

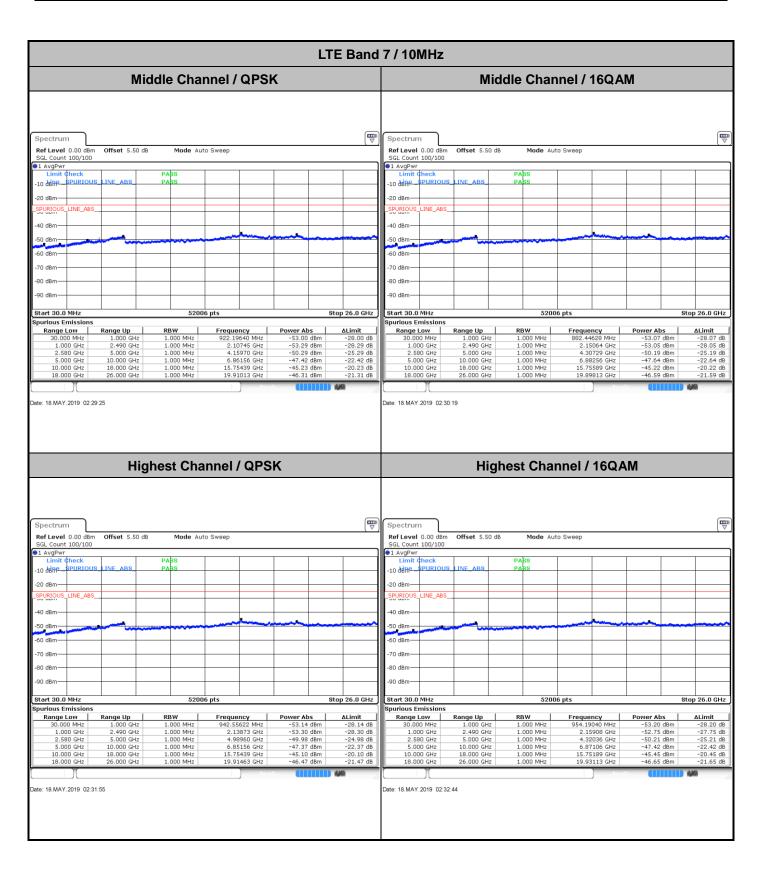
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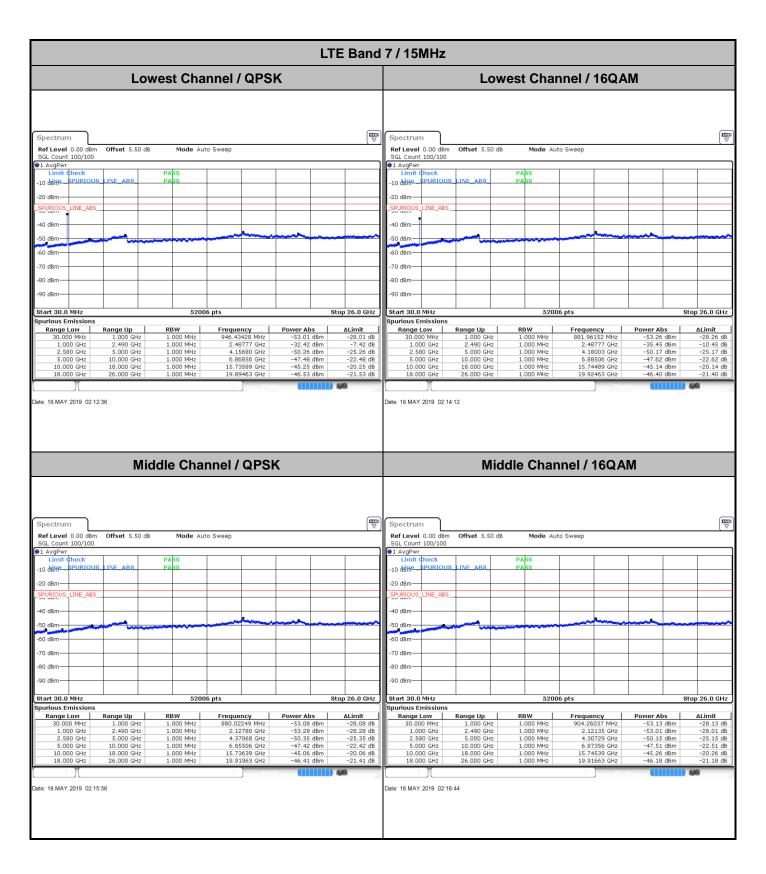
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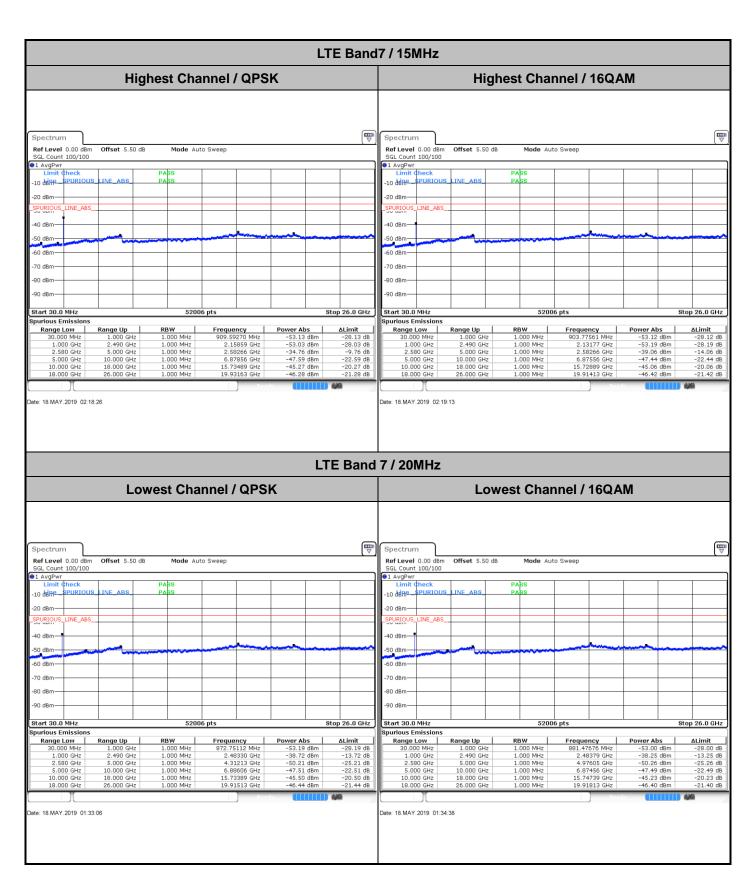
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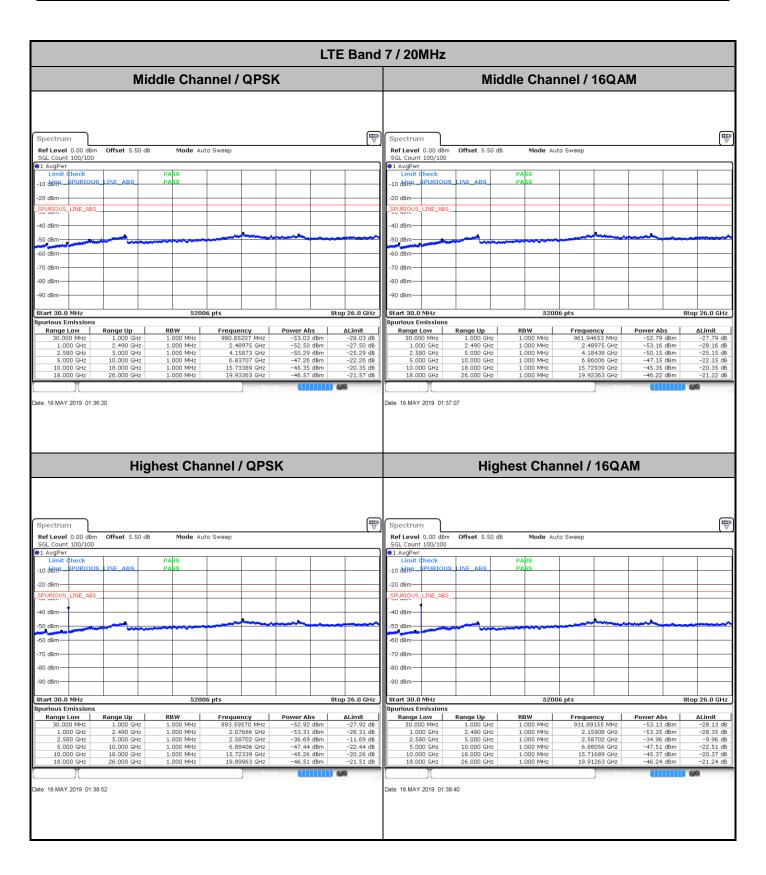
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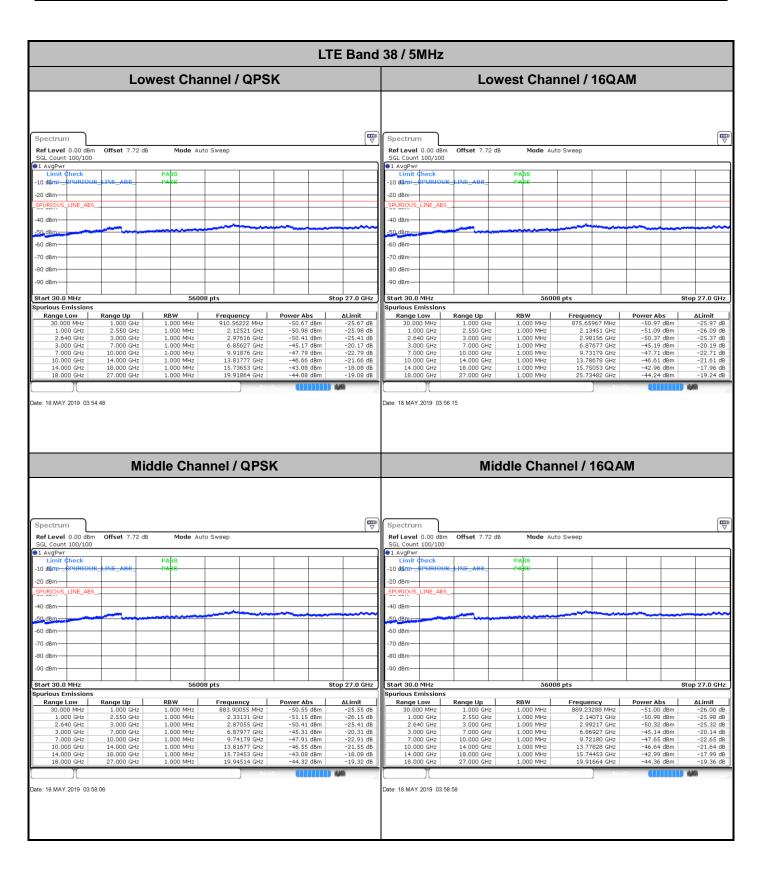
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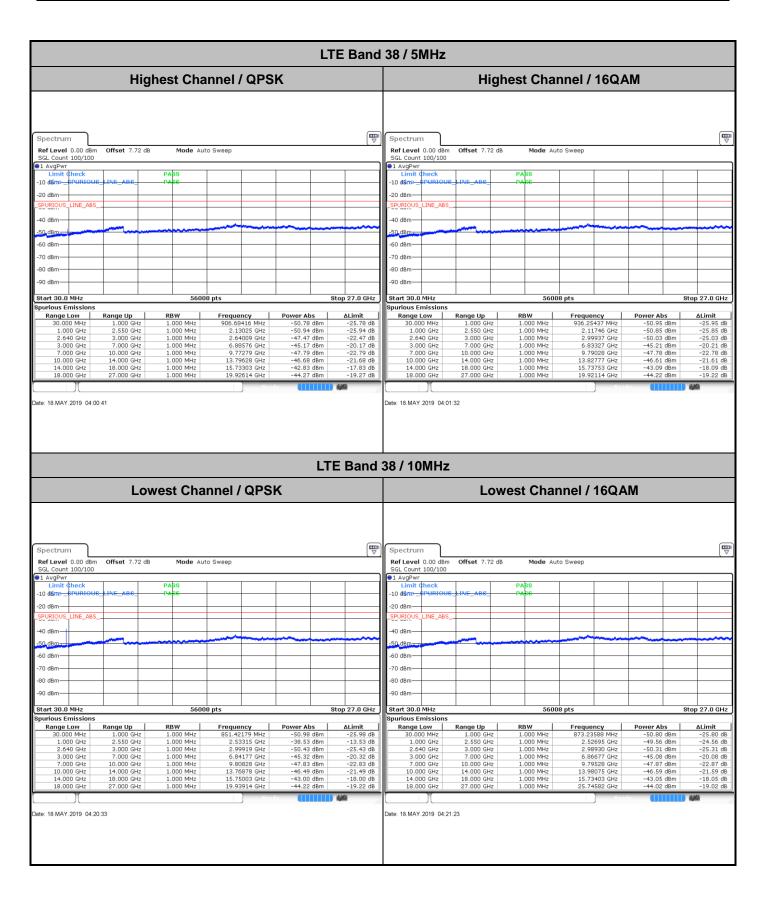


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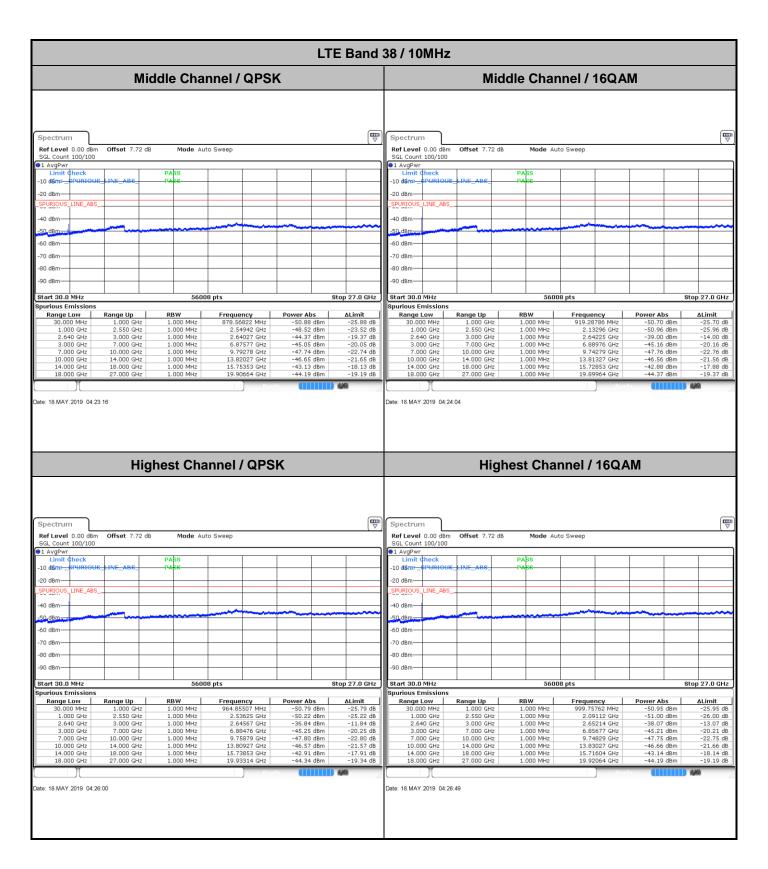
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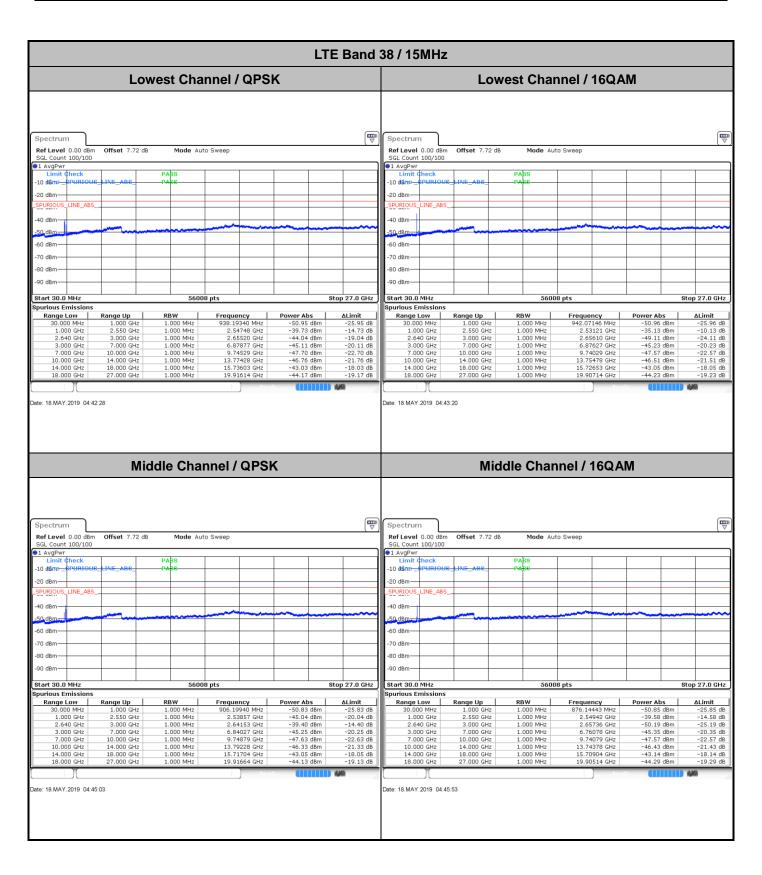
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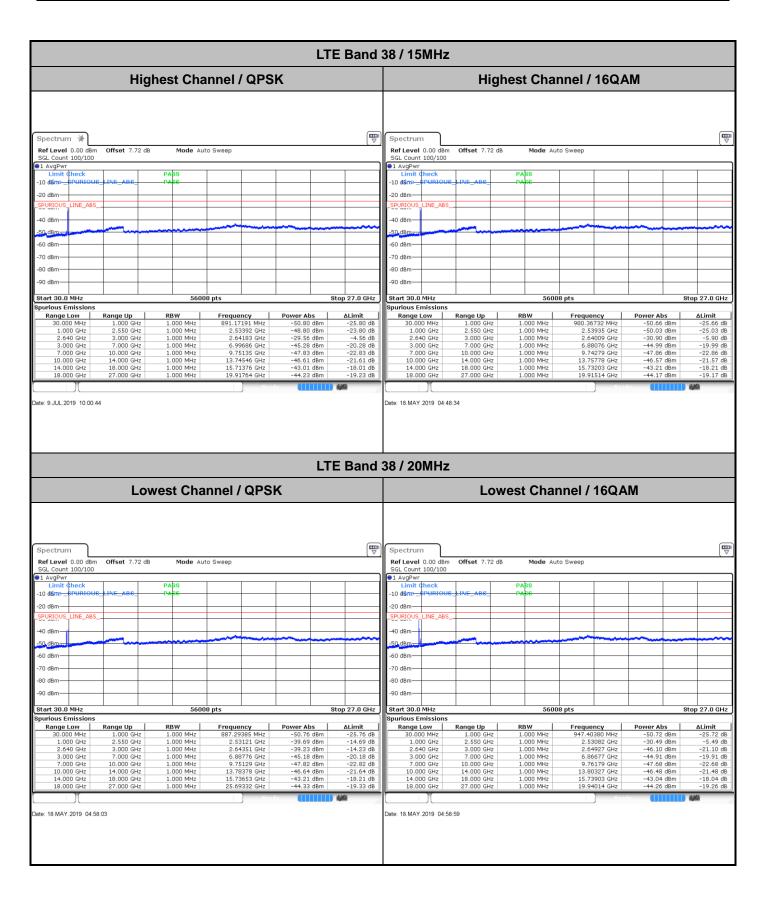


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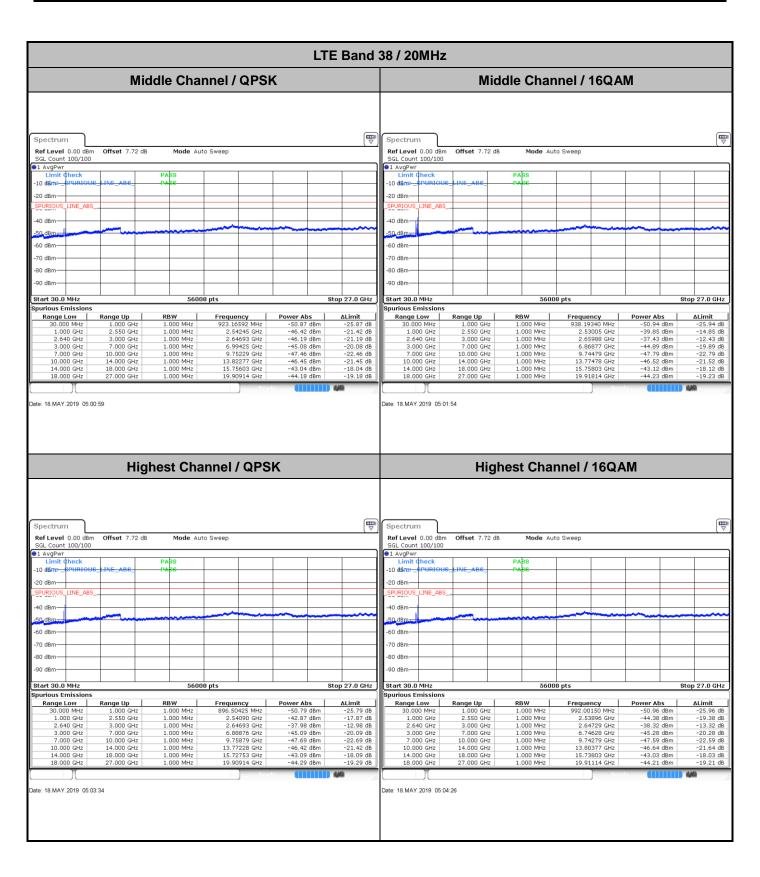
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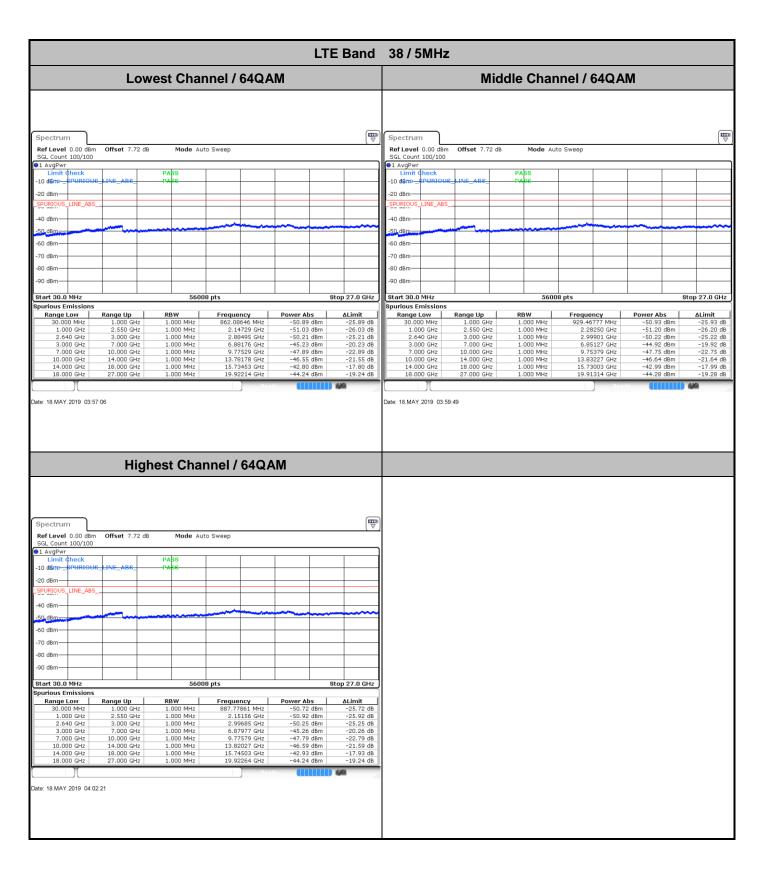
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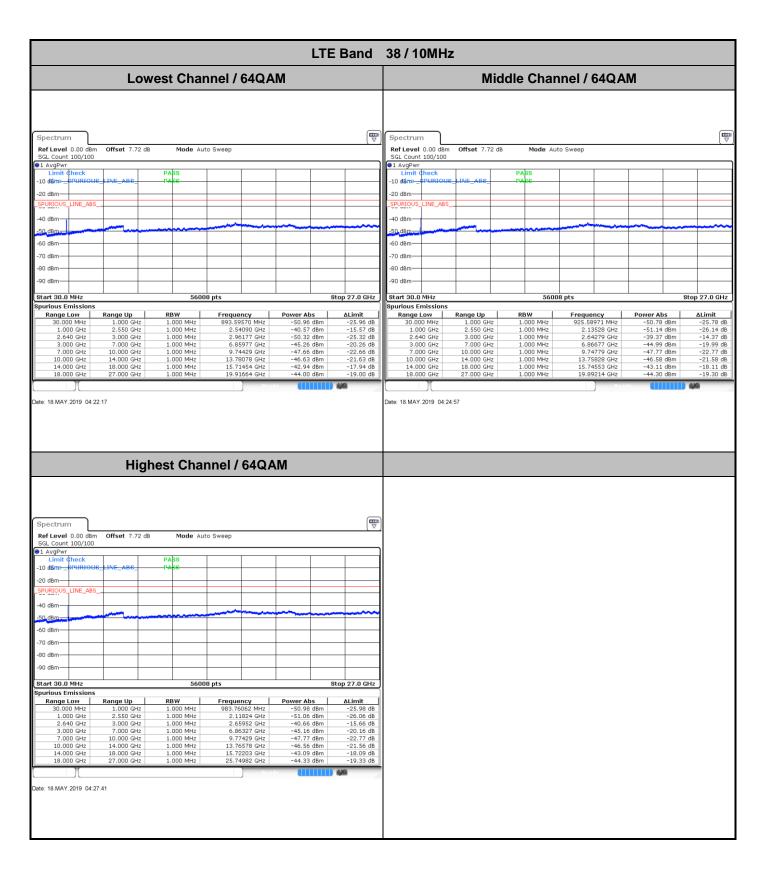
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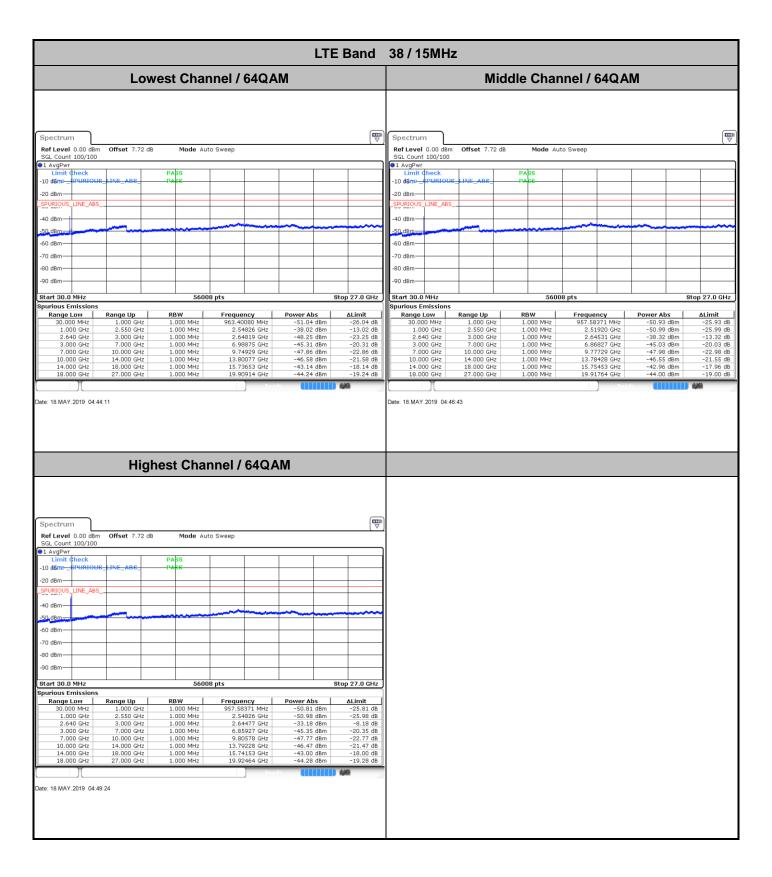
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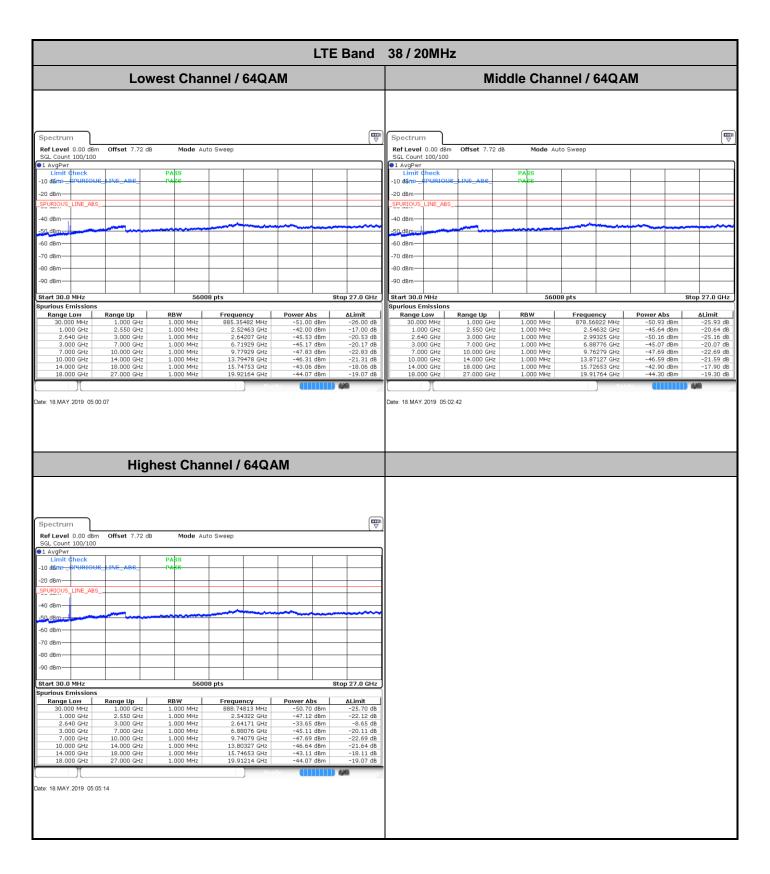
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Frequency Stability

| Test Conditions | | LTE Band 5 (QPSK) / Middle Channel | | |
|---------------------|-------------------|------------------------------------|--------|--|
| _ | | BW 10MHz | 2.5ppm | |
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result | |
| 50 | Normal Voltage | 0.0035 | | |
| 40 | Normal Voltage | 0.0054 | | |
| 30 | Normal Voltage | 0.0006 | | |
| 20(Ref.) | Normal Voltage | 0.0000 | | |
| 10 | Normal Voltage | 0.0047 | | |
| 0 | Normal Voltage | 0.0054 | | |
| -10 | Normal Voltage | 0.0060 | PASS | |
| -20 | Normal Voltage | 0.0018 | | |
| -30 | Normal Voltage | 0.0045 | | |
| 20 | Maximum Voltage | 0.0004 | | |
| 20 | Normal Voltage | 0.0030 | | |
| 20 | Battery End Point | 0.0043 | | |

Note: Normal Voltage =3.8 V.; Battery End Point (BEP) =3.3V.; Maximum Voltage =4.3 V.

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| Test Conditions | | LTE Band 7 (QPSK) / Middle Channel | | |
|---------------------|-------------------|------------------------------------|---------|--|
| _ | | BW 10MHz | Note 2. | |
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result | |
| 50 | Normal Voltage | 0.0032 | | |
| 40 | Normal Voltage | 0.0026 | | |
| 30 | Normal Voltage | 0.0008 | | |
| 20(Ref.) | Normal Voltage | 0.0000 | | |
| 10 | Normal Voltage | 0.0019 | | |
| 0 | Normal Voltage | 0.0032 | | |
| -10 | Normal Voltage | 0.0005 | PASS | |
| -20 | Normal Voltage | 0.0004 | | |
| -30 | Normal Voltage | 0.0022 | | |
| 20 | Maximum Voltage | 0.0018 | | |
| 20 | Normal Voltage | 0.0024 | | |
| 20 | Battery End Point | 0.0033 | | |

Note:

- 1. Normal Voltage =3.8 V.; Battery End Point (BEP) =3.3V.; Maximum Voltage =4.3 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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| Test Conditions | | LTE Band 38 (QPSK) / Middle Channel | | |
|---------------------|-------------------|-------------------------------------|---------|--|
| _ | | BW 10MHz | Note 2. | |
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result | |
| 50 | Normal Voltage | 0.0032 | | |
| 40 | Normal Voltage | 0.0028 | | |
| 30 | Normal Voltage | 0.0008 | | |
| 20(Ref.) | Normal Voltage | 0.0000 | | |
| 10 | Normal Voltage | 0.0019 | | |
| 0 | Normal Voltage | 0.0032 | | |
| -10 | Normal Voltage | 0.0005 | PASS | |
| -20 | Normal Voltage | 0.0004 | | |
| -30 | Normal Voltage | 0.0022 | | |
| 20 | Maximum Voltage | 0.0016 | | |
| 20 | Normal Voltage | 0.0024 | | |
| 20 | Battery End Point | 0.0033 | | |

Note:

- 1. Normal Voltage =3.8 V.; Battery End Point (BEP) =3.3V.; Maximum Voltage =4.3V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

| LTE Band 5 / 10MHz / QPSK | | | | | | | | | |
|---------------------------|----------------------|----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|--|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | |
| Middle | 1664 | -58.69 | -13 | -45.69 | -59.90 | 2.32 | 5.68 | Н | |
| | 2496 | -67.78 | -13 | -54.78 | -68.41 | 3.02 | 5.80 | Н | |
| | 3327 | -66.79 | -13 | -53.79 | -69.25 | 3.27 | 7.88 | Н | |
| | 1664 | -62.35 | -13 | -49.35 | -63.56 | 2.32 | 5.68 | V | |
| | 2496 | -67.81 | -13 | -54.81 | -68.44 | 3.02 | 5.80 | V | |
| | 3327 | -66.76 | -13 | -53.76 | -69.22 | 3.27 | 7.88 | V | |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 7 / 20MHz / QPSK | | | | | | | | |
|---------------------------|----------------------|-----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5052 | -62.26 | -25 | -37.26 | -72.47 | 3.03 | 13.24 | Н |
| | 7580 | -59.96 | -25 | -34.96 | -69.41 | 3.56 | 13.01 | Н |
| | 10104 | -58.03 | -25 | -33.03 | -67.55 | 3.92 | 13.44 | Н |
| | 5052 | -52.98 | -25 | -27.98 | -63.19 | 3.03 | 13.24 | V |
| | 7580 | -58.02 | -25 | -33.02 | -67.47 | 3.56 | 13.01 | V |
| | 10104 | -57.59 | -25 | -32.59 | -67.11 | 3.92 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 38 / 20MHz / QPSK | | | | | | | | |
|----------------------------|----------------------|-----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5172 | -57.02 | -25 | -32.02 | -67.23 | 3.03 | 13.24 | Н |
| | 7760 | -59.27 | -25 | -34.27 | -68.72 | 3.56 | 13.01 | Н |
| | 10344 | -59.15 | -25 | -34.15 | -68.67 | 3.92 | 13.44 | Н |
| | 5172 | -48.10 | -25 | -23.10 | -58.31 | 3.03 | 13.24 | V |
| | 7760 | -56.53 | -25 | -31.53 | -65.98 | 3.56 | 13.01 | V |
| | 10344 | -57.88 | -25 | -32.88 | -67.40 | 3.92 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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