASS    |
|        | Extreme (10°C)  |         | 13.22           | 0.01580                   | PASS    |
|        | Extreme (0°C)   |         | 8.67            | 0.01036                   | PASS    |
|        | Extreme (-10°C) |         | 1.10            | 0.00132                   | PASS    |
|        | Extreme (-20°C) |         | 16.48           | 0.01970                   | PASS    |
|        | Extreme (-30°C) |         | 15.49           | 0.01852                   | PASS    |
|        | 25°C            | LV      | 17.56           | 0.02098                   | PASS    |
|        |                 | HV      | 15.08           | 0.01803                   | PASS    |

| GSM1900 Fc(MHz) | Condition       |         | F Low (MHz) | F High (MHz) | Limit (MHz) | Verdict |
|-----------------|-----------------|---------|-------------|--------------|-------------|---------|
| 1850.2          | BANDWIDTH       | 0.2MHz  |             |              |             |         |
|                 | Temperature     | Voltage |             |              |             |         |
|                 | Extreme (50°C)  | NV      | 1850.063    | 1850.337     | 1850-1910   | PASS    |
|                 | Extreme (40°C)  |         | 1850.077    | 1850.323     | 1850-1910   | PASS    |
|                 | Extreme (30°C)  |         | 1850.074    | 1850.326     | 1850-1910   | PASS    |
|                 | Extreme (20°C)  |         | 1850.070    | 1850.330     | 1850-1910   | PASS    |
|                 | Extreme (10°C)  |         | 1850.070    | 1850.330     | 1850-1910   | PASS    |
|                 | Extreme (0°C)   |         | 1850.075    | 1850.325     | 1850-1910   | PASS    |
|                 | Extreme (-10°C) |         | 1850.068    | 1850.332     | 1850-1910   | PASS    |
|                 | Extreme (-20°C) |         | 1850.068    | 1850.332     | 1850-1910   | PASS    |
|                 | Extreme (-30°C) |         | 1850.078    | 1850.322     | 1850-1910   | PASS    |
|                 | 25°C            | LV      | 1850.063    | 1850.337     | 1850-1910   | PASS    |
|                 |                 | HV      | 1850.073    | 1850.327     | 1850-1910   | PASS    |
|                 |                 |         |             |              |             |         |
| GSM1900 Fc(MHz) | Condition       |         | F Low (MHz) | F High (MHz) | Limit (MHz) | Verdict |
| 1909.8          | BANDWIDTH       | 0.2MHz  |             |              |             |         |
|                 | Temperature     | Voltage |             |              |             |         |
|                 | Extreme (50°C)  | NV      | 1909.671    | 1909.929     | 1850-1910   | PASS    |
|                 | Extreme (40°C)  |         | 1909.672    | 1909.928     | 1850-1910   | PASS    |
|                 | Extreme (30°C)  |         | 1909.660    | 1909.940     | 1850-1910   | PASS    |
|                 | Extreme (20°C)  |         | 1909.677    | 1909.923     | 1850-1910   | PASS    |
|                 | Extreme (10°C)  |         | 1909.664    | 1909.936     | 1850-1910   | PASS    |

|  |                 |    |          |          |           |      |
|--|-----------------|----|----------|----------|-----------|------|
|  | Extreme (0°C)   |    | 1909.679 | 1909.921 | 1850-1910 | PASS |
|  | Extreme (-10°C) |    | 1909.665 | 1909.935 | 1850-1910 | PASS |
|  | Extreme (-20°C) |    | 1909.668 | 1909.932 | 1850-1910 | PASS |
|  | Extreme (-30°C) |    | 1909.663 | 1909.937 | 1850-1910 | PASS |
|  | 25°C            | LV | 1909.662 | 1909.938 | 1850-1910 | PASS |
|  |                 | HV | 1909.668 | 1909.932 | 1850-1910 | PASS |

| WCDMA<br>B2<br>Fc(MHz) | Condition       |         | F Low (MHz) | F High (MHz) | Limit<br>(MHz) | Verdict |
|------------------------|-----------------|---------|-------------|--------------|----------------|---------|
| 1852.4                 | BANDWIDTH       | 5MHz    | QPSK        |              |                |         |
|                        | Temperature     | Voltage |             |              |                |         |
|                        | Extreme (50°C)  | NV      | 1850.320    | 1854.480     | 1850-1910      | PASS    |
|                        | Extreme (40°C)  |         | 1850.317    | 1854.483     | 1850-1910      | PASS    |
|                        | Extreme (30°C)  |         | 1850.325    | 1854.475     | 1850-1910      | PASS    |
|                        | Extreme (20°C)  |         | 1850.318    | 1854.482     | 1850-1910      | PASS    |
|                        | Extreme (10°C)  |         | 1850.323    | 1854.477     | 1850-1910      | PASS    |
|                        | Extreme (0°C)   |         | 1850.323    | 1854.477     | 1850-1910      | PASS    |
|                        | Extreme (-10°C) |         | 1850.320    | 1854.480     | 1850-1910      | PASS    |
|                        | Extreme (-20°C) |         | 1850.324    | 1854.476     | 1850-1910      | PASS    |
|                        | Extreme (-30°C) |         | 1850.326    | 1854.474     | 1850-1910      | PASS    |
|                        | 25°C            | LV      | 1850.323    | 1854.477     | 1850-1910      | PASS    |
|                        |                 | HV      | 1850.326    | 1854.474     | 1850-1910      | PASS    |
|                        |                 |         |             |              |                |         |
| WCDMA<br>B2<br>Fc(MHz) | Condition       |         | F Low (MHz) | F High (MHz) | Limit<br>(MHz) | Verdict |
| 1907.6                 | BANDWIDTH       | 5MHz    | QPSK        |              |                |         |
|                        | Temperature     | Voltage |             |              |                |         |
|                        | Extreme (50°C)  | NV      | 1905.529    | 1909.671     | 1850-1910      | PASS    |
|                        | Extreme (40°C)  |         | 1905.530    | 1909.670     | 1850-1910      | PASS    |
|                        | Extreme (30°C)  |         | 1905.517    | 1909.683     | 1850-1910      | PASS    |
|                        | Extreme (20°C)  |         | 1905.529    | 1909.671     | 1850-1910      | PASS    |
|                        | Extreme (10°C)  |         | 1905.522    | 1909.678     | 1850-1910      | PASS    |
|                        | Extreme (0°C)   |         | 1905.520    | 1909.680     | 1850-1910      | PASS    |
|                        | Extreme (-10°C) |         | 1905.522    | 1909.678     | 1850-1910      | PASS    |
|                        | Extreme (-20°C) |         | 1905.520    | 1909.680     | 1850-1910      | PASS    |
|                        | Extreme (-30°C) |         | 1905.519    | 1909.681     | 1850-1910      | PASS    |
|                        | 25°C            | LV      | 1905.526    | 1909.674     | 1850-1910      | PASS    |
|                        |                 | HV      | 1905.527    | 1909.673     | 1850-1910      | PASS    |
|                        |                 |         |             |              |                |         |
| WCDMA                  | Condition       |         | F Low (MHz) | F High (MHz) | Limit          | Verdict |

| B4<br>Fc(MHz)          |                |         |             |              | (MHz)       |         |
|------------------------|----------------|---------|-------------|--------------|-------------|---------|
| 1712.4                 | BANDWIDTH      | 5MHz    |             |              |             |         |
|                        | Temperature    | Voltage | QPSK        |              |             |         |
|                        | Extreme (50℃)  | NV      | 1710.322    | 1714.478     | 1710-1755   | PASS    |
|                        | Extreme (40℃)  |         | 1710.323    | 1714.477     | 1710-1755   | PASS    |
|                        | Extreme (30℃)  |         | 1710.316    | 1714.484     | 1710-1755   | PASS    |
|                        | Extreme (20℃)  |         | 1710.319    | 1714.481     | 1710-1755   | PASS    |
|                        | Extreme (10℃)  |         | 1710.322    | 1714.478     | 1710-1755   | PASS    |
|                        | Extreme (0℃)   |         | 1710.318    | 1714.482     | 1710-1755   | PASS    |
|                        | Extreme (-10℃) |         | 1710.318    | 1714.482     | 1710-1755   | PASS    |
|                        | Extreme (-20℃) |         | 1710.323    | 1714.477     | 1710-1755   | PASS    |
|                        | Extreme (-30℃) |         | 1710.324    | 1714.476     | 1710-1755   | PASS    |
|                        | 25℃            | LV      | 1710.325    | 1714.475     | 1710-1755   | PASS    |
|                        |                | HV      | 1710.328    | 1714.472     | 1710-1755   | PASS    |
|                        |                |         |             |              |             |         |
| WCDMA<br>B4<br>Fc(MHz) | Condition      |         | F Low (MHz) | F High (MHz) | Limit (MHz) | Verdict |
| 1752.6                 | BANDWIDTH      | 5MHz    |             |              |             |         |
|                        | Temperature    | Voltage | QPSK        |              |             |         |
|                        | Extreme (50℃)  | NV      | 1750.529    | 1754.671     | 1710-1755   | PASS    |
|                        | Extreme (40℃)  |         | 1750.515    | 1754.685     | 1710-1755   | PASS    |
|                        | Extreme (30℃)  |         | 1750.516    | 1754.684     | 1710-1755   | PASS    |
|                        | Extreme (20℃)  |         | 1750.516    | 1754.684     | 1710-1755   | PASS    |
|                        | Extreme (10℃)  |         | 1750.521    | 1754.679     | 1710-1755   | PASS    |
|                        | Extreme (0℃)   |         | 1750.526    | 1754.674     | 1710-1755   | PASS    |
|                        | Extreme (-10℃) |         | 1750.523    | 1754.677     | 1710-1755   | PASS    |
|                        | Extreme (-20℃) |         | 1750.519    | 1754.681     | 1710-1755   | PASS    |
|                        | Extreme (-30℃) |         | 1750.525    | 1754.675     | 1710-1755   | PASS    |
|                        | 25℃            | LV      | 1750.524    | 1754.676     | 1710-1755   | PASS    |
|                        |                | HV      | 1750.523    | 1754.677     | 1710-1755   | PASS    |

| WCDMA<br>B5 | Condition      |         | Freq.Error (Hz) | Frequency Stability (ppm) | Verdict |
|-------------|----------------|---------|-----------------|---------------------------|---------|
|             | Temperature    | Voltage | QPSK            | QPSK                      |         |
|             | Extreme (50°C) | NV      | 10.79           | 0.01290                   | PASS    |
|             | Extreme (40°C) |         | 16.46           | 0.01968                   | PASS    |
|             | Extreme (30°C) |         | 2.12            | 0.00253                   | PASS    |
|             | Extreme (20°C) |         | 4.86            | 0.00581                   | PASS    |
|             | Extreme (10°C) |         | 12.79           | 0.01529                   | PASS    |

|  |                 |    |       |         |      |
|--|-----------------|----|-------|---------|------|
|  | Extreme (0°C)   |    | 15.83 | 0.01893 | PASS |
|  | Extreme (-10°C) |    | 3.98  | 0.00476 | PASS |
|  | Extreme (-20°C) |    | 16.35 | 0.01955 | PASS |
|  | Extreme (-30°C) |    | 17.02 | 0.02034 | PASS |
|  | 25°C            | LV | 7.46  | 0.00892 | PASS |
|  |                 | HV | 13.83 | 0.01654 | PASS |

| LTE B2<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
|-------------------|-----------------|---------|----------------|-----------------|----------------|---------|
| 1850.7            | BANDWIDTH       | 1.4MHz  | QPSK           | QPSK            | 1850-1910      | PASS    |
|                   | Temperature     | Voltage |                |                 |                |         |
|                   | Extreme (50°C)  | NV      | 1850.147       | 1851.253        | 1850-1910      | PASS    |
|                   | Extreme (40°C)  |         | 1850.146       | 1851.254        | 1850-1910      | PASS    |
|                   | Extreme (30°C)  |         | 1850.148       | 1851.252        | 1850-1910      | PASS    |
|                   | Extreme (20°C)  |         | 1850.147       | 1851.253        | 1850-1910      | PASS    |
|                   | Extreme (10°C)  |         | 1850.149       | 1851.251        | 1850-1910      | PASS    |
|                   | Extreme (0°C)   |         | 1850.147       | 1851.253        | 1850-1910      | PASS    |
|                   | Extreme (-10°C) |         | 1850.146       | 1851.254        | 1850-1910      | PASS    |
|                   | Extreme (-20°C) |         | 1850.149       | 1851.251        | 1850-1910      | PASS    |
|                   | Extreme (-30°C) |         | 1850.148       | 1851.252        | 1850-1910      | PASS    |
|                   | 25°C            | LV      | 1850.150       | 1851.250        | 1850-1910      | PASS    |
|                   |                 | HV      | 1850.146       | 1851.254        | 1850-1910      | PASS    |
|                   |                 |         |                |                 |                |         |
| LTE B2<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1851.5            | BANDWIDTH       | 3MHz    | QPSK           | QPSK            | 1850-1910      | PASS    |
|                   | Temperature     | Voltage |                |                 |                |         |
|                   | Extreme (50°C)  | NV      | 1850.150       | 1852.850        | 1850-1910      | PASS    |
|                   | Extreme (40°C)  |         | 1850.148       | 1852.852        | 1850-1910      | PASS    |
|                   | Extreme (30°C)  |         | 1850.148       | 1852.852        | 1850-1910      | PASS    |
|                   | Extreme (20°C)  |         | 1850.150       | 1852.850        | 1850-1910      | PASS    |
|                   | Extreme (10°C)  |         | 1850.149       | 1852.851        | 1850-1910      | PASS    |
|                   | Extreme (0°C)   |         | 1850.145       | 1852.855        | 1850-1910      | PASS    |
|                   | Extreme (-10°C) |         | 1850.147       | 1852.853        | 1850-1910      | PASS    |
|                   | Extreme (-20°C) |         | 1850.146       | 1852.854        | 1850-1910      | PASS    |
|                   | Extreme (-30°C) |         | 1850.146       | 1852.854        | 1850-1910      | PASS    |
|                   | 25°C            | LV      | 1850.148       | 1852.852        | 1850-1910      | PASS    |
|                   |                 | HV      | 1850.146       | 1852.854        | 1850-1910      | PASS    |
|                   |                 |         |                |                 |                |         |
| LTE B2<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1852.5            | BANDWIDTH       | 5MHz    | QPSK           | QPSK            | 1850-1910      | PASS    |
|                   | Temperature     | Voltage |                |                 |                |         |
|                   | Extreme (50°C)  | NV      | 1850.215       | 1854.785        | 1850-1910      | PASS    |
|                   | Extreme (40°C)  |         | 1850.264       | 1854.736        | 1850-1910      | PASS    |
|                   | Extreme (30°C)  |         | 1850.255       | 1854.745        | 1850-1910      | PASS    |
|                   | Extreme (20°C)  |         | 1850.299       | 1854.701        | 1850-1910      | PASS    |

|                   |                 |         |                |                 |                |         |
|-------------------|-----------------|---------|----------------|-----------------|----------------|---------|
|                   | Extreme (10°C)  |         | 1850.235       | 1854.765        | 1850-1910      | PASS    |
|                   | Extreme (0°C)   |         | 1850.233       | 1854.767        | 1850-1910      | PASS    |
|                   | Extreme (-10°C) |         | 1850.246       | 1854.754        | 1850-1910      | PASS    |
|                   | Extreme (-20°C) |         | 1850.247       | 1854.753        | 1850-1910      | PASS    |
|                   | Extreme (-30°C) |         | 1850.215       | 1854.785        | 1850-1910      | PASS    |
|                   | 25°C            | LV      | 1850.285       | 1854.715        | 1850-1910      | PASS    |
|                   |                 | HV      | 1850.258       | 1854.742        | 1850-1910      | PASS    |
|                   |                 |         |                |                 |                |         |
| LTE B2<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1855              | BANDWIDTH       | 10MHz   | QPSK           |                 |                |         |
|                   | Temperature     | Voltage |                |                 |                |         |
|                   | Extreme (50°C)  | NV      | 1850.571       | 1859.429        | 1850-1910      | PASS    |
|                   | Extreme (40°C)  |         | 1850.646       | 1859.354        | 1850-1910      | PASS    |
|                   | Extreme (30°C)  |         | 1850.612       | 1859.388        | 1850-1910      | PASS    |
|                   | Extreme (20°C)  |         | 1850.563       | 1859.437        | 1850-1910      | PASS    |
|                   | Extreme (10°C)  |         | 1850.611       | 1859.389        | 1850-1910      | PASS    |
|                   | Extreme (0°C)   |         | 1850.607       | 1859.393        | 1850-1910      | PASS    |
|                   | Extreme (-10°C) |         | 1850.570       | 1859.430        | 1850-1910      | PASS    |
|                   | Extreme (-20°C) |         | 1850.626       | 1859.374        | 1850-1910      | PASS    |
|                   | Extreme (-30°C) |         | 1850.640       | 1859.360        | 1850-1910      | PASS    |
|                   | 25°C            | LV      | 1850.589       | 1859.411        | 1850-1910      | PASS    |
|                   |                 | HV      | 1850.592       | 1859.408        | 1850-1910      | PASS    |
|                   |                 |         |                |                 |                |         |
| LTE B2<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1857.5            | BANDWIDTH       | 15MHz   | QPSK           |                 |                |         |
|                   | Temperature     | Voltage |                |                 |                |         |
|                   | Extreme (50°C)  | NV      | 1850.751       | 1864.249        | 1850-1910      | PASS    |
|                   | Extreme (40°C)  |         | 1850.706       | 1864.294        | 1850-1910      | PASS    |
|                   | Extreme (30°C)  |         | 1850.781       | 1864.219        | 1850-1910      | PASS    |
|                   | Extreme (20°C)  |         | 1850.752       | 1864.248        | 1850-1910      | PASS    |
|                   | Extreme (10°C)  |         | 1850.798       | 1864.202        | 1850-1910      | PASS    |
|                   | Extreme (0°C)   |         | 1850.767       | 1864.233        | 1850-1910      | PASS    |
|                   | Extreme (-10°C) |         | 1850.724       | 1864.276        | 1850-1910      | PASS    |
|                   | Extreme (-20°C) |         | 1850.711       | 1864.289        | 1850-1910      | PASS    |
|                   | Extreme (-30°C) |         | 1850.770       | 1864.230        | 1850-1910      | PASS    |
|                   | 25°C            | LV      | 1850.753       | 1864.247        | 1850-1910      | PASS    |
|                   |                 | HV      | 1850.759       | 1864.241        | 1850-1910      | PASS    |
|                   |                 |         |                |                 |                |         |
| LTE B2<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |

|                   |                |         |                |                 |                |         |
|-------------------|----------------|---------|----------------|-----------------|----------------|---------|
| 1860              | BANDWIDTH      | 20MHz   |                |                 |                |         |
|                   | Temperature    | Voltage | QPSK           |                 |                |         |
|                   | Extreme (50℃)  | NV      | 1851.048       | 1868.952        | 1850-1910      | PASS    |
|                   | Extreme (40℃)  |         | 1851.005       | 1868.995        | 1850-1910      | PASS    |
|                   | Extreme (30℃)  |         | 1851.019       | 1868.981        | 1850-1910      | PASS    |
|                   | Extreme (20℃)  |         | 1851.037       | 1868.963        | 1850-1910      | PASS    |
|                   | Extreme (10℃)  |         | 1851.035       | 1868.965        | 1850-1910      | PASS    |
|                   | Extreme (0℃)   |         | 1851.046       | 1868.954        | 1850-1910      | PASS    |
|                   | Extreme (-10℃) |         | 1851.042       | 1868.958        | 1850-1910      | PASS    |
|                   | Extreme (-20℃) |         | 1851.049       | 1868.951        | 1850-1910      | PASS    |
|                   | Extreme (-30℃) |         | 1851.003       | 1868.997        | 1850-1910      | PASS    |
|                   | 25℃            | LV      | 1851.046       | 1868.954        | 1850-1910      | PASS    |
|                   |                | HV      | 1851.024       | 1868.976        | 1850-1910      | PASS    |
|                   |                |         |                |                 |                |         |
| LTE B2<br>Fc(MHz) | Condition      |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1909.3            | BANDWIDTH      | 1.4MHz  |                |                 |                |         |
|                   | Temperature    | Voltage | QPSK           |                 |                |         |
|                   | Extreme (50℃)  | NV      | 1908.749       | 1909.851        | 1850-1910      | PASS    |
|                   | Extreme (40℃)  |         | 1908.749       | 1909.851        | 1850-1910      | PASS    |
|                   | Extreme (30℃)  |         | 1908.748       | 1909.852        | 1850-1910      | PASS    |
|                   | Extreme (20℃)  |         | 1908.749       | 1909.851        | 1850-1910      | PASS    |
|                   | Extreme (10℃)  |         | 1908.747       | 1909.853        | 1850-1910      | PASS    |
|                   | Extreme (0℃)   |         | 1908.749       | 1909.851        | 1850-1910      | PASS    |
|                   | Extreme (-10℃) |         | 1908.748       | 1909.852        | 1850-1910      | PASS    |
|                   | Extreme (-20℃) |         | 1908.750       | 1909.850        | 1850-1910      | PASS    |
|                   | Extreme (-30℃) |         | 1908.748       | 1909.852        | 1850-1910      | PASS    |
|                   | 25℃            | LV      | 1908.747       | 1909.853        | 1850-1910      | PASS    |
|                   |                | HV      | 1908.749       | 1909.851        | 1850-1910      | PASS    |
|                   |                |         |                |                 |                |         |
| LTE B2<br>Fc(MHz) | Condition      |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1908.5            | BANDWIDTH      | 3MHz    |                |                 |                |         |
|                   | Temperature    | Voltage | QPSK           |                 |                |         |
|                   | Extreme (50℃)  | NV      | 1907.148       | 1909.852        | 1850-1910      | PASS    |
|                   | Extreme (40℃)  |         | 1907.147       | 1909.853        | 1850-1910      | PASS    |
|                   | Extreme (30℃)  |         | 1907.149       | 1909.851        | 1850-1910      | PASS    |
|                   | Extreme (20℃)  |         | 1907.146       | 1909.854        | 1850-1910      | PASS    |
|                   | Extreme (10℃)  |         | 1907.148       | 1909.852        | 1850-1910      | PASS    |
|                   | Extreme (0℃)   |         | 1907.150       | 1909.850        | 1850-1910      | PASS    |
|                   | Extreme (-10℃) |         | 1907.147       | 1909.853        | 1850-1910      | PASS    |
|                   |                |         |                |                 |                |         |
|                   |                |         |                |                 |                |         |

|                   |                 |         |                |                 |                |         |
|-------------------|-----------------|---------|----------------|-----------------|----------------|---------|
|                   | Extreme (-20°C) |         | 1907.147       | 1909.853        | 1850-1910      | PASS    |
|                   | Extreme (-30°C) |         | 1907.146       | 1909.854        | 1850-1910      | PASS    |
|                   | 25°C            | LV      | 1907.145       | 1909.855        | 1850-1910      | PASS    |
|                   |                 | HV      | 1907.149       | 1909.851        | 1850-1910      | PASS    |
|                   |                 |         |                |                 |                |         |
| LTE B2<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1907.5            | BANDWIDTH       | 5MHz    | QPSK           | QPSK            |                |         |
|                   | Temperature     | Voltage |                |                 |                |         |
|                   | Extreme (50°C)  | NV      | 1905.269       | 1909.731        | 1850-1910      | PASS    |
|                   | Extreme (40°C)  |         | 1905.248       | 1909.752        | 1850-1910      | PASS    |
|                   | Extreme (30°C)  |         | 1905.256       | 1909.744        | 1850-1910      | PASS    |
|                   | Extreme (20°C)  |         | 1905.228       | 1909.772        | 1850-1910      | PASS    |
|                   | Extreme (10°C)  |         | 1905.218       | 1909.782        | 1850-1910      | PASS    |
|                   | Extreme (0°C)   |         | 1905.208       | 1909.792        | 1850-1910      | PASS    |
|                   | Extreme (-10°C) |         | 1905.227       | 1909.773        | 1850-1910      | PASS    |
|                   | Extreme (-20°C) |         | 1905.243       | 1909.757        | 1850-1910      | PASS    |
|                   | Extreme (-30°C) |         | 1905.289       | 1909.711        | 1850-1910      | PASS    |
|                   | 25°C            | LV      | 1905.267       | 1909.733        | 1850-1910      | PASS    |
|                   |                 | HV      | 1905.228       | 1909.772        | 1850-1910      | PASS    |
|                   |                 |         |                |                 |                |         |
| LTE B2<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1905              | BANDWIDTH       | 10MHz   | QPSK           | QPSK            |                |         |
|                   | Temperature     | Voltage |                |                 |                |         |
|                   | Extreme (50°C)  | NV      | 1900.552       | 1909.448        | 1850-1910      | PASS    |
|                   | Extreme (40°C)  |         | 1900.562       | 1909.438        | 1850-1910      | PASS    |
|                   | Extreme (30°C)  |         | 1900.510       | 1909.490        | 1850-1910      | PASS    |
|                   | Extreme (20°C)  |         | 1900.595       | 1909.405        | 1850-1910      | PASS    |
|                   | Extreme (10°C)  |         | 1900.634       | 1909.366        | 1850-1910      | PASS    |
|                   | Extreme (0°C)   |         | 1900.508       | 1909.492        | 1850-1910      | PASS    |
|                   | Extreme (-10°C) |         | 1900.625       | 1909.375        | 1850-1910      | PASS    |
|                   | Extreme (-20°C) |         | 1900.584       | 1909.416        | 1850-1910      | PASS    |
|                   | Extreme (-30°C) |         | 1900.543       | 1909.457        | 1850-1910      | PASS    |
|                   | 25°C            | LV      | 1900.634       | 1909.366        | 1850-1910      | PASS    |
|                   |                 | HV      | 1900.579       | 1909.421        | 1850-1910      | PASS    |
|                   |                 |         |                |                 |                |         |
| LTE B2<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1902.5            | BANDWIDTH       | 15MHz   | QPSK           | QPSK            |                |         |
|                   | Temperature     | Voltage |                |                 |                |         |

|                   |                 |         |                |                 |                |           |
|-------------------|-----------------|---------|----------------|-----------------|----------------|-----------|
|                   | Extreme (50°C)  | NV      | 1895.776       | 1909.224        | 1850-1910      | PASS      |
|                   | Extreme (40°C)  |         | 1895.780       | 1909.220        | 1850-1910      | PASS      |
|                   | Extreme (30°C)  |         | 1895.789       | 1909.211        | 1850-1910      | PASS      |
|                   | Extreme (20°C)  |         | 1895.752       | 1909.248        | 1850-1910      | PASS      |
|                   | Extreme (10°C)  |         | 1895.759       | 1909.241        | 1850-1910      | PASS      |
|                   | Extreme (0°C)   |         | 1895.701       | 1909.299        | 1850-1910      | PASS      |
|                   | Extreme (-10°C) |         | 1895.740       | 1909.260        | 1850-1910      | PASS      |
|                   | Extreme (-20°C) |         | 1895.769       | 1909.231        | 1850-1910      | PASS      |
|                   | Extreme (-30°C) |         | 1895.752       | 1909.248        | 1850-1910      | PASS      |
|                   |                 | 25°C    | LV             | 1895.787        | 1909.213       | 1850-1910 |
|                   |                 | HV      | 1895.754       | 1909.246        | 1850-1910      | PASS      |
|                   |                 |         |                |                 |                |           |
| LTE B2<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict   |
| 1900              | BANDWIDTH       | 20MHz   |                |                 |                |           |
|                   | Temperature     | Voltage | QPSK           |                 |                |           |
|                   | Extreme (50°C)  | NV      | 1890.976       | 1909.024        | 1850-1910      | PASS      |
|                   | Extreme (40°C)  |         | 1890.953       | 1909.047        | 1850-1910      | PASS      |
|                   | Extreme (30°C)  |         | 1890.902       | 1909.098        | 1850-1910      | PASS      |
|                   | Extreme (20°C)  |         | 1890.942       | 1909.058        | 1850-1910      | PASS      |
|                   | Extreme (10°C)  |         | 1890.940       | 1909.060        | 1850-1910      | PASS      |
|                   | Extreme (0°C)   |         | 1890.949       | 1909.051        | 1850-1910      | PASS      |
|                   | Extreme (-10°C) |         | 1890.999       | 1909.001        | 1850-1910      | PASS      |
|                   | Extreme (-20°C) |         | 1890.908       | 1909.092        | 1850-1910      | PASS      |
|                   | Extreme (-30°C) |         | 1890.924       | 1909.076        | 1850-1910      | PASS      |
|                   |                 | 25°C    | LV             | 1890.912        | 1909.088       | 1850-1910 |
|                   |                 | HV      | 1890.979       | 1909.021        | 1850-1910      | PASS      |

| LTE B5 | Condition       |         | Freq.Error<br>(Hz) | Frequency<br>Stability (ppm) | Verdict |
|--------|-----------------|---------|--------------------|------------------------------|---------|
|        | BANDWIDTH       | 1.4MHz  |                    |                              |         |
|        | Temperature     | Voltage | QPSK               | QPSK                         |         |
| LTE B5 | Extreme (50°C)  | NV      | 2.73               | 0.00326                      | PASS    |
|        | Extreme (40°C)  |         | 17.75              | 0.02122                      | PASS    |
|        | Extreme (30°C)  |         | 10.32              | 0.01234                      | PASS    |
|        | Extreme (20°C)  |         | 11.34              | 0.01356                      | PASS    |
|        | Extreme (10°C)  |         | 2.47               | 0.00296                      | PASS    |
|        | Extreme (0°C)   |         | 17.10              | 0.02044                      | PASS    |
|        | Extreme (-10°C) |         | 11.60              | 0.01387                      | PASS    |
|        | Extreme (-20°C) |         | 10.29              | 0.01230                      | PASS    |
|        | Extreme (-30°C) |         | 2.80               | 0.00335                      | PASS    |
|        | 25°C            | LV      | 7.98               | 0.00954                      | PASS    |
|        |                 | HV      | 1.19               | 0.00143                      | PASS    |
| LTE B5 | Condition       |         | Freq.Error<br>(Hz) | Frequency<br>Stability (ppm) | Verdict |
|        | BANDWIDTH       | 3MHz    |                    |                              |         |
|        | Temperature     | Voltage | QPSK               | QPSK                         |         |
|        | Extreme (50°C)  | NV      | 8.50               | 0.01017                      | PASS    |
|        | Extreme (40°C)  |         | 16.05              | 0.01919                      | PASS    |
|        | Extreme (30°C)  |         | 1.84               | 0.00220                      | PASS    |
|        | Extreme (20°C)  |         | 6.82               | 0.00815                      | PASS    |
|        | Extreme (10°C)  |         | 16.84              | 0.02014                      | PASS    |
|        | Extreme (0°C)   |         | 10.31              | 0.01233                      | PASS    |
|        | Extreme (-10°C) |         | 13.24              | 0.01583                      | PASS    |
|        | Extreme (-20°C) |         | 16.37              | 0.01958                      | PASS    |
|        | Extreme (-30°C) |         | 16.07              | 0.01921                      | PASS    |
|        | 25°C            | LV      | 4.05               | 0.00484                      | PASS    |
|        |                 | HV      | 3.48               | 0.00416                      | PASS    |
| LTE B5 | Condition       |         | Freq.Error<br>(Hz) | Frequency<br>Stability (ppm) | Verdict |
|        | BANDWIDTH       | 5MHz    |                    |                              |         |
|        | Temperature     | Voltage | QPSK               | QPSK                         |         |
|        | Extreme (50°C)  | NV      | 14.99              | 0.01792                      | PASS    |
|        | Extreme (40°C)  |         | 11.00              | 0.01315                      | PASS    |
|        | Extreme (30°C)  |         | 2.50               | 0.00299                      | PASS    |
|        | Extreme (20°C)  |         | 13.43              | 0.01606                      | PASS    |
|        | Extreme (10°C)  |         | 11.43              | 0.01367                      | PASS    |
|        | Extreme (0°C)   |         | 12.63              | 0.01510                      | PASS    |

|        |                 |         |                    |                              |         |
|--------|-----------------|---------|--------------------|------------------------------|---------|
|        | Extreme (-10°C) |         | 13.75              | 0.01644                      | PASS    |
|        | Extreme (-20°C) |         | 1.47               | 0.00176                      | PASS    |
|        | Extreme (-30°C) |         | 9.06               | 0.01083                      | PASS    |
|        | 25°C            | LV      | 10.14              | 0.01212                      | PASS    |
|        |                 | HV      | 15.40              | 0.01841                      | PASS    |
| LTE B5 | Condition       |         | Freq.Error<br>(Hz) | Frequency<br>Stability (ppm) | Verdict |
|        | BANDWIDTH       | 10MHz   |                    |                              |         |
|        | Temperature     | Voltage | QPSK               | QPSK                         |         |
|        | Extreme (50°C)  | NV      | 5.50               | 0.00658                      | PASS    |
|        | Extreme (40°C)  |         | 15.80              | 0.01889                      | PASS    |
|        | Extreme (30°C)  |         | 17.82              | 0.02131                      | PASS    |
|        | Extreme (20°C)  |         | 6.50               | 0.00777                      | PASS    |
|        | Extreme (10°C)  |         | 6.55               | 0.00783                      | PASS    |
|        | Extreme (0°C)   |         | 14.19              | 0.01697                      | PASS    |
|        | Extreme (-10°C) |         | 1.95               | 0.00233                      | PASS    |
|        | Extreme (-20°C) |         | 16.59              | 0.01983                      | PASS    |
|        | Extreme (-30°C) |         | 1.90               | 0.00227                      | PASS    |
|        | 25°C            | LV      | 9.83               | 0.01175                      | PASS    |
|        |                 | HV      | 13.08              | 0.01563                      | PASS    |

|                     |                 |         |                    |                              |         |
|---------------------|-----------------|---------|--------------------|------------------------------|---------|
| LTE 26<br>(824-849) | Condition       |         | Freq.Error<br>(Hz) | Frequency<br>Stability (ppm) | Verdict |
|                     | BANDWIDTH       | 1.4MHz  |                    |                              |         |
|                     | Temperature     | Voltage | QPSK               | QPSK                         |         |
|                     | Extreme (50°C)  | NV      | 7.78               | 0.00930                      | PASS    |
|                     | Extreme (40°C)  |         | 3.42               | 0.00409                      | PASS    |
|                     | Extreme (30°C)  |         | 17.76              | 0.02123                      | PASS    |
|                     | Extreme (20°C)  |         | 2.27               | 0.00272                      | PASS    |
|                     | Extreme (10°C)  |         | 9.79               | 0.01170                      | PASS    |
|                     | Extreme (0°C)   |         | 6.74               | 0.00806                      | PASS    |
|                     | Extreme (-10°C) |         | 14.29              | 0.01708                      | PASS    |
|                     | Extreme (-20°C) |         | 14.41              | 0.01722                      | PASS    |
|                     | Extreme (-30°C) |         | 11.40              | 0.01362                      | PASS    |
|                     | 25°C            | LV      | 10.80              | 0.01291                      | PASS    |
|                     |                 | HV      | 9.98               | 0.01193                      | PASS    |
| LTE 26<br>(824-849) | Condition       |         | Freq.Error<br>(Hz) | Frequency<br>Stability (ppm) | Verdict |
|                     | BANDWIDTH       | 3MHz    |                    |                              |         |
|                     | Temperature     | Voltage | QPSK               | QPSK                         |         |

|                     |                 |         |                    |                              |         |
|---------------------|-----------------|---------|--------------------|------------------------------|---------|
|                     | Extreme (50°C)  | NV      | 16.31              | 0.01950                      | PASS    |
|                     | Extreme (40°C)  |         | 16.47              | 0.01969                      | PASS    |
|                     | Extreme (30°C)  |         | 6.89               | 0.00823                      | PASS    |
|                     | Extreme (20°C)  |         | 8.03               | 0.00960                      | PASS    |
|                     | Extreme (10°C)  |         | 12.26              | 0.01465                      | PASS    |
|                     | Extreme (0°C)   |         | 10.33              | 0.01235                      | PASS    |
|                     | Extreme (-10°C) |         | 12.83              | 0.01534                      | PASS    |
|                     | Extreme (-20°C) |         | 14.92              | 0.01783                      | PASS    |
|                     | Extreme (-30°C) |         | 14.49              | 0.01733                      | PASS    |
|                     | 25°C            | LV      | 1.11               | 0.00132                      | PASS    |
|                     |                 | HV      | 1.34               | 0.00160                      | PASS    |
| LTE 26<br>(824-849) | Condition       |         | Freq.Error<br>(Hz) | Frequency<br>Stability (ppm) | Verdict |
|                     | BANDWIDTH       | 5MHz    |                    |                              |         |
|                     | Temperature     | Voltage |                    |                              |         |
|                     | Extreme (50°C)  | NV      | 2.53               | 0.00303                      | PASS    |
|                     | Extreme (40°C)  |         | 13.94              | 0.01667                      | PASS    |
|                     | Extreme (30°C)  |         | 2.93               | 0.00351                      | PASS    |
|                     | Extreme (20°C)  |         | 3.64               | 0.00435                      | PASS    |
|                     | Extreme (10°C)  |         | 1.64               | 0.00196                      | PASS    |
|                     | Extreme (0°C)   |         | 9.25               | 0.01106                      | PASS    |
|                     | Extreme (-10°C) |         | 1.65               | 0.00197                      | PASS    |
|                     | Extreme (-20°C) |         | 15.48              | 0.01850                      | PASS    |
|                     | Extreme (-30°C) |         | 13.87              | 0.01658                      | PASS    |
|                     | 25°C            | LV      | 10.82              | 0.01294                      | PASS    |
|                     |                 | HV      | 1.08               | 0.00129                      | PASS    |
| LTE 26<br>(824-849) | Condition       |         | Freq.Error<br>(Hz) | Frequency<br>Stability (ppm) | Verdict |
|                     | BANDWIDTH       | 10MHz   |                    |                              |         |
|                     | Temperature     | Voltage |                    |                              |         |
|                     | Extreme (50°C)  | NV      | 11.84              | 0.01415                      | PASS    |
|                     | Extreme (40°C)  |         | 14.08              | 0.01683                      | PASS    |
|                     | Extreme (30°C)  |         | 3.07               | 0.00367                      | PASS    |
|                     | Extreme (20°C)  |         | 9.47               | 0.01132                      | PASS    |
|                     | Extreme (10°C)  |         | 12.67              | 0.01515                      | PASS    |
|                     | Extreme (0°C)   |         | 10.35              | 0.01237                      | PASS    |
|                     | Extreme (-10°C) |         | 15.70              | 0.01877                      | PASS    |
|                     | Extreme (-20°C) |         | 2.74               | 0.00327                      | PASS    |
|                     | Extreme (-30°C) |         | 4.31               | 0.00516                      | PASS    |
|                     | 25°C            | LV      | 17.37              | 0.02077                      | PASS    |
|                     |                 | HV      | 11.24              | 0.01344                      | PASS    |
| LTE 26              | Condition       |         | Freq.Error         | Frequency                    | Verdict |

| (824-849) |                 |         | (Hz)  | Stability (ppm) |      |
|-----------|-----------------|---------|-------|-----------------|------|
|           | BANDWIDTH       | 15MHz   |       |                 |      |
|           | Temperature     | Voltage | QPSK  | QPSK            |      |
|           | Extreme (50°C)  | NV      | 15.30 | 0.01829         | PASS |
|           | Extreme (40°C)  |         | 15.13 | 0.01809         | PASS |
|           | Extreme (30°C)  |         | 17.12 | 0.02046         | PASS |
|           | Extreme (20°C)  |         | 7.41  | 0.00886         | PASS |
|           | Extreme (10°C)  |         | 7.96  | 0.00952         | PASS |
|           | Extreme (0°C)   |         | 12.24 | 0.01463         | PASS |
|           | Extreme (-10°C) |         | 10.45 | 0.01250         | PASS |
|           | Extreme (-20°C) |         | 16.55 | 0.01978         | PASS |
|           | Extreme (-30°C) |         | 9.23  | 0.01103         | PASS |
|           | 25°C            | LV      | 7.01  | 0.00839         | PASS |
|           |                 | HV      | 5.08  | 0.00607         | PASS |

| LTE 26<br>(814-824) | Condition       |         | Freq.Error<br>(Hz) | Frequency<br>Stability (ppm) | Verdict |
|---------------------|-----------------|---------|--------------------|------------------------------|---------|
|                     | BANDWIDTH       | 1.4MHz  |                    |                              |         |
|                     | Temperature     | Voltage | QPSK               | QPSK                         |         |
|                     | Extreme (50°C)  | NV      | 10.87              | 0.01327                      | PASS    |
|                     | Extreme (40°C)  |         | 2.56               | 0.00312                      | PASS    |
|                     | Extreme (30°C)  |         | 8.13               | 0.00993                      | PASS    |
|                     | Extreme (20°C)  |         | 3.58               | 0.00437                      | PASS    |
|                     | Extreme (10°C)  |         | 2.75               | 0.00336                      | PASS    |
|                     | Extreme (0°C)   |         | 11.58              | 0.01413                      | PASS    |
|                     | Extreme (-10°C) |         | 17.24              | 0.02106                      | PASS    |
|                     | Extreme (-20°C) |         | 11.74              | 0.01434                      | PASS    |
|                     | Extreme (-30°C) |         | 16.10              | 0.01965                      | PASS    |
|                     | 25°C            | LV      | 14.87              | 0.01816                      | PASS    |
|                     |                 | HV      | 1.41               | 0.00172                      | PASS    |

  

| LTE 26<br>(814-824) | Condition       |         | Freq.Error<br>(Hz) | Frequency<br>Stability (ppm) | Verdict |
|---------------------|-----------------|---------|--------------------|------------------------------|---------|
|                     | BANDWIDTH       | 3MHz    |                    |                              |         |
|                     | Temperature     | Voltage | QPSK               | QPSK                         |         |
|                     | Extreme (50°C)  | NV      | 6.48               | 0.00791                      | PASS    |
|                     | Extreme (40°C)  |         | 16.39              | 0.02002                      | PASS    |
|                     | Extreme (30°C)  |         | 8.29               | 0.01012                      | PASS    |
|                     | Extreme (20°C)  |         | 10.14              | 0.01238                      | PASS    |
|                     | Extreme (10°C)  |         | 15.35              | 0.01874                      | PASS    |
|                     | Extreme (0°C)   |         | 2.23               | 0.00272                      | PASS    |
|                     | Extreme (-10°C) |         | 1.45               | 0.00176                      | PASS    |

|                     |                 |         |                    |                              |         |
|---------------------|-----------------|---------|--------------------|------------------------------|---------|
|                     | Extreme (-20°C) |         | 8.30               | 0.01014                      | PASS    |
|                     | Extreme (-30°C) |         | 1.13               | 0.00138                      | PASS    |
|                     | 25°C            | LV      | 7.99               | 0.00976                      | PASS    |
|                     |                 | HV      | 4.08               | 0.00498                      | PASS    |
| LTE 26<br>(814-824) | Condition       |         | Freq.Error<br>(Hz) | Frequency<br>Stability (ppm) | Verdict |
|                     | BANDWIDTH       | 5MHz    |                    |                              |         |
|                     | Temperature     | Voltage | QPSK               | QPSK                         |         |
|                     | Extreme (50°C)  | NV      | 11.39              | 0.01391                      | PASS    |
|                     | Extreme (40°C)  |         | 15.55              | 0.01899                      | PASS    |
|                     | Extreme (30°C)  |         | 13.48              | 0.01646                      | PASS    |
|                     | Extreme (20°C)  |         | 15.50              | 0.01893                      | PASS    |
|                     | Extreme (10°C)  |         | 15.28              | 0.01866                      | PASS    |
|                     | Extreme (0°C)   |         | 13.70              | 0.01672                      | PASS    |
|                     | Extreme (-10°C) |         | 2.06               | 0.00252                      | PASS    |
|                     | Extreme (-20°C) |         | 14.08              | 0.01719                      | PASS    |
|                     | Extreme (-30°C) |         | 10.76              | 0.01313                      | PASS    |
|                     | 25°C            | LV      | 10.98              | 0.01341                      | PASS    |
|                     |                 | HV      | 1.63               | 0.00199                      | PASS    |
| LTE 26<br>(814-824) | Condition       |         | Freq.Error<br>(Hz) | Frequency<br>Stability (ppm) | Verdict |
|                     | BANDWIDTH       | 10MHz   |                    |                              |         |
|                     | Temperature     | Voltage | QPSK               | QPSK                         |         |
|                     | Extreme (50°C)  | NV      | 1.55               | 0.00189                      | PASS    |
|                     | Extreme (40°C)  |         | 13.45              | 0.01642                      | PASS    |
|                     | Extreme (30°C)  |         | 14.71              | 0.01796                      | PASS    |
|                     | Extreme (20°C)  |         | 14.68              | 0.01793                      | PASS    |
|                     | Extreme (10°C)  |         | 14.89              | 0.01818                      | PASS    |
|                     | Extreme (0°C)   |         | 14.67              | 0.01791                      | PASS    |
|                     | Extreme (-10°C) |         | 1.43               | 0.00174                      | PASS    |
|                     | Extreme (-20°C) |         | 6.32               | 0.00771                      | PASS    |
|                     | Extreme (-30°C) |         | 6.39               | 0.00780                      | PASS    |
|                     | 25°C            | LV      | 2.29               | 0.00280                      | PASS    |
|                     |                 | HV      | 8.08               | 0.00987                      | PASS    |

| LTE B7<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
|-------------------|-----------------|---------|----------------|-----------------|----------------|---------|
| 2502.5            | BANDWIDTH       | 5MHz    | QPSK           | QPSK            | 2500-2570      | PASS    |
|                   | Temperature     | Voltage |                |                 |                |         |
|                   | Extreme (50°C)  | NV      | 2500.283       | 2504.717        | 2500-2570      | PASS    |
|                   | Extreme (40°C)  |         | 2500.237       | 2504.763        | 2500-2570      | PASS    |
|                   | Extreme (30°C)  |         | 2500.263       | 2504.737        | 2500-2570      | PASS    |
|                   | Extreme (20°C)  |         | 2500.293       | 2504.707        | 2500-2570      | PASS    |
|                   | Extreme (10°C)  |         | 2500.229       | 2504.771        | 2500-2570      | PASS    |
|                   | Extreme (0°C)   |         | 2500.206       | 2504.794        | 2500-2570      | PASS    |
|                   | Extreme (-10°C) |         | 2500.222       | 2504.778        | 2500-2570      | PASS    |
|                   | Extreme (-20°C) |         | 2500.289       | 2504.711        | 2500-2570      | PASS    |
|                   | Extreme (-30°C) |         | 2500.251       | 2504.749        | 2500-2570      | PASS    |
|                   | 25°C            | LV      | 2500.283       | 2504.717        | 2500-2570      | PASS    |
|                   |                 | HV      | 2500.292       | 2504.708        | 2500-2570      | PASS    |
|                   |                 |         |                |                 |                |         |
| LTE B7<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2505              | BANDWIDTH       | 10MHz   | QPSK           | QPSK            | 2500-2570      | PASS    |
|                   | Temperature     | Voltage |                |                 |                |         |
|                   | Extreme (50°C)  | NV      | 2500.586       | 2509.414        | 2500-2570      | PASS    |
|                   | Extreme (40°C)  |         | 2500.503       | 2509.497        | 2500-2570      | PASS    |
|                   | Extreme (30°C)  |         | 2500.519       | 2509.481        | 2500-2570      | PASS    |
|                   | Extreme (20°C)  |         | 2500.639       | 2509.361        | 2500-2570      | PASS    |
|                   | Extreme (10°C)  |         | 2500.566       | 2509.434        | 2500-2570      | PASS    |
|                   | Extreme (0°C)   |         | 2500.629       | 2509.371        | 2500-2570      | PASS    |
|                   | Extreme (-10°C) |         | 2500.632       | 2509.368        | 2500-2570      | PASS    |
|                   | Extreme (-20°C) |         | 2500.510       | 2509.490        | 2500-2570      | PASS    |
|                   | Extreme (-30°C) |         | 2500.503       | 2509.497        | 2500-2570      | PASS    |
|                   | 25°C            | LV      | 2500.514       | 2509.486        | 2500-2570      | PASS    |
|                   |                 | HV      | 2500.512       | 2509.488        | 2500-2570      | PASS    |
|                   |                 |         |                |                 |                |         |
| LTE B7<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2507.5            | BANDWIDTH       | 15MHz   | QPSK           | QPSK            | 2500-2570      | PASS    |
|                   | Temperature     | Voltage |                |                 |                |         |
|                   | Extreme (50°C)  | NV      | 2500.759       | 2514.241        | 2500-2570      | PASS    |
|                   | Extreme (40°C)  |         | 2500.776       | 2514.224        | 2500-2570      | PASS    |
|                   | Extreme (30°C)  |         | 2500.712       | 2514.288        | 2500-2570      | PASS    |
|                   | Extreme (20°C)  |         | 2500.750       | 2514.250        | 2500-2570      | PASS    |

|                   |                 |         |                |                 |                |         |
|-------------------|-----------------|---------|----------------|-----------------|----------------|---------|
|                   | Extreme (10°C)  |         | 2500.730       | 2514.270        | 2500-2570      | PASS    |
|                   | Extreme (0°C)   |         | 2500.773       | 2514.227        | 2500-2570      | PASS    |
|                   | Extreme (-10°C) |         | 2500.731       | 2514.269        | 2500-2570      | PASS    |
|                   | Extreme (-20°C) |         | 2500.746       | 2514.254        | 2500-2570      | PASS    |
|                   | Extreme (-30°C) |         | 2500.730       | 2514.270        | 2500-2570      | PASS    |
|                   | 25°C            | LV      | 2500.797       | 2514.203        | 2500-2570      | PASS    |
|                   |                 | HV      | 2500.754       | 2514.246        | 2500-2570      | PASS    |
|                   |                 |         |                |                 |                |         |
| LTE B7<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2510              | BANDWIDTH       | 20MHz   | QPSK           |                 |                |         |
|                   | Temperature     | Voltage |                |                 |                |         |
|                   | Extreme (50°C)  | NV      | 2501.037       | 2518.963        | 2500-2570      | PASS    |
|                   | Extreme (40°C)  |         | 2501.026       | 2518.974        | 2500-2570      | PASS    |
|                   | Extreme (30°C)  |         | 2501.034       | 2518.966        | 2500-2570      | PASS    |
|                   | Extreme (20°C)  |         | 2501.024       | 2518.976        | 2500-2570      | PASS    |
|                   | Extreme (10°C)  |         | 2501.013       | 2518.987        | 2500-2570      | PASS    |
|                   | Extreme (0°C)   |         | 2501.009       | 2518.991        | 2500-2570      | PASS    |
|                   | Extreme (-10°C) |         | 2501.036       | 2518.964        | 2500-2570      | PASS    |
|                   | Extreme (-20°C) |         | 2501.001       | 2518.999        | 2500-2570      | PASS    |
|                   | Extreme (-30°C) |         | 2501.014       | 2518.986        | 2500-2570      | PASS    |
|                   | 25°C            | LV      | 2501.039       | 2518.961        | 2500-2570      | PASS    |
|                   |                 | HV      | 2501.039       | 2518.961        | 2500-2570      | PASS    |
|                   |                 |         |                |                 |                |         |
| LTE B7<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2567.5            | BANDWIDTH       | 5MHz    | QPSK           |                 |                |         |
|                   | Temperature     | Voltage |                |                 |                |         |
|                   | Extreme (50°C)  | NV      | 2565.240       | 2569.760        | 2500-2570      | PASS    |
|                   | Extreme (40°C)  |         | 2565.233       | 2569.767        | 2500-2570      | PASS    |
|                   | Extreme (30°C)  |         | 2565.214       | 2569.786        | 2500-2570      | PASS    |
|                   | Extreme (20°C)  |         | 2565.256       | 2569.744        | 2500-2570      | PASS    |
|                   | Extreme (10°C)  |         | 2565.287       | 2569.713        | 2500-2570      | PASS    |
|                   | Extreme (0°C)   |         | 2565.286       | 2569.714        | 2500-2570      | PASS    |
|                   | Extreme (-10°C) |         | 2565.269       | 2569.731        | 2500-2570      | PASS    |
|                   | Extreme (-20°C) |         | 2565.223       | 2569.777        | 2500-2570      | PASS    |
|                   | Extreme (-30°C) |         | 2565.250       | 2569.750        | 2500-2570      | PASS    |
|                   | 25°C            | LV      | 2565.270       | 2569.730        | 2500-2570      | PASS    |
|                   |                 | HV      | 2565.252       | 2569.748        | 2500-2570      | PASS    |
|                   |                 |         |                |                 |                |         |
| LTE B7<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |

|                   |                |          |                |                 |                |         |
|-------------------|----------------|----------|----------------|-----------------|----------------|---------|
| 2565              | BANDWIDTH      | 10MHz    |                |                 |                |         |
|                   | Temperature    | Voltage  | QPSK           |                 |                |         |
|                   | Extreme (50℃)  | NV       | 2560.533       | 2569.467        | 2500-2570      | PASS    |
|                   | Extreme (40℃)  |          | 2560.530       | 2569.470        | 2500-2570      | PASS    |
|                   | Extreme (30℃)  |          | 2560.642       | 2569.358        | 2500-2570      | PASS    |
|                   | Extreme (20℃)  |          | 2560.638       | 2569.362        | 2500-2570      | PASS    |
|                   | Extreme (10℃)  |          | 2560.564       | 2569.436        | 2500-2570      | PASS    |
|                   | Extreme (0℃)   |          | 2560.595       | 2569.405        | 2500-2570      | PASS    |
|                   | Extreme (-10℃) |          | 2560.535       | 2569.465        | 2500-2570      | PASS    |
|                   | Extreme (-20℃) |          | 2560.574       | 2569.426        | 2500-2570      | PASS    |
|                   | Extreme (-30℃) |          | 2560.639       | 2569.361        | 2500-2570      | PASS    |
|                   | 25℃            | LV       | 2560.551       | 2569.449        | 2500-2570      | PASS    |
| HV                |                | 2560.565 | 2569.435       | 2500-2570       | PASS           |         |
|                   |                |          |                |                 |                |         |
| LTE B7<br>Fc(MHz) | Condition      |          | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2562.5            | BANDWIDTH      | 15MHz    |                |                 |                |         |
|                   | Temperature    | Voltage  | QPSK           |                 |                |         |
|                   | Extreme (50℃)  | NV       | 2555.778       | 2569.222        | 2500-2570      | PASS    |
|                   | Extreme (40℃)  |          | 2555.780       | 2569.220        | 2500-2570      | PASS    |
|                   | Extreme (30℃)  |          | 2555.705       | 2569.295        | 2500-2570      | PASS    |
|                   | Extreme (20℃)  |          | 2555.758       | 2569.242        | 2500-2570      | PASS    |
|                   | Extreme (10℃)  |          | 2555.759       | 2569.241        | 2500-2570      | PASS    |
|                   | Extreme (0℃)   |          | 2555.743       | 2569.257        | 2500-2570      | PASS    |
|                   | Extreme (-10℃) |          | 2555.783       | 2569.217        | 2500-2570      | PASS    |
|                   | Extreme (-20℃) |          | 2555.798       | 2569.202        | 2500-2570      | PASS    |
|                   | Extreme (-30℃) |          | 2555.729       | 2569.271        | 2500-2570      | PASS    |
|                   | 25℃            | LV       | 2555.752       | 2569.248        | 2500-2570      | PASS    |
| HV                |                | 2555.721 | 2569.279       | 2500-2570       | PASS           |         |
|                   |                |          |                |                 |                |         |
| LTE B7<br>Fc(MHz) | Condition      |          | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2560              | BANDWIDTH      | 20MHz    |                |                 |                |         |
|                   | Temperature    | Voltage  | QPSK           |                 |                |         |
|                   | Extreme (50℃)  | NV       | 2550.929       | 2569.071        | 2500-2570      | PASS    |
|                   | Extreme (40℃)  |          | 2550.909       | 2569.091        | 2500-2570      | PASS    |
|                   | Extreme (30℃)  |          | 2550.915       | 2569.085        | 2500-2570      | PASS    |
|                   | Extreme (20℃)  |          | 2550.979       | 2569.021        | 2500-2570      | PASS    |
|                   | Extreme (10℃)  |          | 2550.938       | 2569.062        | 2500-2570      | PASS    |
|                   | Extreme (0℃)   |          | 2550.982       | 2569.018        | 2500-2570      | PASS    |
|                   | Extreme (-10℃) |          | 2550.977       | 2569.023        | 2500-2570      | PASS    |
|                   |                |          |                |                 |                |         |

|                    |                |         |                |                 |                |         |
|--------------------|----------------|---------|----------------|-----------------|----------------|---------|
|                    | Extreme (-20℃) |         | 2550.903       | 2569.097        | 2500-2570      | PASS    |
|                    | Extreme (-30℃) |         | 2550.999       | 2569.001        | 2500-2570      | PASS    |
|                    | 25℃            | LV      | 2550.981       | 2569.019        | 2500-2570      | PASS    |
|                    |                | HV      | 2550.966       | 2569.034        | 2500-2570      | PASS    |
|                    |                |         |                |                 |                |         |
| LTE B12<br>Fc(MHz) | Condition      |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 699.7              | BANDWIDTH      | 1.4MHz  |                |                 |                |         |
|                    | Temperature    | Voltage | QPSK           |                 |                |         |
|                    | Extreme (50℃)  | NV      | 699.147        | 700.253         | 699-716        | PASS    |
|                    | Extreme (40℃)  |         | 699.150        | 700.250         | 699-716        | PASS    |
|                    | Extreme (30℃)  |         | 699.149        | 700.251         | 699-716        | PASS    |
|                    | Extreme (20℃)  |         | 699.146        | 700.254         | 699-716        | PASS    |
|                    | Extreme (10℃)  |         | 699.148        | 700.252         | 699-716        | PASS    |
|                    | Extreme (0℃)   |         | 699.145        | 700.255         | 699-716        | PASS    |
|                    | Extreme (-10℃) |         | 699.146        | 700.254         | 699-716        | PASS    |
|                    | Extreme (-20℃) |         | 699.149        | 700.251         | 699-716        | PASS    |
|                    | Extreme (-30℃) |         | 699.149        | 700.251         | 699-716        | PASS    |
|                    | 25℃            | LV      | 699.148        | 700.252         | 699-716        | PASS    |
|                    |                | HV      | 699.149        | 700.251         | 699-716        | PASS    |
|                    |                |         |                |                 |                |         |
| LTE B12<br>Fc(MHz) | Condition      |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 700.5              | BANDWIDTH      | 3MHz    |                |                 |                |         |
|                    | Temperature    | Voltage | QPSK           |                 |                |         |
|                    | Extreme (50℃)  | NV      | 699.148        | 701.852         | 699-716        | PASS    |
|                    | Extreme (40℃)  |         | 699.148        | 701.852         | 699-716        | PASS    |
|                    | Extreme (30℃)  |         | 699.146        | 701.854         | 699-716        | PASS    |
|                    | Extreme (20℃)  |         | 699.146        | 701.854         | 699-716        | PASS    |
|                    | Extreme (10℃)  |         | 699.148        | 701.852         | 699-716        | PASS    |
|                    | Extreme (0℃)   |         | 699.145        | 701.855         | 699-716        | PASS    |
|                    | Extreme (-10℃) |         | 699.149        | 701.851         | 699-716        | PASS    |
|                    | Extreme (-20℃) |         | 699.148        | 701.852         | 699-716        | PASS    |
|                    | Extreme (-30℃) |         | 699.147        | 701.853         | 699-716        | PASS    |
|                    | 25℃            | LV      | 699.149        | 701.851         | 699-716        | PASS    |
|                    |                | HV      | 699.147        | 701.853         | 699-716        | PASS    |
|                    |                |         |                |                 |                |         |
| LTE B12<br>Fc(MHz) | Condition      |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 701.5              | BANDWIDTH      | 5MHz    |                |                 |                |         |
|                    | Temperature    | Voltage |                |                 |                |         |

|                    |                 |         |                |                 |                |         |
|--------------------|-----------------|---------|----------------|-----------------|----------------|---------|
|                    | Extreme (50°C)  | NV      | 699.280        | 703.720         | 699-716        | PASS    |
|                    | Extreme (40°C)  |         | 699.233        | 703.767         | 699-716        | PASS    |
|                    | Extreme (30°C)  |         | 699.220        | 703.780         | 699-716        | PASS    |
|                    | Extreme (20°C)  |         | 699.212        | 703.788         | 699-716        | PASS    |
|                    | Extreme (10°C)  |         | 699.236        | 703.764         | 699-716        | PASS    |
|                    | Extreme (0°C)   |         | 699.209        | 703.791         | 699-716        | PASS    |
|                    | Extreme (-10°C) |         | 699.279        | 703.721         | 699-716        | PASS    |
|                    | Extreme (-20°C) |         | 699.228        | 703.772         | 699-716        | PASS    |
|                    | Extreme (-30°C) |         | 699.217        | 703.783         | 699-716        | PASS    |
|                    | 25°C            | LV      | 699.287        | 703.713         | 699-716        | PASS    |
|                    |                 | HV      | 699.239        | 703.761         | 699-716        | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B12<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 704                | BANDWIDTH       | 10MHz   | QPSK           | QPSK            |                |         |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 699.527        | 708.473         | 699-716        | PASS    |
|                    | Extreme (40°C)  |         | 699.525        | 708.475         | 699-716        | PASS    |
|                    | Extreme (30°C)  |         | 699.507        | 708.493         | 699-716        | PASS    |
|                    | Extreme (20°C)  |         | 699.633        | 708.367         | 699-716        | PASS    |
|                    | Extreme (10°C)  |         | 699.561        | 708.439         | 699-716        | PASS    |
|                    | Extreme (0°C)   |         | 699.574        | 708.426         | 699-716        | PASS    |
|                    | Extreme (-10°C) |         | 699.569        | 708.431         | 699-716        | PASS    |
|                    | Extreme (-20°C) |         | 699.600        | 708.400         | 699-716        | PASS    |
|                    | Extreme (-30°C) |         | 699.613        | 708.387         | 699-716        | PASS    |
|                    | 25°C            | LV      | 699.608        | 708.392         | 699-716        | PASS    |
|                    |                 | HV      | 699.539        | 708.461         | 699-716        | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B12<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 715.3              | BANDWIDTH       | 1.4MHz  | QPSK           | QPSK            |                |         |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 714.749        | 715.851         | 699-716        | PASS    |
|                    | Extreme (40°C)  |         | 714.747        | 715.853         | 699-716        | PASS    |
|                    | Extreme (30°C)  |         | 714.749        | 715.851         | 699-716        | PASS    |
|                    | Extreme (20°C)  |         | 714.749        | 715.851         | 699-716        | PASS    |
|                    | Extreme (10°C)  |         | 714.749        | 715.851         | 699-716        | PASS    |
|                    | Extreme (0°C)   |         | 714.750        | 715.850         | 699-716        | PASS    |
|                    | Extreme (-10°C) |         | 714.748        | 715.852         | 699-716        | PASS    |
|                    | Extreme (-20°C) |         | 714.745        | 715.855         | 699-716        | PASS    |
|                    | Extreme (-30°C) |         | 714.748        | 715.852         | 699-716        | PASS    |
|                    | 25°C            | LV      | 714.750        | 715.850         | 699-716        | PASS    |
|                    |                 |         |                |                 |                |         |

|                    |                 |         |                |                 |                |         |
|--------------------|-----------------|---------|----------------|-----------------|----------------|---------|
|                    |                 | HV      | 714.747        | 715.853         | 699-716        | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B12<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 714.5              | BANDWIDTH       | 3MHz    | QPSK           |                 |                |         |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 713.150        | 715.850         | 699-716        | PASS    |
|                    | Extreme (40°C)  |         | 713.145        | 715.855         | 699-716        | PASS    |
|                    | Extreme (30°C)  |         | 713.146        | 715.854         | 699-716        | PASS    |
|                    | Extreme (20°C)  |         | 713.150        | 715.850         | 699-716        | PASS    |
|                    | Extreme (10°C)  |         | 713.150        | 715.850         | 699-716        | PASS    |
|                    | Extreme (0°C)   |         | 713.146        | 715.854         | 699-716        | PASS    |
|                    | Extreme (-10°C) |         | 713.147        | 715.853         | 699-716        | PASS    |
|                    | Extreme (-20°C) |         | 713.150        | 715.850         | 699-716        | PASS    |
|                    | Extreme (-30°C) |         | 713.149        | 715.851         | 699-716        | PASS    |
|                    | 25°C            | LV      | 713.150        | 715.850         | 699-716        | PASS    |
|                    |                 | HV      | 713.150        | 715.850         | 699-716        | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B12<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 713.5              | BANDWIDTH       | 5MHz    | QPSK           |                 |                |         |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 711.219        | 715.781         | 699-716        | PASS    |
|                    | Extreme (40°C)  |         | 711.233        | 715.767         | 699-716        | PASS    |
|                    | Extreme (30°C)  |         | 711.260        | 715.740         | 699-716        | PASS    |
|                    | Extreme (20°C)  |         | 711.266        | 715.734         | 699-716        | PASS    |
|                    | Extreme (10°C)  |         | 711.244        | 715.756         | 699-716        | PASS    |
|                    | Extreme (0°C)   |         | 711.238        | 715.762         | 699-716        | PASS    |
|                    | Extreme (-10°C) |         | 711.246        | 715.754         | 699-716        | PASS    |
|                    | Extreme (-20°C) |         | 711.210        | 715.790         | 699-716        | PASS    |
|                    | Extreme (-30°C) |         | 711.287        | 715.713         | 699-716        | PASS    |
|                    | 25°C            | LV      | 711.293        | 715.707         | 699-716        | PASS    |
|                    |                 | HV      | 711.239        | 715.761         | 699-716        | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B12<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 711                | BANDWIDTH       | 10MHz   | QPSK           |                 |                |         |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 706.516        | 715.484         | 699-716        | PASS    |
|                    | Extreme (40°C)  |         | 706.635        | 715.365         | 699-716        | PASS    |
|                    | Extreme (30°C)  |         | 706.539        | 715.461         | 699-716        | PASS    |

|                    |                 |         |                |                 |                |         |
|--------------------|-----------------|---------|----------------|-----------------|----------------|---------|
|                    | Extreme (20°C)  |         | 706.610        | 715.390         | 699-716        | PASS    |
|                    | Extreme (10°C)  |         | 706.633        | 715.367         | 699-716        | PASS    |
|                    | Extreme (0°C)   |         | 706.545        | 715.455         | 699-716        | PASS    |
|                    | Extreme (-10°C) |         | 706.506        | 715.494         | 699-716        | PASS    |
|                    | Extreme (-20°C) |         | 706.644        | 715.356         | 699-716        | PASS    |
|                    | Extreme (-30°C) |         | 706.532        | 715.468         | 699-716        | PASS    |
|                    | 25°C            | LV      | 706.631        | 715.369         | 699-716        | PASS    |
|                    |                 | HV      | 706.629        | 715.371         | 699-716        | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B13<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 779.5              | BANDWIDTH       | 5MHz    | QPSK           |                 |                |         |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 777.213        | 781.787         | 777-787        | PASS    |
|                    | Extreme (40°C)  |         | 777.297        | 781.703         | 777-787        | PASS    |
|                    | Extreme (30°C)  |         | 777.215        | 781.785         | 777-787        | PASS    |
|                    | Extreme (20°C)  |         | 777.239        | 781.761         | 777-787        | PASS    |
|                    | Extreme (10°C)  |         | 777.225        | 781.775         | 777-787        | PASS    |
|                    | Extreme (0°C)   |         | 777.265        | 781.735         | 777-787        | PASS    |
|                    | Extreme (-10°C) |         | 777.288        | 781.712         | 777-787        | PASS    |
|                    | Extreme (-20°C) |         | 777.269        | 781.731         | 777-787        | PASS    |
|                    | Extreme (-30°C) |         | 777.289        | 781.711         | 777-787        | PASS    |
|                    | 25°C            | LV      | 777.280        | 781.720         | 777-787        | PASS    |
|                    |                 | HV      | 777.281        | 781.719         | 777-787        | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B13<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 782                | BANDWIDTH       | 10MHz   | QPSK           |                 |                |         |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 777.576        | 786.424         | 777-787        | PASS    |
|                    | Extreme (40°C)  |         | 777.515        | 786.485         | 777-787        | PASS    |
|                    | Extreme (30°C)  |         | 777.570        | 786.430         | 777-787        | PASS    |
|                    | Extreme (20°C)  |         | 777.558        | 786.442         | 777-787        | PASS    |
|                    | Extreme (10°C)  |         | 777.558        | 786.442         | 777-787        | PASS    |
|                    | Extreme (0°C)   |         | 777.597        | 786.403         | 777-787        | PASS    |
|                    | Extreme (-10°C) |         | 777.504        | 786.496         | 777-787        | PASS    |
|                    | Extreme (-20°C) |         | 777.641        | 786.359         | 777-787        | PASS    |
|                    | Extreme (-30°C) |         | 777.577        | 786.423         | 777-787        | PASS    |
|                    | 25°C            | LV      | 777.539        | 786.461         | 777-787        | PASS    |
|                    |                 | HV      | 777.623        | 786.377         | 777-787        | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B13            | Condition       |         | F Low          | F High          | Limit          | Verdict |

| Fc(MHz)            |                 |         | (MHz)          | (MHz)           | (MHz)          |         |
|--------------------|-----------------|---------|----------------|-----------------|----------------|---------|
| 784.5              | BANDWIDTH       | 5MHz    |                |                 |                |         |
|                    | Temperature     | Voltage | QPSK           |                 |                |         |
|                    | Extreme (50°C)  | NV      | 782.285        | 786.715         | 777-787        | PASS    |
|                    | Extreme (40°C)  |         | 782.251        | 786.749         | 777-787        | PASS    |
|                    | Extreme (30°C)  |         | 782.246        | 786.754         | 777-787        | PASS    |
|                    | Extreme (20°C)  |         | 782.285        | 786.715         | 777-787        | PASS    |
|                    | Extreme (10°C)  |         | 782.264        | 786.736         | 777-787        | PASS    |
|                    | Extreme (0°C)   |         | 782.274        | 786.726         | 777-787        | PASS    |
|                    | Extreme (-10°C) |         | 782.270        | 786.730         | 777-787        | PASS    |
|                    | Extreme (-20°C) |         | 782.243        | 786.757         | 777-787        | PASS    |
|                    | Extreme (-30°C) |         | 782.290        | 786.710         | 777-787        | PASS    |
|                    | 25°C            | LV      | 782.288        | 786.712         | 777-787        | PASS    |
|                    |                 | HV      | 782.257        | 786.743         | 777-787        | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B38<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2572.5             | BANDWIDTH       | 5MHz    |                |                 |                |         |
|                    | Temperature     | Voltage | QPSK           |                 |                |         |
|                    | Extreme (50°C)  | NV      | 2570.247       | 2574.753        | 2570-2620      | PASS    |
|                    | Extreme (40°C)  |         | 2570.268       | 2574.732        | 2570-2620      | PASS    |
|                    | Extreme (30°C)  |         | 2570.286       | 2574.714        | 2570-2620      | PASS    |
|                    | Extreme (20°C)  |         | 2570.267       | 2574.733        | 2570-2620      | PASS    |
|                    | Extreme (10°C)  |         | 2570.225       | 2574.775        | 2570-2620      | PASS    |
|                    | Extreme (0°C)   |         | 2570.264       | 2574.736        | 2570-2620      | PASS    |
|                    | Extreme (-10°C) |         | 2570.218       | 2574.782        | 2570-2620      | PASS    |
|                    | Extreme (-20°C) |         | 2570.216       | 2574.784        | 2570-2620      | PASS    |
|                    | Extreme (-30°C) |         | 2570.257       | 2574.743        | 2570-2620      | PASS    |
|                    | 25°C            | LV      | 2570.289       | 2574.711        | 2570-2620      | PASS    |
|                    |                 | HV      | 2570.223       | 2574.777        | 2570-2620      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B38<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2575               | BANDWIDTH       | 10MHz   |                |                 |                |         |
|                    | Temperature     | Voltage | QPSK           |                 |                |         |
|                    | Extreme (50°C)  | NV      | 2570.614       | 2579.386        | 2570-2620      | PASS    |
|                    | Extreme (40°C)  |         | 2570.631       | 2579.369        | 2570-2620      | PASS    |
|                    | Extreme (30°C)  |         | 2570.606       | 2579.394        | 2570-2620      | PASS    |
|                    | Extreme (20°C)  |         | 2570.512       | 2579.488        | 2570-2620      | PASS    |
|                    | Extreme (10°C)  |         | 2570.586       | 2579.414        | 2570-2620      | PASS    |
|                    | Extreme (0°C)   |         | 2570.647       | 2579.353        | 2570-2620      | PASS    |

|                    |                |         |                |                 |                |         |
|--------------------|----------------|---------|----------------|-----------------|----------------|---------|
|                    | Extreme (-10℃) |         | 2570.631       | 2579.369        | 2570-2620      | PASS    |
|                    | Extreme (-20℃) |         | 2570.587       | 2579.413        | 2570-2620      | PASS    |
|                    | Extreme (-30℃) |         | 2570.580       | 2579.420        | 2570-2620      | PASS    |
|                    | 25℃            | LV      | 2570.592       | 2579.408        | 2570-2620      | PASS    |
|                    |                | HV      | 2570.611       | 2579.389        | 2570-2620      | PASS    |
|                    |                |         |                |                 |                |         |
| LTE B38<br>Fc(MHz) | Condition      |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2577.5             | BANDWIDTH      | 15MHz   |                |                 |                |         |
|                    | Temperature    | Voltage | QPSK           |                 |                |         |
|                    | Extreme (50℃)  | NV      | 2570.797       | 2584.203        | 2570-2620      | PASS    |
|                    | Extreme (40℃)  |         | 2570.719       | 2584.281        | 2570-2620      | PASS    |
|                    | Extreme (30℃)  |         | 2570.753       | 2584.247        | 2570-2620      | PASS    |
|                    | Extreme (20℃)  |         | 2570.723       | 2584.277        | 2570-2620      | PASS    |
|                    | Extreme (10℃)  |         | 2570.782       | 2584.218        | 2570-2620      | PASS    |
|                    | Extreme (0℃)   |         | 2570.752       | 2584.248        | 2570-2620      | PASS    |
|                    | Extreme (-10℃) |         | 2570.792       | 2584.208        | 2570-2620      | PASS    |
|                    | Extreme (-20℃) |         | 2570.762       | 2584.238        | 2570-2620      | PASS    |
|                    | Extreme (-30℃) |         | 2570.729       | 2584.271        | 2570-2620      | PASS    |
|                    | 25℃            | LV      | 2570.775       | 2584.225        | 2570-2620      | PASS    |
|                    |                | HV      | 2570.750       | 2584.250        | 2570-2620      | PASS    |
|                    |                |         |                |                 |                |         |
| LTE B38<br>Fc(MHz) | Condition      |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2580               | BANDWIDTH      | 20MHz   |                |                 |                |         |
|                    | Temperature    | Voltage | QPSK           |                 |                |         |
|                    | Extreme (50℃)  | NV      | 2571.040       | 2588.960        | 2570-2620      | PASS    |
|                    | Extreme (40℃)  |         | 2571.007       | 2588.993        | 2570-2620      | PASS    |
|                    | Extreme (30℃)  |         | 2571.030       | 2588.970        | 2570-2620      | PASS    |
|                    | Extreme (20℃)  |         | 2571.020       | 2588.980        | 2570-2620      | PASS    |
|                    | Extreme (10℃)  |         | 2571.047       | 2588.953        | 2570-2620      | PASS    |
|                    | Extreme (0℃)   |         | 2571.021       | 2588.979        | 2570-2620      | PASS    |
|                    | Extreme (-10℃) |         | 2571.022       | 2588.978        | 2570-2620      | PASS    |
|                    | Extreme (-20℃) |         | 2571.047       | 2588.953        | 2570-2620      | PASS    |
|                    | Extreme (-30℃) |         | 2571.034       | 2588.966        | 2570-2620      | PASS    |
|                    | 25℃            | LV      | 2571.032       | 2588.968        | 2570-2620      | PASS    |
|                    |                | HV      | 2571.039       | 2588.961        | 2570-2620      | PASS    |
|                    |                |         |                |                 |                |         |
| LTE B38<br>Fc(MHz) | Condition      |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2617.5             | BANDWIDTH      | 5MHz    |                |                 |                |         |

|                    | Temperature    | Voltage  | QPSK           |                 |                |         |
|--------------------|----------------|----------|----------------|-----------------|----------------|---------|
|                    | Extreme (50℃)  | NV       | 2615.257       | 2619.743        | 2570-2620      | PASS    |
|                    | Extreme (40℃)  |          | 2615.276       | 2619.724        | 2570-2620      | PASS    |
|                    | Extreme (30℃)  |          | 2615.201       | 2619.799        | 2570-2620      | PASS    |
|                    | Extreme (20℃)  |          | 2615.286       | 2619.714        | 2570-2620      | PASS    |
|                    | Extreme (10℃)  |          | 2615.278       | 2619.722        | 2570-2620      | PASS    |
|                    | Extreme (0℃)   |          | 2615.205       | 2619.795        | 2570-2620      | PASS    |
|                    | Extreme (-10℃) |          | 2615.290       | 2619.710        | 2570-2620      | PASS    |
|                    | Extreme (-20℃) |          | 2615.220       | 2619.780        | 2570-2620      | PASS    |
|                    | Extreme (-30℃) |          | 2615.283       | 2619.717        | 2570-2620      | PASS    |
|                    | 25℃            | LV       | 2615.243       | 2619.757        | 2570-2620      | PASS    |
|                    |                | HV       | 2615.262       | 2619.738        | 2570-2620      | PASS    |
|                    |                |          |                |                 |                |         |
| LTE B38<br>Fc(MHz) | Condition      |          | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2615               | BANDWIDTH      | 10MHz    |                |                 |                |         |
|                    | Temperature    | Voltage  | QPSK           |                 |                |         |
|                    | Extreme (50℃)  | NV       | 2610.536       | 2619.464        | 2570-2620      | PASS    |
|                    | Extreme (40℃)  |          | 2610.637       | 2619.363        | 2570-2620      | PASS    |
|                    | Extreme (30℃)  |          | 2610.620       | 2619.380        | 2570-2620      | PASS    |
|                    | Extreme (20℃)  |          | 2610.616       | 2619.384        | 2570-2620      | PASS    |
|                    | Extreme (10℃)  |          | 2610.633       | 2619.367        | 2570-2620      | PASS    |
|                    | Extreme (0℃)   |          | 2610.585       | 2619.415        | 2570-2620      | PASS    |
|                    | Extreme (-10℃) |          | 2610.584       | 2619.416        | 2570-2620      | PASS    |
|                    | Extreme (-20℃) |          | 2610.635       | 2619.365        | 2570-2620      | PASS    |
|                    | Extreme (-30℃) |          | 2610.575       | 2619.425        | 2570-2620      | PASS    |
|                    | 25℃            | LV       | 2610.615       | 2619.385        | 2570-2620      | PASS    |
| HV                 |                | 2610.539 | 2619.461       | 2570-2620       | PASS           |         |
|                    |                |          |                |                 |                |         |
| LTE B38<br>Fc(MHz) | Condition      |          | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2612.5             | BANDWIDTH      | 15MHz    |                |                 |                |         |
|                    | Temperature    | Voltage  | QPSK           |                 |                |         |
|                    | Extreme (50℃)  | NV       | 2605.774       | 2619.226        | 2570-2620      | PASS    |
|                    | Extreme (40℃)  |          | 2605.794       | 2619.206        | 2570-2620      | PASS    |
|                    | Extreme (30℃)  |          | 2605.785       | 2619.215        | 2570-2620      | PASS    |
|                    | Extreme (20℃)  |          | 2605.750       | 2619.250        | 2570-2620      | PASS    |
|                    | Extreme (10℃)  |          | 2605.793       | 2619.207        | 2570-2620      | PASS    |
|                    | Extreme (0℃)   |          | 2605.780       | 2619.220        | 2570-2620      | PASS    |
|                    | Extreme (-10℃) |          | 2605.746       | 2619.254        | 2570-2620      | PASS    |
|                    | Extreme (-20℃) |          | 2605.772       | 2619.228        | 2570-2620      | PASS    |
|                    | Extreme (-30℃) |          | 2605.735       | 2619.265        | 2570-2620      | PASS    |

|                    |                 |         |                |                 |                |         |
|--------------------|-----------------|---------|----------------|-----------------|----------------|---------|
|                    | 25°C            | LV      | 2605.765       | 2619.235        | 2570-2620      | PASS    |
|                    |                 | HV      | 2605.742       | 2619.258        | 2570-2620      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B38<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2610               | BANDWIDTH       | 20MHz   |                |                 |                |         |
|                    | Temperature     | Voltage | QPSK           |                 |                |         |
|                    | Extreme (50°C)  | NV      | 2600.950       | 2619.050        | 2570-2620      | PASS    |
|                    | Extreme (40°C)  |         | 2600.982       | 2619.018        | 2570-2620      | PASS    |
|                    | Extreme (30°C)  |         | 2600.971       | 2619.029        | 2570-2620      | PASS    |
|                    | Extreme (20°C)  |         | 2600.921       | 2619.079        | 2570-2620      | PASS    |
|                    | Extreme (10°C)  |         | 2600.917       | 2619.083        | 2570-2620      | PASS    |
|                    | Extreme (0°C)   |         | 2600.932       | 2619.068        | 2570-2620      | PASS    |
|                    | Extreme (-10°C) |         | 2600.983       | 2619.017        | 2570-2620      | PASS    |
|                    | Extreme (-20°C) |         | 2600.913       | 2619.087        | 2570-2620      | PASS    |
|                    | Extreme (-30°C) |         | 2600.981       | 2619.019        | 2570-2620      | PASS    |
|                    | 25°C            | LV      | 2600.938       | 2619.062        | 2570-2620      | PASS    |
|                    |                 | HV      | 2600.948       | 2619.052        | 2570-2620      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B41<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2498.5             | BANDWIDTH       | 5MHz    |                |                 |                |         |
|                    | Temperature     | Voltage | QPSK           |                 |                |         |
|                    | Extreme (50°C)  | NV      | 2496.293       | 2500.707        | 2496-2690      | PASS    |
|                    | Extreme (40°C)  |         | 2496.254       | 2500.746        | 2496-2690      | PASS    |
|                    | Extreme (30°C)  |         | 2496.219       | 2500.781        | 2496-2690      | PASS    |
|                    | Extreme (20°C)  |         | 2496.247       | 2500.753        | 2496-2690      | PASS    |
|                    | Extreme (10°C)  |         | 2496.263       | 2500.737        | 2496-2690      | PASS    |
|                    | Extreme (0°C)   |         | 2496.271       | 2500.729        | 2496-2690      | PASS    |
|                    | Extreme (-10°C) |         | 2496.275       | 2500.725        | 2496-2690      | PASS    |
|                    | Extreme (-20°C) |         | 2496.248       | 2500.752        | 2496-2690      | PASS    |
|                    | Extreme (-30°C) |         | 2496.232       | 2500.768        | 2496-2690      | PASS    |
|                    | 25°C            | LV      | 2496.231       | 2500.769        | 2496-2690      | PASS    |
|                    |                 | HV      | 2496.210       | 2500.790        | 2496-2690      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B41<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2501               | BANDWIDTH       | 10MHz   |                |                 |                |         |
|                    | Temperature     | Voltage | QPSK           |                 |                |         |
|                    | Extreme (50°C)  | NV      | 2496.505       | 2505.495        | 2496-2690      | PASS    |
|                    | Extreme (40°C)  |         | 2496.546       | 2505.454        | 2496-2690      | PASS    |

|                    |                 |         |                |                 |                |         |
|--------------------|-----------------|---------|----------------|-----------------|----------------|---------|
|                    | Extreme (30°C)  |         | 2496.587       | 2505.413        | 2496-2690      | PASS    |
|                    | Extreme (20°C)  |         | 2496.594       | 2505.406        | 2496-2690      | PASS    |
|                    | Extreme (10°C)  |         | 2496.609       | 2505.391        | 2496-2690      | PASS    |
|                    | Extreme (0°C)   |         | 2496.554       | 2505.446        | 2496-2690      | PASS    |
|                    | Extreme (-10°C) |         | 2496.626       | 2505.374        | 2496-2690      | PASS    |
|                    | Extreme (-20°C) |         | 2496.555       | 2505.445        | 2496-2690      | PASS    |
|                    | Extreme (-30°C) |         | 2496.626       | 2505.374        | 2496-2690      | PASS    |
|                    | 25°C            | LV      | 2496.569       | 2505.431        | 2496-2690      | PASS    |
|                    |                 | HV      | 2496.544       | 2505.456        | 2496-2690      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B41<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2503.5             | BANDWIDTH       | 15MHz   | QPSK           |                 |                |         |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 2496.731       | 2510.269        | 2496-2690      | PASS    |
|                    | Extreme (40°C)  |         | 2496.789       | 2510.211        | 2496-2690      | PASS    |
|                    | Extreme (30°C)  |         | 2496.764       | 2510.236        | 2496-2690      | PASS    |
|                    | Extreme (20°C)  |         | 2496.751       | 2510.249        | 2496-2690      | PASS    |
|                    | Extreme (10°C)  |         | 2496.715       | 2510.285        | 2496-2690      | PASS    |
|                    | Extreme (0°C)   |         | 2496.794       | 2510.206        | 2496-2690      | PASS    |
|                    | Extreme (-10°C) |         | 2496.770       | 2510.230        | 2496-2690      | PASS    |
|                    | Extreme (-20°C) |         | 2496.708       | 2510.292        | 2496-2690      | PASS    |
|                    | Extreme (-30°C) |         | 2496.733       | 2510.267        | 2496-2690      | PASS    |
|                    | 25°C            | LV      | 2496.732       | 2510.268        | 2496-2690      | PASS    |
|                    |                 | HV      | 2496.773       | 2510.227        | 2496-2690      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B41<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2506               | BANDWIDTH       | 20MHz   | QPSK           |                 |                |         |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 2497.047       | 2514.953        | 2496-2690      | PASS    |
|                    | Extreme (40°C)  |         | 2497.027       | 2514.973        | 2496-2690      | PASS    |
|                    | Extreme (30°C)  |         | 2497.038       | 2514.962        | 2496-2690      | PASS    |
|                    | Extreme (20°C)  |         | 2497.013       | 2514.987        | 2496-2690      | PASS    |
|                    | Extreme (10°C)  |         | 2497.038       | 2514.962        | 2496-2690      | PASS    |
|                    | Extreme (0°C)   |         | 2497.001       | 2514.999        | 2496-2690      | PASS    |
|                    | Extreme (-10°C) |         | 2497.021       | 2514.979        | 2496-2690      | PASS    |
|                    | Extreme (-20°C) |         | 2497.047       | 2514.953        | 2496-2690      | PASS    |
|                    | Extreme (-30°C) |         | 2497.024       | 2514.976        | 2496-2690      | PASS    |
|                    | 25°C            | LV      | 2497.025       | 2514.975        | 2496-2690      | PASS    |
|                    |                 | HV      | 2497.046       | 2514.954        | 2496-2690      | PASS    |
|                    |                 |         |                |                 |                |         |

| LTE B41<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
|--------------------|-----------------|---------|----------------|-----------------|----------------|---------|
| 2687.5             | BANDWIDTH       | 5MHz    | QPSK           | QPSK            | 2496-2690      | PASS    |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 2685.276       | 2689.724        | 2496-2690      | PASS    |
|                    | Extreme (40°C)  |         | 2685.204       | 2689.796        | 2496-2690      | PASS    |
|                    | Extreme (30°C)  |         | 2685.224       | 2689.776        | 2496-2690      | PASS    |
|                    | Extreme (20°C)  |         | 2685.235       | 2689.765        | 2496-2690      | PASS    |
|                    | Extreme (10°C)  |         | 2685.200       | 2689.800        | 2496-2690      | PASS    |
|                    | Extreme (0°C)   |         | 2685.266       | 2689.734        | 2496-2690      | PASS    |
|                    | Extreme (-10°C) |         | 2685.265       | 2689.735        | 2496-2690      | PASS    |
|                    | Extreme (-20°C) |         | 2685.237       | 2689.763        | 2496-2690      | PASS    |
|                    | Extreme (-30°C) |         | 2685.208       | 2689.792        | 2496-2690      | PASS    |
|                    | 25°C            | LV      | 2685.210       | 2689.790        | 2496-2690      | PASS    |
|                    |                 | HV      | 2685.288       | 2689.712        | 2496-2690      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B41<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2685               | BANDWIDTH       | 10MHz   | QPSK           | QPSK            | 2496-2690      | PASS    |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 2680.534       | 2689.466        | 2496-2690      | PASS    |
|                    | Extreme (40°C)  |         | 2680.585       | 2689.415        | 2496-2690      | PASS    |
|                    | Extreme (30°C)  |         | 2680.544       | 2689.456        | 2496-2690      | PASS    |
|                    | Extreme (20°C)  |         | 2680.534       | 2689.466        | 2496-2690      | PASS    |
|                    | Extreme (10°C)  |         | 2680.511       | 2689.489        | 2496-2690      | PASS    |
|                    | Extreme (0°C)   |         | 2680.546       | 2689.454        | 2496-2690      | PASS    |
|                    | Extreme (-10°C) |         | 2680.578       | 2689.422        | 2496-2690      | PASS    |
|                    | Extreme (-20°C) |         | 2680.531       | 2689.469        | 2496-2690      | PASS    |
|                    | Extreme (-30°C) |         | 2680.585       | 2689.415        | 2496-2690      | PASS    |
|                    | 25°C            | LV      | 2680.617       | 2689.383        | 2496-2690      | PASS    |
|                    |                 | HV      | 2680.624       | 2689.376        | 2496-2690      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B41<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2682.5             | BANDWIDTH       | 15MHz   | QPSK           | QPSK            | 2496-2690      | PASS    |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 2675.713       | 2689.287        | 2496-2690      | PASS    |
|                    | Extreme (40°C)  |         | 2675.710       | 2689.290        | 2496-2690      | PASS    |
|                    | Extreme (30°C)  |         | 2675.800       | 2689.200        | 2496-2690      | PASS    |
|                    | Extreme (20°C)  |         | 2675.719       | 2689.281        | 2496-2690      | PASS    |
|                    | Extreme (10°C)  |         | 2675.769       | 2689.231        | 2496-2690      | PASS    |

|                    |                 |         |                |                 |                |         |
|--------------------|-----------------|---------|----------------|-----------------|----------------|---------|
|                    | Extreme (0°C)   |         | 2675.781       | 2689.219        | 2496-2690      | PASS    |
|                    | Extreme (-10°C) |         | 2675.702       | 2689.298        | 2496-2690      | PASS    |
|                    | Extreme (-20°C) |         | 2675.734       | 2689.266        | 2496-2690      | PASS    |
|                    | Extreme (-30°C) |         | 2675.724       | 2689.276        | 2496-2690      | PASS    |
|                    | 25°C            | LV      | 2675.768       | 2689.232        | 2496-2690      | PASS    |
|                    |                 | HV      | 2675.710       | 2689.290        | 2496-2690      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B41<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 2680               | BANDWIDTH       | 20MHz   | QPSK           |                 |                |         |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 2670.926       | 2689.074        | 2496-2690      | PASS    |
|                    | Extreme (40°C)  |         | 2670.926       | 2689.074        | 2496-2690      | PASS    |
|                    | Extreme (30°C)  |         | 2670.939       | 2689.061        | 2496-2690      | PASS    |
|                    | Extreme (20°C)  |         | 2670.951       | 2689.049        | 2496-2690      | PASS    |
|                    | Extreme (10°C)  |         | 2670.906       | 2689.094        | 2496-2690      | PASS    |
|                    | Extreme (0°C)   |         | 2670.984       | 2689.016        | 2496-2690      | PASS    |
|                    | Extreme (-10°C) |         | 2670.912       | 2689.088        | 2496-2690      | PASS    |
|                    | Extreme (-20°C) |         | 2670.957       | 2689.043        | 2496-2690      | PASS    |
|                    | Extreme (-30°C) |         | 2670.933       | 2689.067        | 2496-2690      | PASS    |
|                    | 25°C            | LV      | 2670.925       | 2689.075        | 2496-2690      | PASS    |
|                    |                 | HV      | 2670.953       | 2689.047        | 2496-2690      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B66<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1710.7             | BANDWIDTH       | 1.4MHz  | QPSK           |                 |                |         |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 1710.150       | 1711.250        | 1710-1780      | PASS    |
|                    | Extreme (40°C)  |         | 1710.148       | 1711.252        | 1710-1780      | PASS    |
|                    | Extreme (30°C)  |         | 1710.146       | 1711.254        | 1710-1780      | PASS    |
|                    | Extreme (20°C)  |         | 1710.150       | 1711.250        | 1710-1780      | PASS    |
|                    | Extreme (10°C)  |         | 1710.150       | 1711.250        | 1710-1780      | PASS    |
|                    | Extreme (0°C)   |         | 1710.147       | 1711.253        | 1710-1780      | PASS    |
|                    | Extreme (-10°C) |         | 1710.147       | 1711.253        | 1710-1780      | PASS    |
|                    | Extreme (-20°C) |         | 1710.148       | 1711.252        | 1710-1780      | PASS    |
|                    | Extreme (-30°C) |         | 1710.150       | 1711.250        | 1710-1780      | PASS    |
|                    | 25°C            | LV      | 1710.147       | 1711.253        | 1710-1780      | PASS    |
|                    |                 | HV      | 1710.147       | 1711.253        | 1710-1780      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B66<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |

|                    |                 |         |                |                 |                |         |
|--------------------|-----------------|---------|----------------|-----------------|----------------|---------|
| 1711.5             | BANDWIDTH       | 3MHz    |                |                 |                |         |
|                    | Temperature     | Voltage | QPSK           |                 |                |         |
|                    | Extreme (50°C)  | NV      | 1710.146       | 1712.854        | 1710-1780      | PASS    |
|                    | Extreme (40°C)  |         | 1710.149       | 1712.851        | 1710-1780      | PASS    |
|                    | Extreme (30°C)  |         | 1710.150       | 1712.850        | 1710-1780      | PASS    |
|                    | Extreme (20°C)  |         | 1710.147       | 1712.853        | 1710-1780      | PASS    |
|                    | Extreme (10°C)  |         | 1710.148       | 1712.852        | 1710-1780      | PASS    |
|                    | Extreme (0°C)   |         | 1710.148       | 1712.852        | 1710-1780      | PASS    |
|                    | Extreme (-10°C) |         | 1710.149       | 1712.851        | 1710-1780      | PASS    |
|                    | Extreme (-20°C) |         | 1710.148       | 1712.852        | 1710-1780      | PASS    |
|                    | Extreme (-30°C) |         | 1710.147       | 1712.853        | 1710-1780      | PASS    |
|                    | 25°C            | LV      | 1710.145       | 1712.855        | 1710-1780      | PASS    |
|                    |                 | HV      | 1710.145       | 1712.855        | 1710-1780      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B66<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1712.5             | BANDWIDTH       | 5MHz    |                |                 |                |         |
|                    | Temperature     | Voltage | QPSK           |                 |                |         |
|                    | Extreme (50°C)  | NV      | 1710.209       | 1714.791        | 1710-1780      | PASS    |
|                    | Extreme (40°C)  |         | 1710.278       | 1714.722        | 1710-1780      | PASS    |
|                    | Extreme (30°C)  |         | 1710.218       | 1714.782        | 1710-1780      | PASS    |
|                    | Extreme (20°C)  |         | 1710.280       | 1714.720        | 1710-1780      | PASS    |
|                    | Extreme (10°C)  |         | 1710.258       | 1714.742        | 1710-1780      | PASS    |
|                    | Extreme (0°C)   |         | 1710.285       | 1714.715        | 1710-1780      | PASS    |
|                    | Extreme (-10°C) |         | 1710.296       | 1714.704        | 1710-1780      | PASS    |
|                    | Extreme (-20°C) |         | 1710.211       | 1714.789        | 1710-1780      | PASS    |
|                    | Extreme (-30°C) |         | 1710.288       | 1714.712        | 1710-1780      | PASS    |
|                    | 25°C            | LV      | 1710.251       | 1714.749        | 1710-1780      | PASS    |
|                    |                 | HV      | 1710.258       | 1714.742        | 1710-1780      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B66<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1715               | BANDWIDTH       | 10MHz   |                |                 |                |         |
|                    | Temperature     | Voltage | QPSK           |                 |                |         |
|                    | Extreme (50°C)  | NV      | 1710.548       | 1719.452        | 1710-1780      | PASS    |
|                    | Extreme (40°C)  |         | 1710.514       | 1719.486        | 1710-1780      | PASS    |
|                    | Extreme (30°C)  |         | 1710.552       | 1719.448        | 1710-1780      | PASS    |
|                    | Extreme (20°C)  |         | 1710.648       | 1719.352        | 1710-1780      | PASS    |
|                    | Extreme (10°C)  |         | 1710.521       | 1719.479        | 1710-1780      | PASS    |
|                    | Extreme (0°C)   |         | 1710.621       | 1719.379        | 1710-1780      | PASS    |
|                    | Extreme (-10°C) |         | 1710.593       | 1719.407        | 1710-1780      | PASS    |
|                    |                 |         |                |                 |                |         |
|                    |                 |         |                |                 |                |         |

|                    |                |         |                |                 |                |         |
|--------------------|----------------|---------|----------------|-----------------|----------------|---------|
|                    | Extreme (-20℃) |         | 1710.635       | 1719.365        | 1710-1780      | PASS    |
|                    | Extreme (-30℃) |         | 1710.581       | 1719.419        | 1710-1780      | PASS    |
|                    | 25℃            | LV      | 1710.593       | 1719.407        | 1710-1780      | PASS    |
|                    |                | HV      | 1710.553       | 1719.447        | 1710-1780      | PASS    |
|                    |                |         |                |                 |                |         |
| LTE B66<br>Fc(MHz) | Condition      |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1717.5             | BANDWIDTH      | 15MHz   |                |                 |                |         |
|                    | Temperature    | Voltage | QPSK           |                 |                |         |
|                    | Extreme (50℃)  | NV      | 1710.762       | 1724.238        | 1710-1780      | PASS    |
|                    | Extreme (40℃)  |         | 1710.755       | 1724.245        | 1710-1780      | PASS    |
|                    | Extreme (30℃)  |         | 1710.769       | 1724.231        | 1710-1780      | PASS    |
|                    | Extreme (20℃)  |         | 1710.741       | 1724.259        | 1710-1780      | PASS    |
|                    | Extreme (10℃)  |         | 1710.736       | 1724.264        | 1710-1780      | PASS    |
|                    | Extreme (0℃)   |         | 1710.719       | 1724.281        | 1710-1780      | PASS    |
|                    | Extreme (-10℃) |         | 1710.789       | 1724.211        | 1710-1780      | PASS    |
|                    | Extreme (-20℃) |         | 1710.786       | 1724.214        | 1710-1780      | PASS    |
|                    | Extreme (-30℃) |         | 1710.799       | 1724.201        | 1710-1780      | PASS    |
|                    | 25℃            | LV      | 1710.770       | 1724.230        | 1710-1780      | PASS    |
|                    |                | HV      | 1710.736       | 1724.264        | 1710-1780      | PASS    |
|                    |                |         |                |                 |                |         |
| LTE B66<br>Fc(MHz) | Condition      |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1720               | BANDWIDTH      | 20MHz   |                |                 |                |         |
|                    | Temperature    | Voltage | QPSK           |                 |                |         |
|                    | Extreme (50℃)  | NV      | 1711.034       | 1728.966        | 1710-1780      | PASS    |
|                    | Extreme (40℃)  |         | 1711.042       | 1728.958        | 1710-1780      | PASS    |
|                    | Extreme (30℃)  |         | 1711.016       | 1728.984        | 1710-1780      | PASS    |
|                    | Extreme (20℃)  |         | 1711.046       | 1728.954        | 1710-1780      | PASS    |
|                    | Extreme (10℃)  |         | 1711.040       | 1728.960        | 1710-1780      | PASS    |
|                    | Extreme (0℃)   |         | 1711.031       | 1728.969        | 1710-1780      | PASS    |
|                    | Extreme (-10℃) |         | 1711.022       | 1728.978        | 1710-1780      | PASS    |
|                    | Extreme (-20℃) |         | 1711.007       | 1728.993        | 1710-1780      | PASS    |
|                    | Extreme (-30℃) |         | 1711.034       | 1728.966        | 1710-1780      | PASS    |
|                    | 25℃            | LV      | 1711.012       | 1728.988        | 1710-1780      | PASS    |
|                    |                | HV      | 1711.029       | 1728.971        | 1710-1780      | PASS    |
|                    |                |         |                |                 |                |         |
| LTE B66<br>Fc(MHz) | Condition      |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1779.3             | BANDWIDTH      | 1.4MHz  |                |                 |                |         |
|                    | Temperature    | Voltage | QPSK           |                 |                |         |

|                    |                 |         |                |                 |                |         |
|--------------------|-----------------|---------|----------------|-----------------|----------------|---------|
|                    | Extreme (50°C)  | NV      | 1778.747       | 1779.853        | 1710-1780      | PASS    |
|                    | Extreme (40°C)  |         | 1778.749       | 1779.851        | 1710-1780      | PASS    |
|                    | Extreme (30°C)  |         | 1778.746       | 1779.854        | 1710-1780      | PASS    |
|                    | Extreme (20°C)  |         | 1778.748       | 1779.852        | 1710-1780      | PASS    |
|                    | Extreme (10°C)  |         | 1778.746       | 1779.854        | 1710-1780      | PASS    |
|                    | Extreme (0°C)   |         | 1778.749       | 1779.851        | 1710-1780      | PASS    |
|                    | Extreme (-10°C) |         | 1778.749       | 1779.851        | 1710-1780      | PASS    |
|                    | Extreme (-20°C) |         | 1778.749       | 1779.851        | 1710-1780      | PASS    |
|                    | Extreme (-30°C) |         | 1778.748       | 1779.852        | 1710-1780      | PASS    |
|                    | 25°C            | LV      | 1778.747       | 1779.853        | 1710-1780      | PASS    |
|                    |                 | HV      | 1778.747       | 1779.853        | 1710-1780      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B66<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1778.5             | BANDWIDTH       | 3MHz    | QPSK           | QPSK            | QPSK           | QPSK    |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 1777.147       | 1779.853        | 1710-1780      | PASS    |
|                    | Extreme (40°C)  |         | 1777.149       | 1779.851        | 1710-1780      | PASS    |
|                    | Extreme (30°C)  |         | 1777.146       | 1779.854        | 1710-1780      | PASS    |
|                    | Extreme (20°C)  |         | 1777.148       | 1779.852        | 1710-1780      | PASS    |
|                    | Extreme (10°C)  |         | 1777.146       | 1779.854        | 1710-1780      | PASS    |
|                    | Extreme (0°C)   |         | 1777.145       | 1779.855        | 1710-1780      | PASS    |
|                    | Extreme (-10°C) |         | 1777.149       | 1779.851        | 1710-1780      | PASS    |
|                    | Extreme (-20°C) |         | 1777.147       | 1779.853        | 1710-1780      | PASS    |
|                    | Extreme (-30°C) |         | 1777.149       | 1779.851        | 1710-1780      | PASS    |
|                    | 25°C            | LV      | 1777.147       | 1779.853        | 1710-1780      | PASS    |
|                    |                 | HV      | 1777.147       | 1779.853        | 1710-1780      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B66<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1777.5             | BANDWIDTH       | 5MHz    | QPSK           | QPSK            | QPSK           | QPSK    |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 1775.293       | 1779.707        | 1710-1780      | PASS    |
|                    | Extreme (40°C)  |         | 1775.280       | 1779.720        | 1710-1780      | PASS    |
|                    | Extreme (30°C)  |         | 1775.204       | 1779.796        | 1710-1780      | PASS    |
|                    | Extreme (20°C)  |         | 1775.265       | 1779.735        | 1710-1780      | PASS    |
|                    | Extreme (10°C)  |         | 1775.218       | 1779.782        | 1710-1780      | PASS    |
|                    | Extreme (0°C)   |         | 1775.243       | 1779.757        | 1710-1780      | PASS    |
|                    | Extreme (-10°C) |         | 1775.264       | 1779.736        | 1710-1780      | PASS    |
|                    | Extreme (-20°C) |         | 1775.236       | 1779.764        | 1710-1780      | PASS    |
|                    | Extreme (-30°C) |         | 1775.219       | 1779.781        | 1710-1780      | PASS    |
|                    | 25°C            | LV      | 1775.226       | 1779.774        | 1710-1780      | PASS    |
|                    |                 |         |                |                 |                |         |

|                    |                 |         |                |                 |                |         |
|--------------------|-----------------|---------|----------------|-----------------|----------------|---------|
|                    |                 | HV      | 1775.226       | 1779.774        | 1710-1780      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B66<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1775               | BANDWIDTH       | 10MHz   | QPSK           | QPSK            | 1710-1780      | PASS    |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 1770.645       | 1779.355        | 1710-1780      | PASS    |
|                    | Extreme (40°C)  |         | 1770.570       | 1779.430        | 1710-1780      | PASS    |
|                    | Extreme (30°C)  |         | 1770.503       | 1779.497        | 1710-1780      | PASS    |
|                    | Extreme (20°C)  |         | 1770.623       | 1779.377        | 1710-1780      | PASS    |
|                    | Extreme (10°C)  |         | 1770.510       | 1779.490        | 1710-1780      | PASS    |
|                    | Extreme (0°C)   |         | 1770.507       | 1779.493        | 1710-1780      | PASS    |
|                    | Extreme (-10°C) |         | 1770.608       | 1779.392        | 1710-1780      | PASS    |
|                    | Extreme (-20°C) |         | 1770.584       | 1779.416        | 1710-1780      | PASS    |
|                    | Extreme (-30°C) |         | 1770.521       | 1779.479        | 1710-1780      | PASS    |
|                    | 25°C            | LV      | 1770.574       | 1779.426        | 1710-1780      | PASS    |
|                    |                 | HV      | 1770.585       | 1779.415        | 1710-1780      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B66<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1772.5             | BANDWIDTH       | 15MHz   | QPSK           | QPSK            | 1710-1780      | PASS    |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 1765.728       | 1779.272        | 1710-1780      | PASS    |
|                    | Extreme (40°C)  |         | 1765.725       | 1779.275        | 1710-1780      | PASS    |
|                    | Extreme (30°C)  |         | 1765.760       | 1779.240        | 1710-1780      | PASS    |
|                    | Extreme (20°C)  |         | 1765.794       | 1779.206        | 1710-1780      | PASS    |
|                    | Extreme (10°C)  |         | 1765.706       | 1779.294        | 1710-1780      | PASS    |
|                    | Extreme (0°C)   |         | 1765.783       | 1779.217        | 1710-1780      | PASS    |
|                    | Extreme (-10°C) |         | 1765.740       | 1779.260        | 1710-1780      | PASS    |
|                    | Extreme (-20°C) |         | 1765.714       | 1779.286        | 1710-1780      | PASS    |
|                    | Extreme (-30°C) |         | 1765.738       | 1779.262        | 1710-1780      | PASS    |
|                    | 25°C            | LV      | 1765.713       | 1779.287        | 1710-1780      | PASS    |
|                    |                 | HV      | 1765.751       | 1779.249        | 1710-1780      | PASS    |
|                    |                 |         |                |                 |                |         |
| LTE B66<br>Fc(MHz) | Condition       |         | F Low<br>(MHz) | F High<br>(MHz) | Limit<br>(MHz) | Verdict |
| 1770               | BANDWIDTH       | 20MHz   | QPSK           | QPSK            | 1710-1780      | PASS    |
|                    | Temperature     | Voltage |                |                 |                |         |
|                    | Extreme (50°C)  | NV      | 1760.923       | 1779.077        | 1710-1780      | PASS    |
|                    | Extreme (40°C)  |         | 1760.903       | 1779.097        | 1710-1780      | PASS    |
|                    | Extreme (30°C)  |         | 1760.940       | 1779.060        | 1710-1780      | PASS    |

|  |                 |    |          |          |           |      |
|--|-----------------|----|----------|----------|-----------|------|
|  | Extreme (20°C)  |    | 1760.918 | 1779.082 | 1710-1780 | PASS |
|  | Extreme (10°C)  |    | 1760.955 | 1779.045 | 1710-1780 | PASS |
|  | Extreme (0°C)   |    | 1760.980 | 1779.020 | 1710-1780 | PASS |
|  | Extreme (-10°C) |    | 1760.974 | 1779.026 | 1710-1780 | PASS |
|  | Extreme (-20°C) |    | 1760.912 | 1779.088 | 1710-1780 | PASS |
|  | Extreme (-30°C) |    | 1760.983 | 1779.017 | 1710-1780 | PASS |
|  | 25°C            | LV | 1760.948 | 1779.052 | 1710-1780 | PASS |
|  |                 | HV | 1760.906 | 1779.094 | 1710-1780 | PASS |