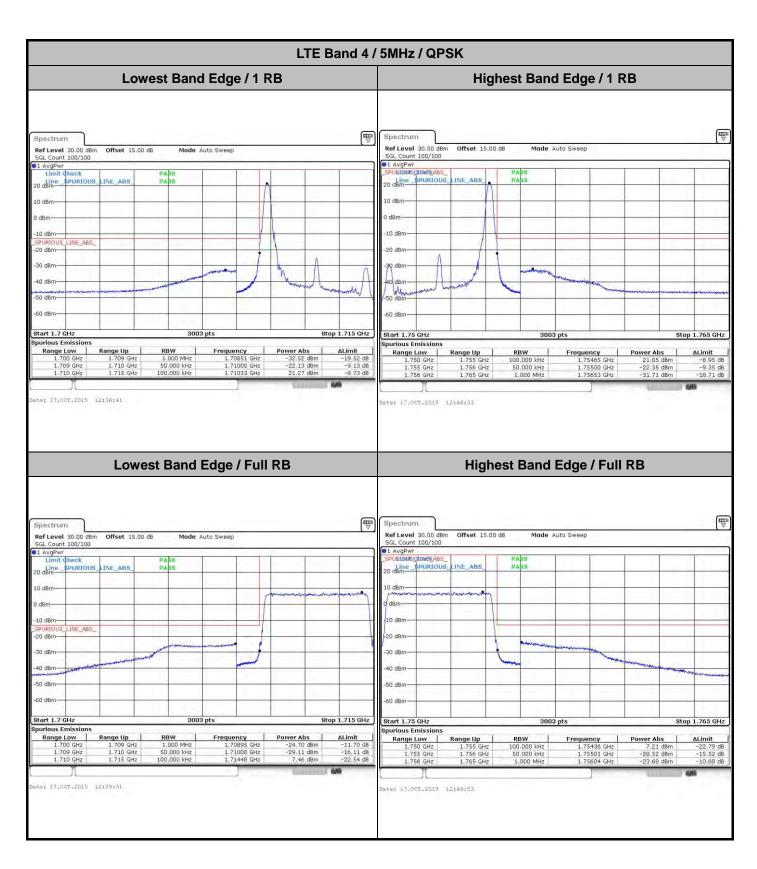
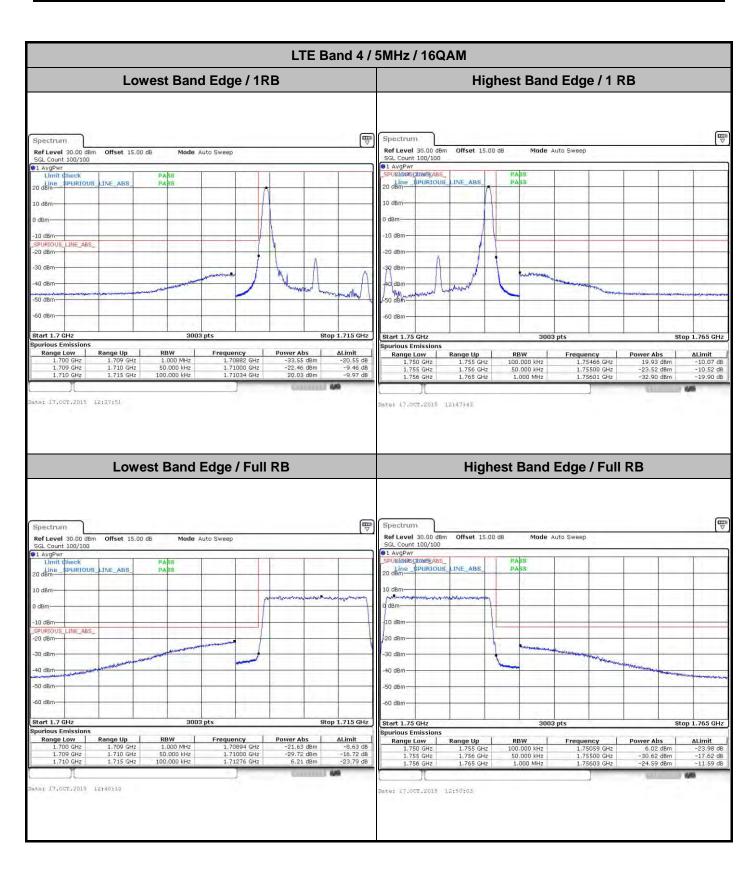


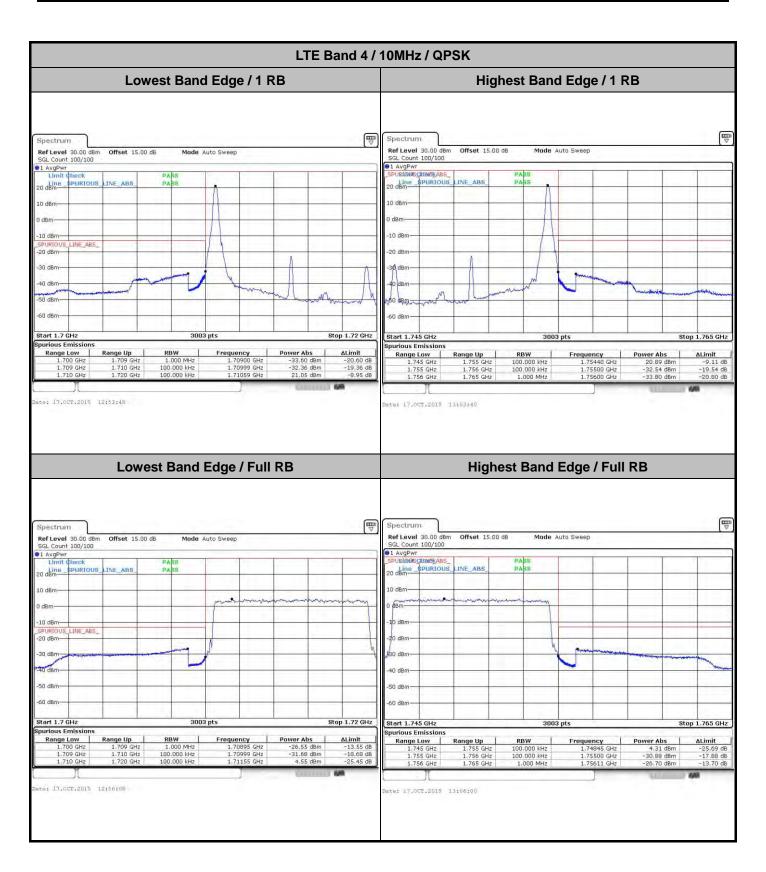
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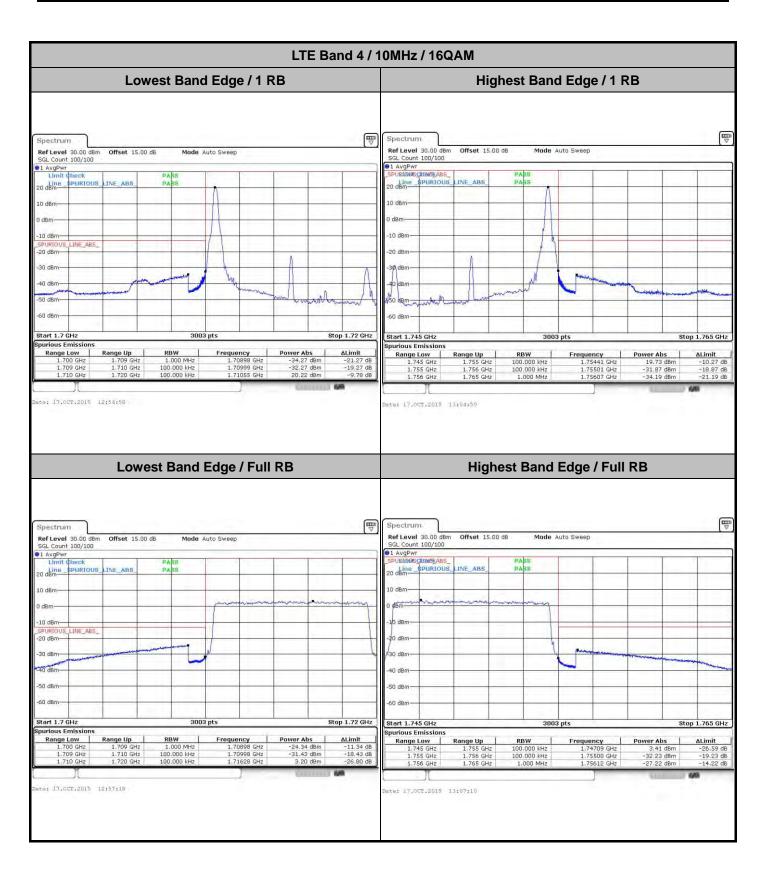
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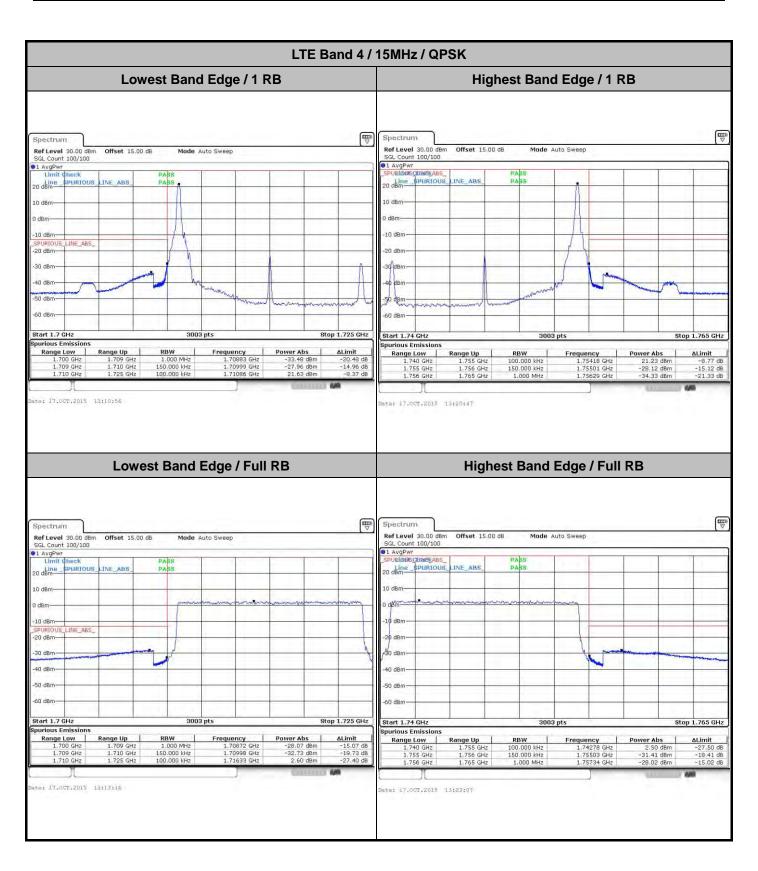
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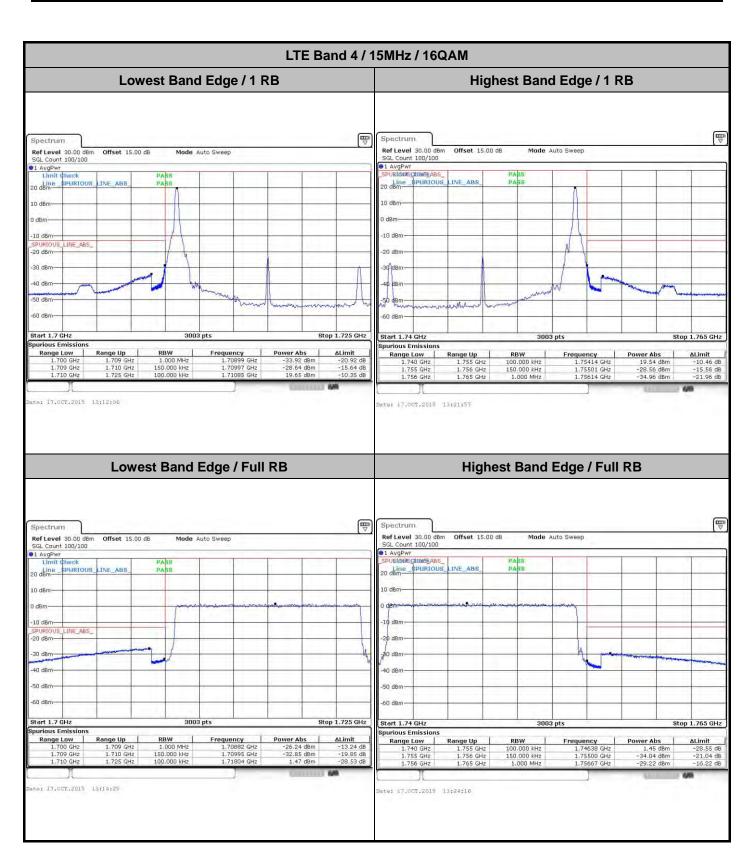
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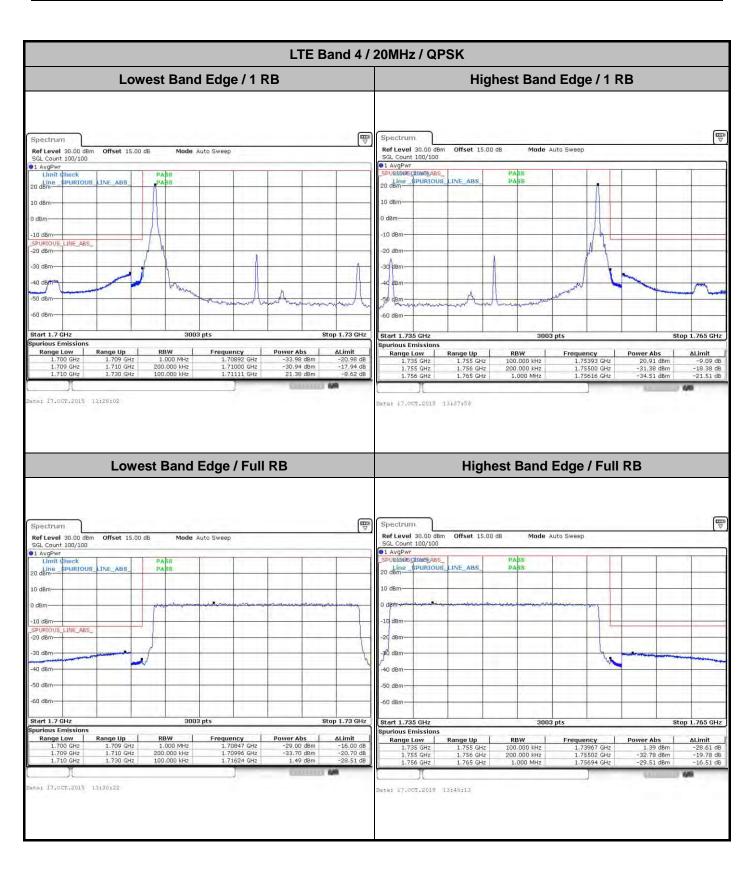
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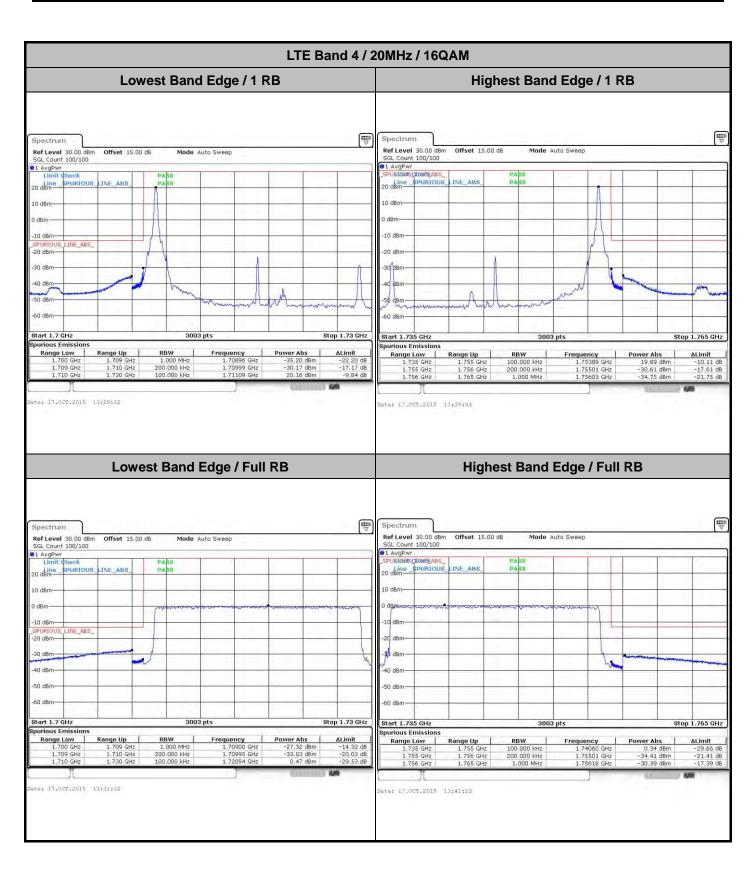
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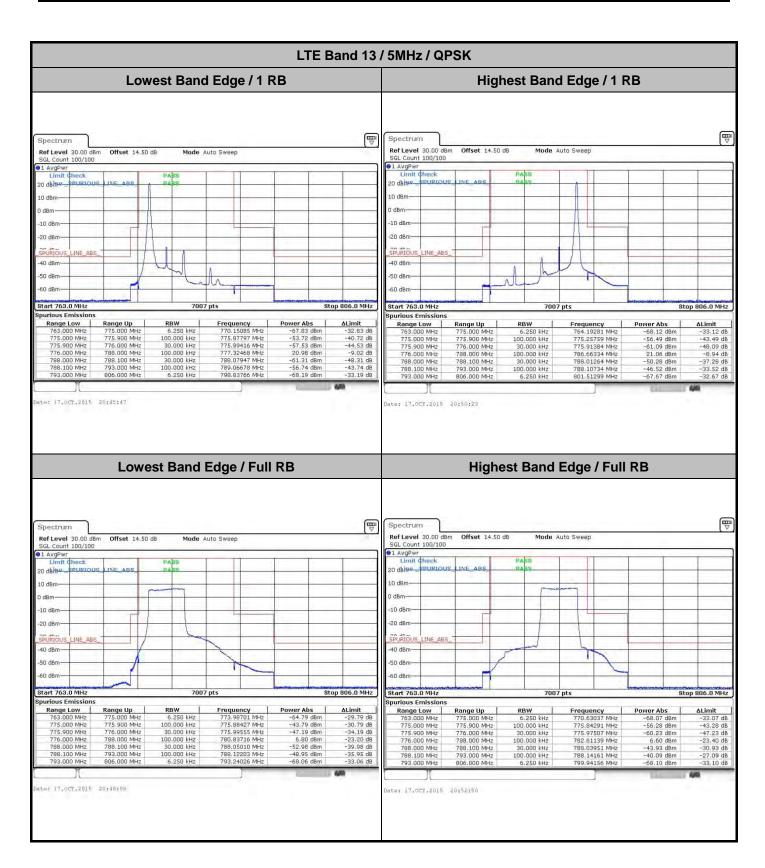
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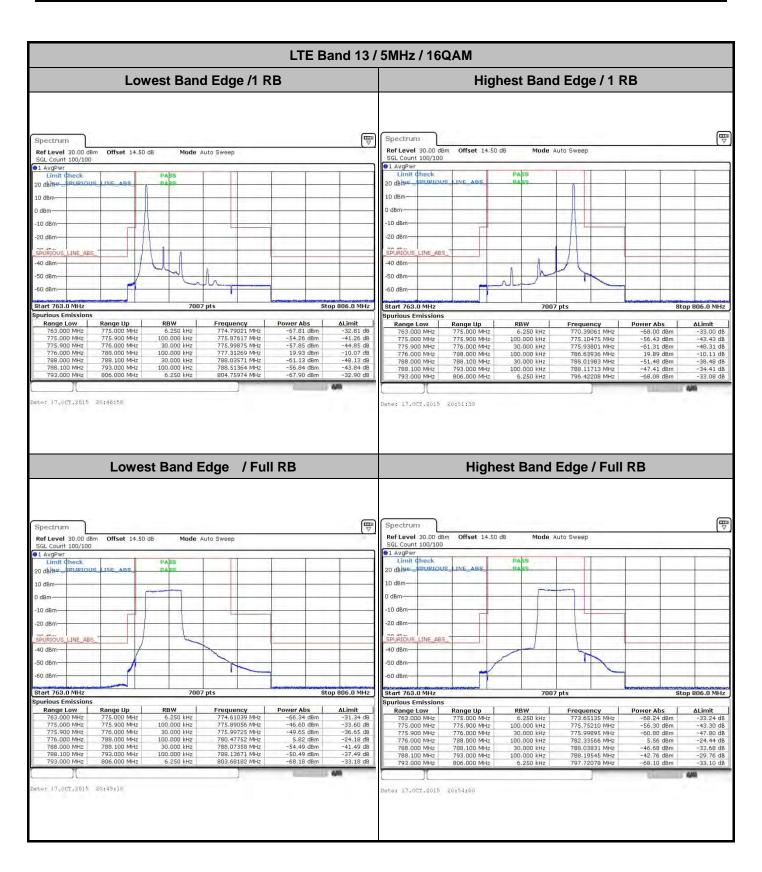
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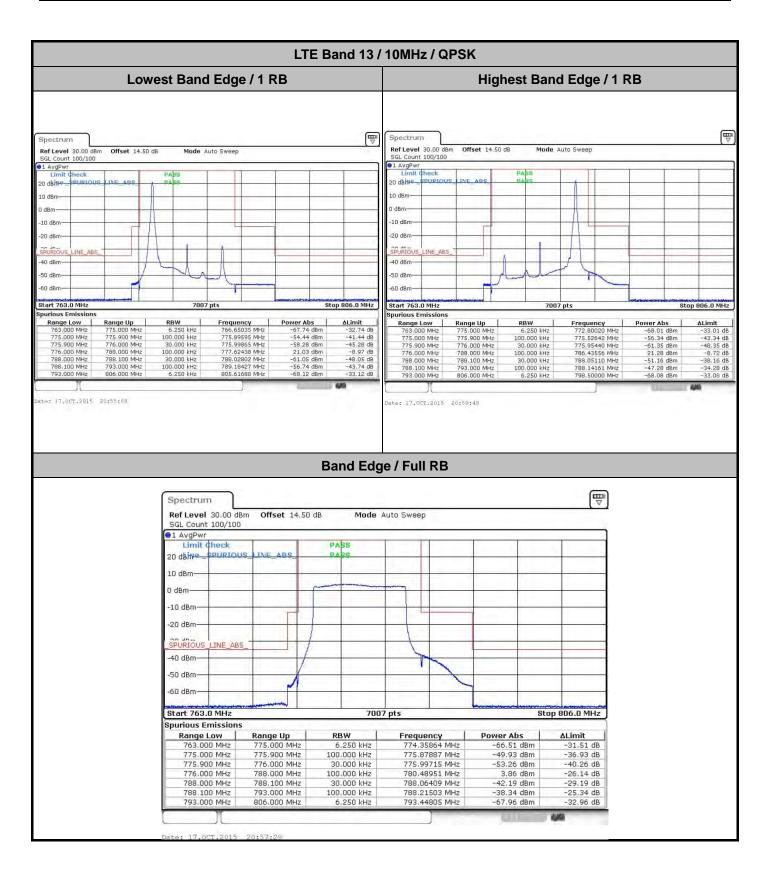
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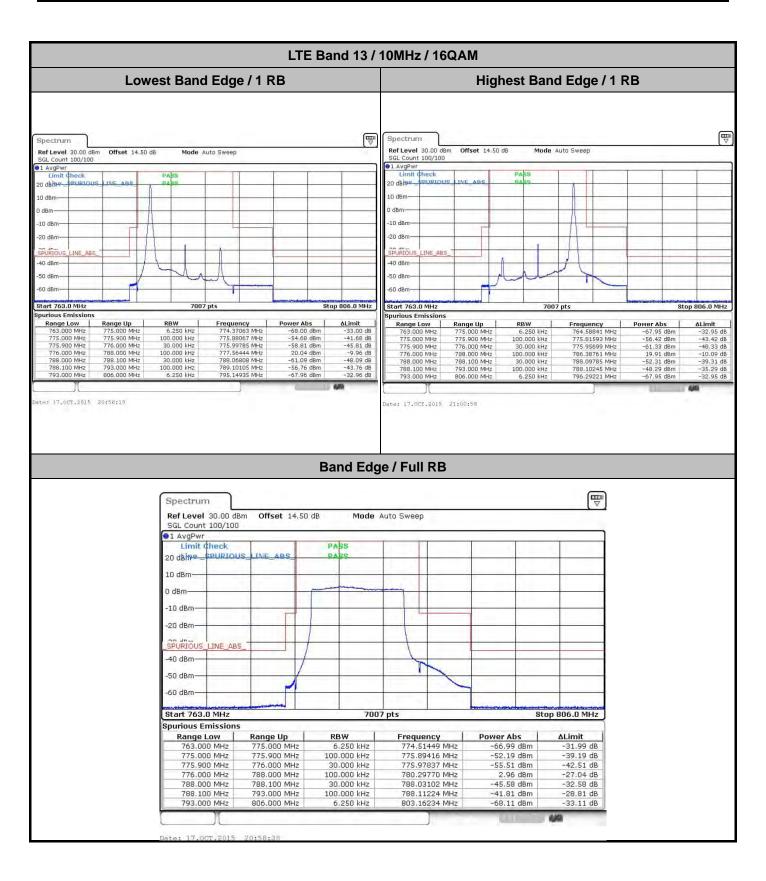
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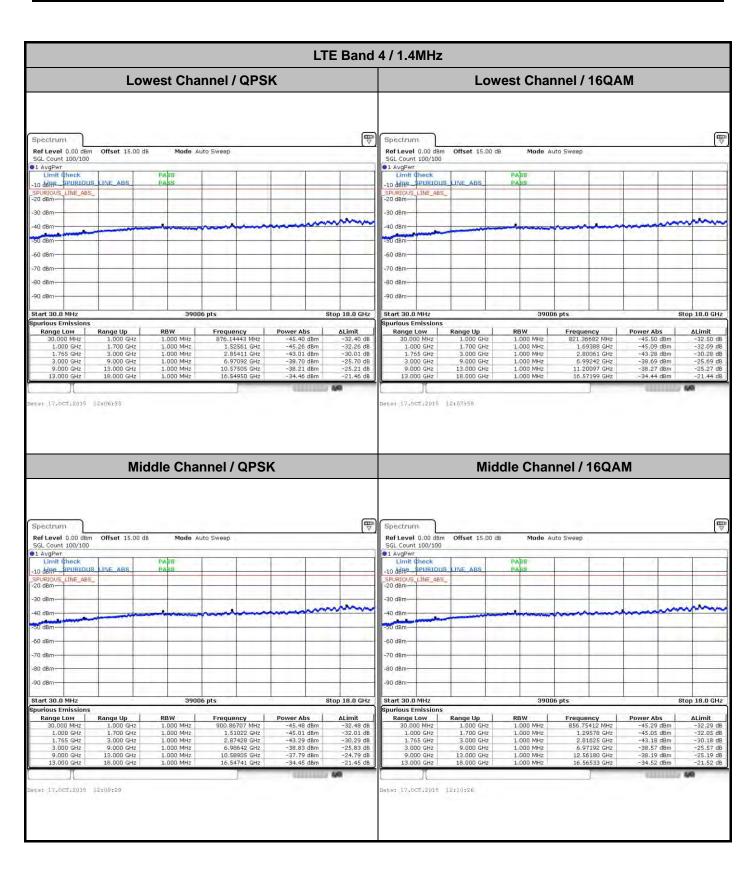


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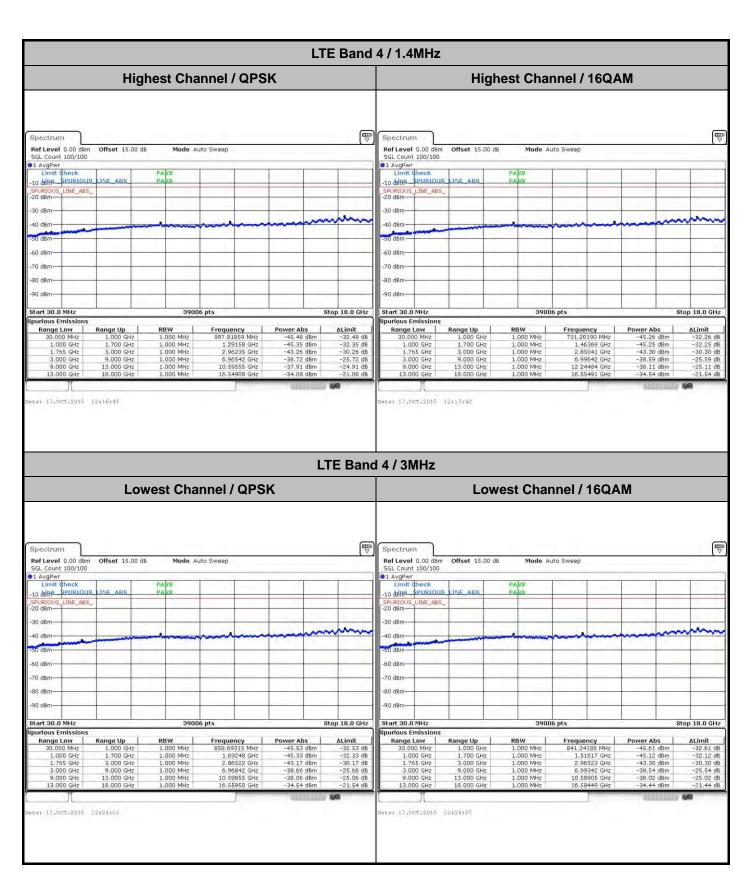
Conducted Spurious Emission

SPORTON INTERNATIONAL (SHENZHEN) INC.

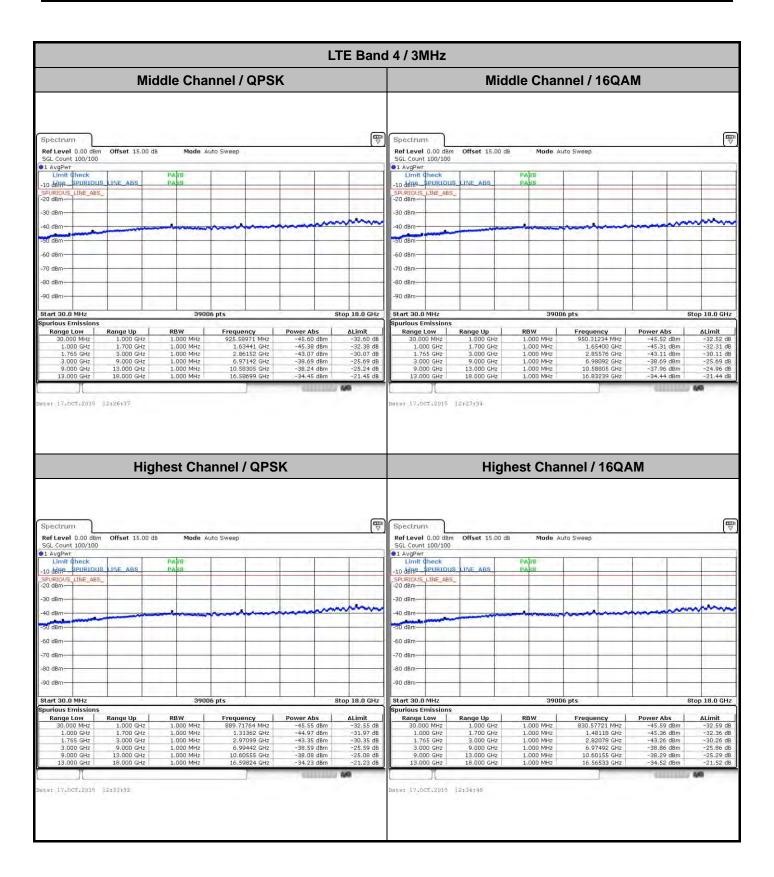
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB026 Page Number : A45 of A58
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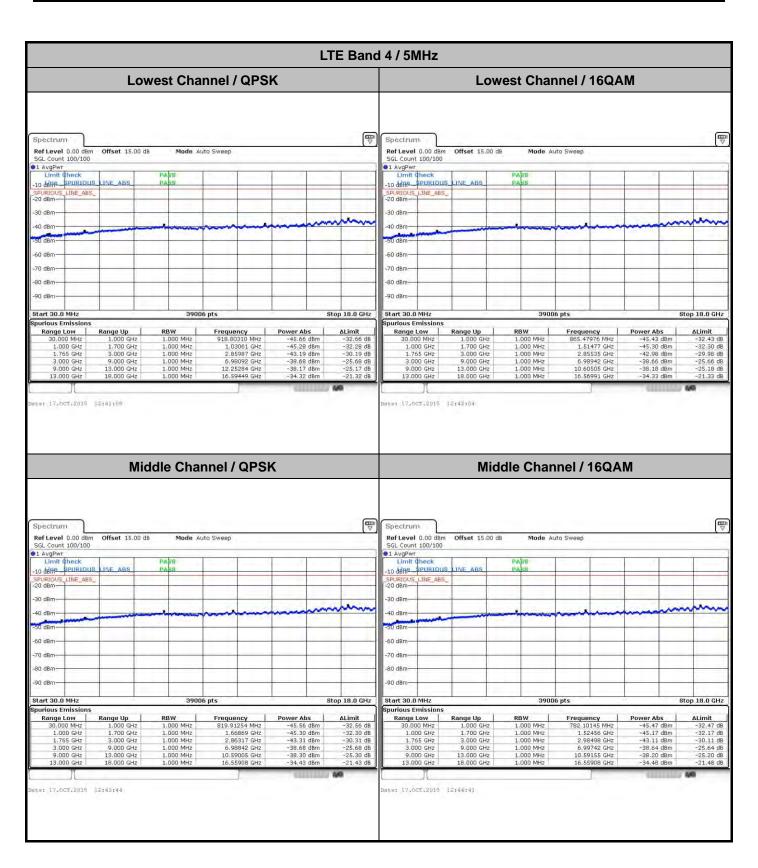
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB026 Page Number : A46 of A58
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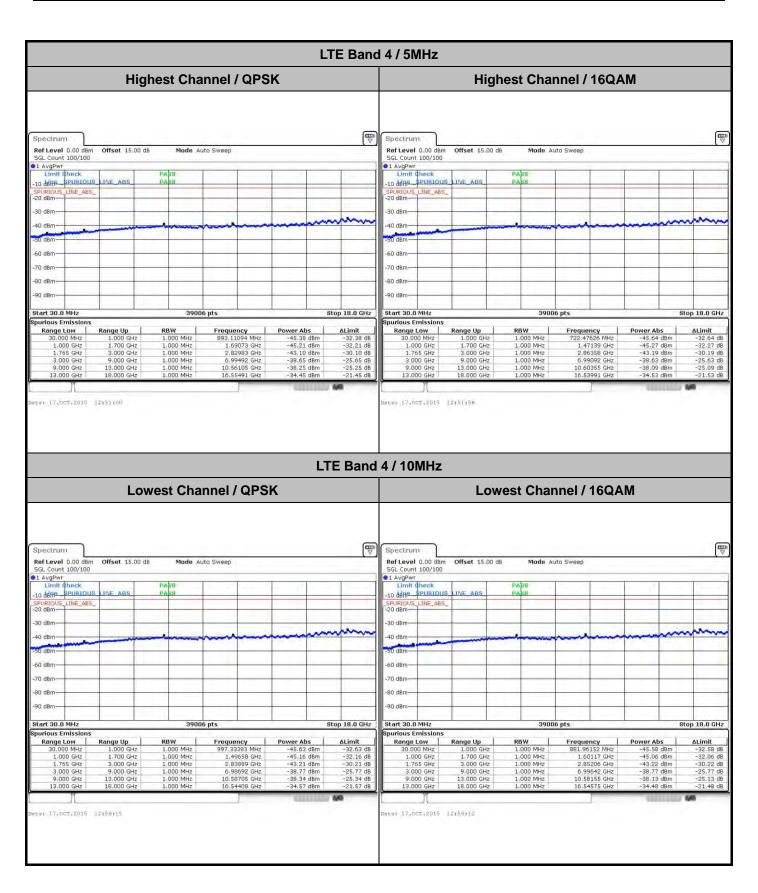
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB026 Page Number : A47 of A58
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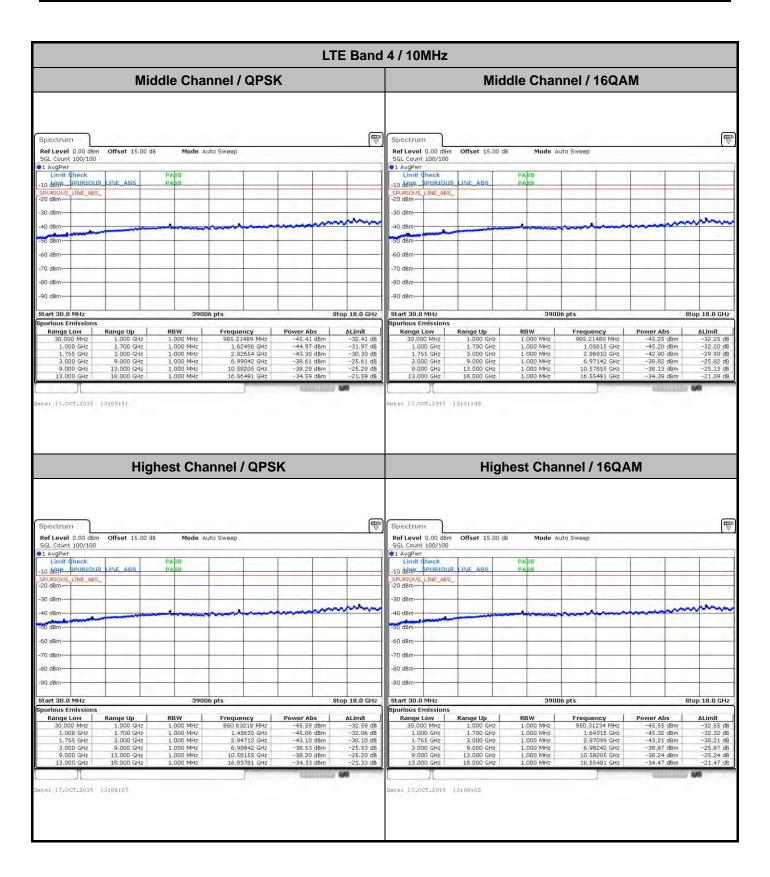
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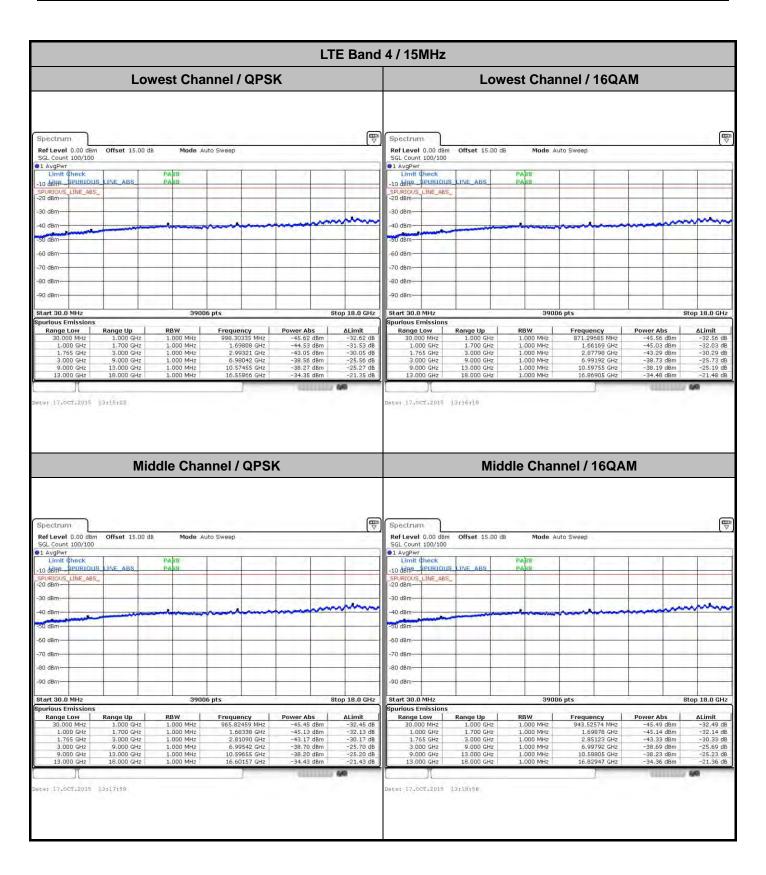
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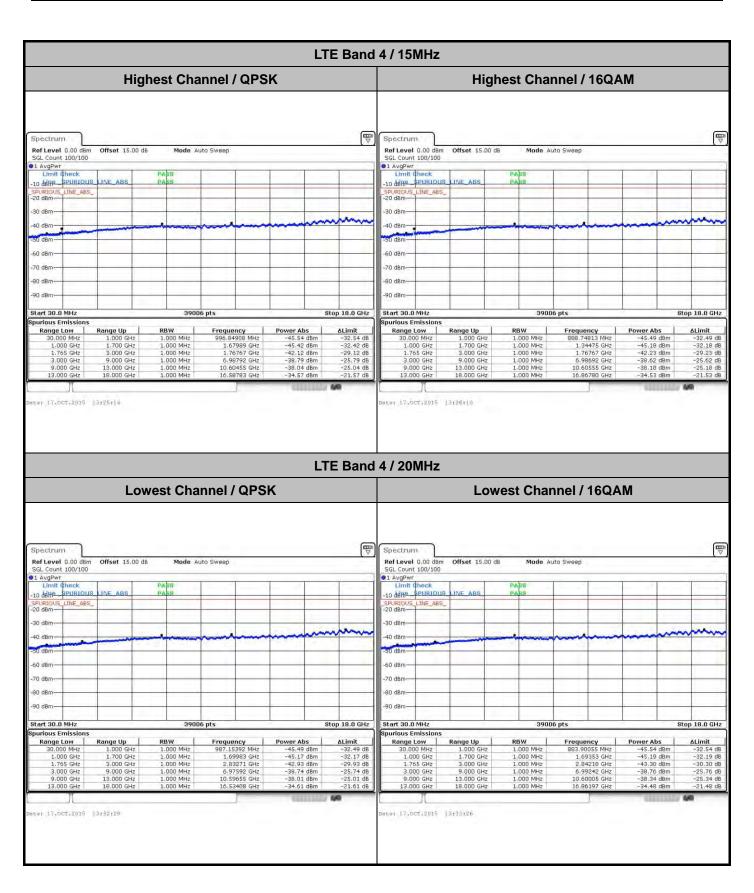
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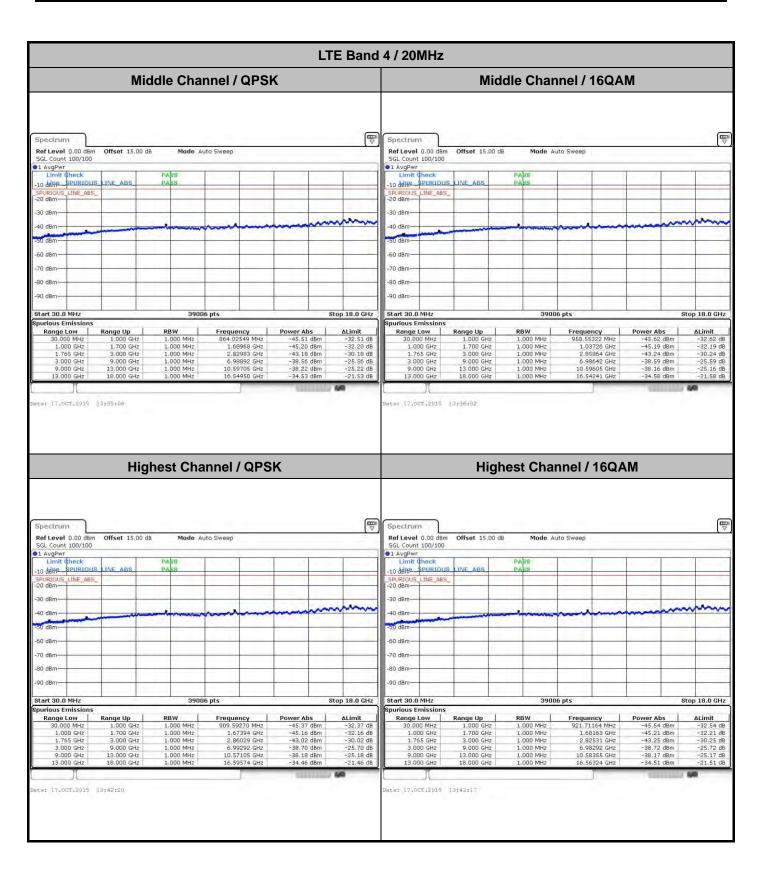
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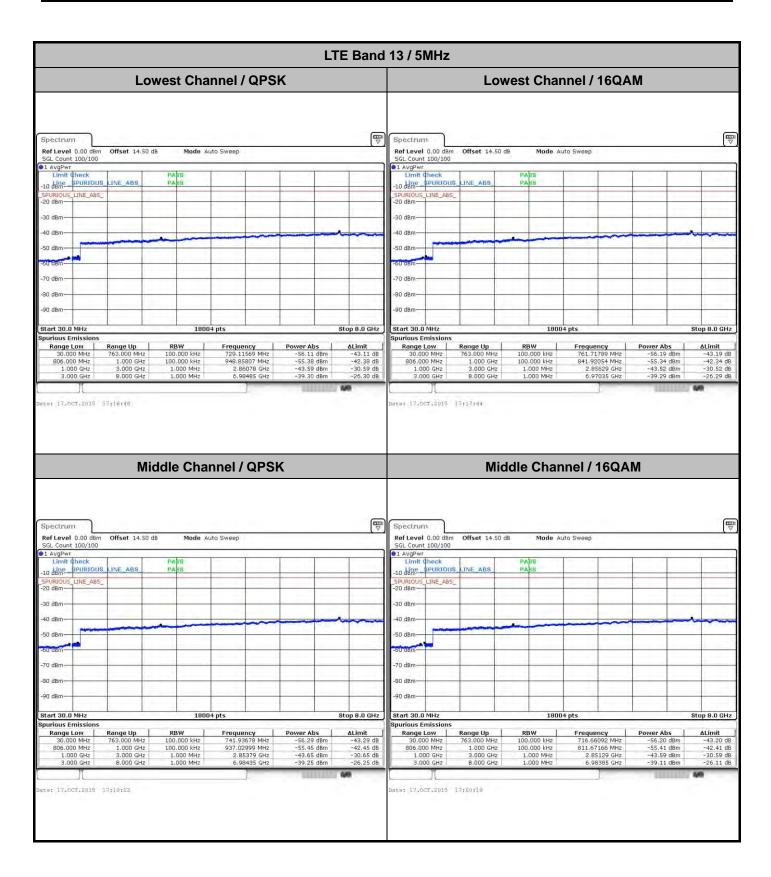
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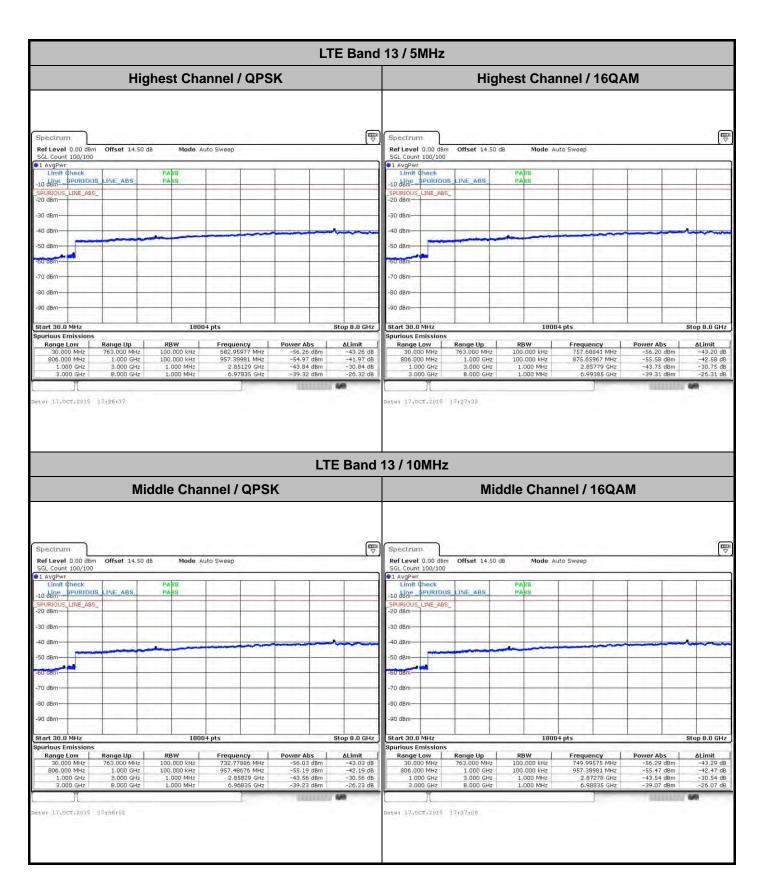
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Frequency Stability

| Test (| Conditions | LTE Band 4 (QPSK) / Middle Channel | Limit |
|---------------------|-------------------|------------------------------------|---------|
| _ | | BW 10MHz | Note 2. |
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0063 | |
| 40 | Normal Voltage | 0.0069 | |
| 30 | Normal Voltage | 0.0006 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0063 | |
| 0 | Normal Voltage | 0.0000 | |
| -10 | Normal Voltage | 0.0006 | PASS |
| -20 | Normal Voltage | 0.0000 | |
| -30 | Normal Voltage | 0.0006 | |
| 20 | Maximum Voltage | 0.0006 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0006 | |

Note:

- 1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5V. ; Maximum Voltage =4.35V
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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| Test (| Conditions | LTE Band 13 (QPSK) / Middle Channel | Limit |
|---------------------|-------------------|-------------------------------------|---------|
| _ | | BW 10MHz | Note 2. |
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0115 | |
| 40 | Normal Voltage | 0.0128 | |
| 30 | Normal Voltage | 0.0013 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0000 | |
| 0 | Normal Voltage | 0.0115 | |
| -10 | Normal Voltage | 0.0128 | PASS |
| -20 | Normal Voltage | 0.0128 | |
| -30 | Normal Voltage | 0.0141 | |
| 20 | Maximum Voltage | 0.0000 | |
| 20 | Normal Voltage | 0.0013 | |
| 20 | Battery End Point | 0.0013 | |

Note:

- 1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5V. ; Maximum Voltage =4.35V
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Appendix B. Test Results of Radiated Test



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| | LTE Band 4 / 1.4MHz (Average) | | | | | | | | | | | |
|---------|-------------------------------|------|--------|-----------|---------|-----------|----------|--|--|--|--|--|
| Channel | Modulation | F | RB | Horizo | ontal | Vert | Vertical | | | | | |
| Channel | Wodulation | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) | | | | | |
| Lowest | | 3 | 1 | 24.90 | 0.3090 | 25.24 | 0.3342 | | | | | |
| Middle | QPSK | 3 | 1 | 25.47 | 0.3524 | 25.76 | 0.3767 | | | | | |
| Highest | | 3 | 1 | 25.77 | 0.3776 | 25.79 | 0.3793 | | | | | |
| Lowest | | 3 | 1 | 23.85 | 0.2427 | 24.17 | 0.2612 | | | | | |
| Middle | 16QAM | 3 | 1 | 24.44 | 0.2780 | 24.69 | 0.2944 | | | | | |
| Highest | | 3 | 1 | 24.65 | 0.2917 | 24.72 | 0.2965 | | | | | |
| Limit | EIRP < 1W | | | Res | sult | PASS | | | | | | |

| | LTE Band 4 / 3MHz (Average) | | | | | | | | | | | |
|---------|-----------------------------|------|--------|-----------|---------|-----------|---------|--|--|--|--|--|
| Channel | Modulation | RB | | Horiz | ontal | Vertical | | | | | | |
| Channel | Wodulation | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) | | | | | |
| Lowest | | 1 | 0 | 24.33 | 0.2710 | 24.67 | 0.2931 | | | | | |
| Middle | QPSK | 1 | 0 | 25.09 | 0.3228 | 25.39 | 0.3459 | | | | | |
| Highest | | 1 | 0 | 25.23 | 0.3334 | 25.38 | 0.3451 | | | | | |
| Lowest | | 1 | 14 | 23.72 | 0.2355 | 23.98 | 0.2500 | | | | | |
| Middle | 16QAM | 1 | 8 | 24.43 | 0.2773 | 24.67 | 0.2931 | | | | | |
| Highest | | 1 | 14 | 24.39 | 0.2748 | 24.50 | 0.2818 | | | | | |
| Limit | EIRP < 1W | | | Res | sult | PASS | | | | | | |

| | LTE Band 4 / 5MHz (Average) | | | | | | | | | | | |
|---------|-----------------------------|------|--------|-----------|---------|-----------|---------|--|--|--|--|--|
| Channel | Modulation | RB | | Horizo | ontal | Vertical | | | | | | |
| Channel | Wodulation | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) | | | | | |
| Lowest | | 1 | 12 | 24.63 | 0.2904 | 24.95 | 0.3126 | | | | | |
| Middle | QPSK | 1 | 12 | 25.14 | 0.3266 | 25.55 | 0.3589 | | | | | |
| Highest | | 1 | 12 | 25.40 | 0.3467 | 25.57 | 0.3606 | | | | | |
| Lowest | | 1 | 12 | 23.77 | 0.2382 | 24.01 | 0.2518 | | | | | |
| Middle | 16QAM | 1 | 0 | 24.37 | 0.2735 | 24.59 | 0.2877 | | | | | |
| Highest | | 1 | 0 | 24.50 | 0.2818 | 24.57 | 0.2864 | | | | | |
| Limit | EIRP < 1W | | | Res | sult | PASS | | | | | | |

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| | LTE Band 4/ 10MHz (Average) | | | | | | | | | | | |
|---------|-----------------------------|------|--------|-----------|---------|-----------|---------|--|--|--|--|--|
| Channel | Modulation | RB | | Horizo | ontal | Vertical | | | | | | |
| Channel | Wiodulation | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) | | | | | |
| Lowest | | 1 | 25 | 24.68 | 0.2938 | 25.08 | 0.3221 | | | | | |
| Middle | QPSK | 1 | 25 | 25.36 | 0.3436 | 25.71 | 0.3724 | | | | | |
| Highest | | 1 | 25 | 25.39 | 0.3459 | 25.47 | 0.3524 | | | | | |
| Lowest | | 1 | 25 | 24.02 | 0.2523 | 24.24 | 0.2655 | | | | | |
| Middle | 16QAM | 1 | 0 | 24.51 | 0.2825 | 24.71 | 0.2958 | | | | | |
| Highest | | 1 | 0 | 24.62 | 0.2897 | 24.69 | 0.2944 | | | | | |
| Limit | EIRP < 1W | | | Res | sult | PASS | | | | | | |

| | LTE Band 4 / 15MHz (Average) | | | | | | | | | | | |
|---------|------------------------------|------|--------|-----------|---------|-----------|---------|--|--|--|--|--|
| Channal | Meduletien | RB | | Horiz | ontal | Vert | ical | | | | | |
| Channel | Modulation | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) | | | | | |
| Lowest | | 1 | 37 | 24.74 | 0.2979 | 25.05 | 0.3199 | | | | | |
| Middle | QPSK | 1 | 0 | 25.20 | 0.3311 | 25.48 | 0.3532 | | | | | |
| Highest | | 1 | 0 | 25.32 | 0.3404 | 25.60 | 0.3631 | | | | | |
| Lowest | | 1 | 0 | 23.74 | 0.2366 | 24.06 | 0.2547 | | | | | |
| Middle | 16QAM | 1 | 0 | 24.46 | 0.2793 | 24.66 | 0.2924 | | | | | |
| Highest | | 1 | 37 | 24.54 | 0.2844 | 24.73 | 0.2972 | | | | | |
| Limit | EIRP < 1W | | | Res | sult | PASS | | | | | | |

| | LTE Band 4 / 20MHz (Average) | | | | | | | | | | | |
|---------|------------------------------|------|--------|-----------|---------|-----------|---------|--|--|--|--|--|
| Channel | Modulation | RB | | Horizo | ontal | Vertical | | | | | | |
| Channel | Wodulation | Size | Offset | EIRP(dBm) | EIRP(W) | EIRP(dBm) | EIRP(W) | | | | | |
| Lowest | | 1 | 49 | 24.64 | 0.2911 | 24.75 | 0.2985 | | | | | |
| Middle | QPSK | 1 | 49 | 25.64 | 0.3664 | 25.90 | 0.3890 | | | | | |
| Highest | | 1 | 49 | 25.52 | 0.3565 | 25.68 | 0.3698 | | | | | |
| Lowest | | 1 | 0 | 23.79 | 0.2393 | 24.09 | 0.2564 | | | | | |
| Middle | 16QAM | 1 | 0 | 24.60 | 0.2884 | 24.77 | 0.2999 | | | | | |
| Highest | | 1 | 0 | 24.58 | 0.2871 | 24.77 | 0.2999 | | | | | |
| Limit | EIRP < 1W | | | Res | sult | PASS | | | | | | |

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| | LTE Band 13 / 5MHz (Average) | | | | | | | | | | | |
|---------|------------------------------|------|--------|----------|--------|----------|--------|--|--|--|--|--|
| Channel | Modulation | RB | | Horizo | ontal | Vertical | | | | | | |
| Channel | Wiodulation | Size | Offset | ERP(dBm) | ERP(W) | ERP(dBm) | ERP(W) | | | | | |
| Lowest | | 1 | 12 | 18.02 | 0.0634 | 8.13 | 0.0065 | | | | | |
| Middle | QPSK | 1 | 24 | 16.98 | 0.0499 | 7.73 | 0.0059 | | | | | |
| Highest | | 1 | 12 | 17.19 | 0.0524 | 7.70 | 0.0059 | | | | | |
| Lowest | | 1 | 24 | 16.09 | 0.0406 | 6.71 | 0.0047 | | | | | |
| Middle | 16QAM | 1 | 24 | 16.12 | 0.0409 | 6.78 | 0.0048 | | | | | |
| Highest | | 1 | 12 | 16.03 | 0.0401 | 6.82 | 0.0048 | | | | | |
| Limit | ERP < 3W | | | Res | sult | PASS | | | | | | |

| | LTE Band 13 / 10MHz (Average) | | | | | | | | | | | |
|---------|-------------------------------|------|--------|----------|--------|----------|--------|--|--|--|--|--|
| Channel | Modulation | RB | | Horiz | ontal | Vert | ical | | | | | |
| Channel | Wodulation | Size | Offset | ERP(dBm) | ERP(W) | ERP(dBm) | ERP(W) | | | | | |
| Lowest | | 1 | 0 | - | - | - | - | | | | | |
| Middle | QPSK | 1 | 25 | 16.93 | 0.0493 | 7.50 | 0.0056 | | | | | |
| Highest | | 1 | 0 | - | - | - | - | | | | | |
| Lowest | | 1 | 0 | - | - | - | - | | | | | |
| Middle | 16QAM | 1 | 25 | 16.12 | 0.0409 | 6.71 | 0.0047 | | | | | |
| Highest | | 1 | 0 | - | - | - | - | | | | | |
| Limit | ERP < 3W | | | Res | sult | PASS | | | | | | |

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| | LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | | | | |
|---------|---|---------------|------------------|-------------------------|-------------------------|--------------------------|----------------------|-----------------------------|-----------------------|--|--|--|--|
| Channel | 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) | | | | |
| | 3463.92 | -47.50 | -13 | -34.50 | -60.33 | -54.69 | 0.81 | 8.00 | Н | | | | |
| | 5195.88 | -50.36 | -13 | -37.36 | -68.89 | -59.41 | 0.95 | 10.00 | Н | | | | |
| Middle | 6927.84 | -46.95 | -13 | -33.95 | -68.29 | -59.22 | 1.13 | 13.40 | Н | | | | |
| Middle | 3463.92 | -45.74 | -13 | -32.74 | -59.08 | -57.53 | 0.81 | 12.60 | V | | | | |
| | 5195.88 | -49.75 | -13 | -36.75 | -68.38 | -61.50 | 0.95 | 12.70 | V | | | | |
| | 6927.84 | -47.89 | -13 | -34.89 | -68.88 | -58.46 | 1.13 | 11.70 | V | | | | |

| | LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | | | | |
|---------|---|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------|-----------------------------|-----------------------|--|--|--|--|
| Channel | 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) | | | | |
| | 3462.48 | -47.84 | -13 | -34.84 | -60.67 | -55.03 | 0.81 | 8.00 | Н | | | | |
| | 5193.72 | -47.30 | -13 | -34.30 | -65.83 | -56.35 | 0.95 | 10.00 | Н | | | | |
| Middle | 6924.96 | -47.08 | -13 | -34.08 | -68.42 | -59.35 | 1.13 | 13.40 | Н | | | | |
| Middle | 3462.48 | -45.37 | -13 | -32.37 | -58.71 | -57.16 | 0.81 | 12.60 | V | | | | |
| | 5193.72 | -46.67 | -13 | -33.67 | -65.3 | -58.42 | 0.95 | 12.70 | V | | | | |
| | 6924.96 | -47.85 | -13 | -34.85 | -68.84 | -58.42 | 1.13 | 11.70 | V | | | | |

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

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| | LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | | | |
|---------|---|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------|-----------------------------|-----------------------|--|--|--|
| Channel | 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) | | | |
| | 3460.68 | -46.17 | -13 | -33.17 | -59.00 | -53.36 | 0.81 | 8.00 | Н | | | |
| | 5191.02 | -49.50 | -13 | -36.50 | -68.03 | -58.55 | 0.95 | 10.00 | Н | | | |
| Middle | 6921.36 | -47.14 | -13 | -34.14 | -68.48 | -59.41 | 1.13 | 13.40 | Н | | | |
| Middle | 3460.68 | -45.18 | -13 | -32.18 | -58.52 | -56.97 | 0.81 | 12.60 | V | | | |
| | 5191.02 | -49.93 | -13 | -36.93 | -68.56 | -61.68 | 0.95 | 12.70 | V | | | |
| | 6921.36 | -47.74 | -13 | -34.74 | -68.73 | -58.31 | 1.13 | 11.70 | V | | | |

| | LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | | | |
|---------|--|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------|-----------------------------|-----------------------|--|--|--|
| Channel | 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) | | | |
| | 3456.18 | -46.51 | -13 | -33.51 | -59.34 | -53.70 | 0.81 | 8.00 | Н | | | |
| | 5184.27 | -50.37 | -13 | -37.37 | -68.90 | -59.42 | 0.95 | 10.00 | Н | | | |
| Middle | 6912.36 | -47.49 | -13 | -34.49 | -68.83 | -59.76 | 1.13 | 13.40 | Н | | | |
| Middle | 3456.18 | -45.36 | -13 | -32.36 | -58.7 | -57.15 | 0.81 | 12.60 | V | | | |
| | 5184.27 | -50.10 | -13 | -37.10 | -68.73 | -61.85 | 0.95 | 12.70 | V | | | |
| | 6912.36 | -48.29 | -13 | -35.29 | -69.28 | -58.86 | 1.13 | 11.70 | V | | | |

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

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| | LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | | | |
|---------|--|---------------|------------------|-------------------------|-------------------------|--------------------------|----------------------|-----------------------------|-----------------------|--|--|--|
| Channel | 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) | | | |
| | 3451.68 | -47.64 | -13 | -34.64 | -60.47 | -54.83 | 0.81 | 8.00 | Н | | | |
| | 5177.52 | -49.55 | -13 | -36.55 | -68.08 | -58.60 | 0.95 | 10.00 | Н | | | |
| Middle | 6903.36 | -47.25 | -13 | -34.25 | -68.59 | -59.52 | 1.13 | 13.40 | Н | | | |
| Middle | 3451.68 | -45.64 | -13 | -32.64 | -58.98 | -57.43 | 0.81 | 12.60 | V | | | |
| | 5177.52 | -49.87 | -13 | -36.87 | -68.5 | -61.62 | 0.95 | 12.70 | V | | | |
| | 6903.36 | -48.18 | -13 | -35.18 | -69.17 | -58.75 | 1.13 | 11.70 | V | | | |

| | LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | | | |
|---------|--|---------------|------------------|-------------------------|-------------------------|--------------------------|----------------------|-----------------------------|-----------------------|--|--|--|
| Channel | 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) | | | |
| | 3447.18 | -47.99 | -13 | -34.99 | -60.82 | -55.18 | 0.81 | 8.00 | Н | | | |
| | 5170.77 | -50.07 | -13 | -37.07 | -68.60 | -59.12 | 0.95 | 10.00 | Н | | | |
| Middle | 6894.36 | -47.77 | -13 | -34.77 | -69.11 | -60.04 | 1.13 | 13.40 | Н | | | |
| Middle | 3447.18 | -45.83 | -13 | -32.83 | -59.17 | -57.62 | 0.81 | 12.60 | V | | | |
| | 5170.77 | -49.65 | -13 | -36.65 | -68.28 | -61.40 | 0.95 | 12.70 | V | | | |
| | 6894.36 | -47.54 | -13 | -34.54 | -68.53 | -58.11 | 1.13 | 11.70 | V | | | |

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

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| | LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | | | |
|---------|--|--------------|------------------|-------------------------|-------------------------|--------------------------|----------------------|-----------------------------|-----------------------|--|--|--|
| Channel | 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) | | | |
| | 1559.5 | -49.52 | -40 | -9.52 | -53.00 | -53.34 | 0.53 | 6.50 | Н | | | |
| | 2339.25 | -59.78 | -13 | -46.78 | -65.20 | -62.65 | 0.68 | 5.70 | Н | | | |
| Middle | 3119 | -56.35 | -13 | -43.35 | -66.37 | -61.39 | 0.81 | 8.00 | Н | | | |
| Middle | 1559.5 | -52.53 | -40 | -12.53 | -56.00 | -56.35 | 0.53 | 6.50 | V | | | |
| | 2339.25 | -60.98 | -13 | -47.98 | -65.30 | -63.85 | 0.68 | 5.70 | V | | | |
| | 3119 | -56.76 | -13 | -43.76 | -65.77 | -61.80 | 0.81 | 8.00 | V | | | |

| | LTE Band 13 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | | | |
|---------|---|--------------|------------------|-------------------------|-------------------------|--------------------------|----------------------|-----------------------------|-----------------------|--|--|--|
| Channel | 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) | | | |
| | 1555.18 | -55.40 | -13 | -42.40 | -57.95 | -59.22 | 0.53 | 6.50 | Н | | | |
| | 2332.77 | -59.28 | -13 | -46.28 | -64.70 | -62.15 | 0.68 | 5.70 | Н | | | |
| Middle | 3110.36 | -56.00 | -13 | -43.00 | -66.02 | -61.04 | 0.81 | 8.00 | Н | | | |
| Middle | 1555.18 | -55.92 | -13 | -42.92 | -58.83 | -59.74 | 0.53 | 6.50 | V | | | |
| | 2332.77 | -60.99 | -13 | -47.99 | -65.31 | -63.86 | 0.68 | 5.70 | V | | | |
| | 3110.36 | -57.19 | -13 | -44.19 | -66.20 | -62.23 | 0.81 | 8.00 | V | | | |

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

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