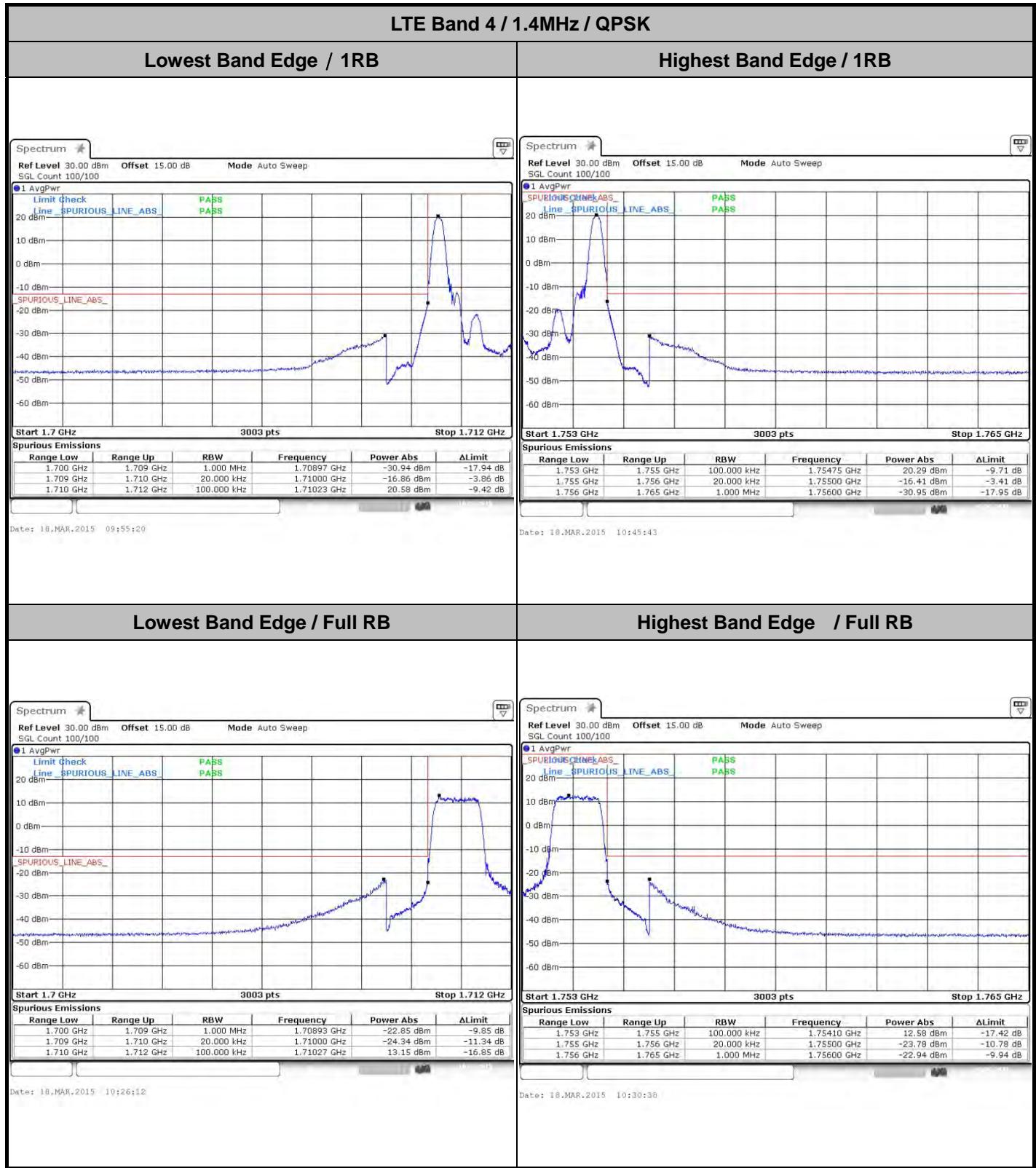
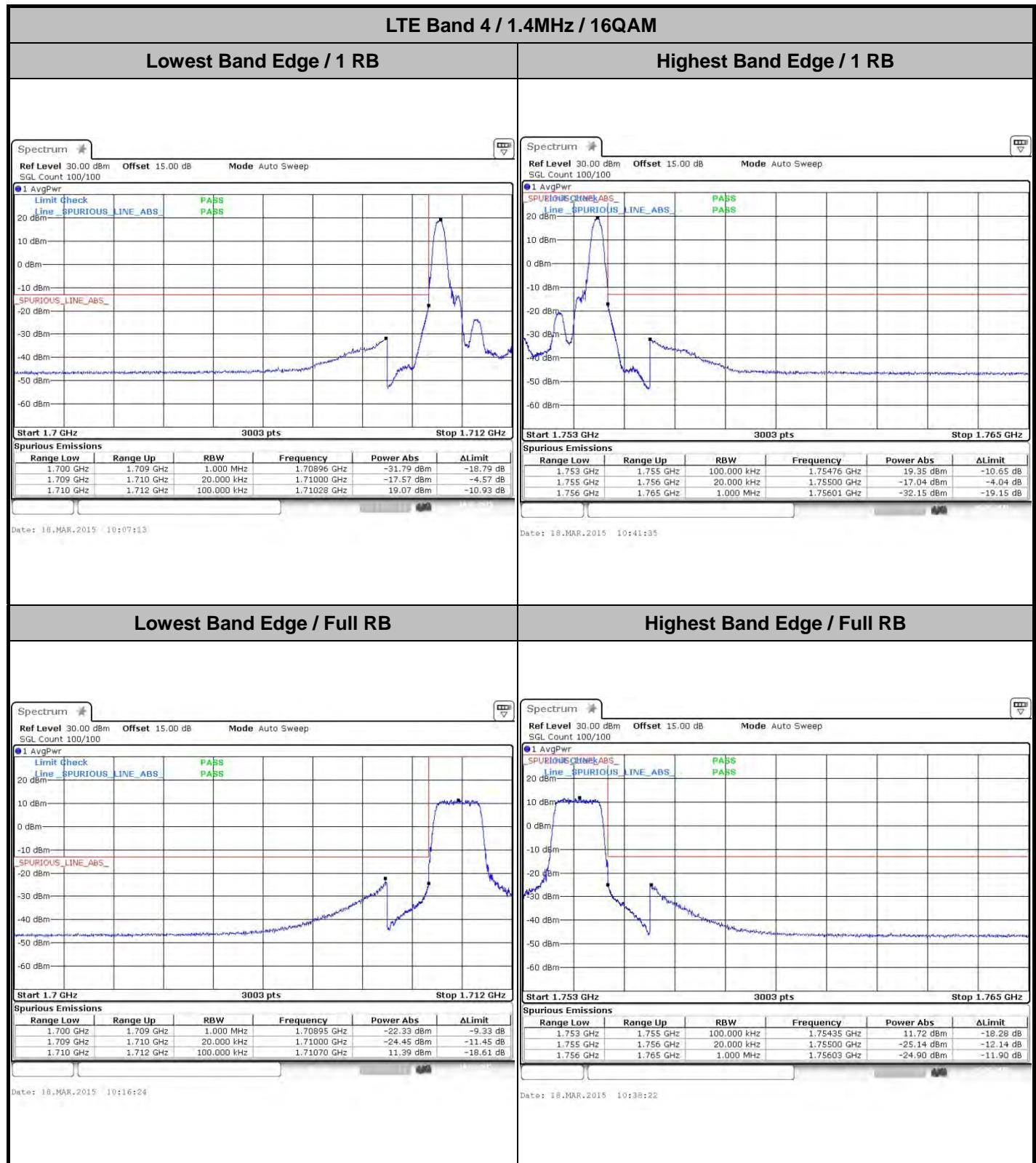
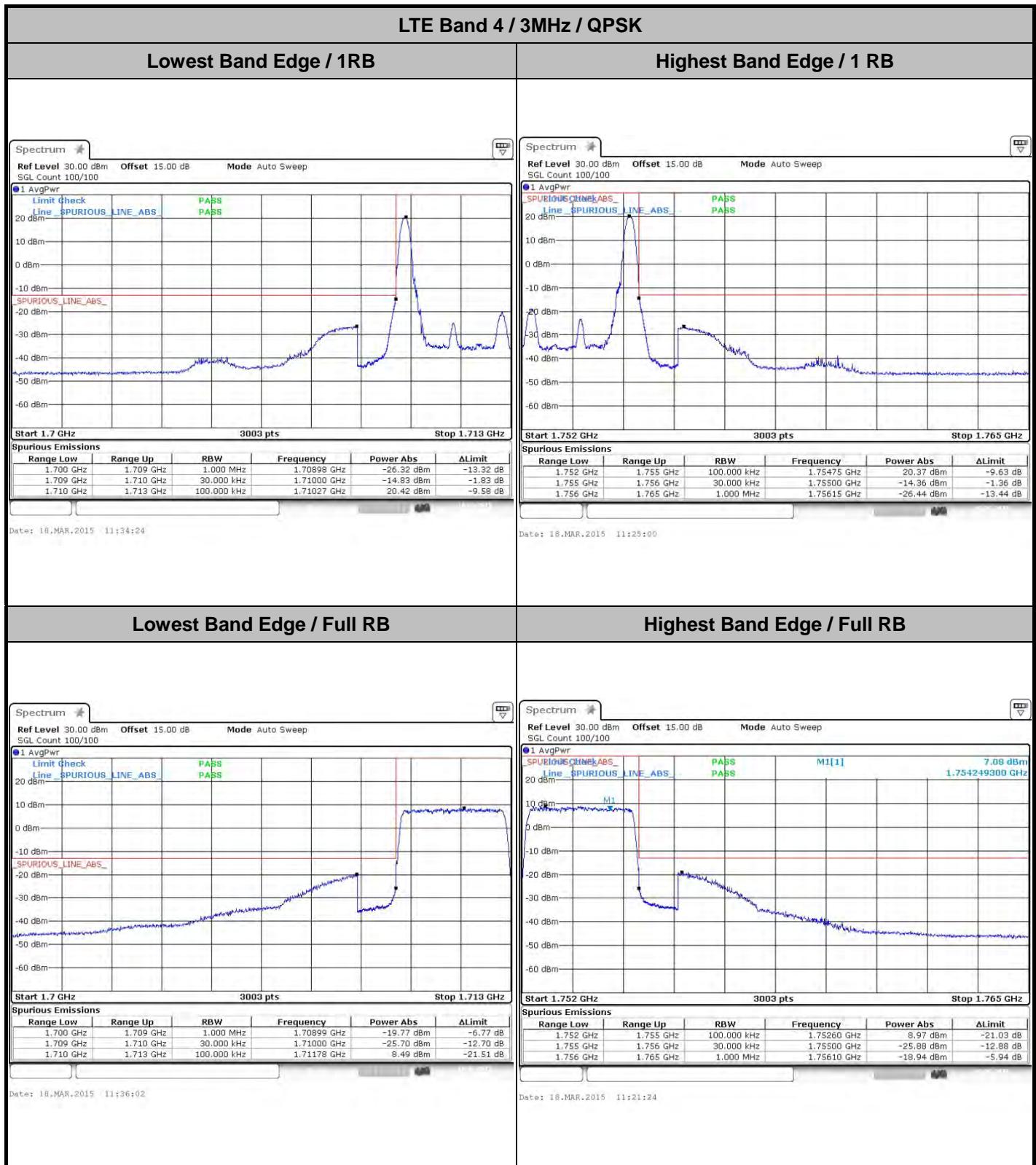


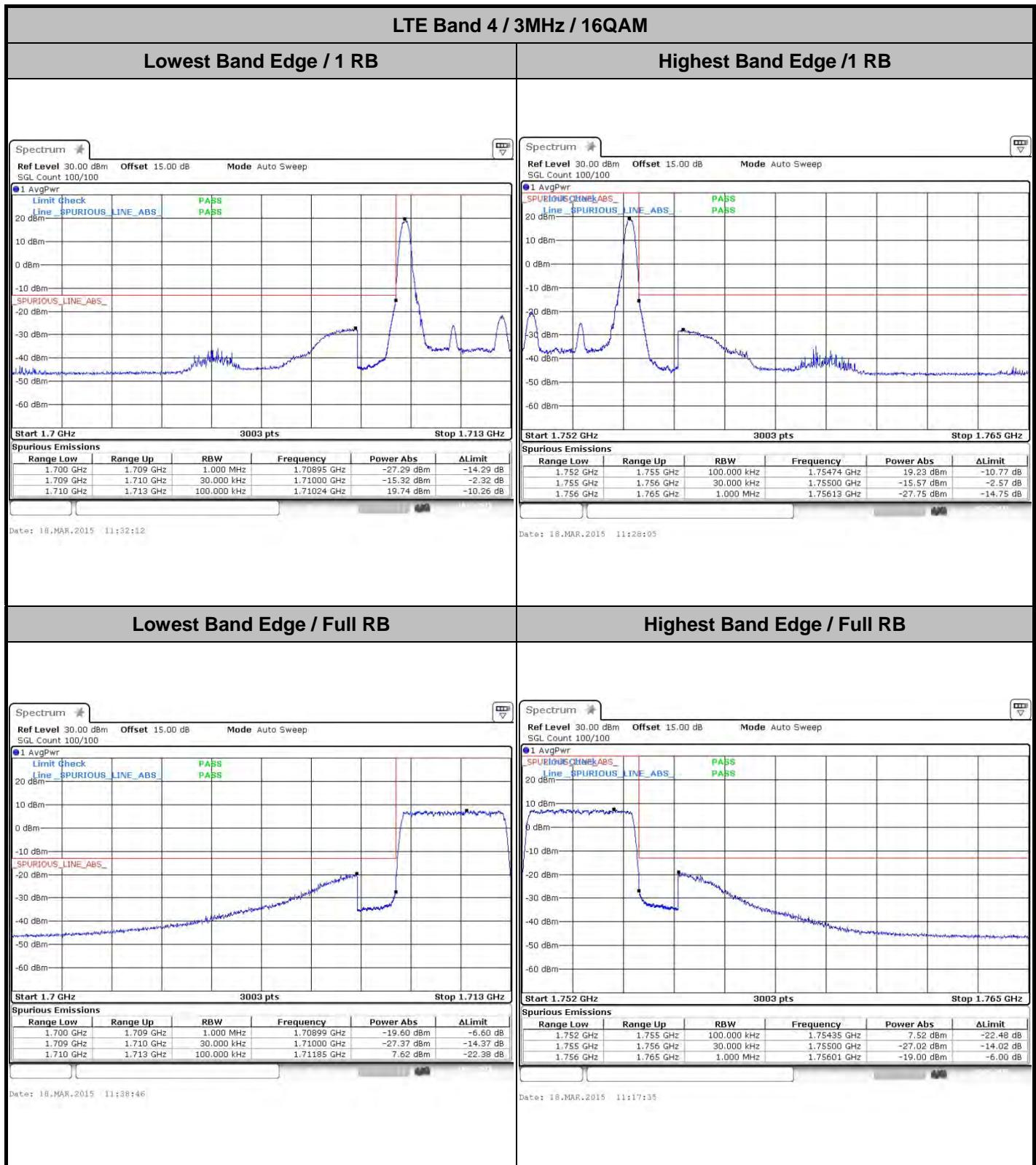


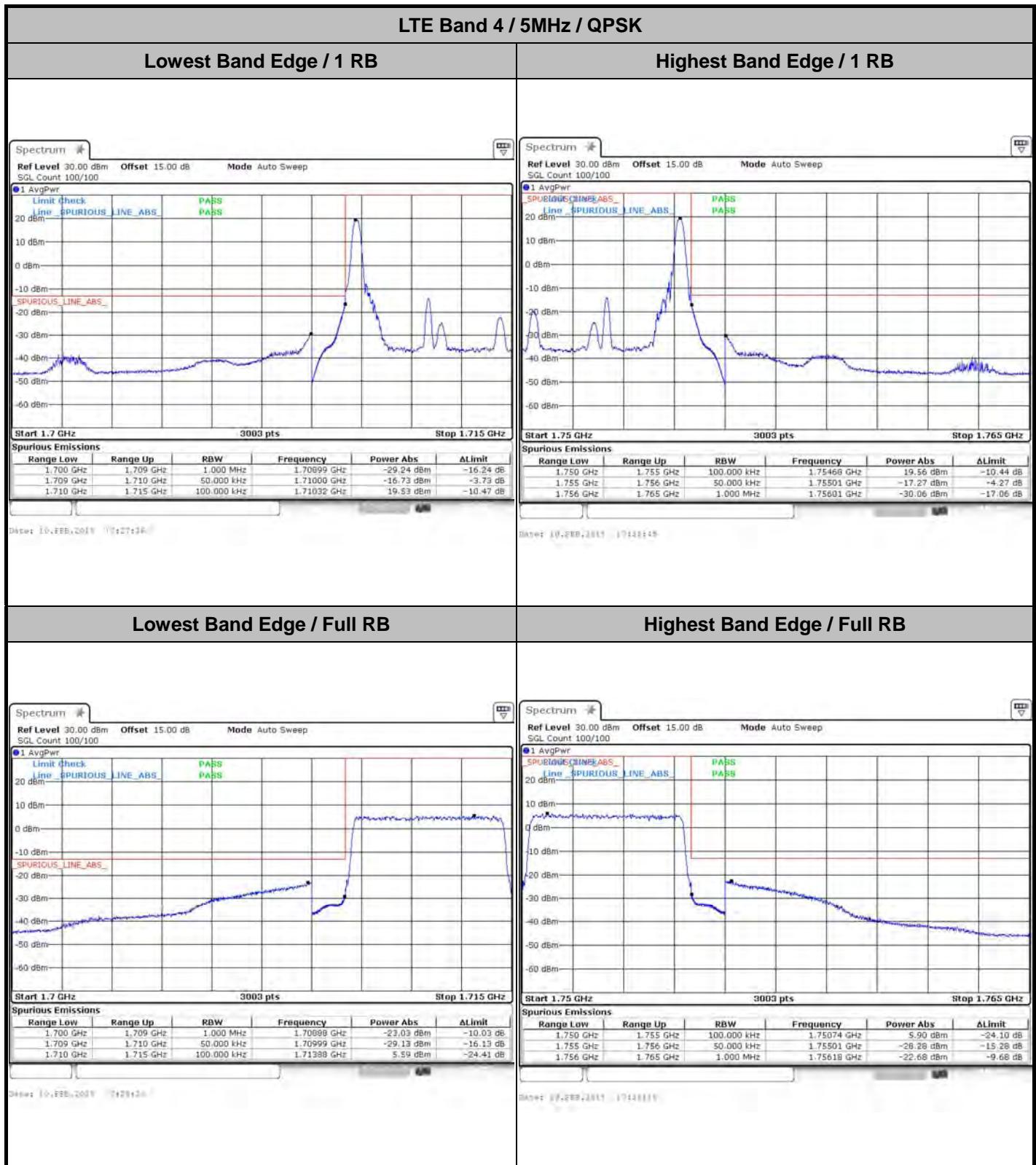
Conducted Band Edge

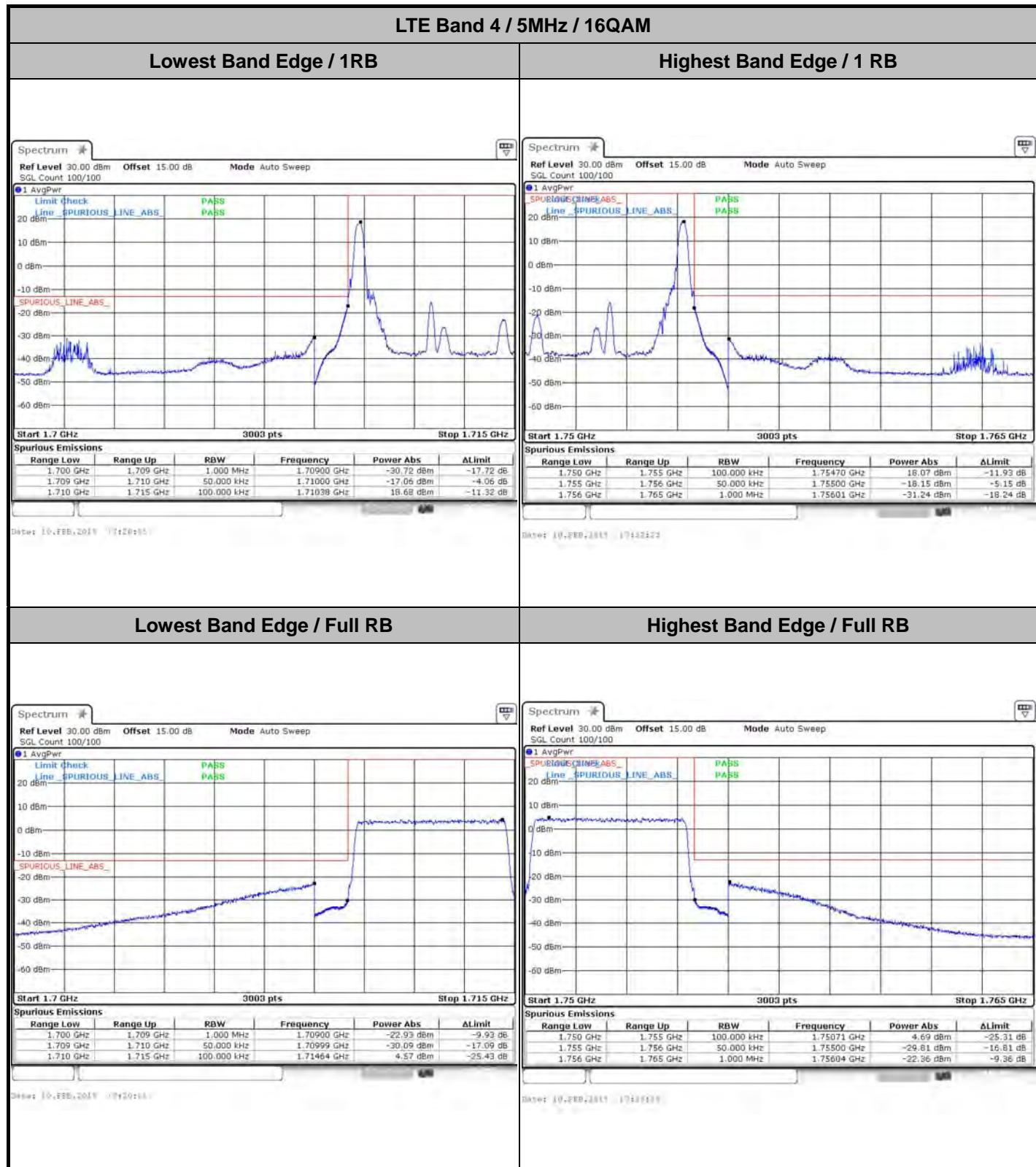


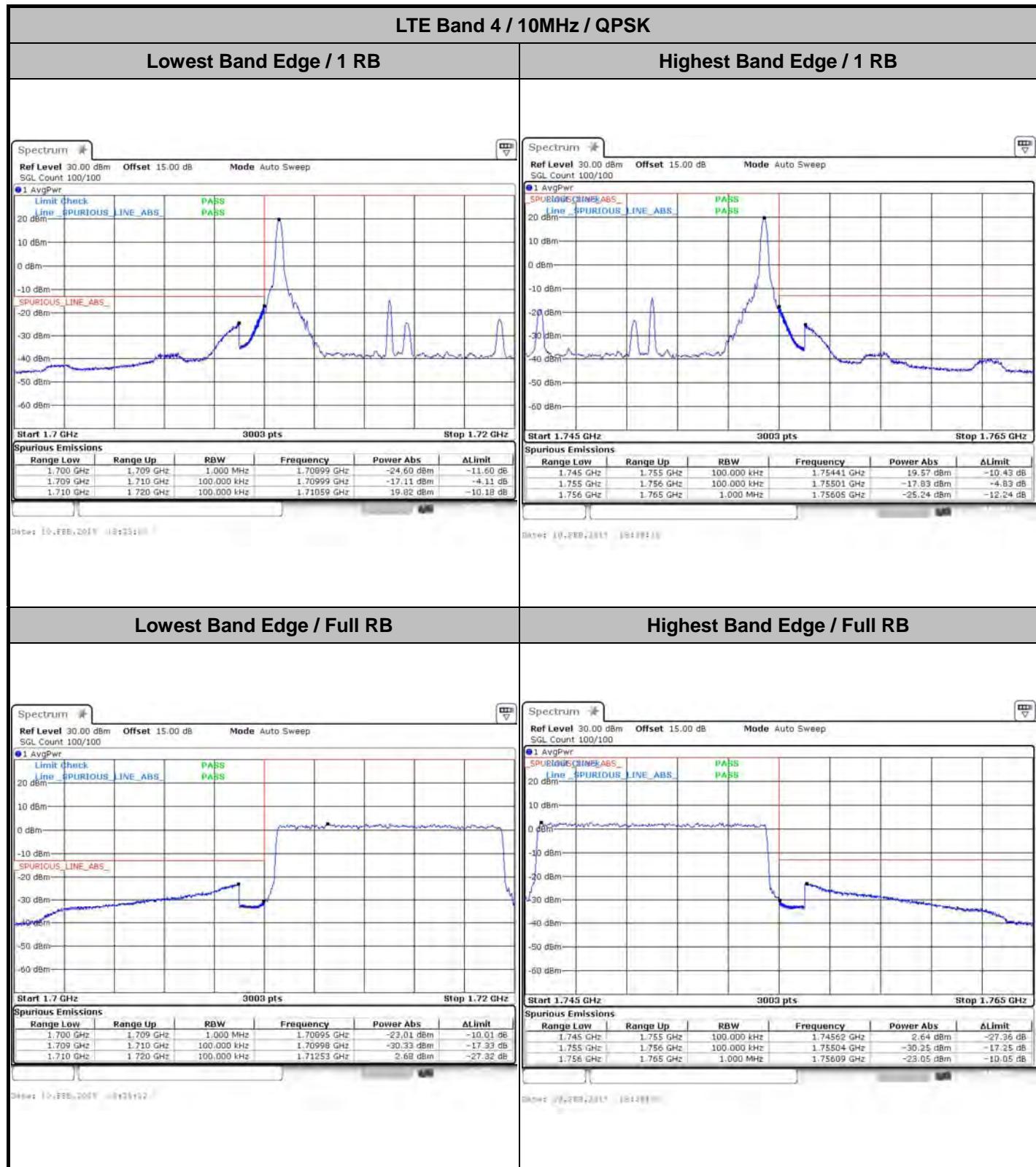


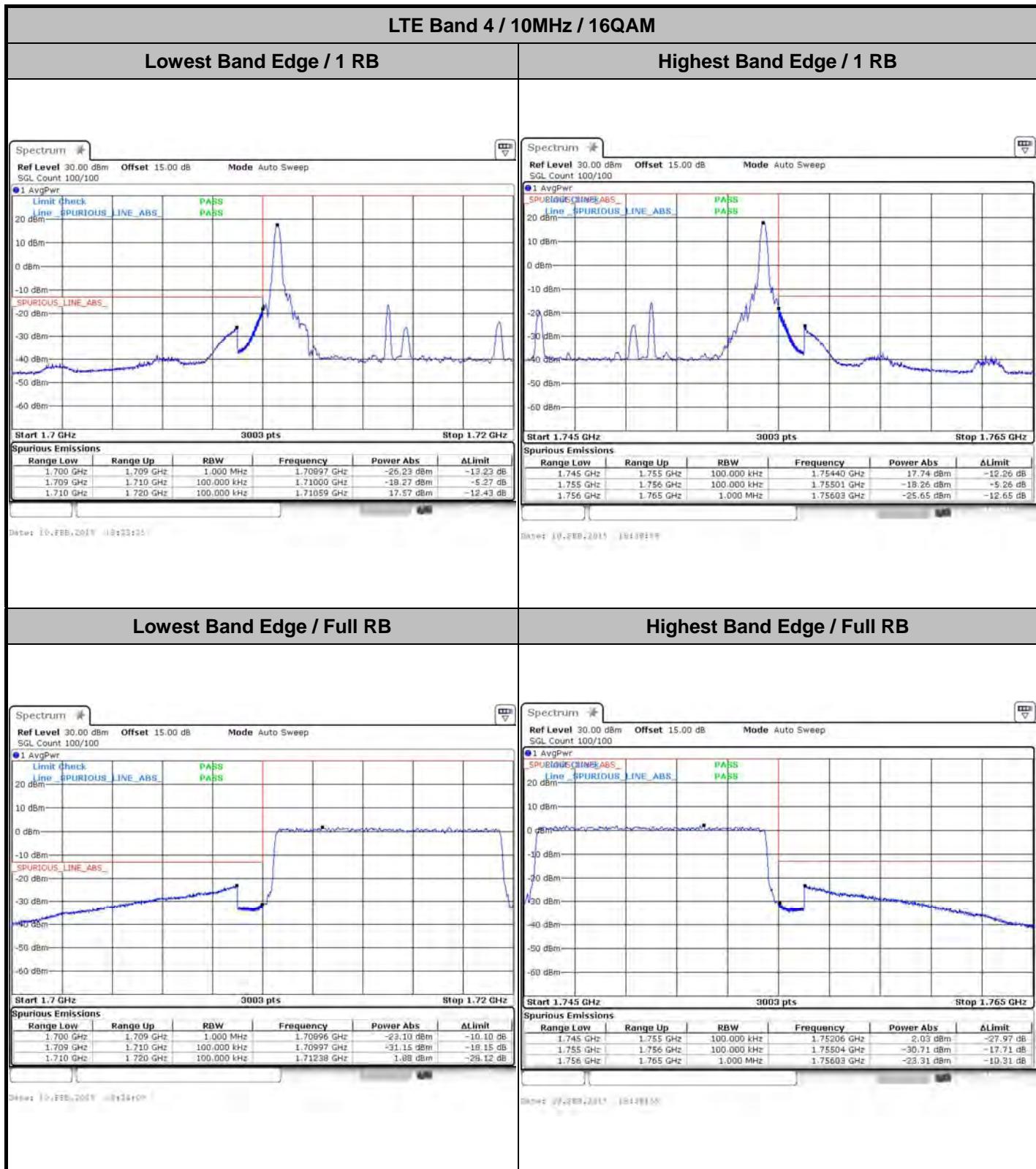


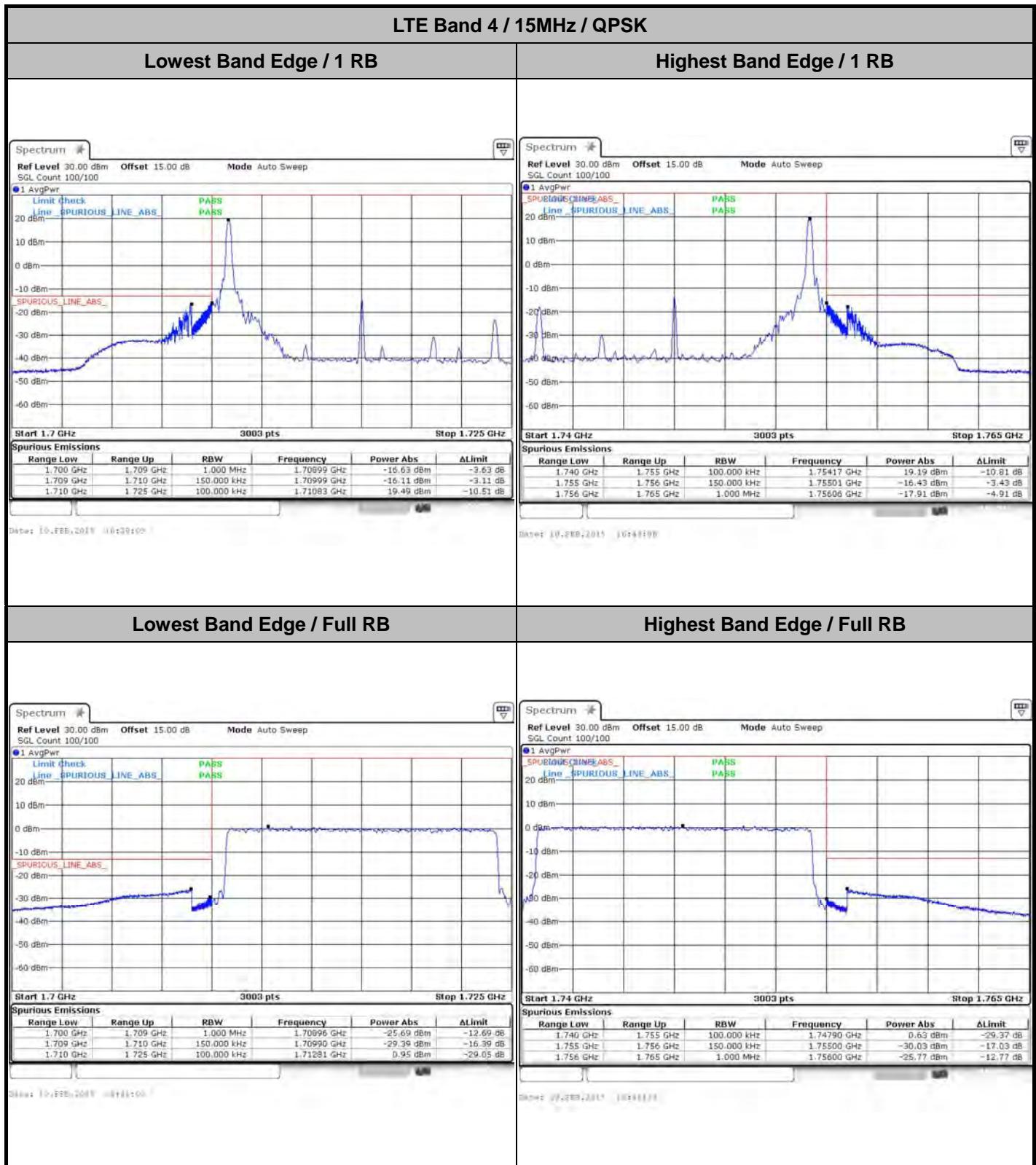


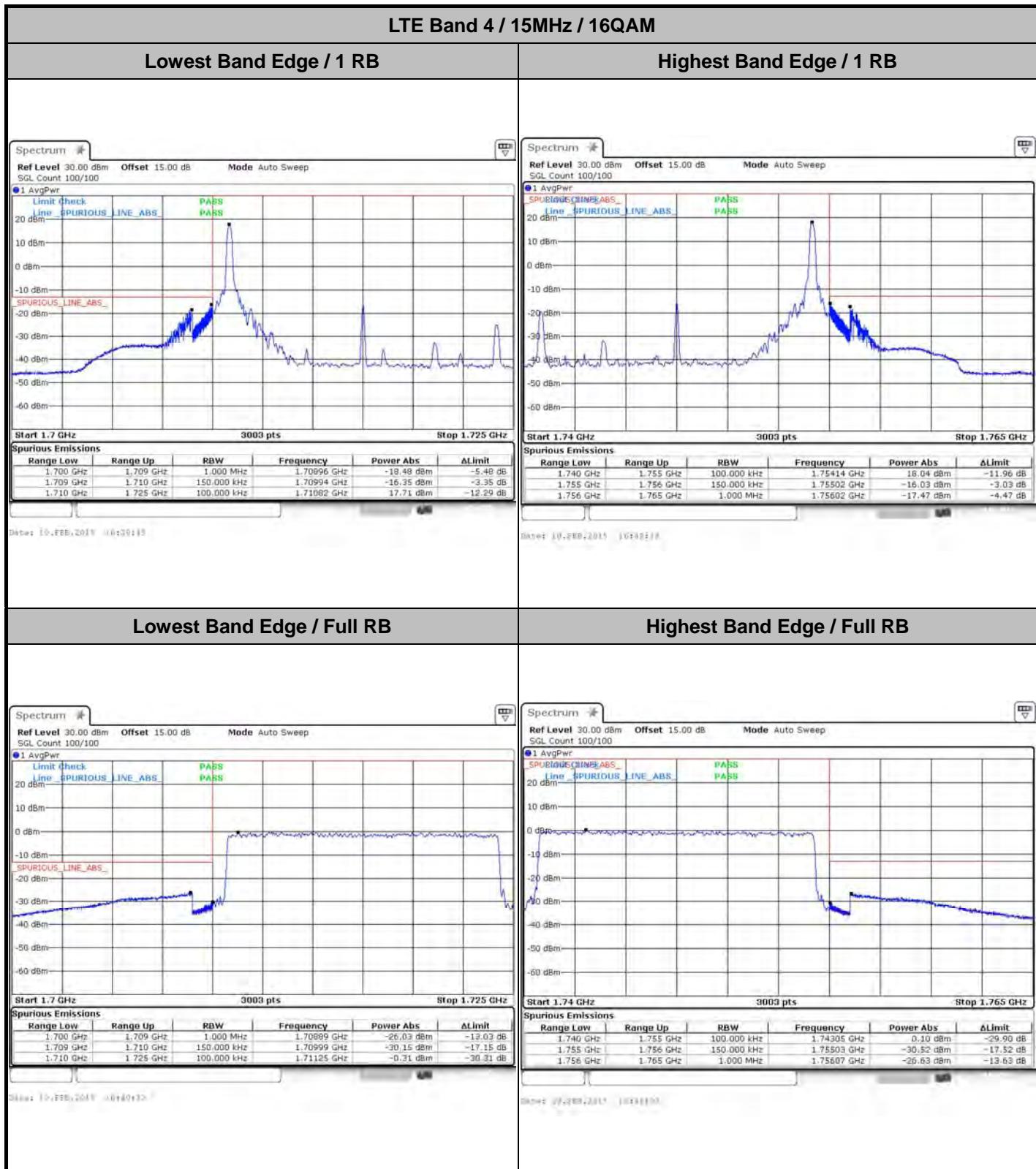


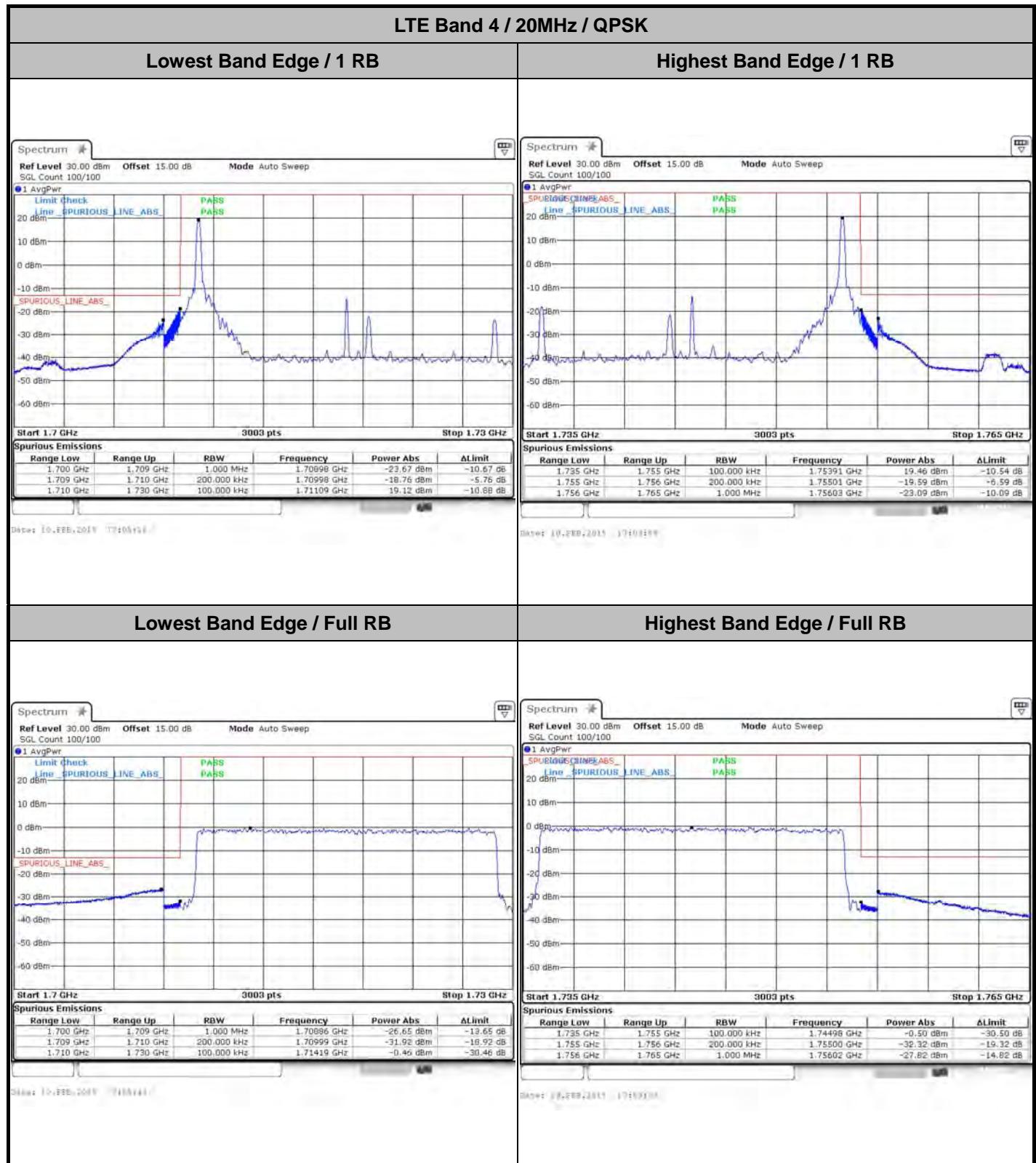


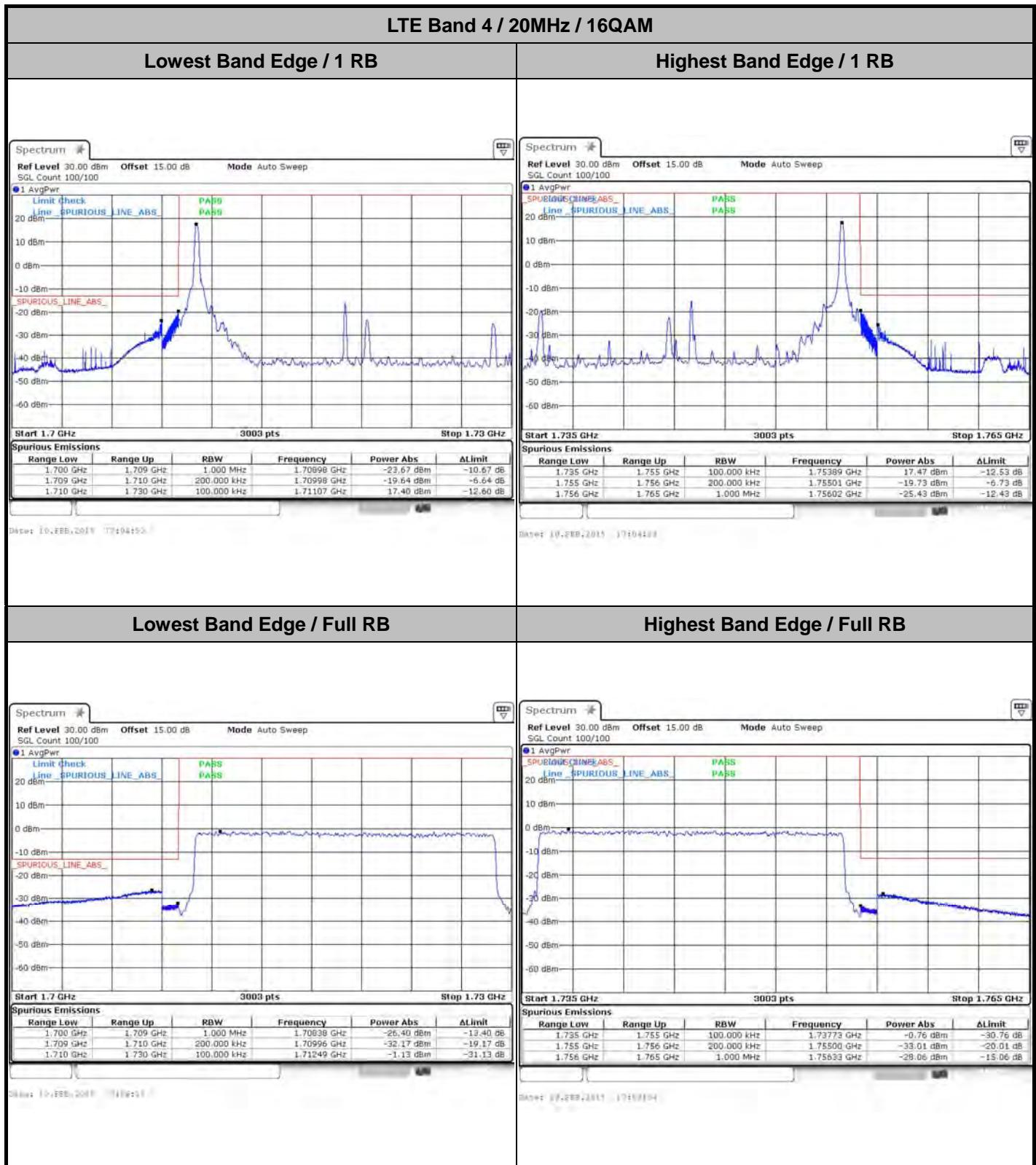


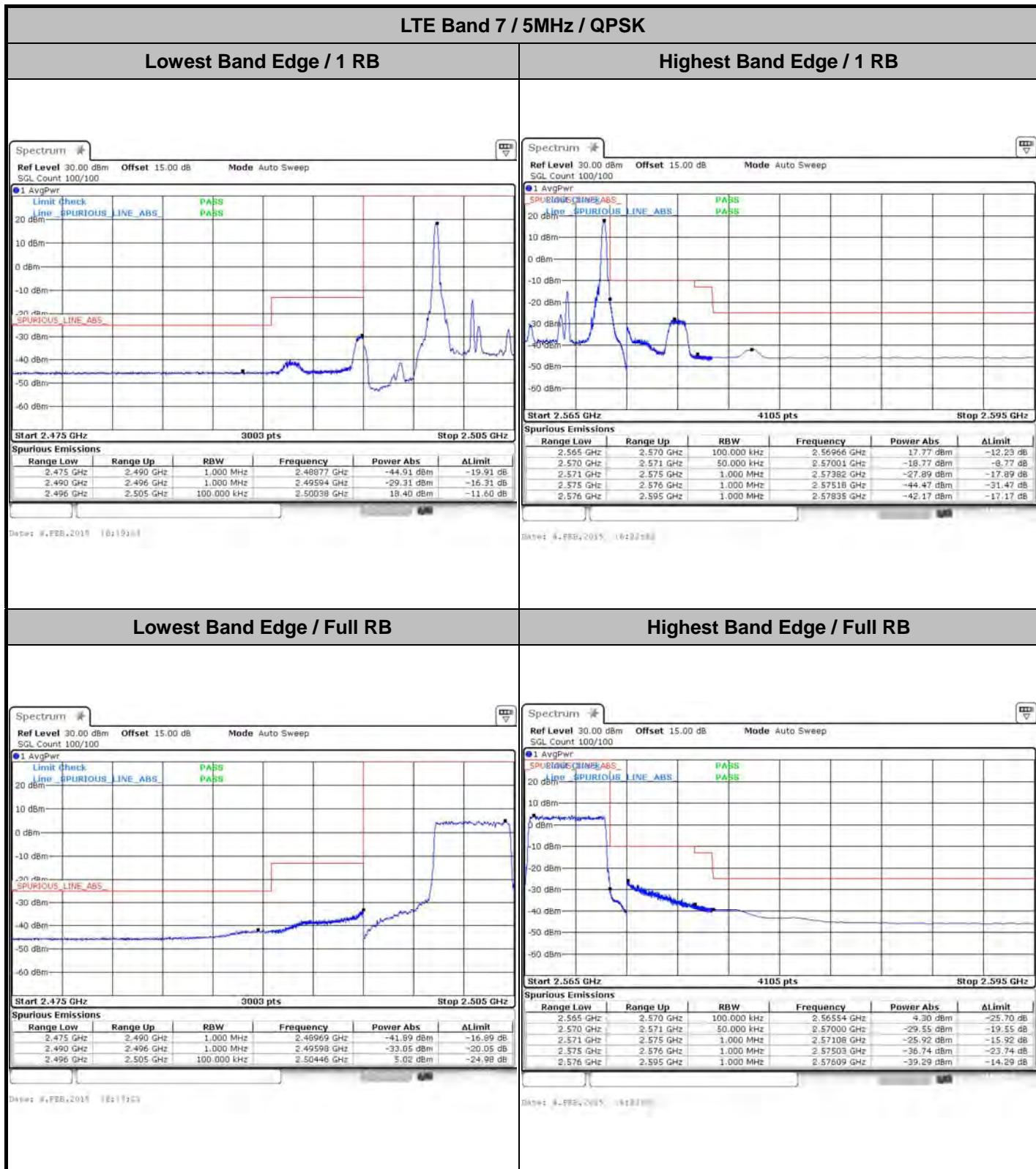


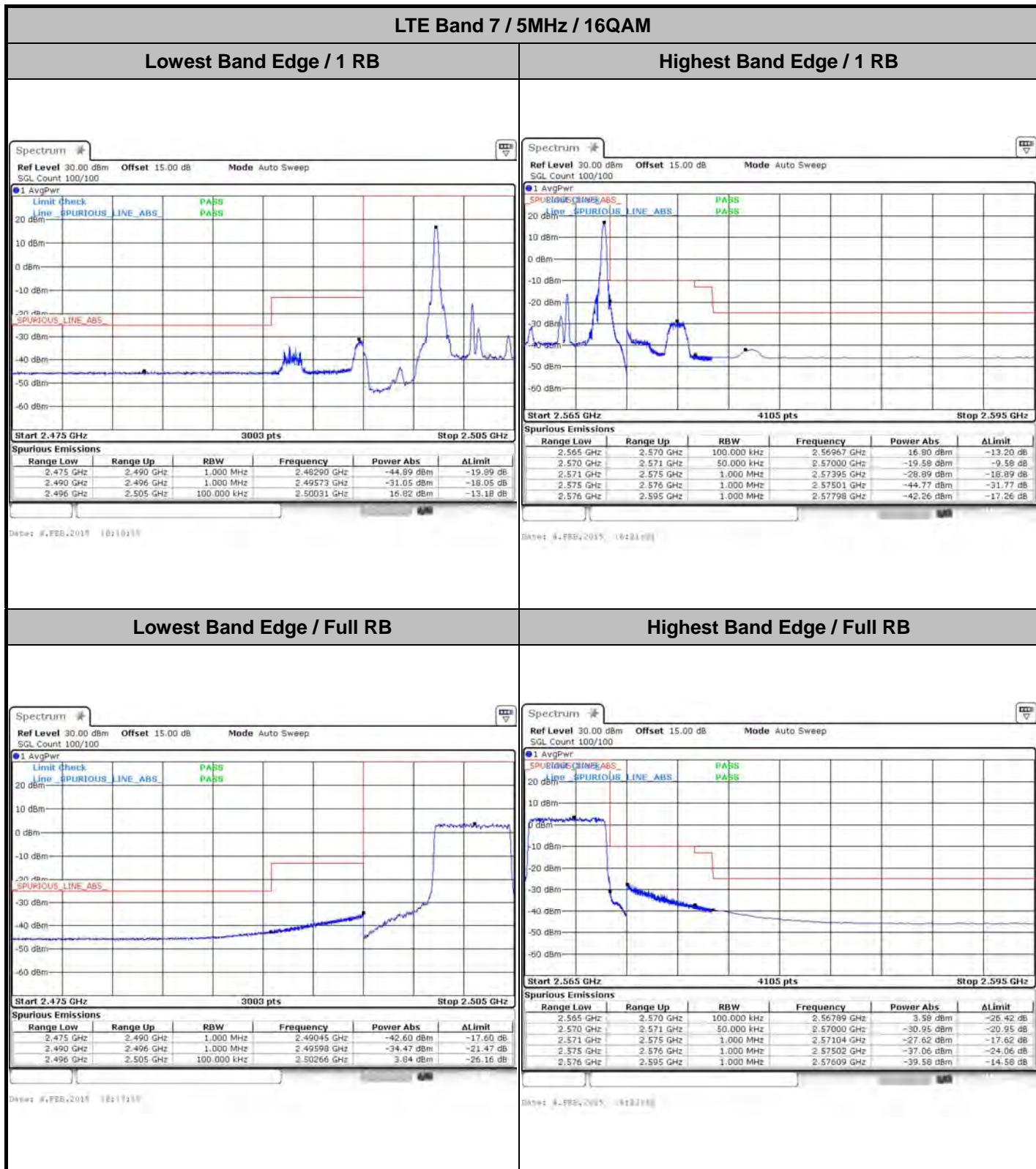


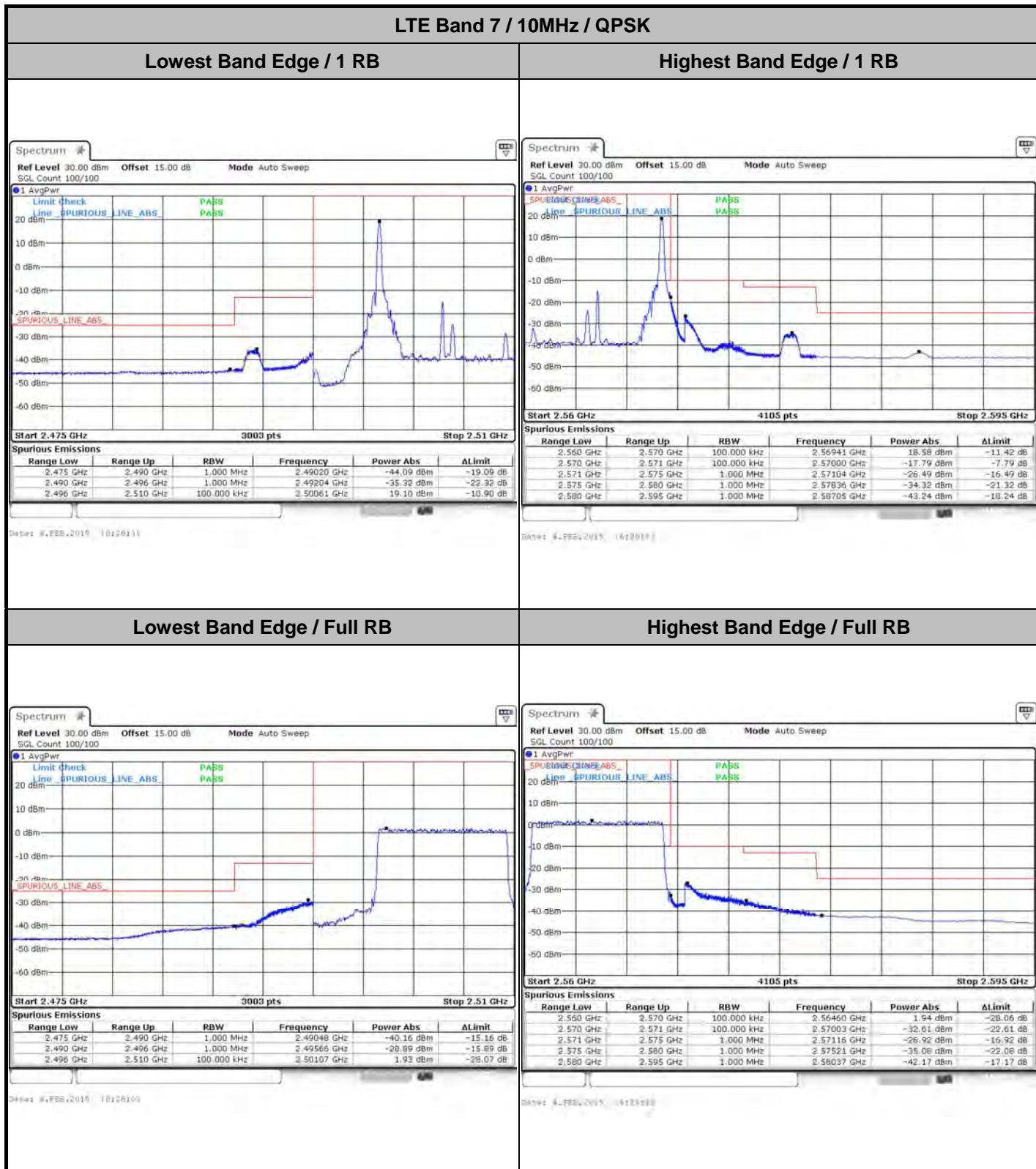


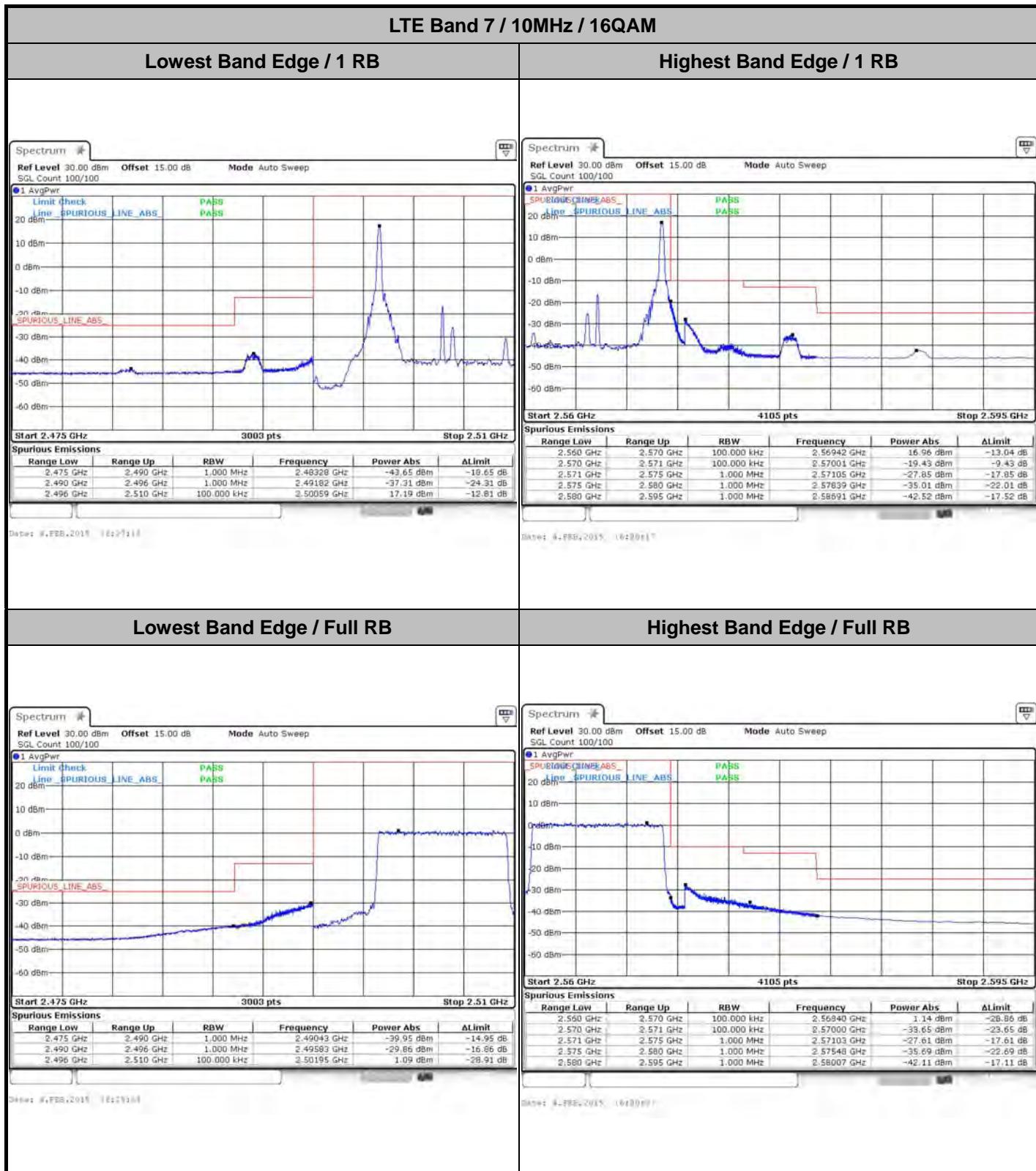


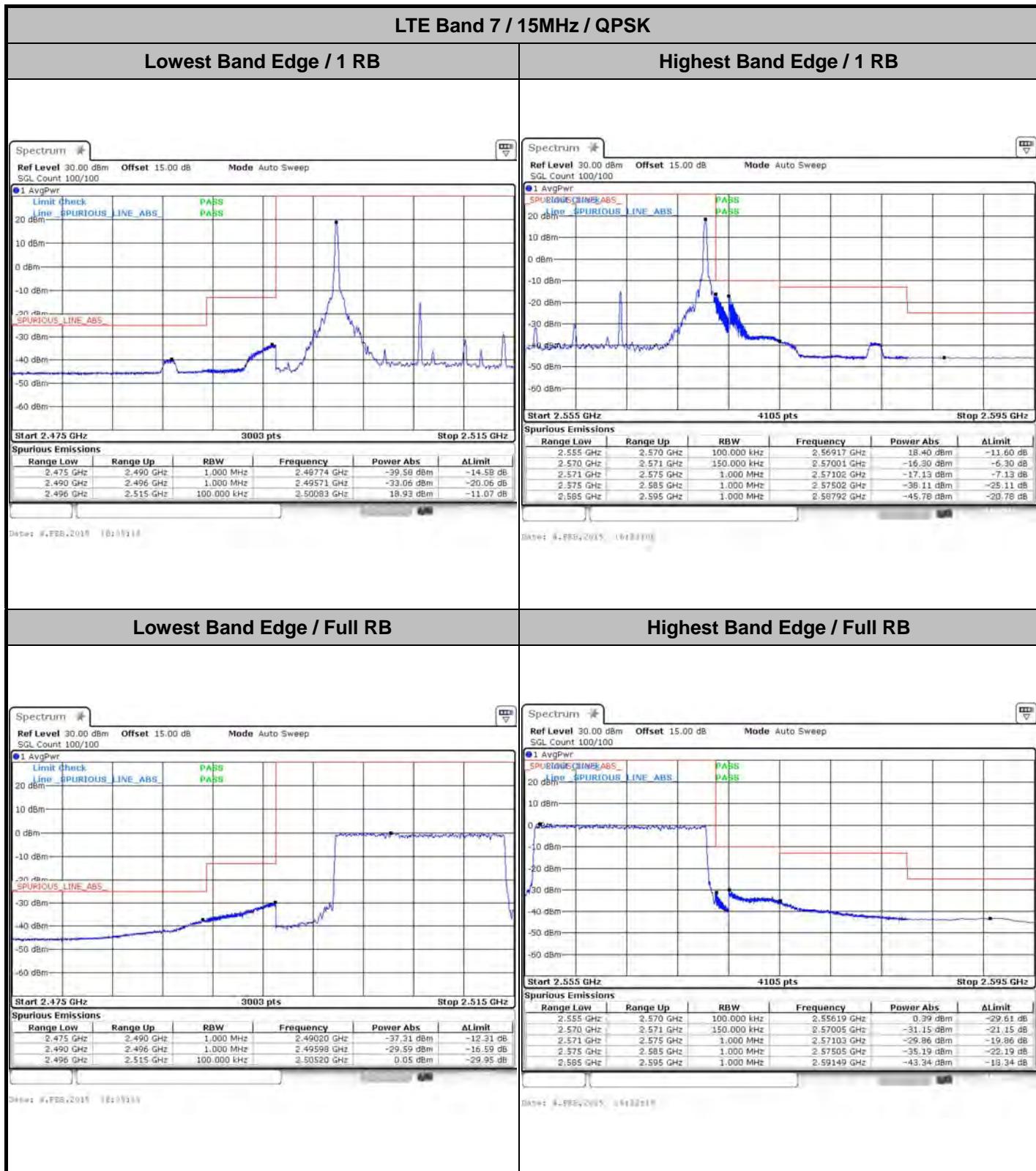


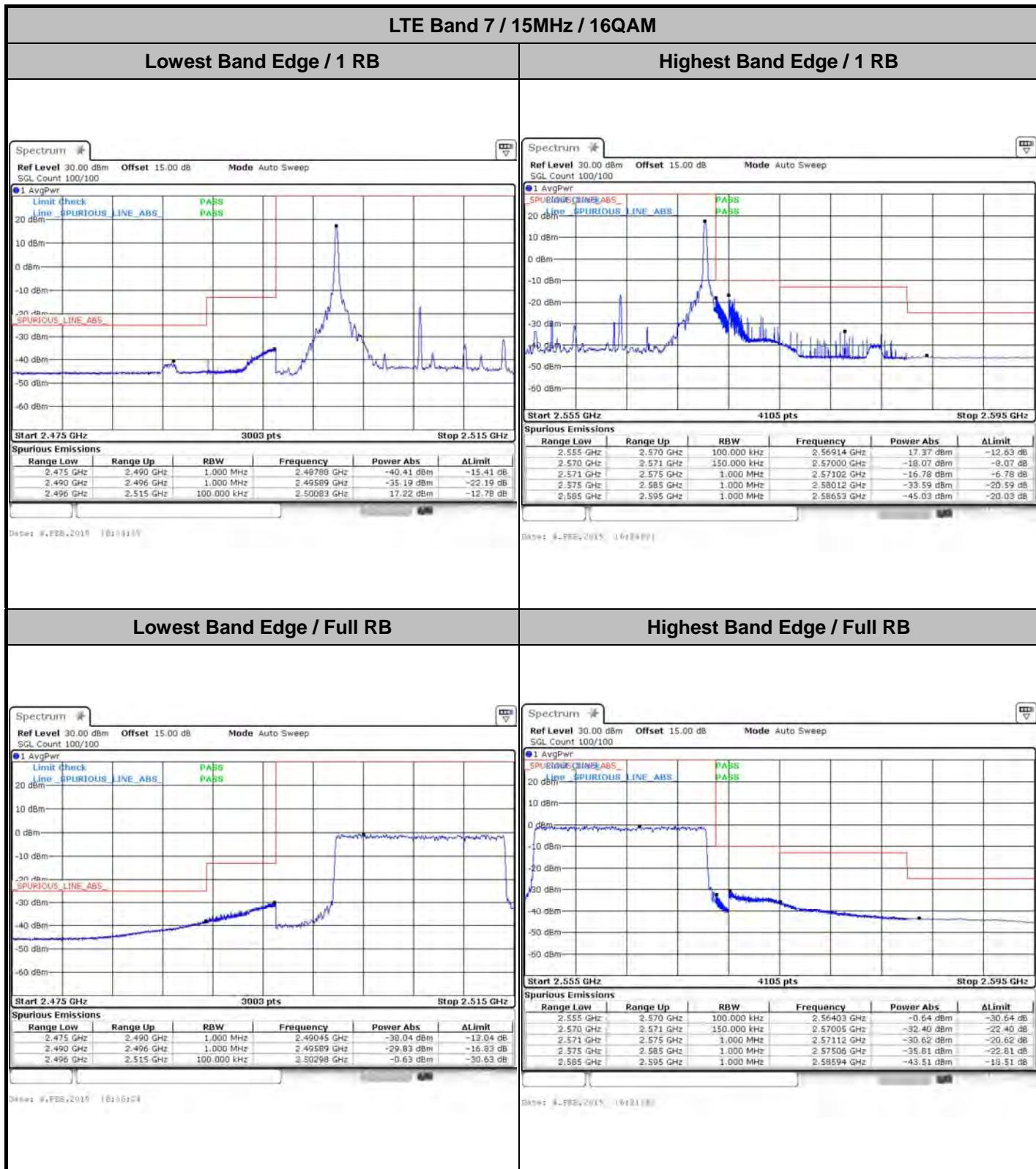


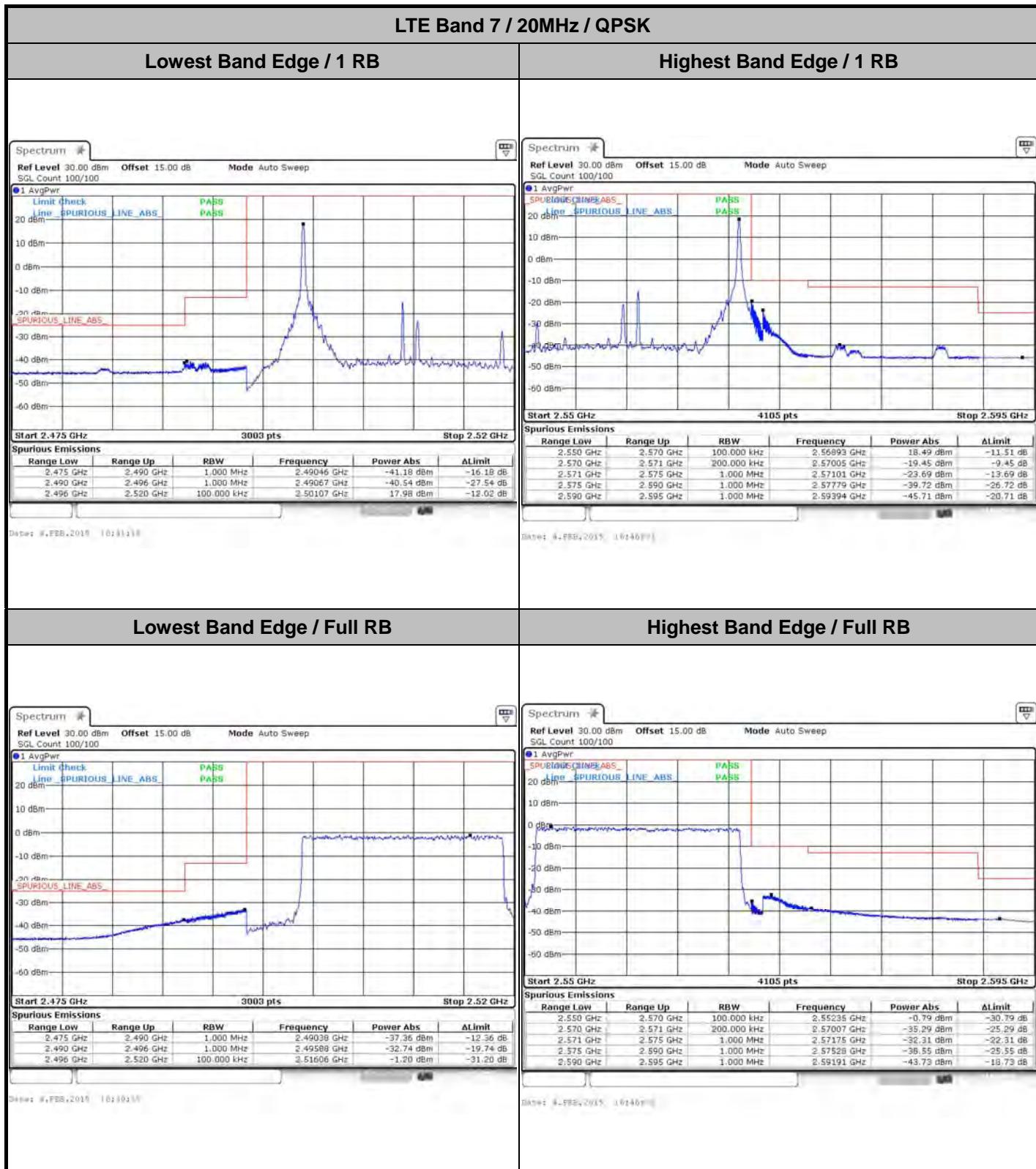


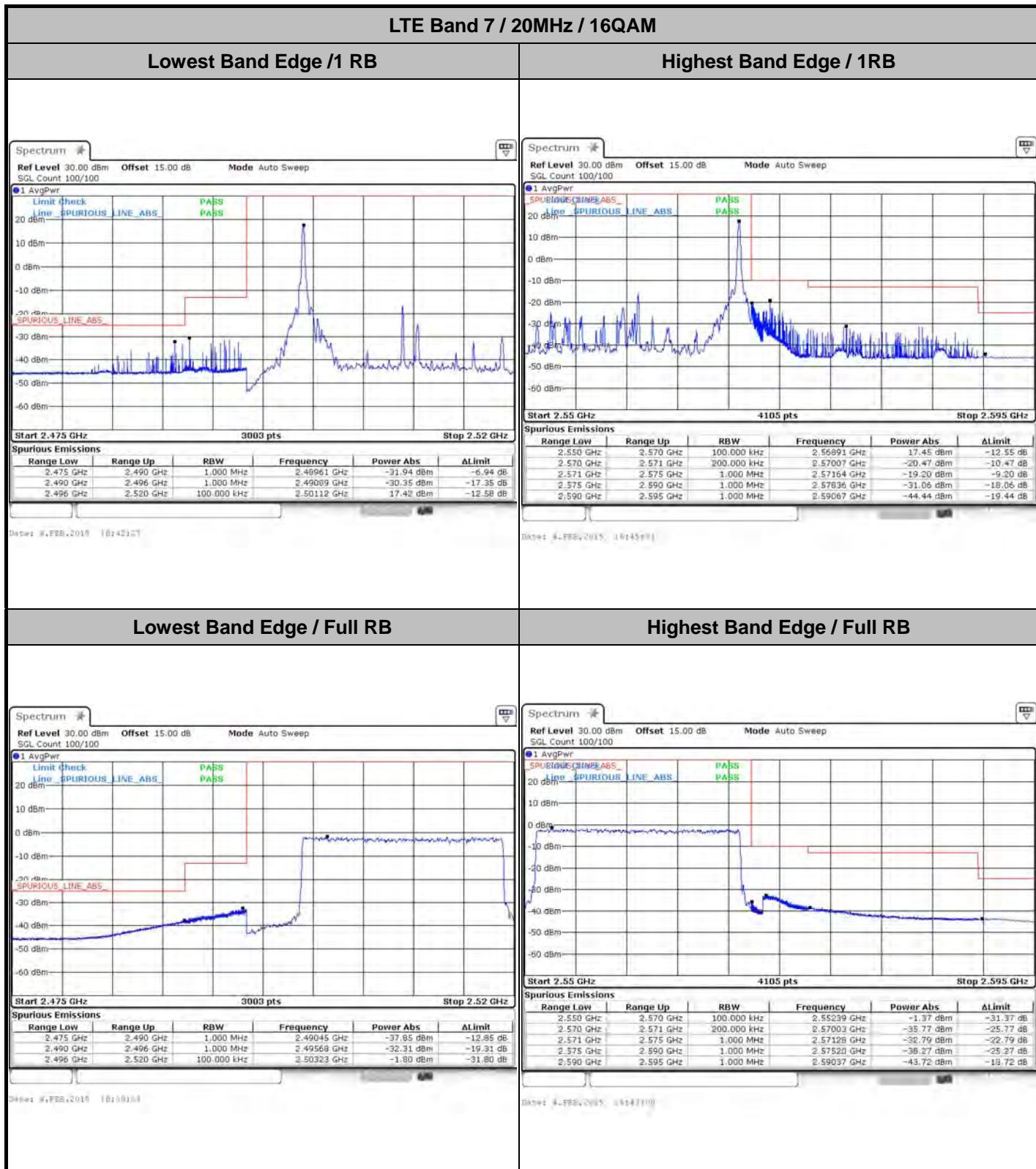


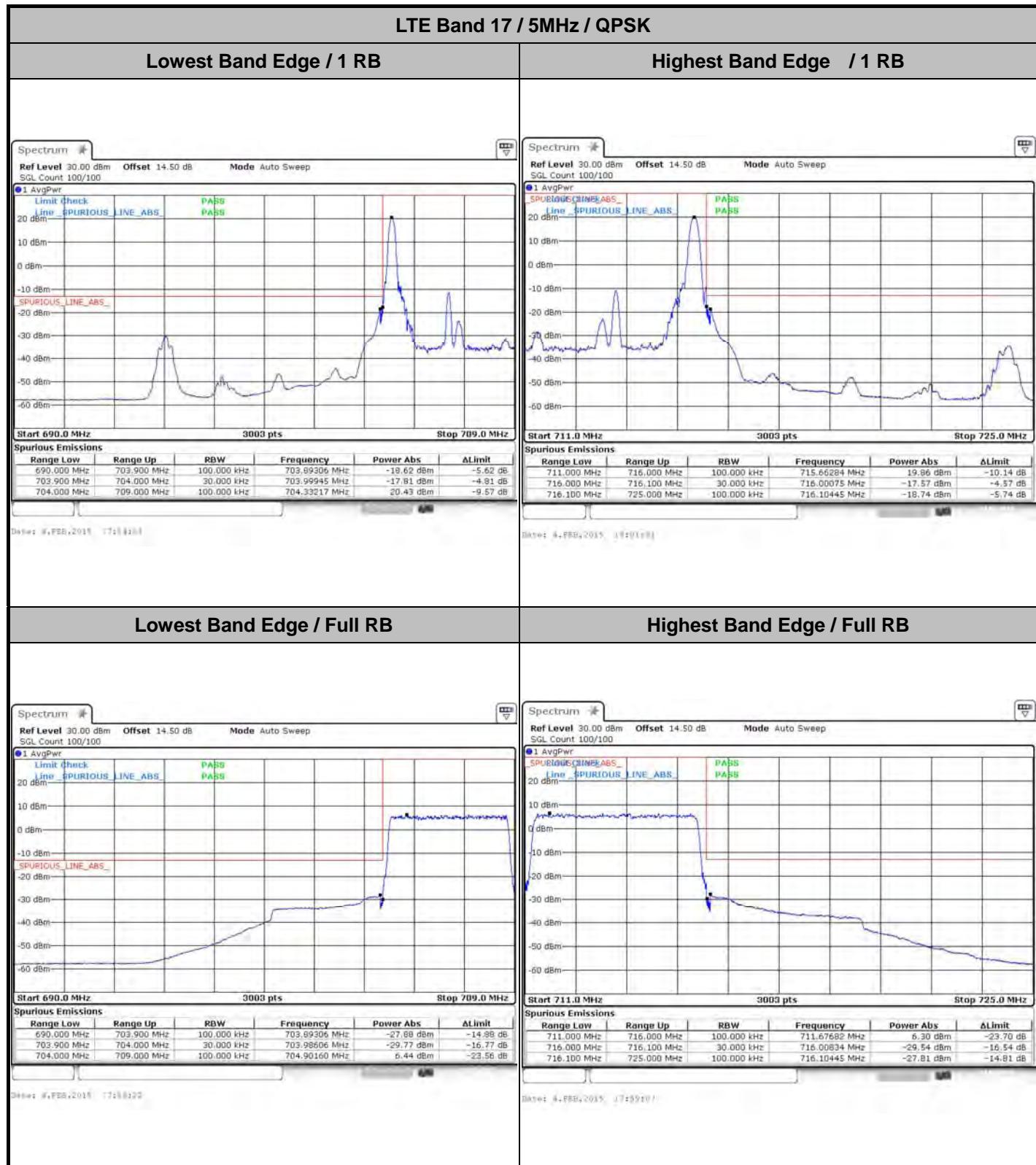


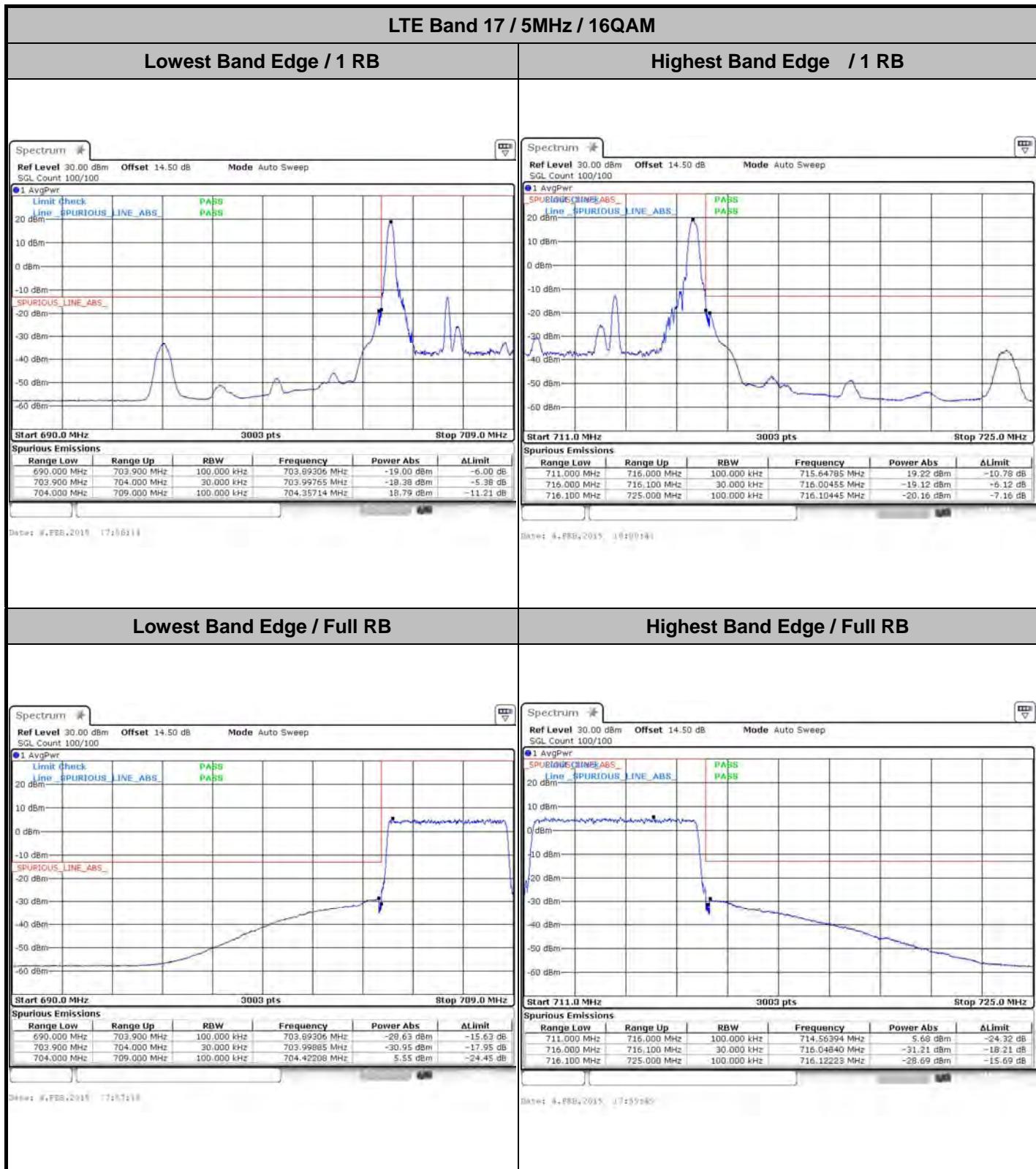


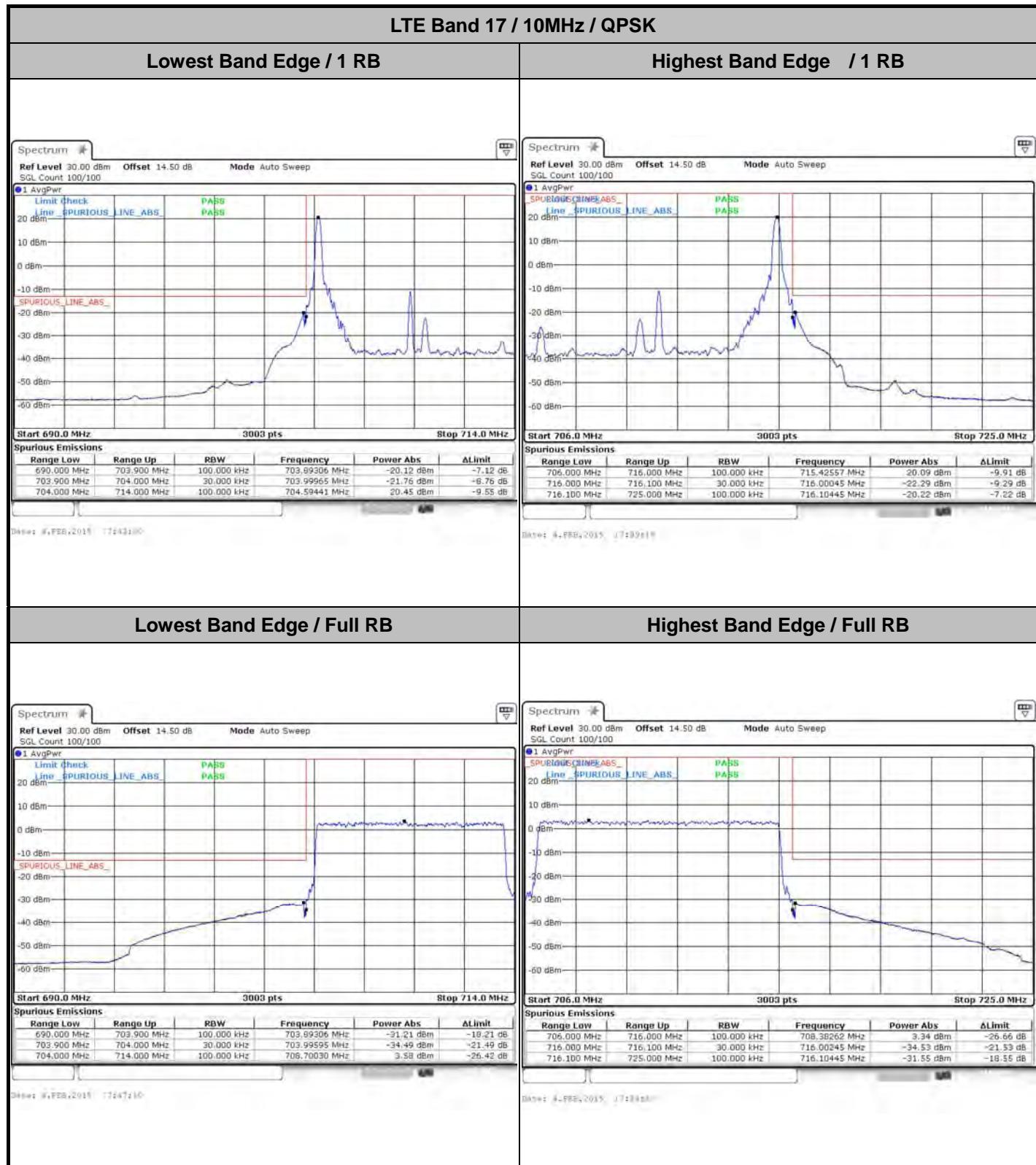


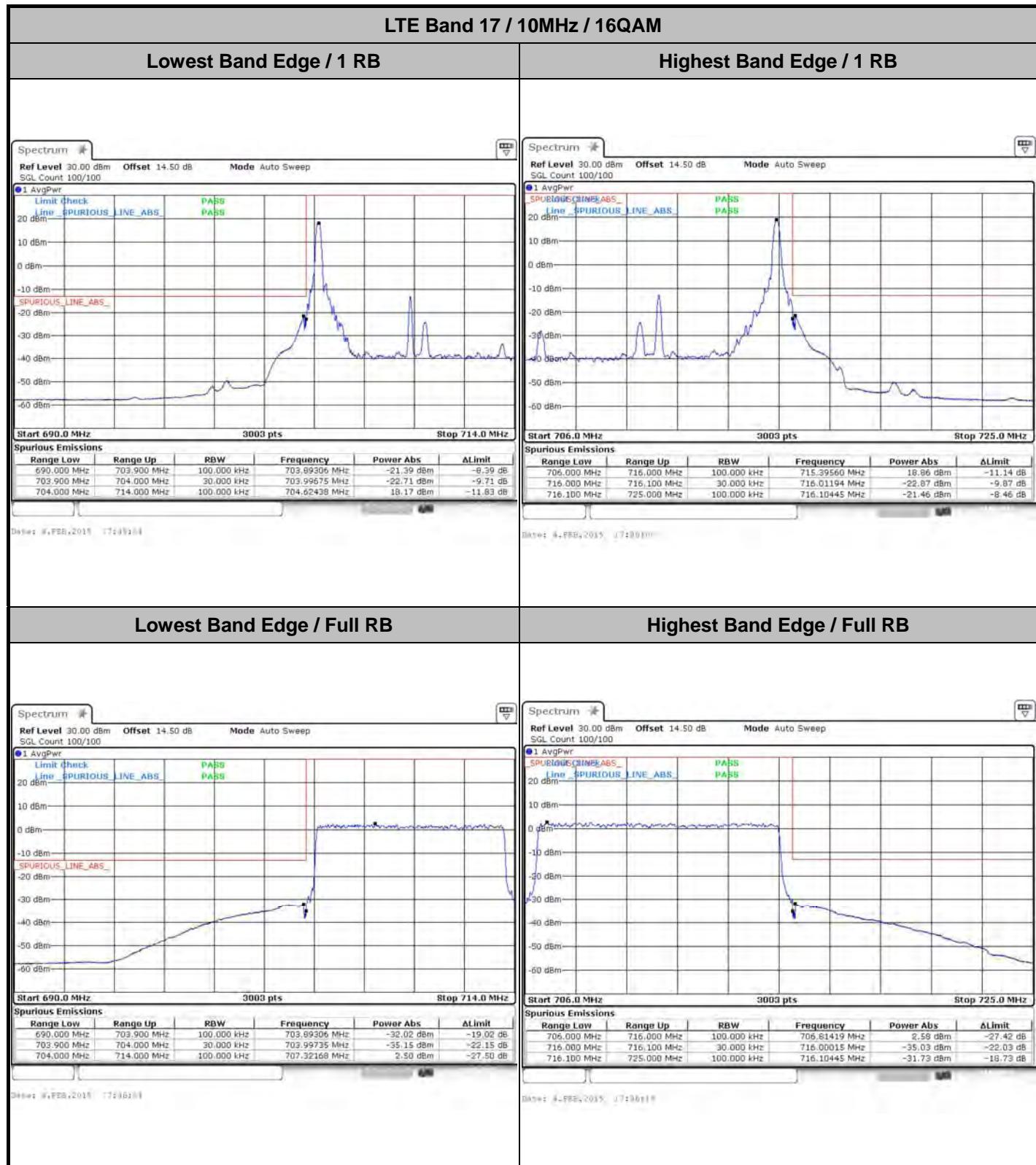










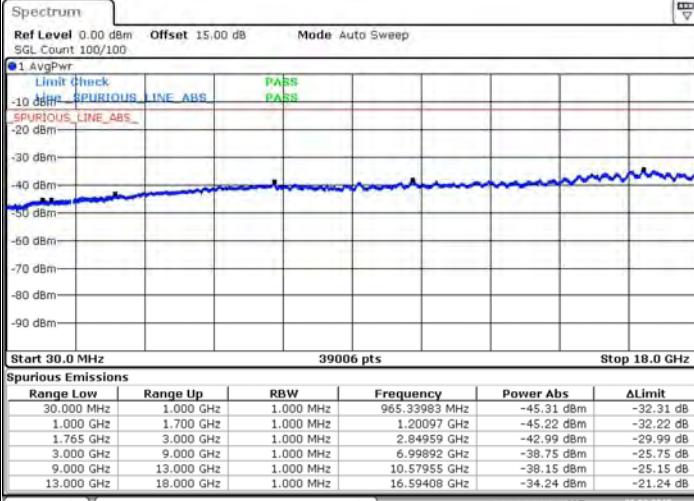




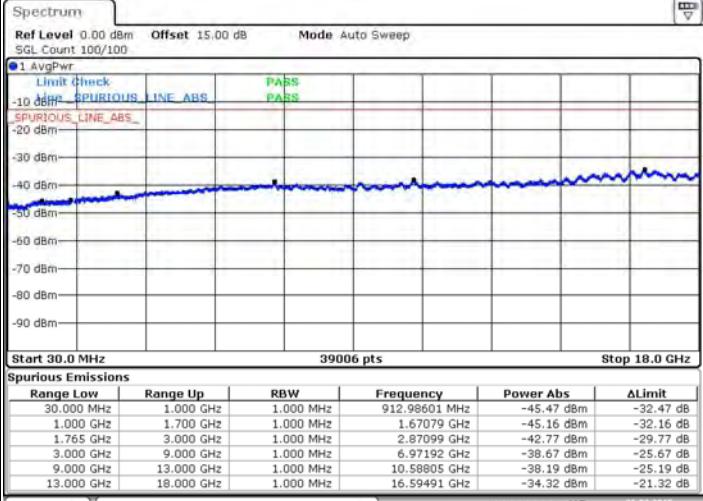
Conducted Spurious Emission

LTE Band 4 / 1.4MHz

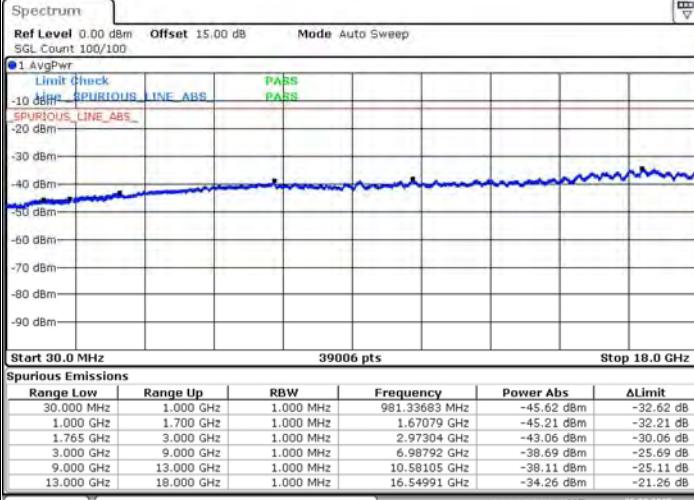
Lowest Channel / QPSK



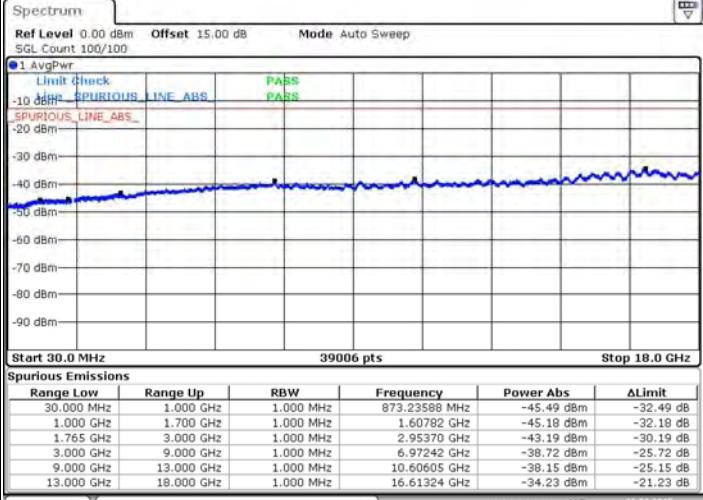
Lowest Channel / 16QAM



Middle Channel / QPSK



Middle Channel / 16QAM

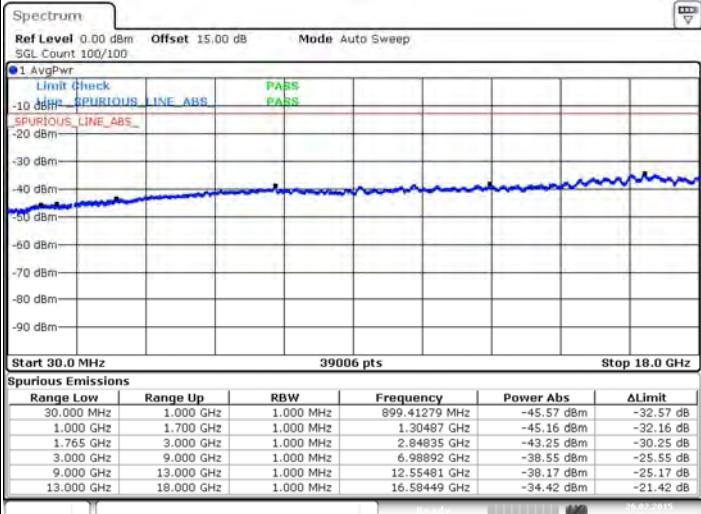
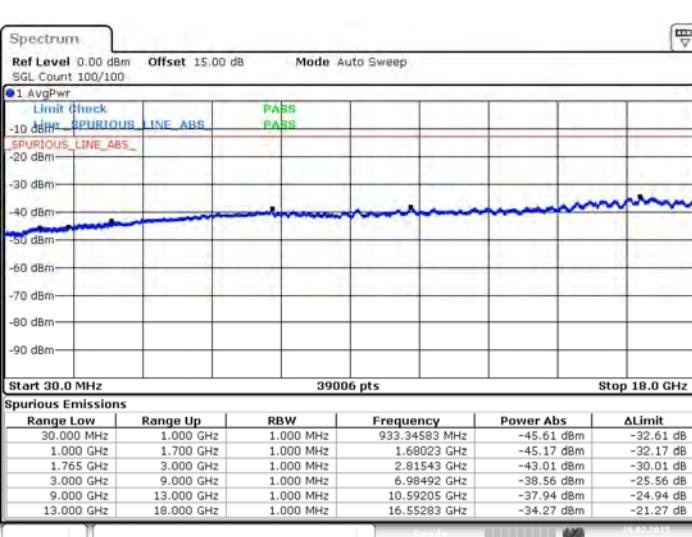




LTE Band 4 / 1.4MHz

Highest Channel / QPSK

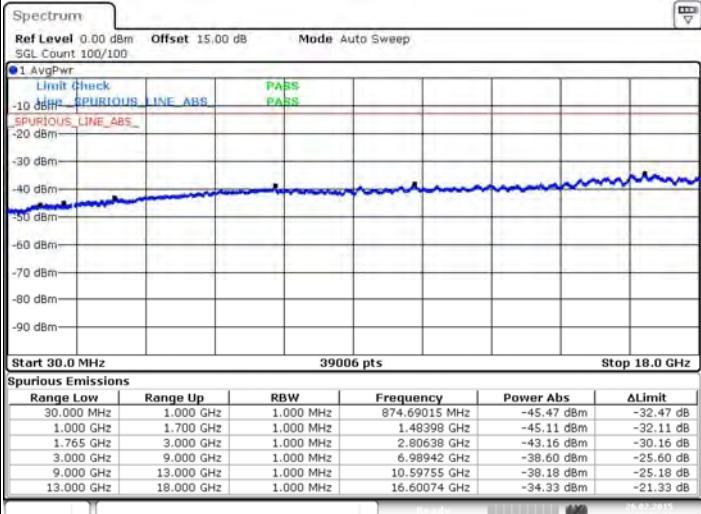
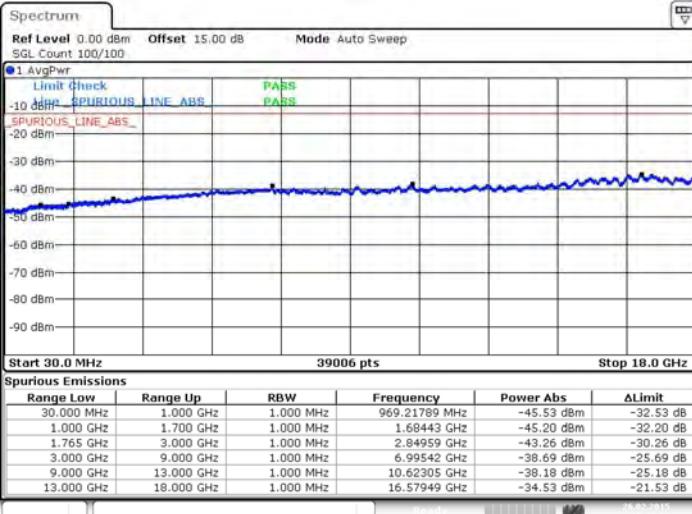
Highest Channel / 16QAM

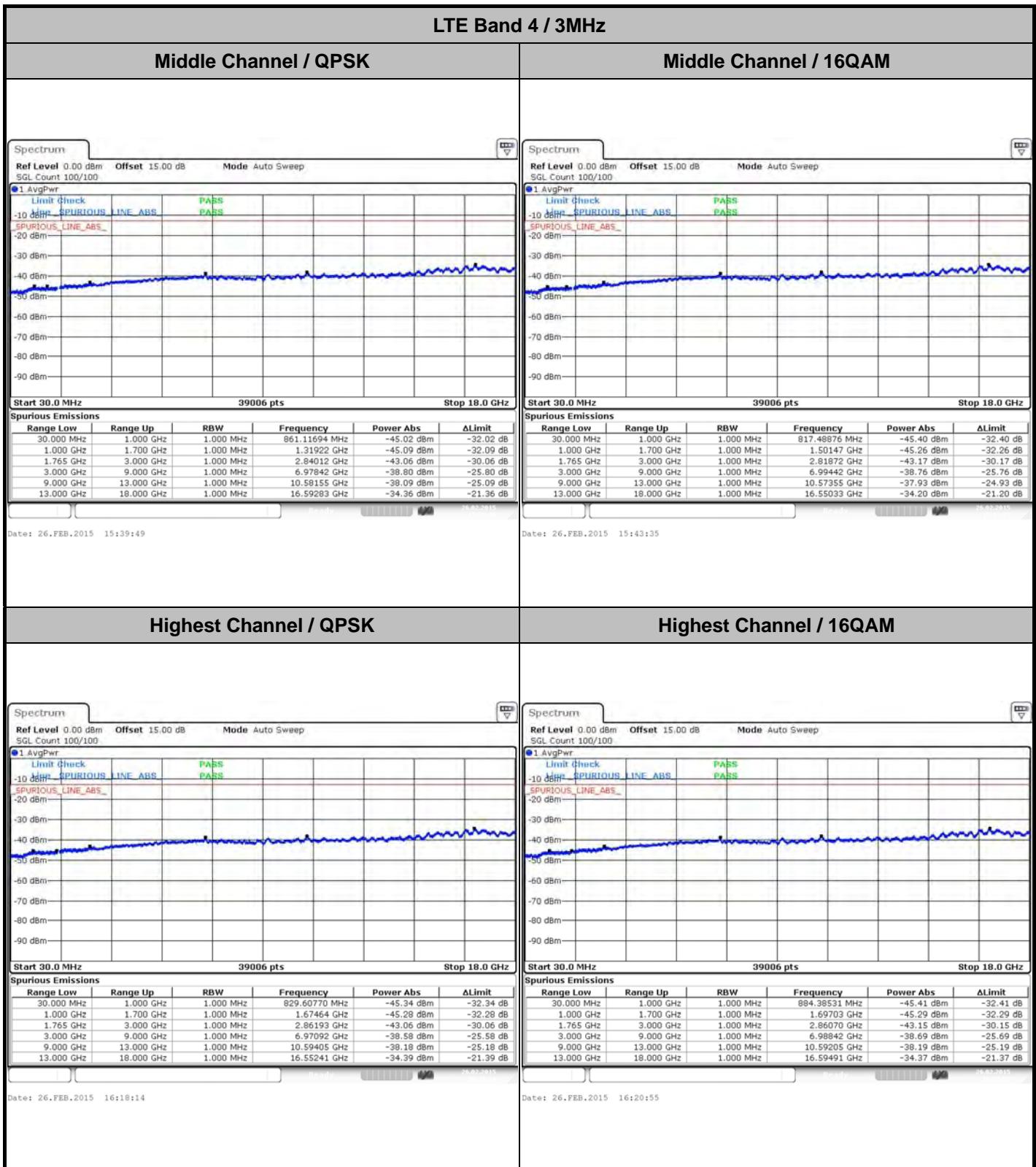


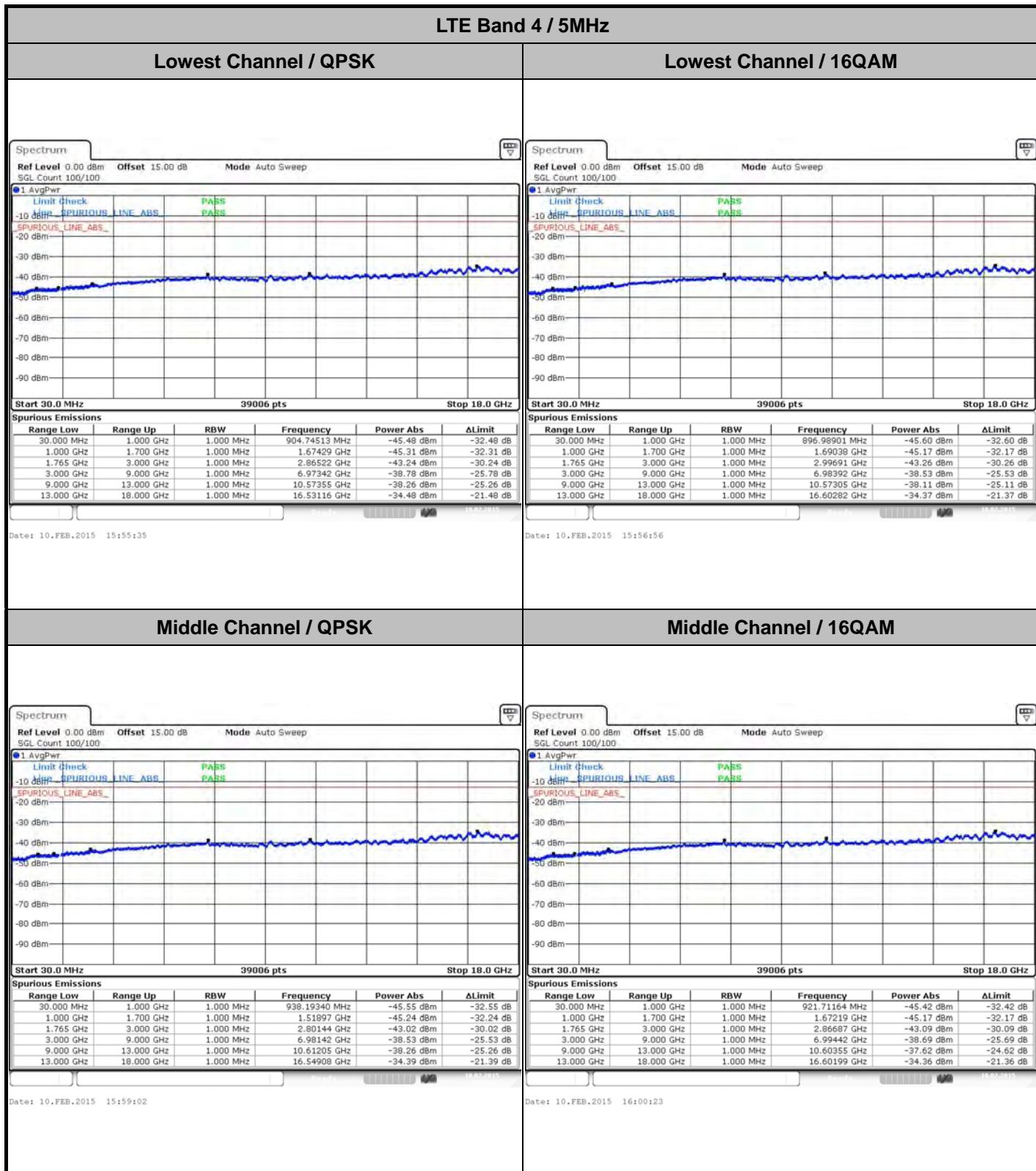
LTE Band 4 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





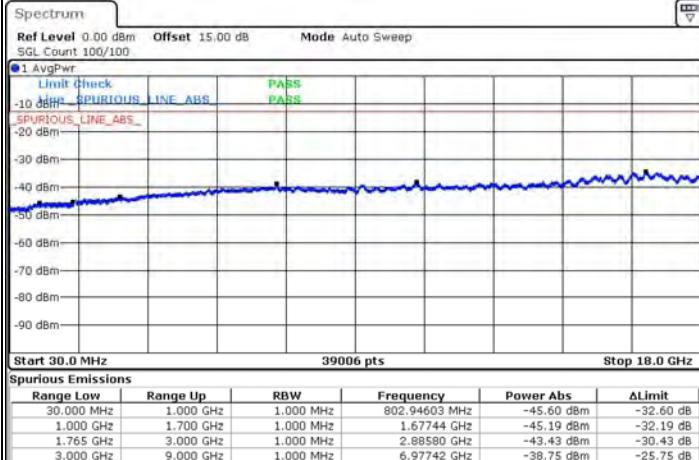
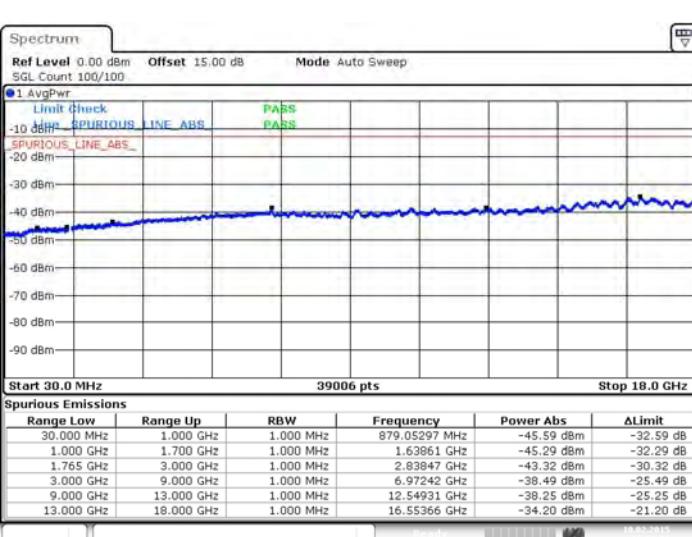




LTE Band 4 / 5MHz

Highest Channel / QPSK

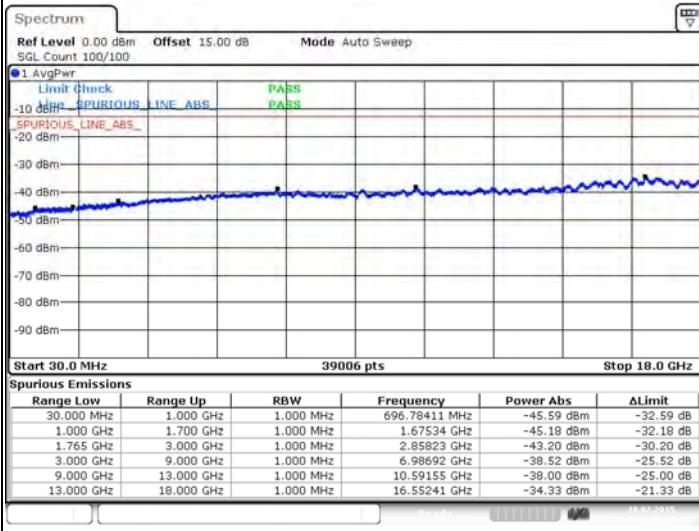
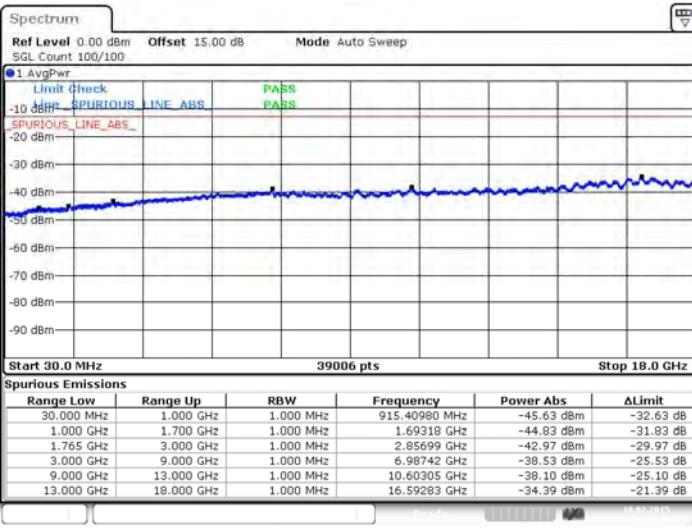
Highest Channel / 16QAM

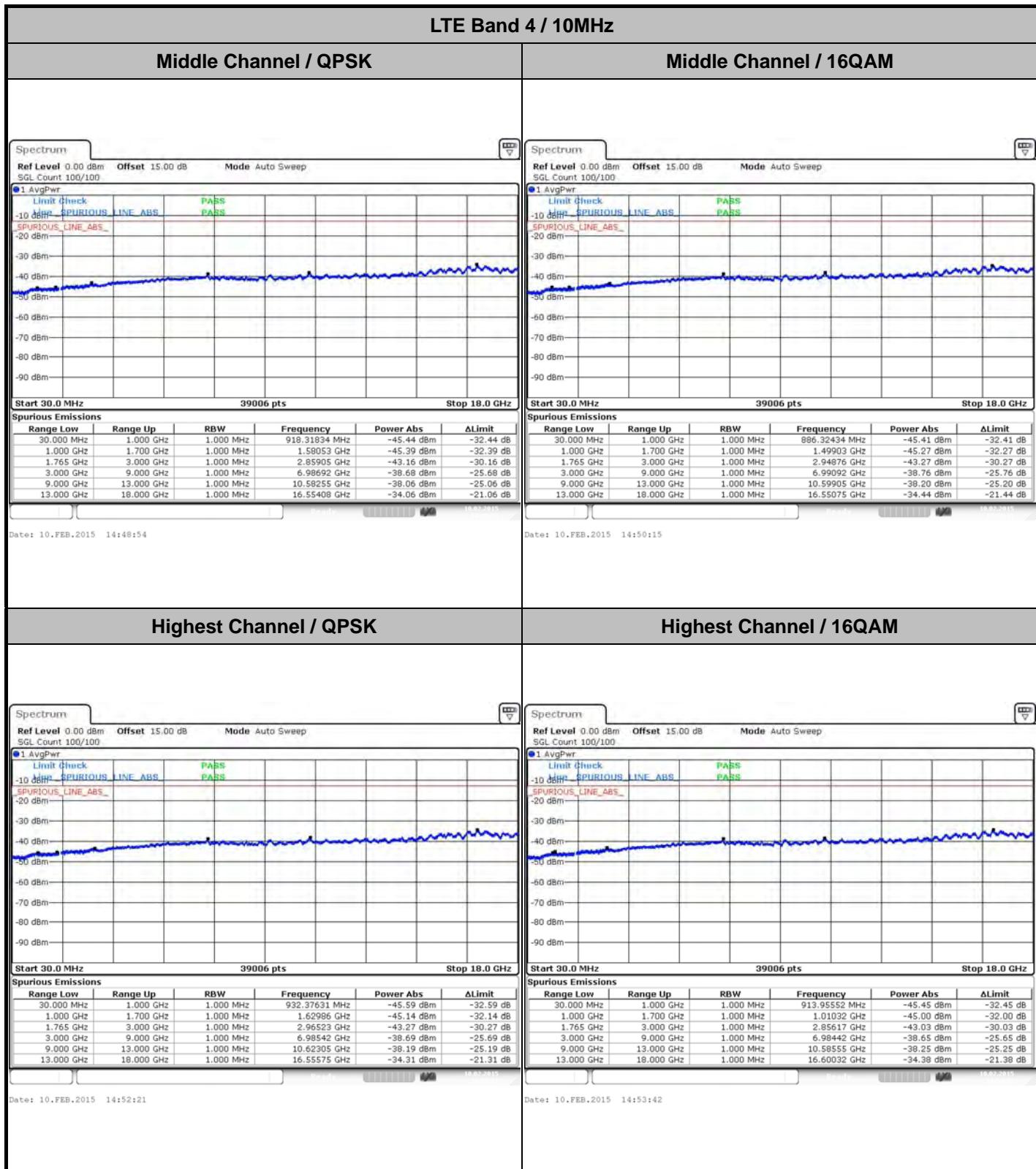


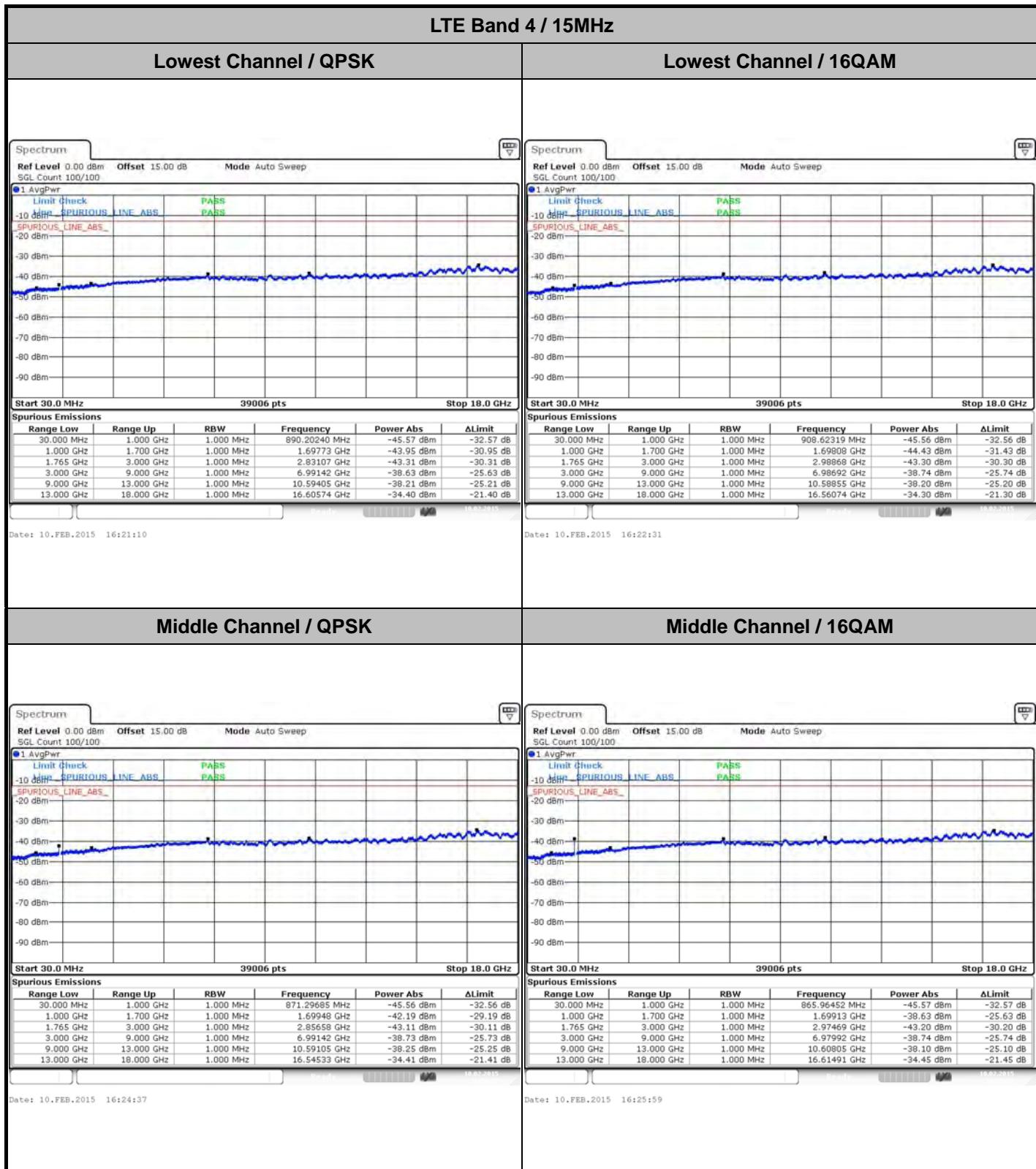
LTE Band 4 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





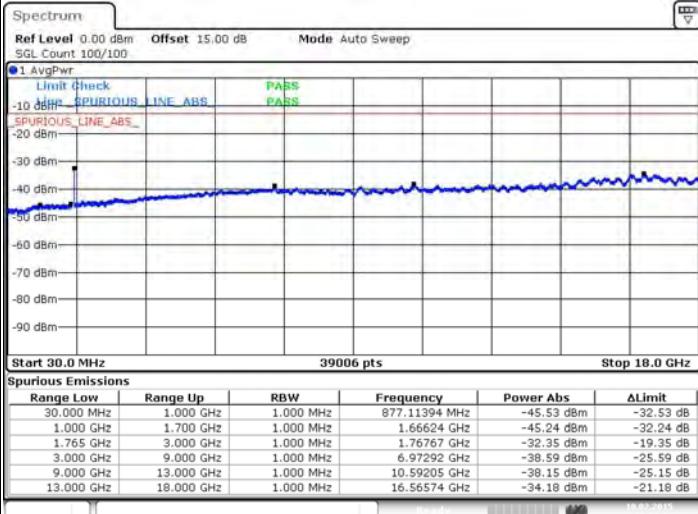
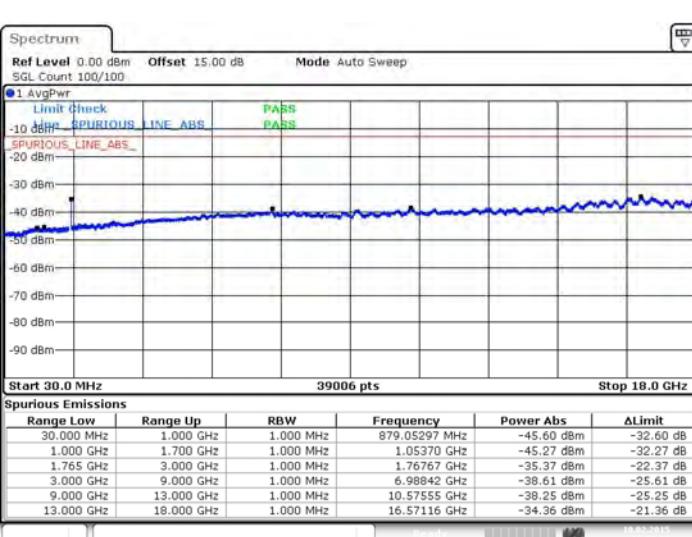




LTE Band 4 / 15MHz

Highest Channel / QPSK

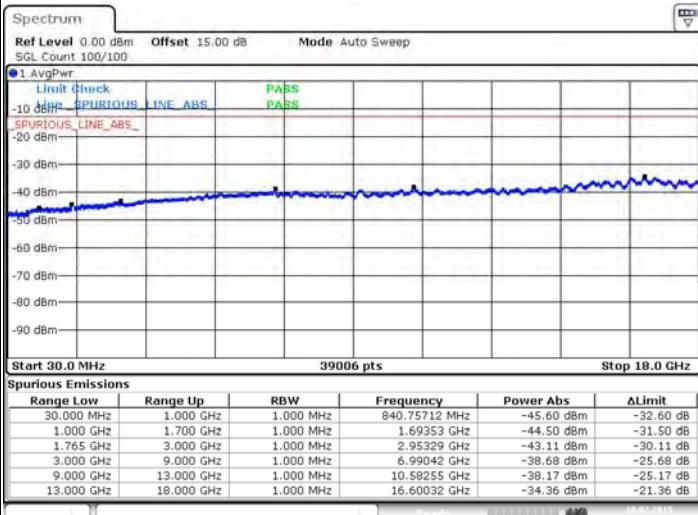
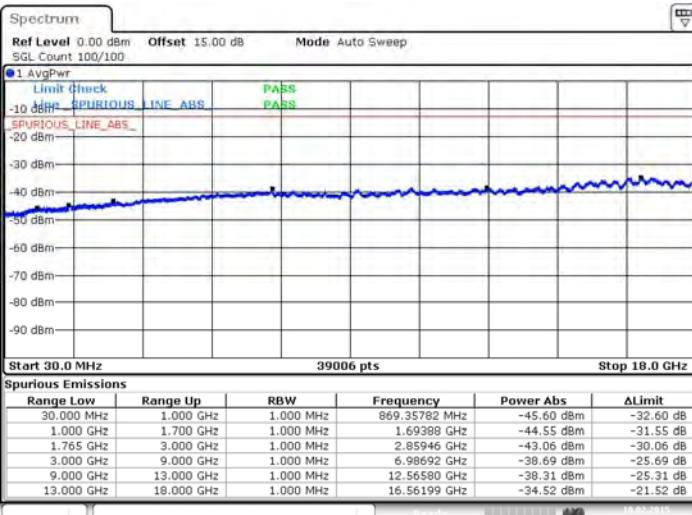
Highest Channel / 16QAM

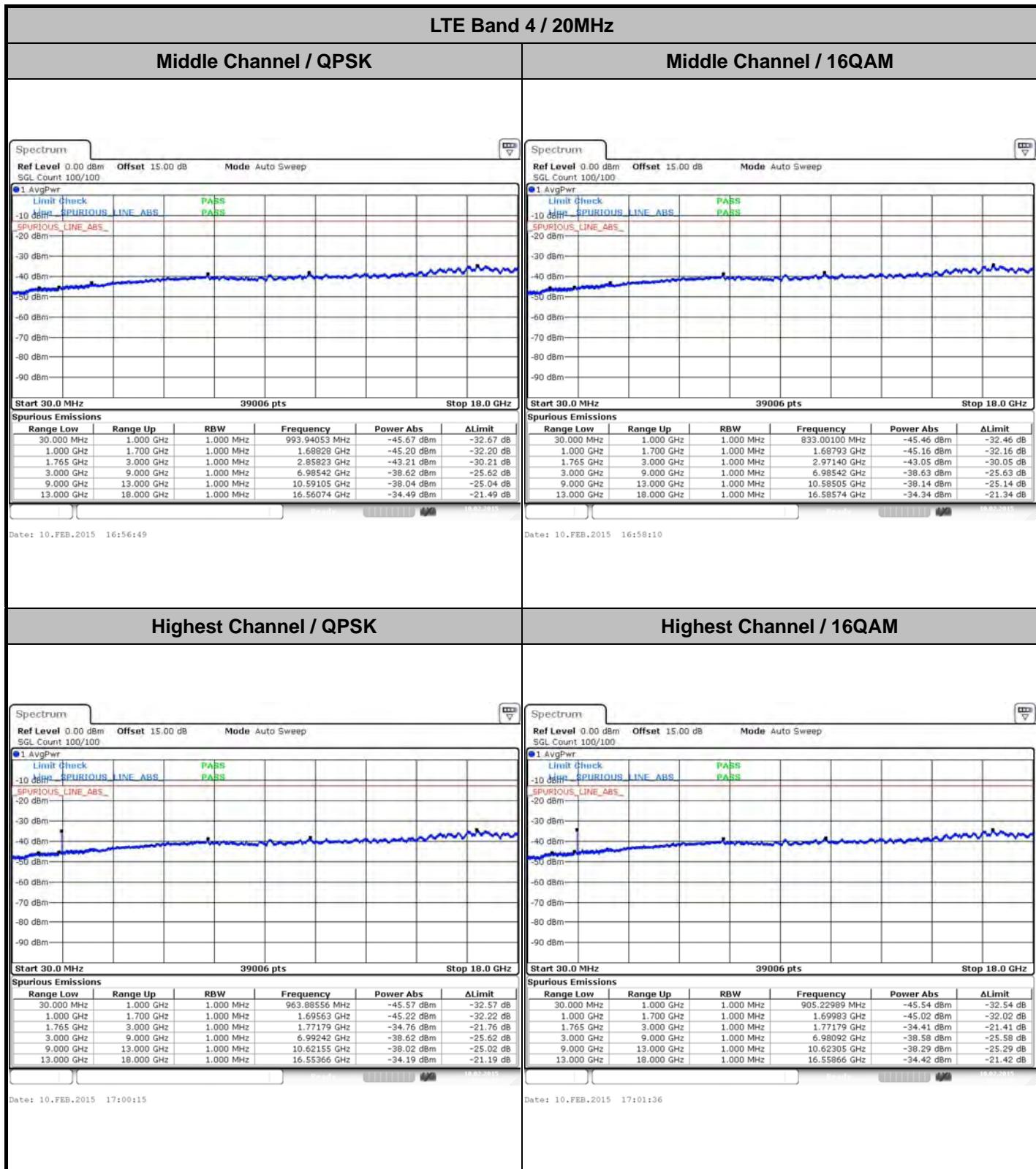


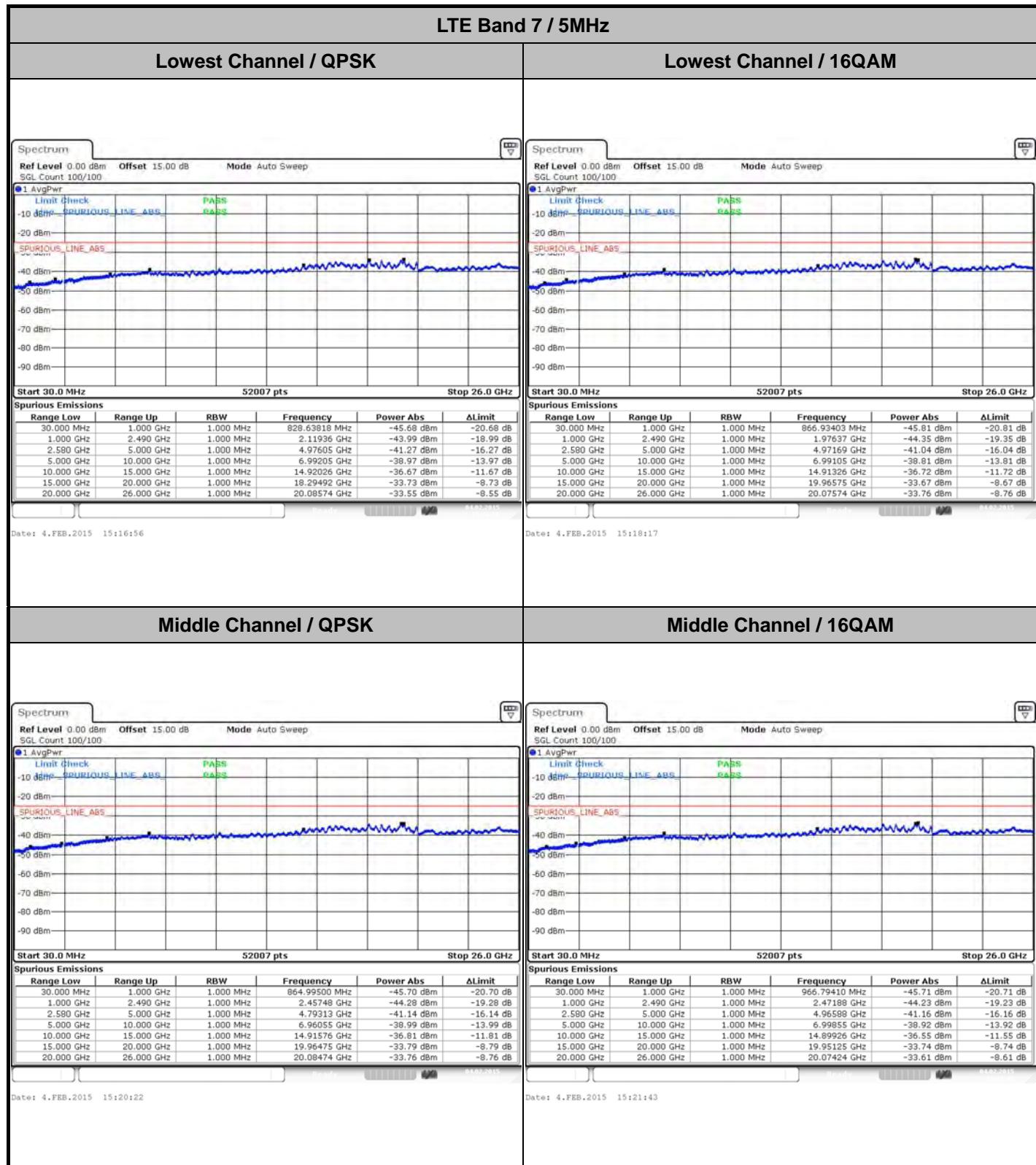
LTE Band 4 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





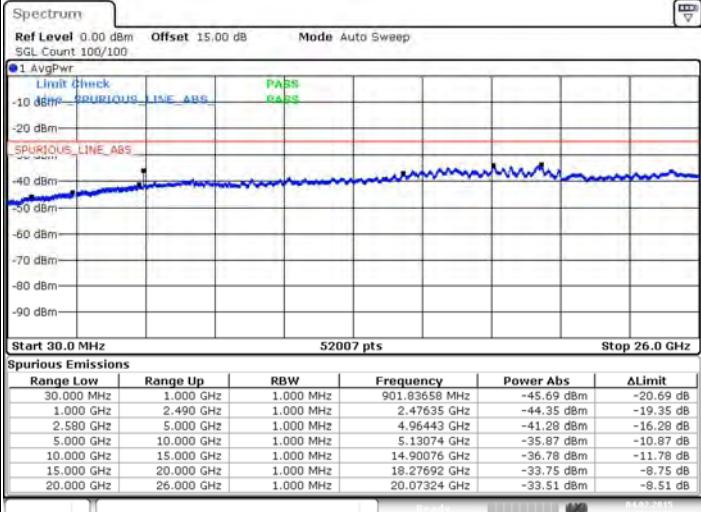
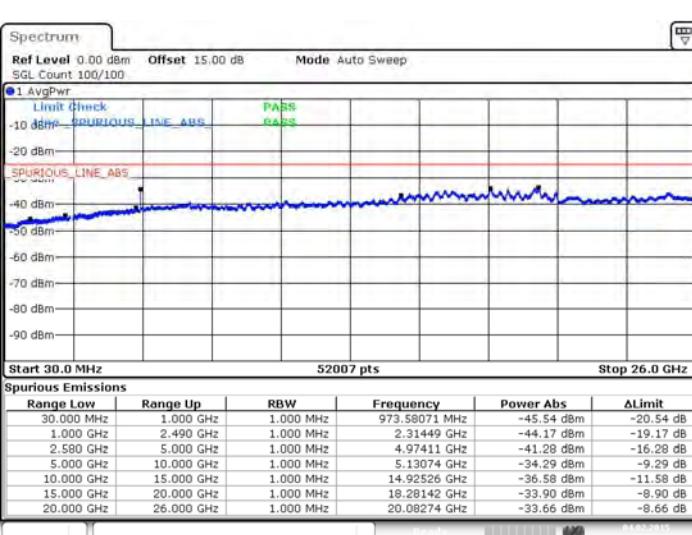




LTE Band 7 / 5MHz

Highest Channel / QPSK

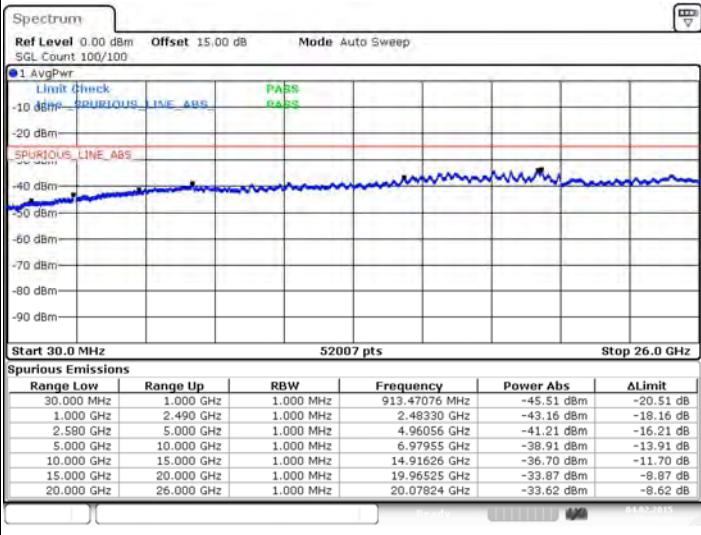
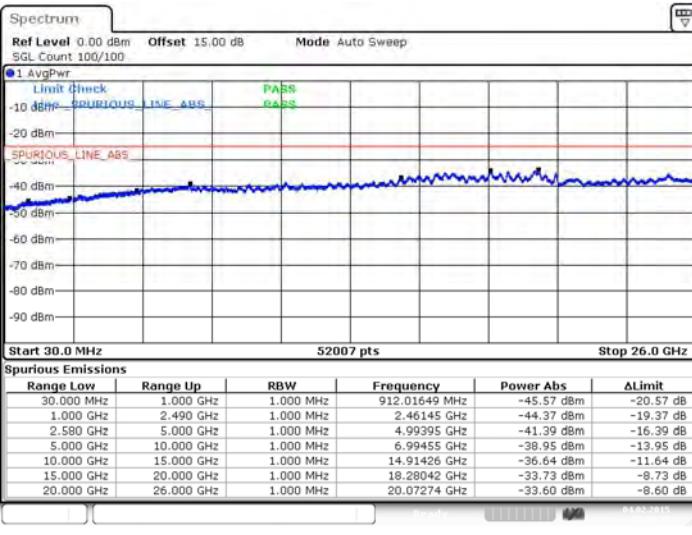
Highest Channel / 16QAM

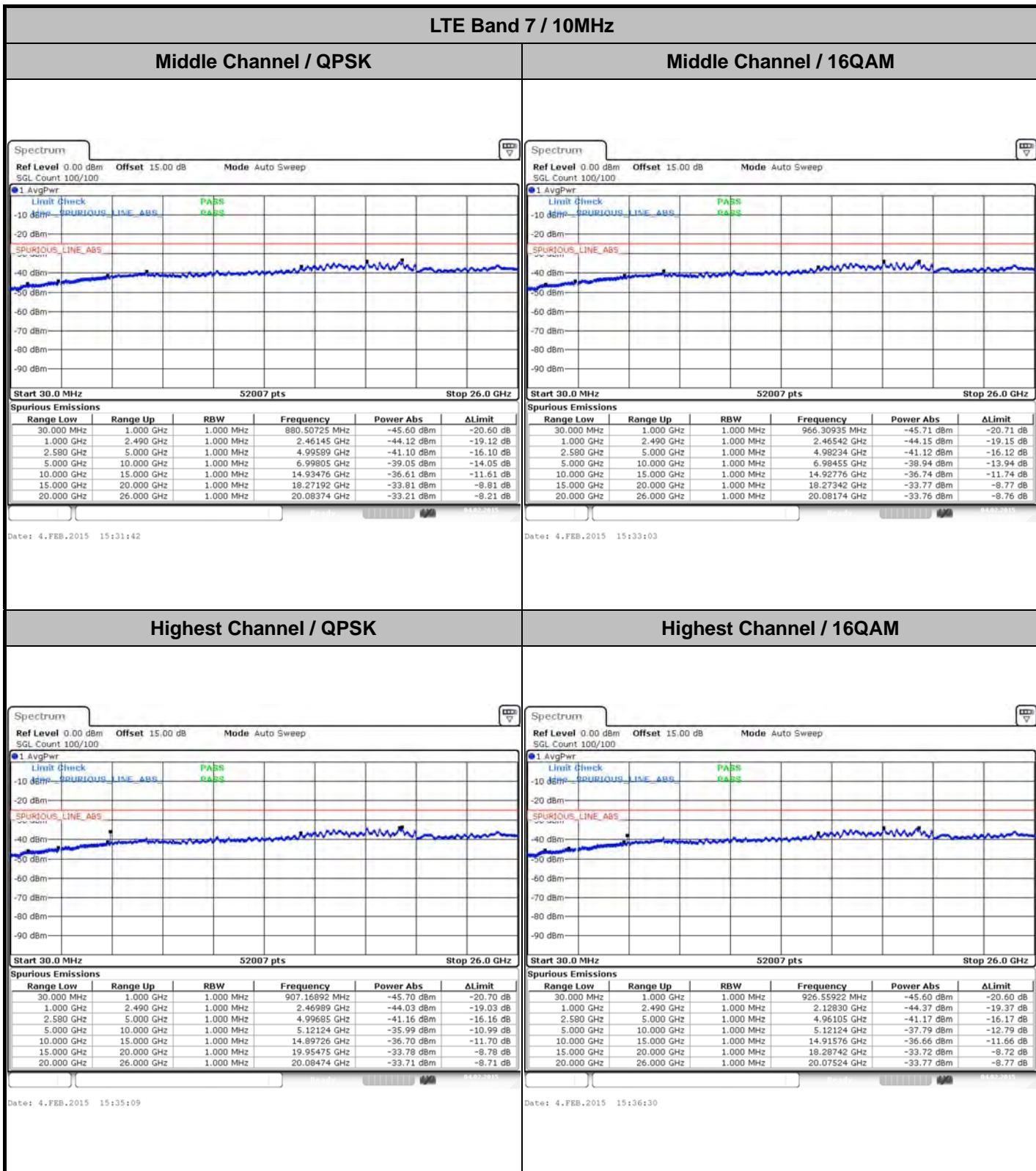


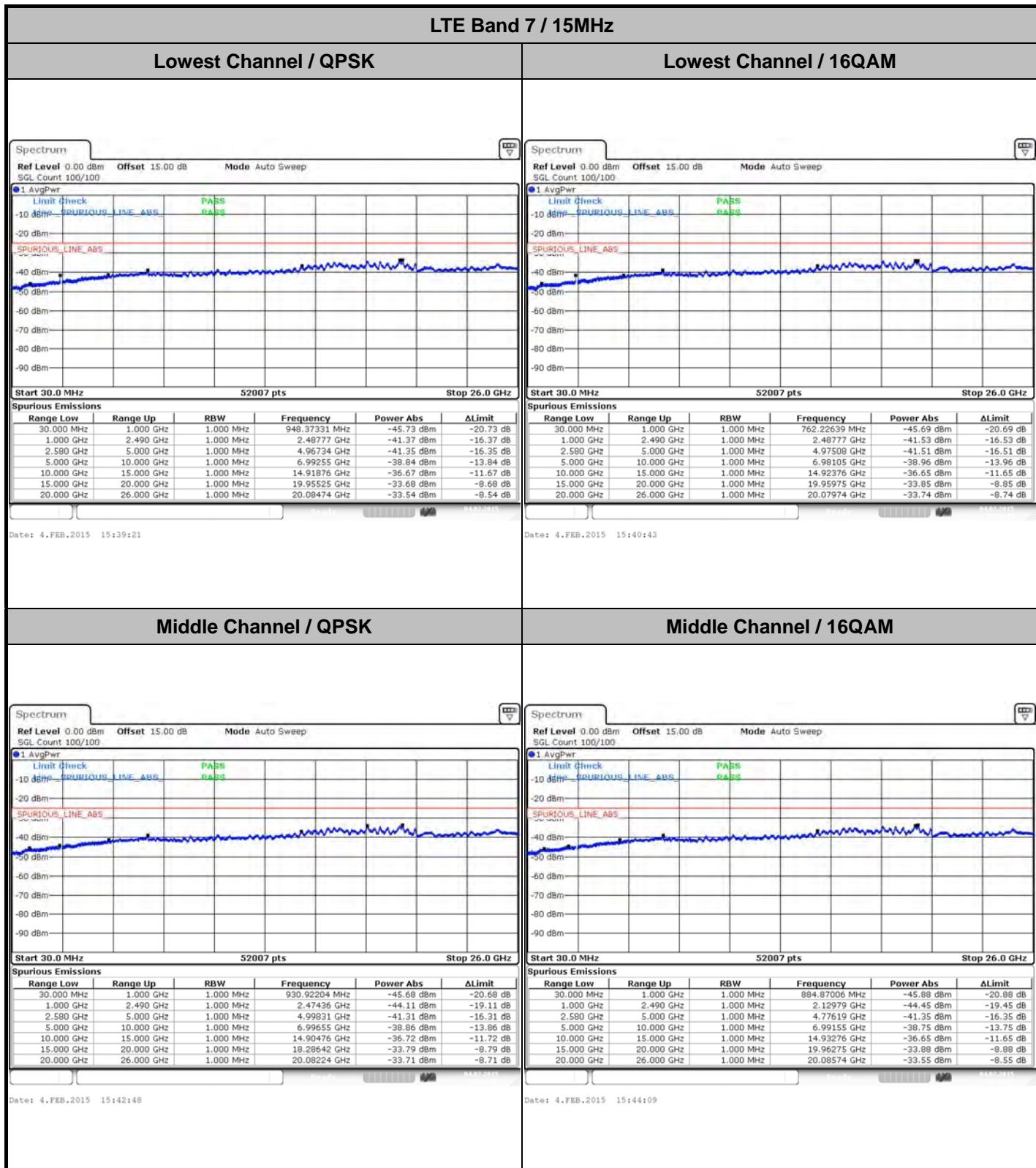
LTE Band 7 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





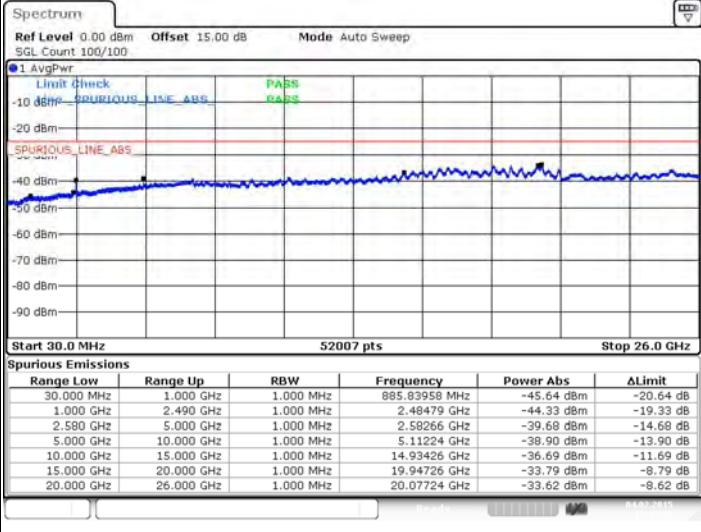
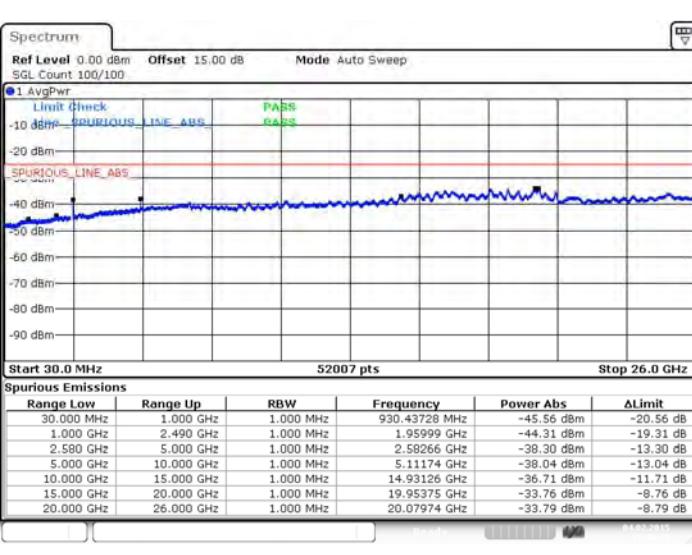




LTE Band7 / 15MHz

Highest Channel / QPSK

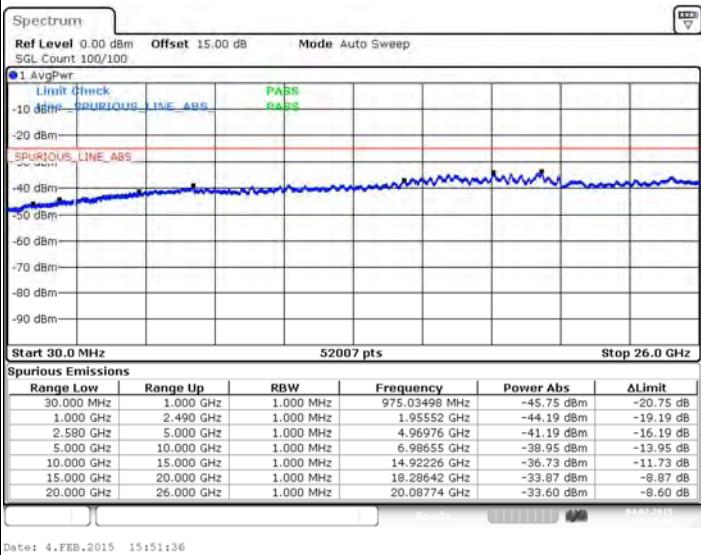
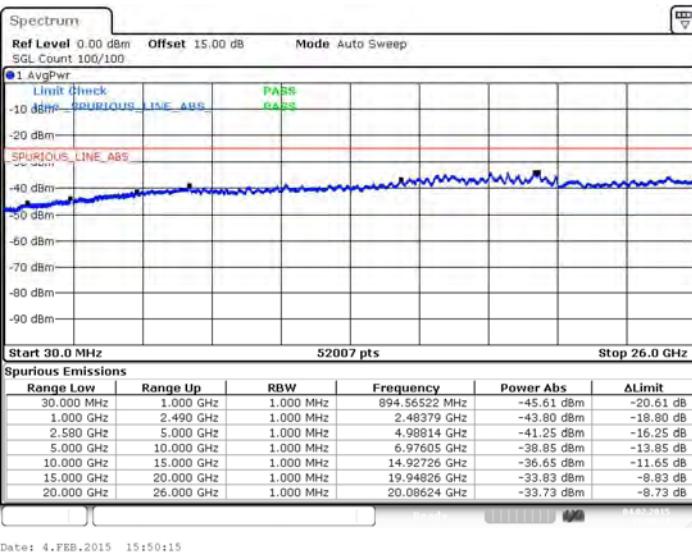
Highest Channel / 16QAM

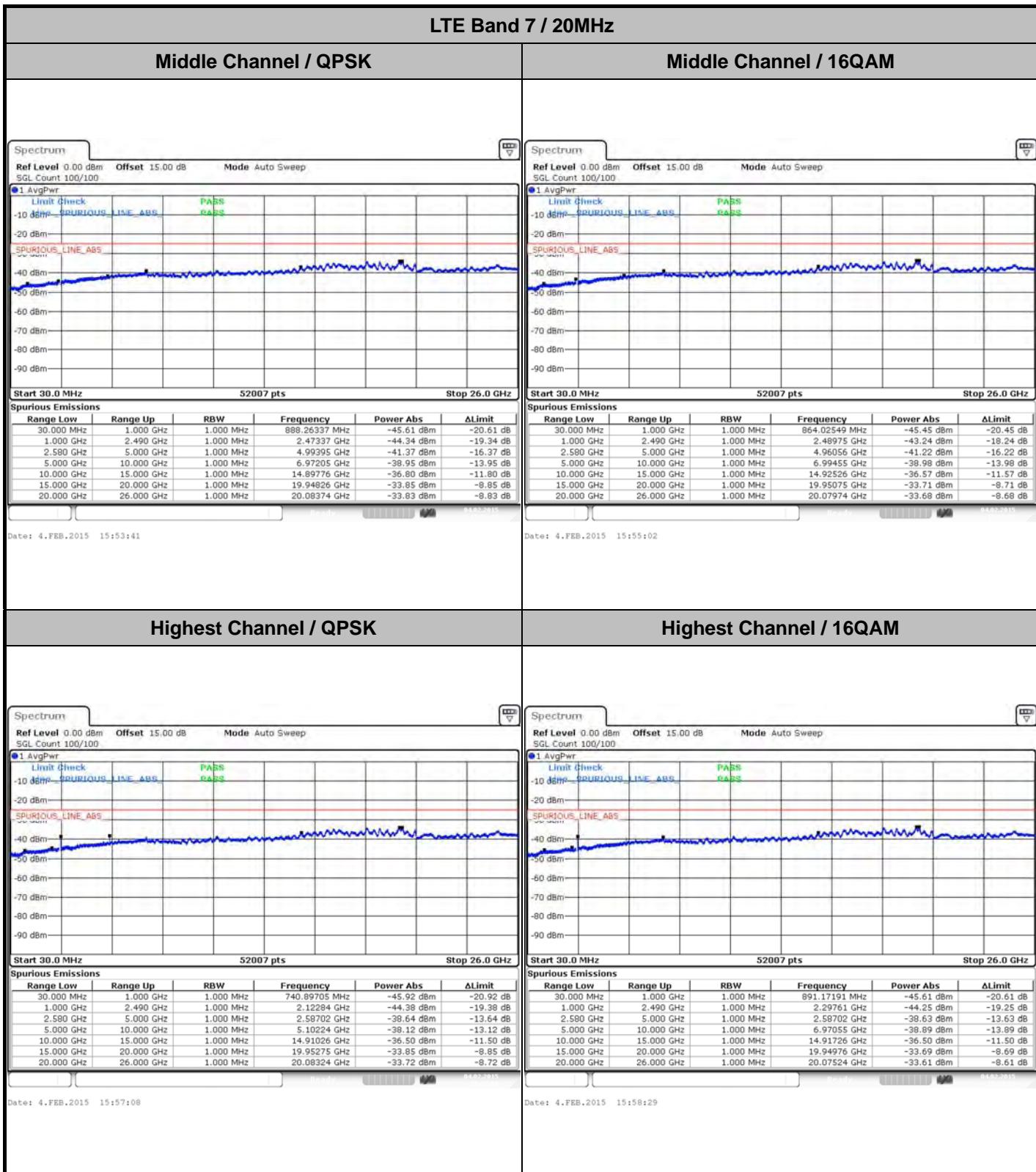


LTE Band 7 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



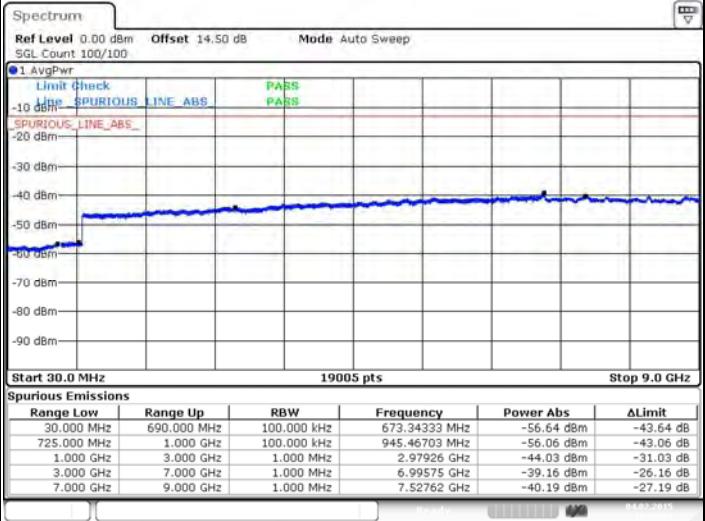
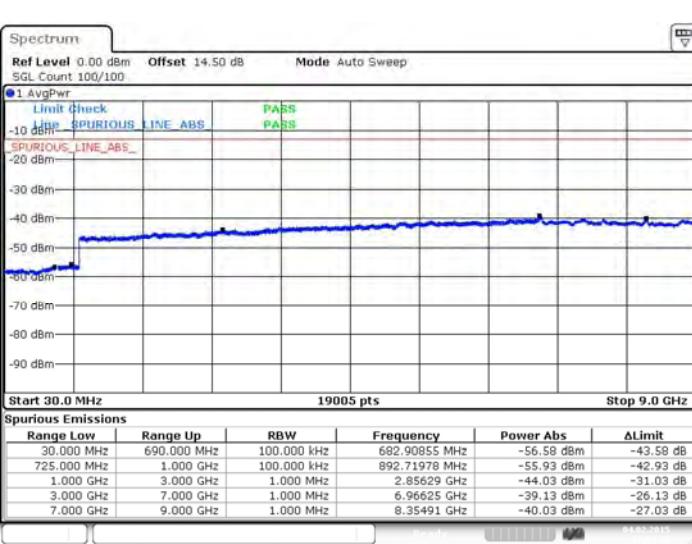




LTE Band 17 / 5MHz

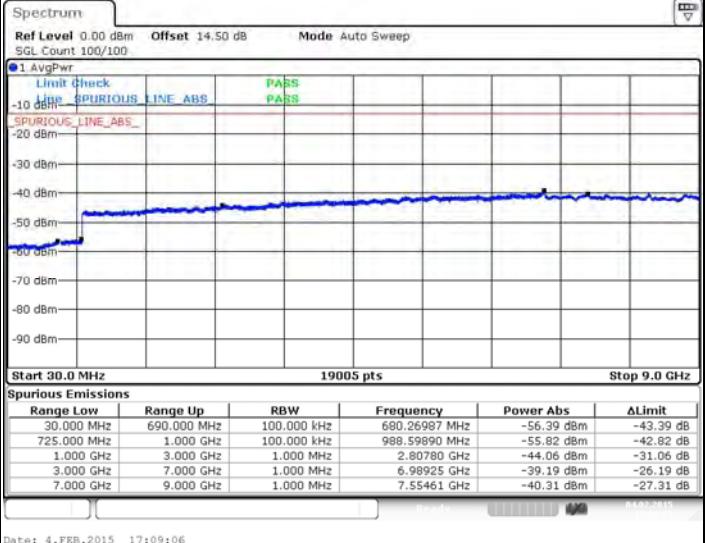
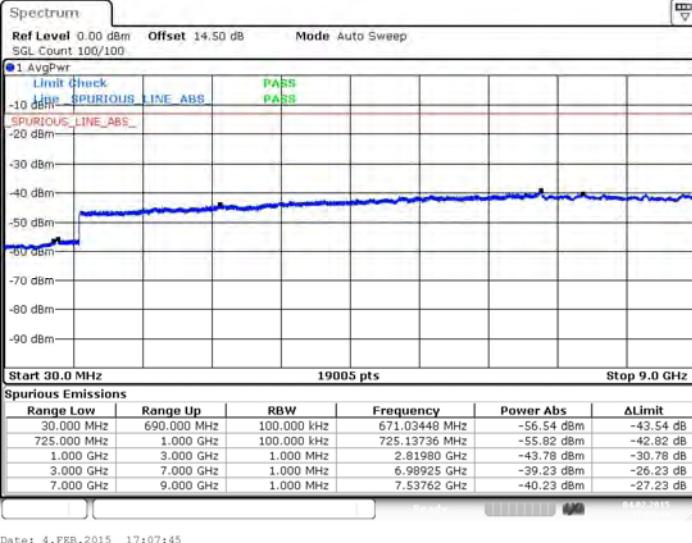
Lowest Channel / QPSK

Lowest Channel / 16QAM



Middle Channel / QPSK

Middle Channel / 16QAM

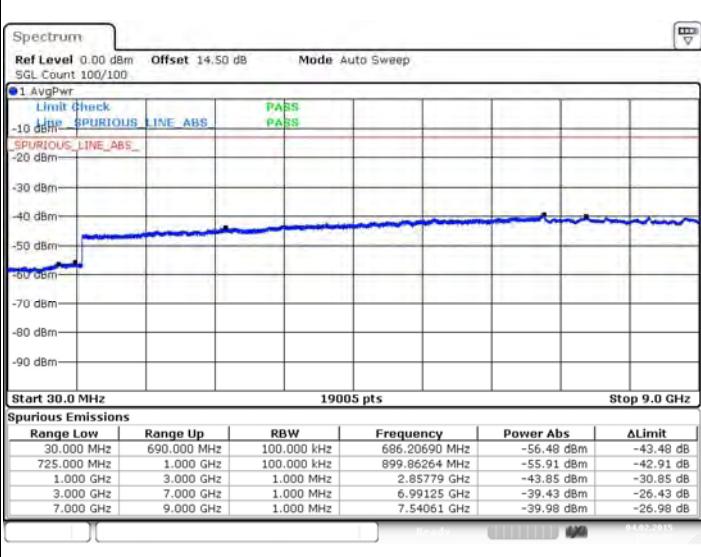
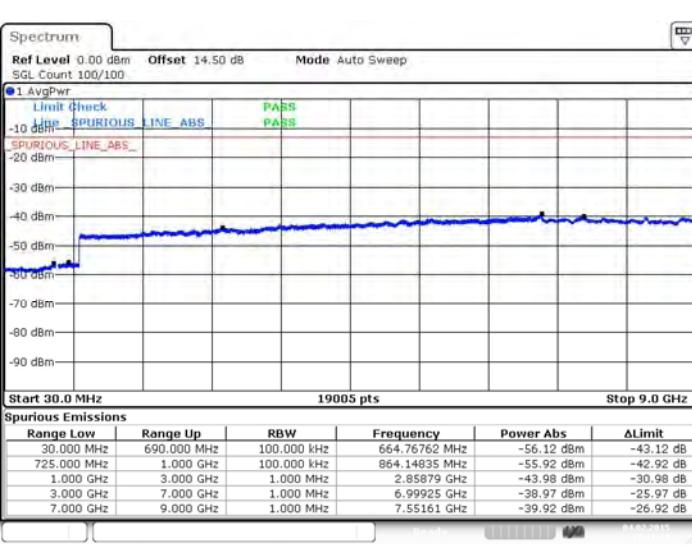




LTE Band 17 / 5MHz

Highest Channel / QPSK

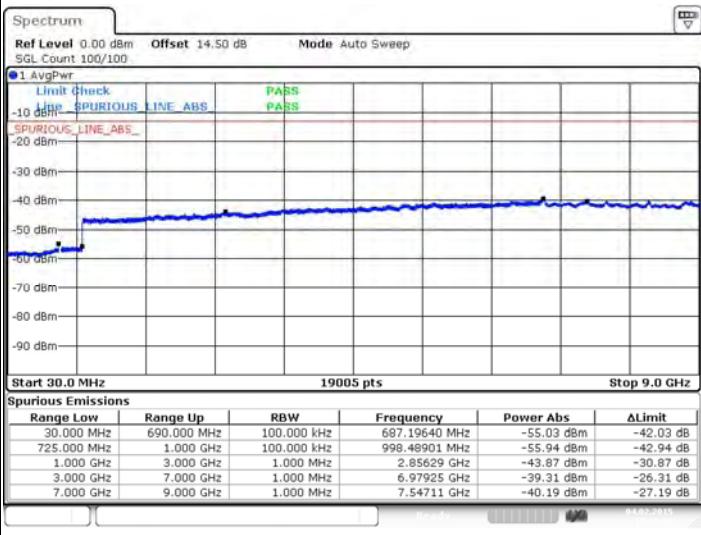
Highest Channel / 16QAM



LTE Band 17 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

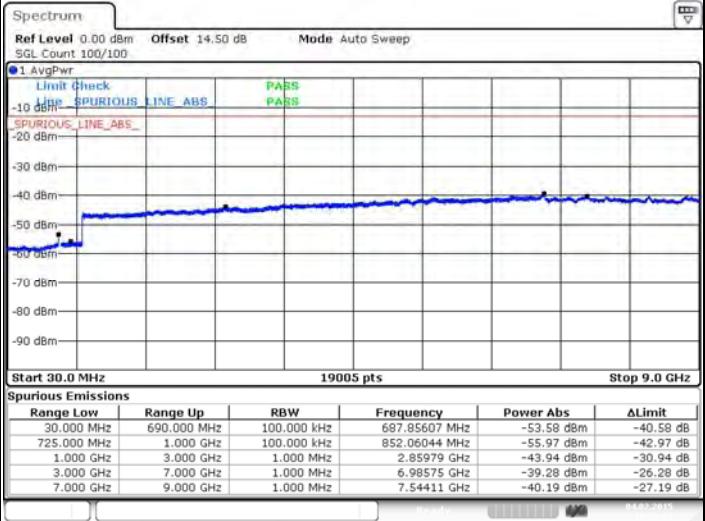
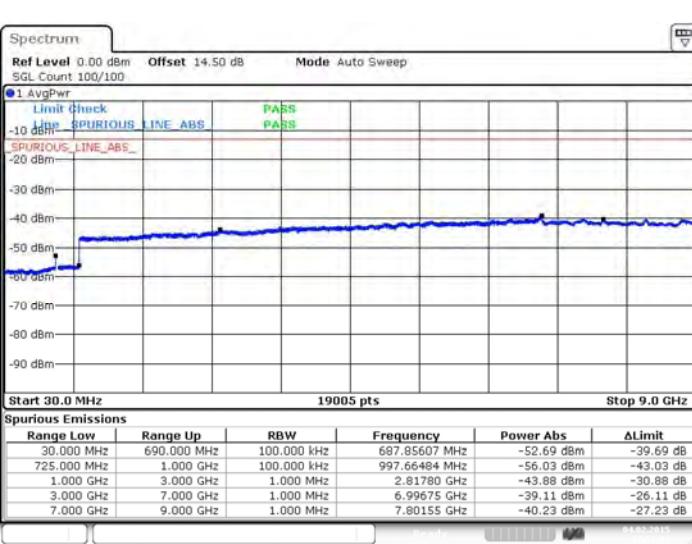




LTE Band 17 / 10MHz

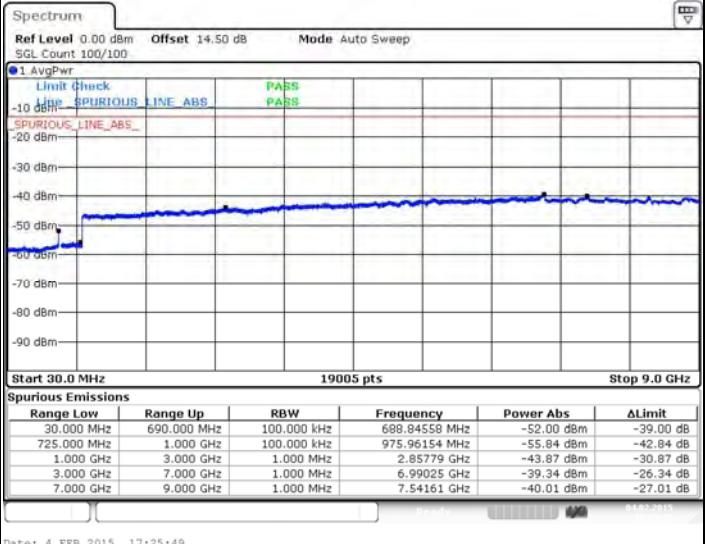
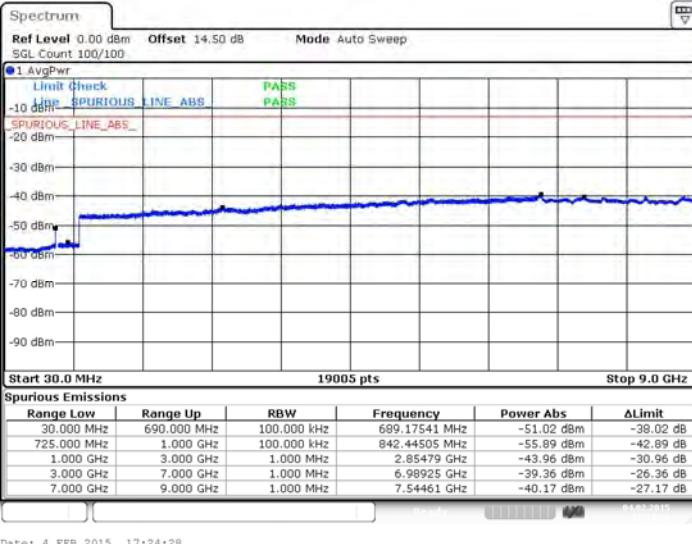
Middle Channel / QPSK

Middle Channel / 16QAM



Highest Channel / QPSK

Highest Channel / 16QAM





Frequency Stability

| Test Conditions | | LTE Band 4 (QPSK) / Middle Channel | Limit |
|---------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0006 | PASS |
| 40 | Normal Voltage | 0.0002 | |
| 30 | Normal Voltage | 0.0005 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0003 | |
| 0 | Normal Voltage | 0.0001 | |
| -10 | Normal Voltage | 0.0007 | |
| -20 | Normal Voltage | 0.0003 | |
| -30 | Normal Voltage | 0.0004 | |
| 20 | Maximum Voltage | 0.0004 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0001 | |

Note:

1. Normal Voltage = 3.7V ; Battery End Point (BEP) = 3.5 V ; Maximum Voltage = 4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



| Test Conditions | | LTE Band 7 (QPSK) / Middle Channel | Limit |
|---------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0000 | PASS |
| 40 | Normal Voltage | 0.0004 | |
| 30 | Normal Voltage | 0.0004 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0004 | |
| 0 | Normal Voltage | 0.0007 | |
| -10 | Normal Voltage | 0.0004 | |
| -20 | Normal Voltage | 0.0115 | |
| -30 | Normal Voltage | 0.0124 | |
| 20 | Maximum Voltage | 0.0002 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0001 | |

Note:

1. Normal Voltage = 3.7V ; Battery End Point (BEP) = 3.5 V ; Maximum Voltage = 4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



| Test Conditions | | LTE Band 17 (QPSK) / Middle Channel | Limit |
|---------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0001 | PASS |
| 40 | Normal Voltage | 0.0003 | |
| 30 | Normal Voltage | 0.0015 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0004 | |
| 0 | Normal Voltage | 0.0001 | |
| -10 | Normal Voltage | 0.0004 | |
| -20 | Normal Voltage | 0.0007 | |
| -30 | Normal Voltage | 0.0023 | |
| 20 | Maximum Voltage | 0.0007 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0003 | |

Note:

1. Normal Voltage = 3.7V ; Battery End Point (BEP) = 3.5 V ; Maximum Voltage = 4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

ERP/EIRP

| LTE Band 4 / 1.4MHz | | | | | | | |
|---------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 2 | 22.06 | 0.1607 | 19.61 | 0.0914 |
| Middle | | 1 | 5 | 22.00 | 0.1585 | 19.78 | 0.0951 |
| Highest | | 1 | 2 | 21.83 | 0.1524 | 20.49 | 0.1119 |
| Lowest | 16QAM | 1 | 0 | 20.76 | 0.1191 | 18.23 | 0.0665 |
| Middle | | 1 | 5 | 20.58 | 0.1143 | 18.67 | 0.0736 |
| Highest | | 1 | 2 | 20.58 | 0.1143 | 19.23 | 0.0838 |
| Limit | EIRP < 1W | | | Result | | PASS | |

| LTE Band 4 / 3MHz | | | | | | | |
|-------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 0 | 22.23 | 0.1671 | 19.57 | 0.0906 |
| Middle | | 1 | 14 | 21.92 | 0.1556 | 19.99 | 0.0998 |
| Highest | | 1 | 0 | 21.83 | 0.1524 | 20.34 | 0.1081 |
| Lowest | 16QAM | 1 | 0 | 21.18 | 0.1312 | 18.43 | 0.0697 |
| Middle | | 1 | 14 | 20.64 | 0.1159 | 18.60 | 0.0724 |
| Highest | | 1 | 0 | 20.63 | 0.1156 | 19.19 | 0.0830 |
| Limit | EIRP < 1W | | | Result | | PASS | |



| LTE Band 4 / 5MHz | | | | | | | |
|-------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 24 | 22.06 | 0.1607 | 19.93 | 0.0984 |
| Middle | | 1 | 24 | 21.72 | 0.1486 | 19.74 | 0.0942 |
| Highest | | 1 | 0 | 21.79 | 0.1510 | 20.12 | 0.1028 |
| Lowest | 16QAM | 1 | 24 | 21.24 | 0.1330 | 19.00 | 0.0794 |
| Middle | | 1 | 24 | 20.84 | 0.1213 | 18.90 | 0.0776 |
| Highest | | 1 | 0 | 20.80 | 0.1202 | 19.21 | 0.0834 |
| Limit | EIRP < 1W | | | Result | | PASS | |

| LTE Band 4/ 10MHz | | | | | | | |
|-------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 0 | 21.98 | 0.1578 | 19.35 | 0.0861 |
| Middle | | 1 | 49 | 21.75 | 0.1496 | 19.63 | 0.0918 |
| Highest | | 1 | 0 | 21.62 | 0.1452 | 19.94 | 0.0986 |
| Lowest | 16QAM | 1 | 0 | 21.09 | 0.1285 | 18.47 | 0.0703 |
| Middle | | 1 | 49 | 20.77 | 0.1194 | 18.57 | 0.0719 |
| Highest | | 1 | 0 | 20.64 | 0.1159 | 18.82 | 0.0762 |
| Limit | EIRP < 1W | | | Result | | PASS | |



| LTE Band 4 / 15MHz | | | | | | | |
|--------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 0 | 22.11 | 0.1626 | 19.75 | 0.0944 |
| Middle | | 1 | 74 | 21.95 | 0.1567 | 20.12 | 0.1028 |
| Highest | | 1 | 0 | 21.79 | 0.1510 | 20.07 | 0.1016 |
| Lowest | 16QAM | 1 | 0 | 20.88 | 0.1225 | 18.54 | 0.0714 |
| Middle | | 1 | 74 | 20.63 | 0.1156 | 18.69 | 0.0740 |
| Highest | | 1 | 0 | 20.55 | 0.1135 | 18.89 | 0.0774 |
| Limit | EIRP < 1W | | | Result | | PASS | |

| LTE Band 4 / 20MHz | | | | | | | |
|--------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 99 | 20.47 | 0.1114 | 18.43 | 0.0697 |
| Middle | | 1 | 99 | 20.50 | 0.1122 | 18.78 | 0.0755 |
| Highest | | 1 | 99 | 20.42 | 0.1102 | 18.90 | 0.0776 |
| Lowest | 16QAM | 1 | 0 | 20.72 | 0.1180 | 18.20 | 0.0661 |
| Middle | | 1 | 99 | 20.45 | 0.1109 | 18.71 | 0.0743 |
| Highest | | 1 | 0 | 20.45 | 0.1109 | 18.42 | 0.0695 |
| Limit | EIRP < 1W | | | Result | | PASS | |



| LTE Band 7 / 5MHz | | | | | | | |
|-------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 0 | 28.36 | 0.6855 | 28.00 | 0.6310 |
| Middle | | 1 | 24 | 27.98 | 0.6281 | 27.96 | 0.6252 |
| Highest | | 1 | 24 | 27.46 | 0.5572 | 27.18 | 0.5224 |
| Lowest | 16QAM | 1 | 12 | 27.29 | 0.5358 | 26.74 | 0.4721 |
| Middle | | 1 | 24 | 27.42 | 0.5521 | 27.32 | 0.5395 |
| Highest | | 1 | 0 | 26.47 | 0.4436 | 26.04 | 0.4018 |
| Limit | EIRP < 2W | | | Result | | PASS | |

| LTE Band 7 / 10MHz | | | | | | | |
|--------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 0 | 28.33 | 0.6808 | 28.07 | 0.6412 |
| Middle | | 1 | 0 | 28.31 | 0.6776 | 28.29 | 0.6745 |
| Highest | | 1 | 49 | 27.57 | 0.5715 | 27.05 | 0.5070 |
| Lowest | 16QAM | 1 | 0 | 27.23 | 0.5284 | 26.62 | 0.4592 |
| Middle | | 1 | 0 | 27.22 | 0.5272 | 27.11 | 0.5140 |
| Highest | | 1 | 0 | 26.75 | 0.4732 | 26.34 | 0.4305 |
| Limit | EIRP < 2W | | | Result | | PASS | |



| LTE Band 7 / 15MHz | | | | | | | |
|--------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 74 | 28.45 | 0.6998 | 28.13 | 0.6501 |
| Middle | | 1 | 74 | 28.39 | 0.6902 | 28.22 | 0.6637 |
| Highest | | 1 | 0 | 28.18 | 0.6577 | 27.63 | 0.5794 |
| Lowest | 16QAM | 1 | 0 | 26.89 | 0.4887 | 26.46 | 0.4426 |
| Middle | | 1 | 0 | 27.17 | 0.5212 | 26.95 | 0.4955 |
| Highest | | 1 | 0 | 27.21 | 0.5260 | 26.63 | 0.4603 |
| Limit | EIRP < 2W | | | Result | | PASS | |

| LTE Band 7 / 20MHz | | | | | | | |
|--------------------|------------|------|--------|------------|---------|-----------|---------|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest | QPSK | 1 | 99 | 28.28 | 0.6730 | 27.85 | 0.6095 |
| Middle | | 1 | 99 | 28.51 | 0.7096 | 28.20 | 0.6607 |
| Highest | | 1 | 99 | 27.32 | 0.5395 | 26.76 | 0.4742 |
| Lowest | 16QAM | 1 | 0 | 27.61 | 0.5768 | 27.20 | 0.5248 |
| Middle | | 1 | 0 | 27.46 | 0.5572 | 27.17 | 0.5212 |
| Highest | | 1 | 0 | 27.28 | 0.5346 | 26.85 | 0.4842 |
| Limit | EIRP < 2W | | | Result | | PASS | |



| LTE Band 17 / 5MHz | | | | | | | |
|--------------------|------------|------|--------|------------|--------|----------|--------|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | ERP(dBm) | ERP(W) | ERP(dBm) | ERP(W) |
| Lowest | QPSK | 1 | 24 | 15.87 | 0.0386 | 1.71 | 0.0015 |
| Middle | | 1 | 0 | 15.97 | 0.0395 | 2.92 | 0.0020 |
| Highest | | 1 | 24 | 15.87 | 0.0386 | 2.66 | 0.0018 |
| Lowest | 16QAM | 1 | 24 | 14.47 | 0.0280 | 1.25 | 0.0013 |
| Middle | | 1 | 0 | 14.89 | 0.0308 | 1.37 | 0.0014 |
| Highest | | 1 | 24 | 15.33 | 0.0341 | 1.92 | 0.0016 |
| Limit | ERP < 3W | | | Result | | PASS | |

| LTE Band 17 / 10MHz | | | | | | | |
|---------------------|------------|------|--------|------------|--------|----------|--------|
| Channel | Modulation | RB | | Horizontal | | Vertical | |
| | | Size | Offset | ERP(dBm) | ERP(W) | ERP(dBm) | ERP(W) |
| Lowest | QPSK | 1 | 49 | 15.97 | 0.0395 | 2.74 | 0.0019 |
| Middle | | 1 | 49 | 16.23 | 0.0420 | 2.86 | 0.0019 |
| Highest | | 1 | 49 | 16.27 | 0.0424 | 2.94 | 0.0020 |
| Lowest | 16QAM | 1 | 49 | 14.29 | 0.0269 | 0.74 | 0.0012 |
| Middle | | 1 | 49 | 14.42 | 0.0277 | 0.78 | 0.0012 |
| Highest | | 1 | 49 | 14.55 | 0.0285 | 0.96 | 0.0012 |
| Limit | ERP < 3W | | | Result | | PASS | |



Radiated Spurious Emission

| Band : | LTE Band 4 | | | | Temperature : | 23~25°C | | | |
|----------------------|---|------------------|-------------------------|----------------|--------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 1.4MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | 48~52% | | | |
| Test Engineer : | Gavin Zhang | | | | Polarization : | Horizontal | | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3463.74 | -45.40 | -13 | -32.40 | -72.03 | -57.19 | 0.81 | 12.60 | H | Pass |
| 5195.61 | -41.97 | -13 | -28.97 | -71.49 | -53.72 | 0.95 | 12.70 | H | Pass |
| 6927.48 | -45.19 | -13 | -32.19 | -75.59 | -55.76 | 1.13 | 11.70 | H | Pass |

| Band : | LTE Band 4 | | | | Temperature : | 23~25°C | | | |
|----------------------|---|------------------|-------------------------|----------------|--------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 1.4MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | 48~52% | | | |
| Test Engineer : | Gavin Zhang | | | | Polarization : | Vertical | | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3463.74 | -49.41 | -13 | -36.41 | -71.69 | -61.20 | 0.81 | 12.6 | V | Pass |
| 5195.61 | -48.72 | -13 | -35.72 | -73.25 | -60.47 | 0.95 | 12.7 | V | Pass |
| 6927.48 | -43.58 | -13 | -30.58 | -75.39 | -54.15 | 1.13 | 11.7 | V | Pass |



| Band : | LTE Band 4 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 3MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Gavin Zhang | | | | Polarization : | | Horizontal | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3462.3 | -45.33 | -13 | -32.33 | -71.96 | -57.12 | 0.81 | 12.60 | H | Pass |
| 5193.45 | -43.68 | -13 | -30.68 | -73.20 | -55.43 | 0.95 | 12.70 | H | Pass |
| 6924.6 | -43.85 | -13 | -30.85 | -74.25 | -54.42 | 1.13 | 11.70 | H | Pass |

| Band : | LTE Band 4 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 3MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Gavin Zhang | | | | Polarization : | | Vertical | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3462.3 | -49.63 | -13 | -36.63 | -71.91 | -61.42 | 0.81 | 12.6 | V | Pass |
| 5193.45 | -48.57 | -13 | -35.57 | -73.1 | -60.32 | 0.95 | 12.7 | V | Pass |
| 6924.6 | -43.21 | -13 | -30.21 | -75.02 | -53.78 | 1.13 | 11.7 | V | Pass |



| Band : | LTE Band 4 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 5MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Gavin Zhang | | | | Polarization : | | Horizontal | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3460.68 | -44.32 | -13 | -31.32 | -70.95 | -56.11 | 0.81 | 12.60 | H | Pass |
| 5191.02 | -43.52 | -13 | -30.52 | -73.04 | -55.27 | 0.95 | 12.70 | H | Pass |
| 6921.36 | -44.86 | -13 | -31.86 | -75.26 | -55.43 | 1.13 | 11.70 | H | Pass |

| Band : | LTE Band 4 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 5MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Gavin Zhang | | | | Polarization : | | Vertical | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3460.68 | -49.62 | -13 | -36.62 | -71.9 | -61.41 | 0.81 | 12.6 | V | Pass |
| 5191.02 | -48.39 | -13 | -35.39 | -72.92 | -60.14 | 0.95 | 12.7 | V | Pass |
| 6921.36 | -43.19 | -13 | -30.19 | -75 | -53.76 | 1.13 | 11.7 | V | Pass |

**FCC RF Test Report**

Report No. : FG511702B

| Band : | LTE Band 4 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 10MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Gavin Zhang | | | | Polarization : | | Horizontal | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3456.18 | -45.45 | -13 | -32.45 | -72.08 | -57.24 | 0.81 | 12.60 | H | Pass |
| 5184.27 | -44.39 | -13 | -31.39 | -73.91 | -56.14 | 0.95 | 12.70 | H | Pass |
| 6912.36 | -44.84 | -13 | -31.84 | -75.24 | -55.41 | 1.13 | 11.70 | H | Pass |

| Band : | LTE Band 4 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 10MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Gavin Zhang | | | | Polarization : | | Vertical | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3456.18 | -49.55 | -13 | -36.55 | -71.83 | -61.34 | 0.81 | 12.6 | V | Pass |
| 5184.27 | -48.59 | -13 | -35.59 | -73.12 | -60.34 | 0.95 | 12.7 | V | Pass |
| 6912.36 | -43.72 | -13 | -30.72 | -75.53 | -54.29 | 1.13 | 11.7 | V | Pass |



| Band : | LTE Band 4 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 15MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Gavin Zhang | | | | Polarization : | | Horizontal | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3451.68 | -45.17 | -13 | -32.17 | -71.80 | -56.96 | 0.81 | 12.60 | H | Pass |
| 5177.52 | -43.21 | -13 | -30.21 | -72.73 | -54.96 | 0.95 | 12.70 | H | Pass |
| 6903.36 | -44.57 | -13 | -31.57 | -74.97 | -55.14 | 1.13 | 11.70 | H | Pass |

| Band : | LTE Band 4 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 15MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Gavin Zhang | | | | Polarization : | | Vertical | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3451.68 | -49.05 | -13 | -36.05 | -71.33 | -60.84 | 0.81 | 12.6 | V | Pass |
| 5177.52 | -48.95 | -13 | -35.95 | -73.48 | -60.70 | 0.95 | 12.7 | V | Pass |
| 6903.36 | -43.36 | -13 | -30.36 | -75.17 | -53.93 | 1.13 | 11.7 | V | Pass |



| Band : | LTE Band 4 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 20MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Gavin Zhang | | | | Polarization : | | Horizontal | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3447.18 | -44.52 | -13 | -31.52 | -71.15 | -56.31 | 0.81 | 12.60 | H | Pass |
| 5170.77 | -43.79 | -13 | -30.79 | -73.31 | -55.54 | 0.95 | 12.70 | H | Pass |
| 6894.36 | -44.43 | -13 | -31.43 | -74.83 | -55.00 | 1.13 | 11.70 | H | Pass |

| Band : | LTE Band 4 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 20MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Gavin Zhang | | | | Polarization : | | Vertical | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3447.18 | -49.28 | -13 | -36.28 | -71.56 | -61.07 | 0.81 | 12.6 | V | Pass |
| 5170.77 | -48.10 | -13 | -35.10 | -72.63 | -59.85 | 0.95 | 12.7 | V | Pass |
| 6894.36 | -43.11 | -13 | -30.11 | -74.92 | -53.68 | 1.13 | 11.7 | V | Pass |



| Band : | LTE Band 7 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 5MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Kaer Huang | | | | Polarization : | | Horizontal | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5065.68 | -41.36 | -25 | -16.36 | -73.34 | -53.11 | 0.95 | 12.70 | H | Pass |
| 7598.52 | -39.22 | -25 | -14.22 | -76.11 | -49.46 | 1.46 | 11.70 | H | Pass |
| 10131.36 | -38.41 | -25 | -13.41 | -76.88 | -49.20 | 1.31 | 12.10 | H | Pass |

| Band : | LTE Band 7 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 5MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Kaer Huang | | | | Polarization : | | Vertical | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5065.68 | -39.76 | -25 | -14.76 | -72.95 | -51.51 | 0.95 | 12.70 | V | Pass |
| 7598.52 | -38.61 | -25 | -13.61 | -75.49 | -48.85 | 1.46 | 11.70 | V | Pass |
| 10131.36 | -39.78 | -25 | -14.78 | -76.68 | -50.57 | 1.31 | 12.10 | V | Pass |



| Band : | LTE Band 7 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 10MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Kaer Huang | | | | Polarization : | | Horizontal | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5061.18 | -38.57 | -25 | -13.57 | -71.55 | -50.32 | 0.95 | 12.70 | H | Pass |
| 7591.77 | -38.40 | -25 | -13.40 | -75.29 | -48.64 | 1.46 | 11.70 | H | Pass |
| 10122.36 | -38.70 | -25 | -13.70 | -77.17 | -49.49 | 1.31 | 12.10 | H | Pass |

| Band : | LTE Band 7 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 10MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Kaer Huang | | | | Polarization : | | Vertical | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5061.18 | -40.72 | -25 | -15.72 | -73.3 | -52.47 | 0.95 | 12.70 | V | Pass |
| 7591.77 | -38.94 | -25 | -13.94 | -75.82 | -49.18 | 1.46 | 11.70 | V | Pass |
| 10122.36 | -39.97 | -25 | -14.97 | -76.87 | -50.76 | 1.31 | 12.10 | V | Pass |

**FCC RF Test Report**

Report No. : FG511702B

| Band : | LTE Band 7 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 15MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Kaer Huang | | | | Polarization : | | Horizontal | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5056.68 | -40.23 | -25 | -15.23 | -72.46 | -51.98 | 0.95 | 12.70 | H | Pass |
| 7585.02 | -38.25 | -25 | -13.25 | -75.14 | -48.49 | 1.46 | 11.70 | H | Pass |
| 10131.36 | -38.34 | -25 | -13.34 | -76.81 | -49.13 | 1.31 | 12.10 | H | Pass |

| Band : | LTE Band 7 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 15MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Kaer Huang | | | | Polarization : | | Vertical | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5056.68 | -40.09 | -25 | -15.09 | -73.16 | -51.84 | 0.95 | 12.70 | V | Pass |
| 7585.02 | -38.10 | -25 | -13.10 | -74.98 | -48.34 | 1.46 | 11.70 | V | Pass |
| 10131.36 | -39.31 | -25 | -14.31 | -76.21 | -50.10 | 1.31 | 12.10 | V | Pass |



| Band : | LTE Band 7 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 20MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Kaer Huang | | | | Polarization : | | Horizontal | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5052.18 | -41.05 | -25 | -16.05 | -73.03 | -52.80 | 0.95 | 12.70 | H | Pass |
| 7578.27 | -37.47 | -25 | -12.47 | -74.36 | -47.71 | 1.46 | 11.70 | H | Pass |
| 10104.36 | -38.51 | -25 | -13.51 | -76.98 | -49.30 | 1.31 | 12.10 | H | Pass |

| Band : | LTE Band 7 | | | | Temperature : | | 23~25°C | | |
|------------------------|---|------------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 20MHz QPSK RB Size 1 Offset 0 | | | | Relative Humidity : | | 48~52% | | |
| Test Engineer : | Kaer Huang | | | | Polarization : | | Vertical | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5052.18 | -41.20 | -25 | -16.20 | -72.43 | -52.95 | 0.95 | 12.70 | V | Pass |
| 7578.27 | -39.14 | -25 | -14.14 | -76.02 | -49.38 | 1.46 | 11.70 | V | Pass |
| 10104.36 | -39.75 | -25 | -14.75 | -76.65 | -50.54 | 1.31 | 12.10 | V | Pass |



| Band : | LTE Band 17 | | | Temperature : | | 23~25°C | | | |
|------------------------|---|------------------|-------------------------|----------------------------|--------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 5MHz QPSK RB Size 1 Offset 0 | | | Relative Humidity : | | 48~52% | | | |
| Test Engineer : | Kaer Huang | | | Polarization : | | Horizontal | | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1418 | -54.64 | -13 | -41.64 | -68.85 | -61.32 | 0.57 | 9.40 | H | Pass |
| 2125 | -47.69 | -13 | -34.69 | -69.14 | -55.39 | 0.75 | 10.60 | H | Pass |
| 2833 | -48.41 | -13 | -35.41 | -72.78 | -57.99 | 0.87 | 12.60 | H | Pass |

| Band : | LTE Band 17 | | | Temperature : | | 23~25°C | | | |
|------------------------|---|------------------|-------------------------|----------------------------|--------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 5MHz QPSK RB Size 1 Offset 0 | | | Relative Humidity : | | 48~52% | | | |
| Test Engineer : | Kaer Huang | | | Polarization : | | Vertical | | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1418 | -54.39 | -13 | -41.39 | -69.03 | -61.07 | 0.57 | 9.40 | V | Pass |
| 2125 | -49.06 | -13 | -36.06 | -71.51 | -56.76 | 0.75 | 10.60 | V | Pass |
| 2833 | -43.58 | -13 | -30.58 | -72.42 | -53.16 | 0.87 | 12.60 | V | Pass |



| Band : | LTE Band 17 | | | Temperature : | | 23~25°C | | | |
|------------------------|---|------------------|-------------------------|----------------------------|--------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 10MHz QPSK RB Size 1 Offset 0 | | | Relative Humidity : | | 48~52% | | | |
| Test Engineer : | Kaer Huang | | | Polarization : | | Horizontal | | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1408 | -55.16 | -13 | -42.16 | -69.37 | -61.84 | 0.57 | 9.40 | H | Pass |
| 2113 | -52.01 | -13 | -39.01 | -71.67 | -59.71 | 0.75 | 10.60 | H | Pass |
| 2816 | -48.29 | -13 | -35.29 | -72.66 | -57.87 | 0.87 | 12.60 | H | Pass |

| Band : | LTE Band 17 | | | Temperature : | | 23~25°C | | | |
|------------------------|---|------------------|-------------------------|----------------------------|--------------------------|----------------------------|-------------------------------|-------------------------|--------|
| Test Mode : | 10MHz QPSK RB Size 1 Offset 0 | | | Relative Humidity : | | 48~52% | | | |
| Test Engineer : | Kaer Huang | | | Polarization : | | Vertical | | | |
| Remark : | Spurious emissions below 1GHz were found more than 20dB below limit line. | | | | | | | | |
| Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1408 | -54.74 | -13 | -41.74 | -69.46 | -61.42 | 0.57 | 9.40 | V | Pass |
| 2113 | -50.39 | -13 | -37.39 | -71.98 | -58.09 | 0.75 | 10.60 | V | Pass |
| 2816 | -43.00 | -13 | -30.00 | -71.92 | -52.58 | 0.87 | 12.60 | V | Pass |