

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

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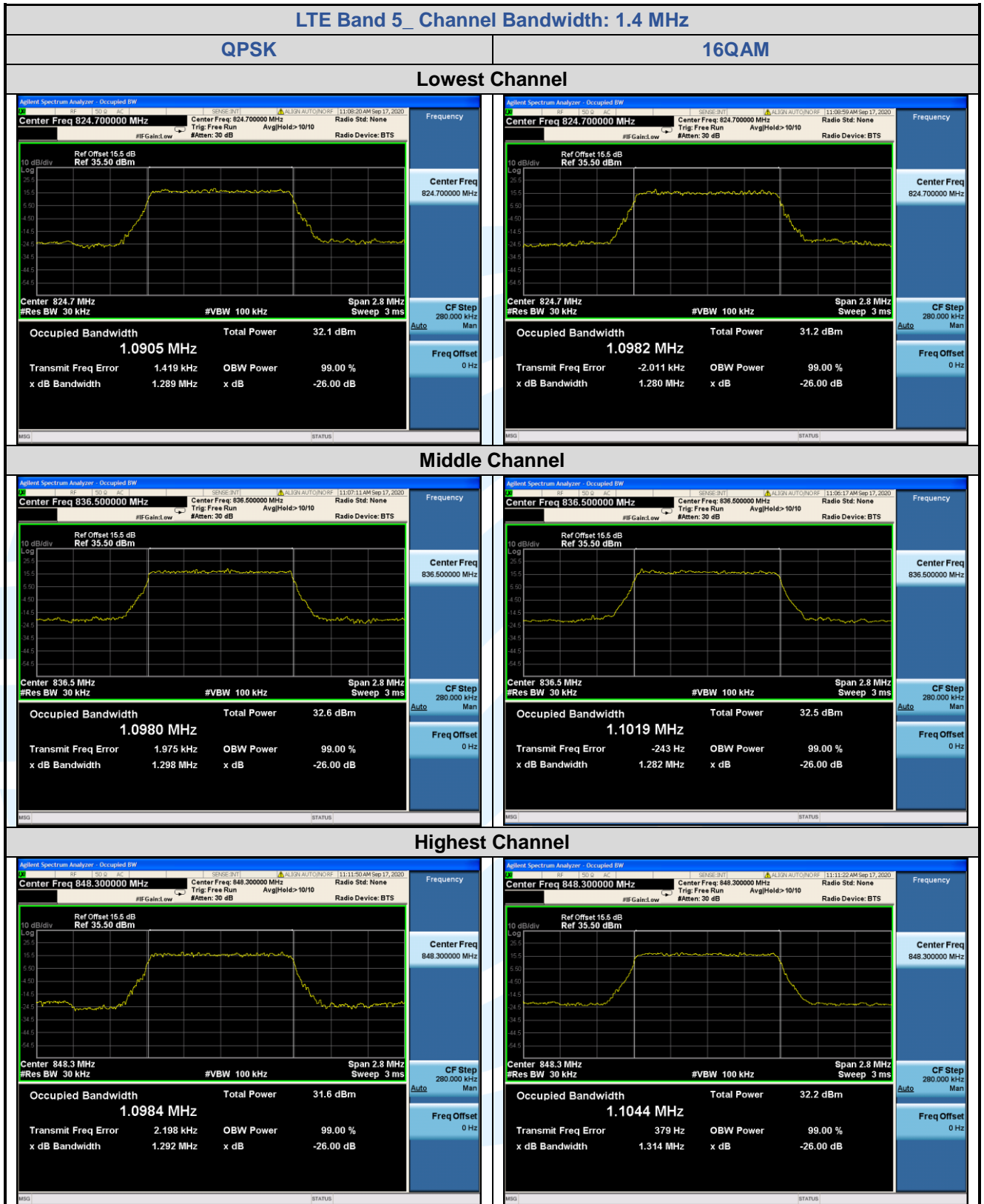
E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-FCC4G-V1.1

5.5.3 LTE Band 5

| LTE Band 5 | | | | | | | | |
|-----------------------------------|------------------|--------|----------------|-------|-------|--------------|--------|-------|
| Channel | RB Configuration | | 26 dB BW (MHz) | | | 99% BW (MHz) | | |
| | Size | Offset | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| Channel Bandwidth: 1.4 MHz | | | | | | | | |
| Lowest | 6 | 0 | 1.289 | 1.280 | / | 1.0905 | 1.0982 | / |
| Middle | 6 | 0 | 1.298 | 1.282 | / | 1.0980 | 1.1019 | / |
| Highest | 6 | 0 | 1.292 | 1.314 | / | 1.0984 | 1.1044 | / |
| Channel Bandwidth: 3 MHz | | | | | | | | |
| Lowest | 15 | 0 | 2.947 | 2.981 | / | 2.6878 | 2.7060 | / |
| Middle | 15 | 0 | 2.976 | 2.913 | / | 2.7030 | 2.6825 | / |
| Highest | 15 | 0 | 2.979 | 3.006 | / | 2.6993 | 2.6963 | / |
| Channel Bandwidth: 5 MHz | | | | | | | | |
| Lowest | 25 | 0 | 4.996 | 4.999 | / | 4.5108 | 4.5132 | / |
| Middle | 25 | 0 | 4.957 | 5.022 | / | 4.5065 | 4.5202 | / |
| Highest | 25 | 0 | 5.020 | 4.986 | / | 4.5109 | 4.5260 | / |
| Channel Bandwidth: 10 MHz | | | | | | | | |
| Lowest | 50 | 0 | 9.880 | 9.835 | / | 8.9655 | 8.9702 | / |
| Middle | 50 | 0 | 9.942 | 10.06 | / | 9.0106 | 9.0245 | / |
| Highest | 50 | 0 | 9.820 | 9.779 | / | 8.9280 | 8.9355 | / |



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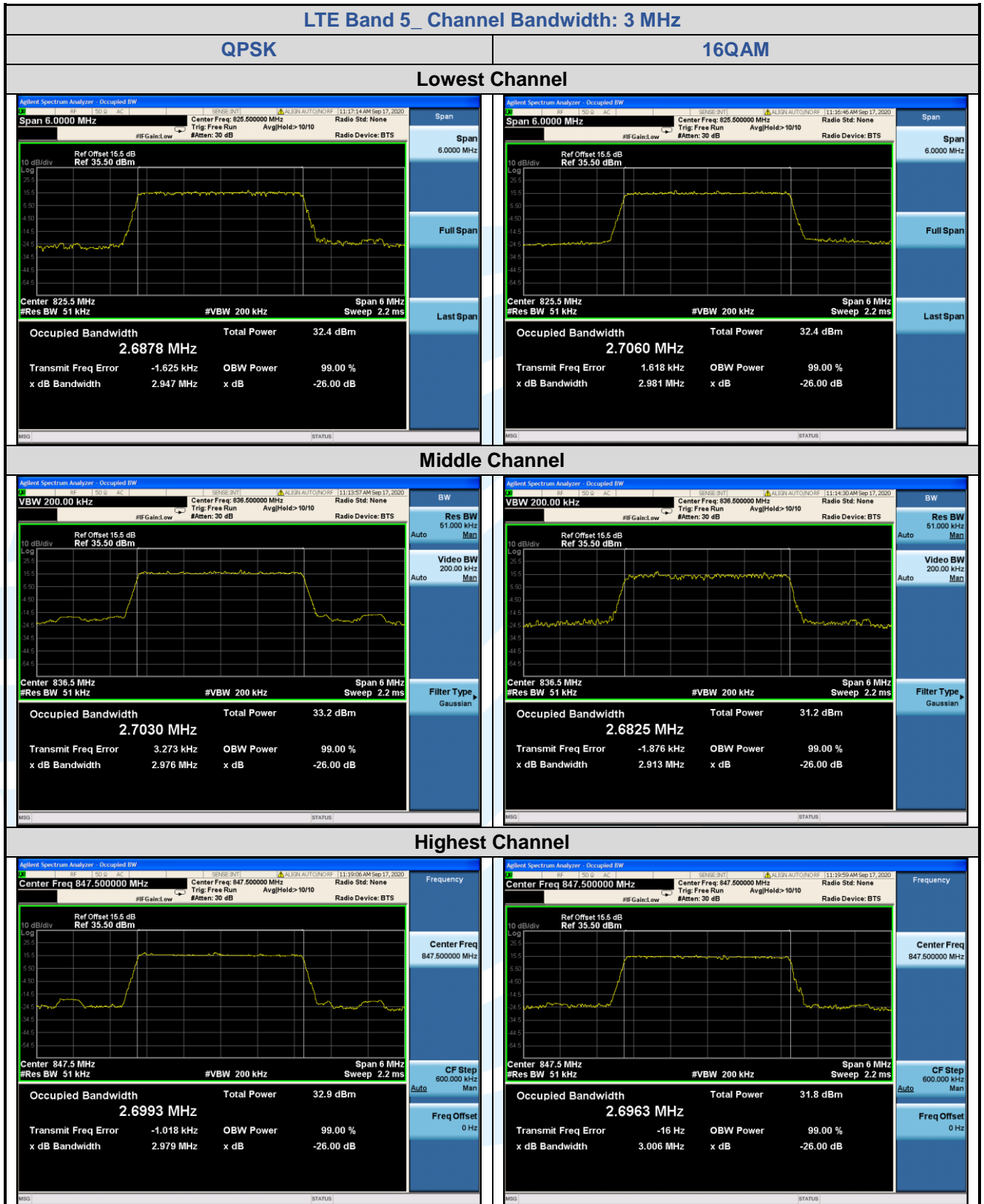
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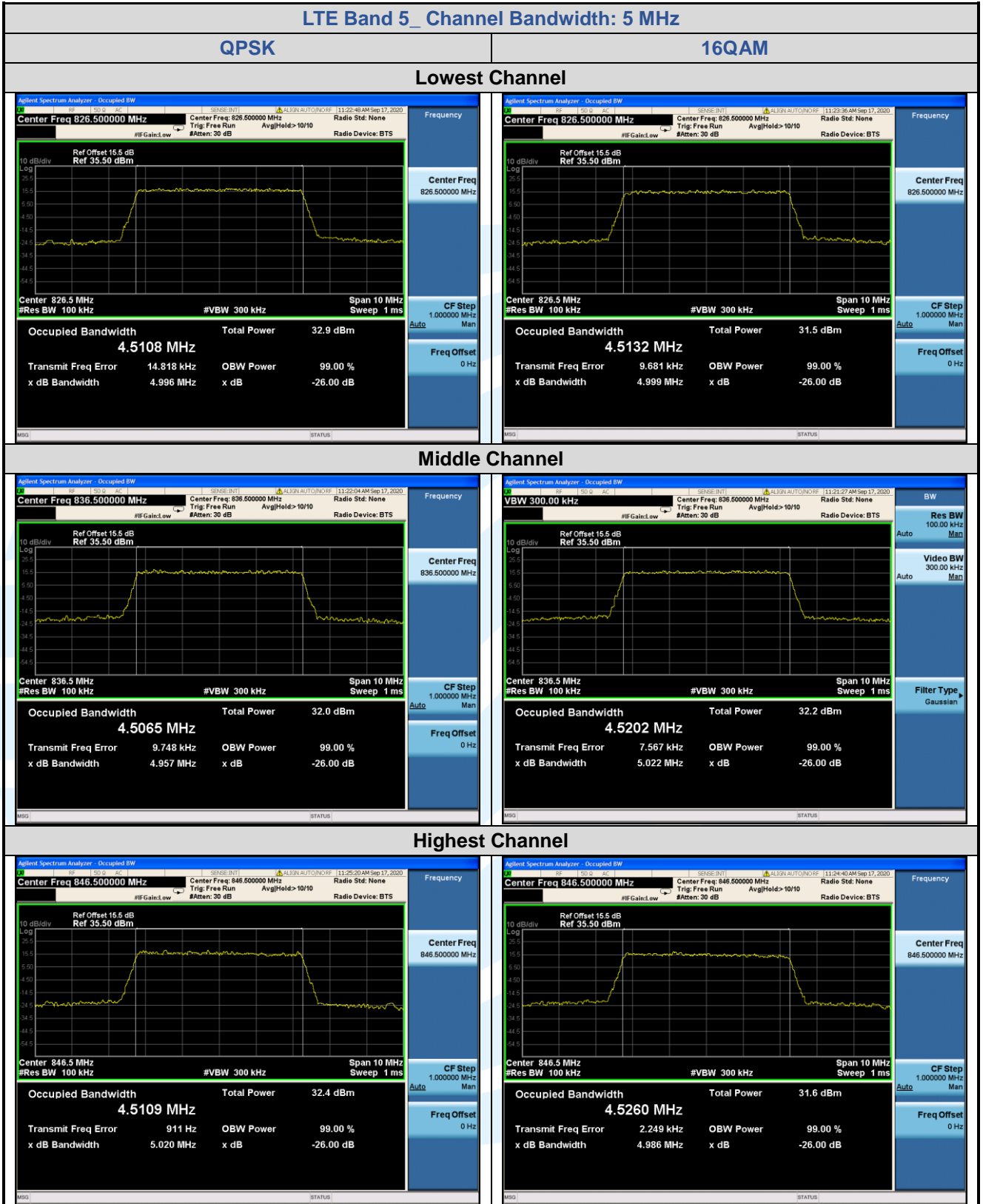
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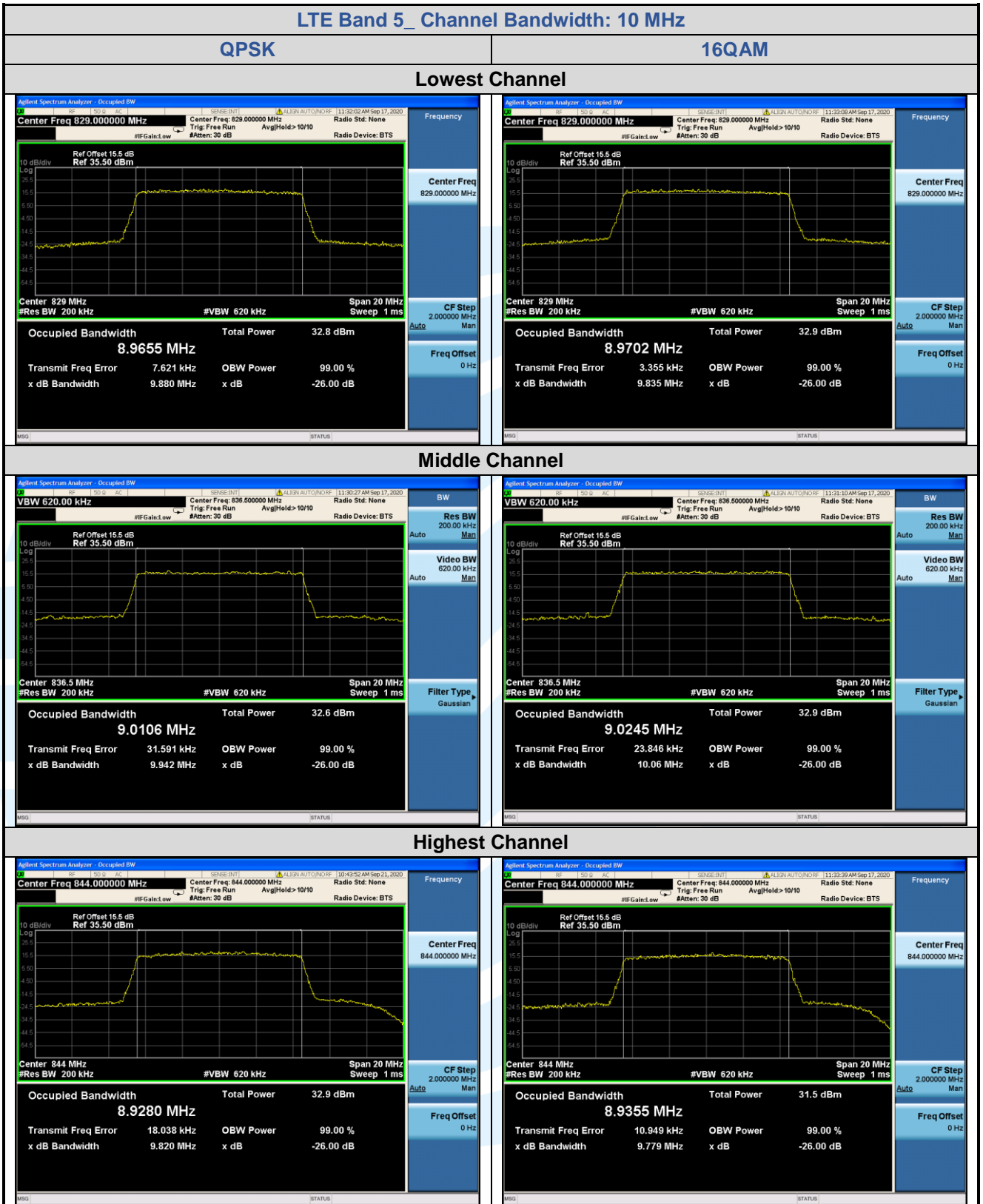
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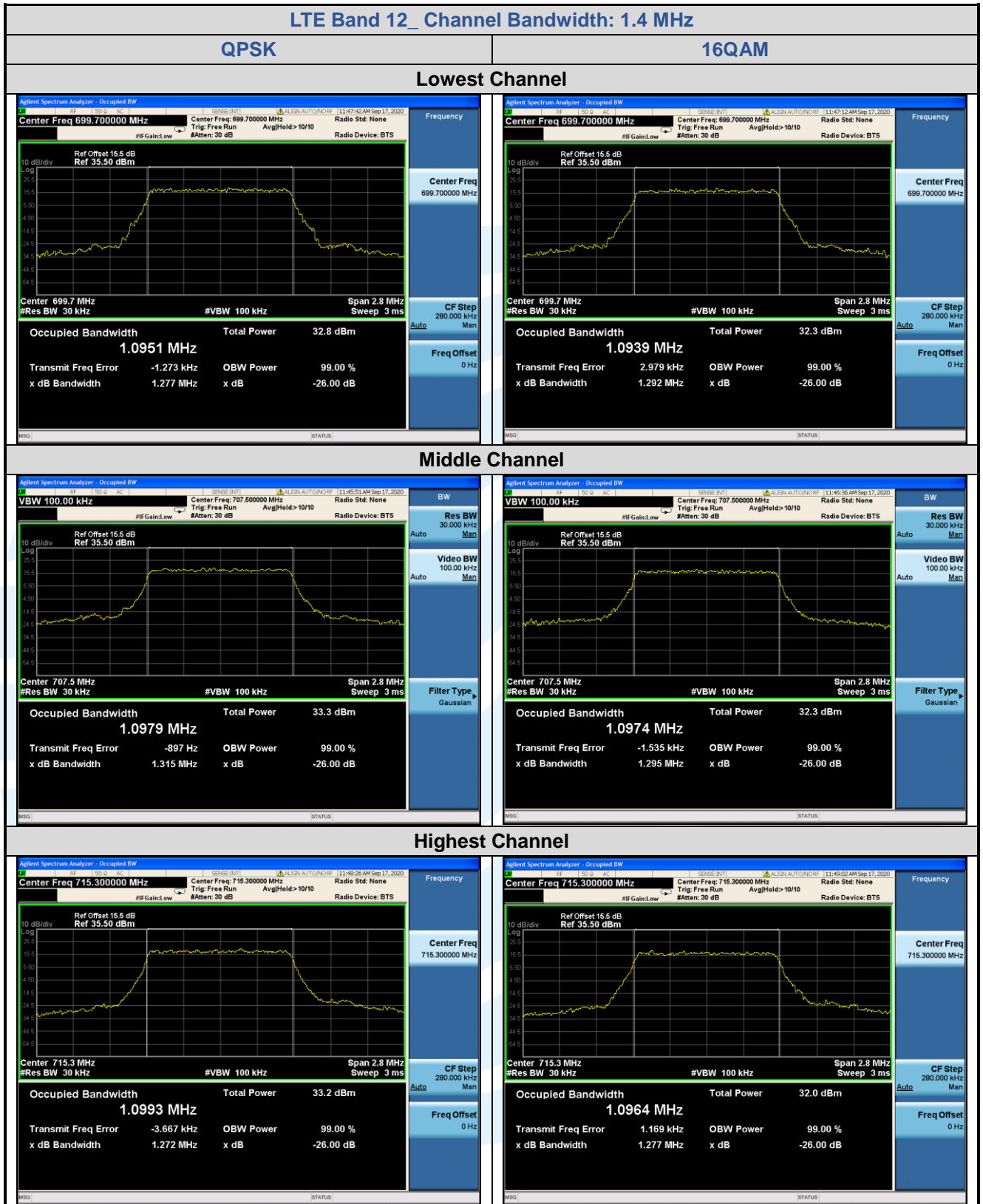
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5.5.4 LTE Band 12

| LTE Band 12 | | | | | | | | |
|-----------------------------------|------------------|--------|----------------|-------|-------|--------------|--------|-------|
| Channel | RB Configuration | | 26 dB BW (MHz) | | | 99% BW (MHz) | | |
| | Size | Offset | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| Channel Bandwidth: 1.4 MHz | | | | | | | | |
| Lowest | 6 | 0 | 1.277 | 1.292 | / | 1.0951 | 1.0939 | / |
| Middle | 6 | 0 | 1.315 | 1.295 | / | 1.0979 | 1.0974 | / |
| Highest | 6 | 0 | 1.272 | 1.277 | / | 1.0993 | 1.0964 | / |
| Channel Bandwidth: 3 MHz | | | | | | | | |
| Lowest | 15 | 0 | 2.969 | 2.979 | / | 2.6973 | 2.7000 | / |
| Middle | 15 | 0 | 2.976 | 2.996 | / | 2.6982 | 2.7061 | / |
| Highest | 15 | 0 | 2.986 | 2.973 | / | 2.7036 | 2.7073 | / |
| Channel Bandwidth: 5 MHz | | | | | | | | |
| Lowest | 25 | 0 | 4.958 | 5.018 | / | 4.5159 | 4.5166 | / |
| Middle | 25 | 0 | 4.920 | 4.978 | / | 4.5084 | 4.5088 | / |
| Highest | 25 | 0 | 5.014 | 5.015 | / | 4.5217 | 4.5218 | / |
| Channel Bandwidth: 10 MHz | | | | | | | | |
| Lowest | 50 | 0 | 9.883 | 9.887 | / | 8.9424 | 8.9691 | / |
| Middle | 50 | 0 | 9.819 | 9.811 | / | 8.9805 | 8.9715 | / |
| Highest | 50 | 0 | 9.841 | 9.932 | / | 9.0164 | 8.9957 | / |



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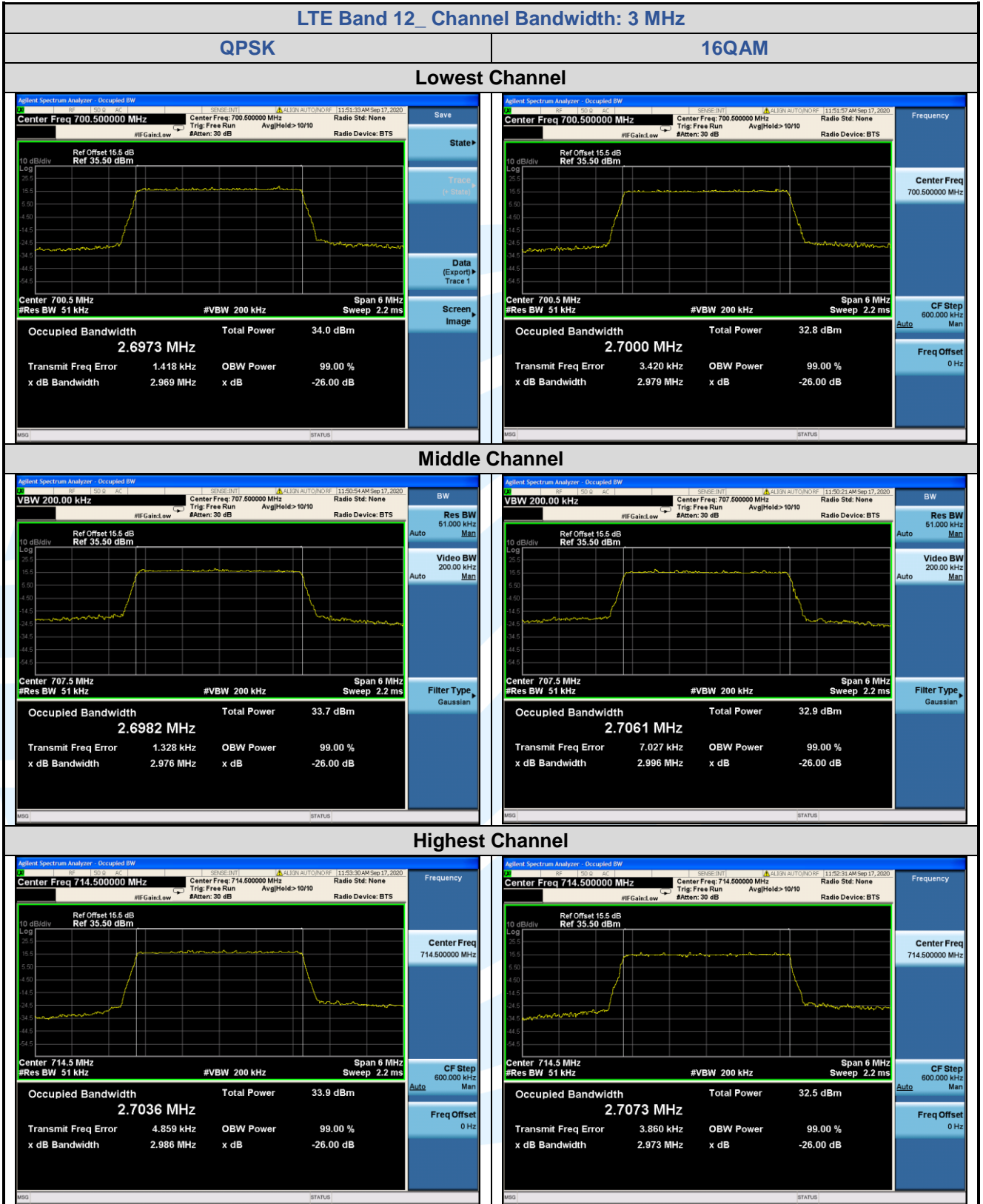
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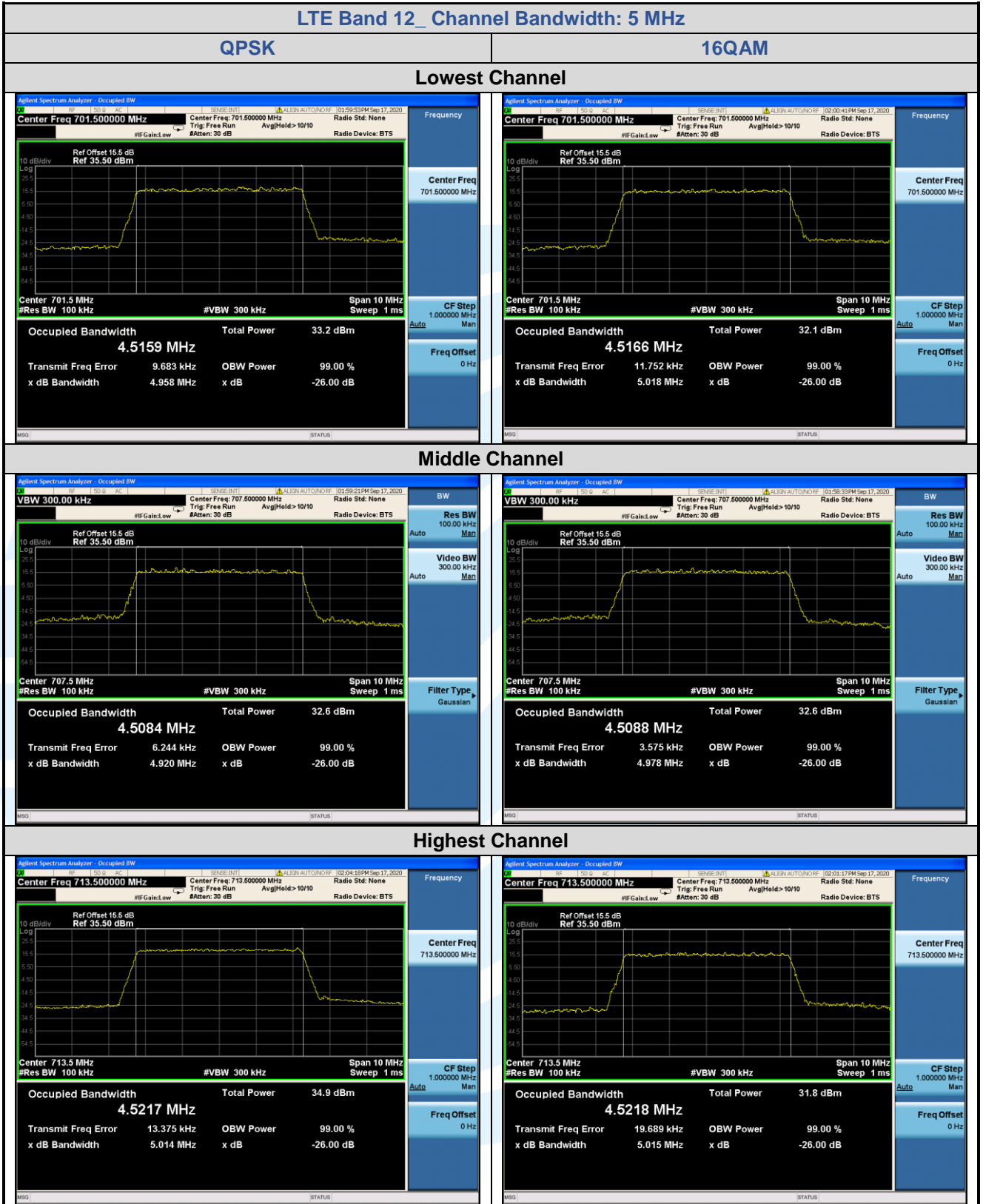
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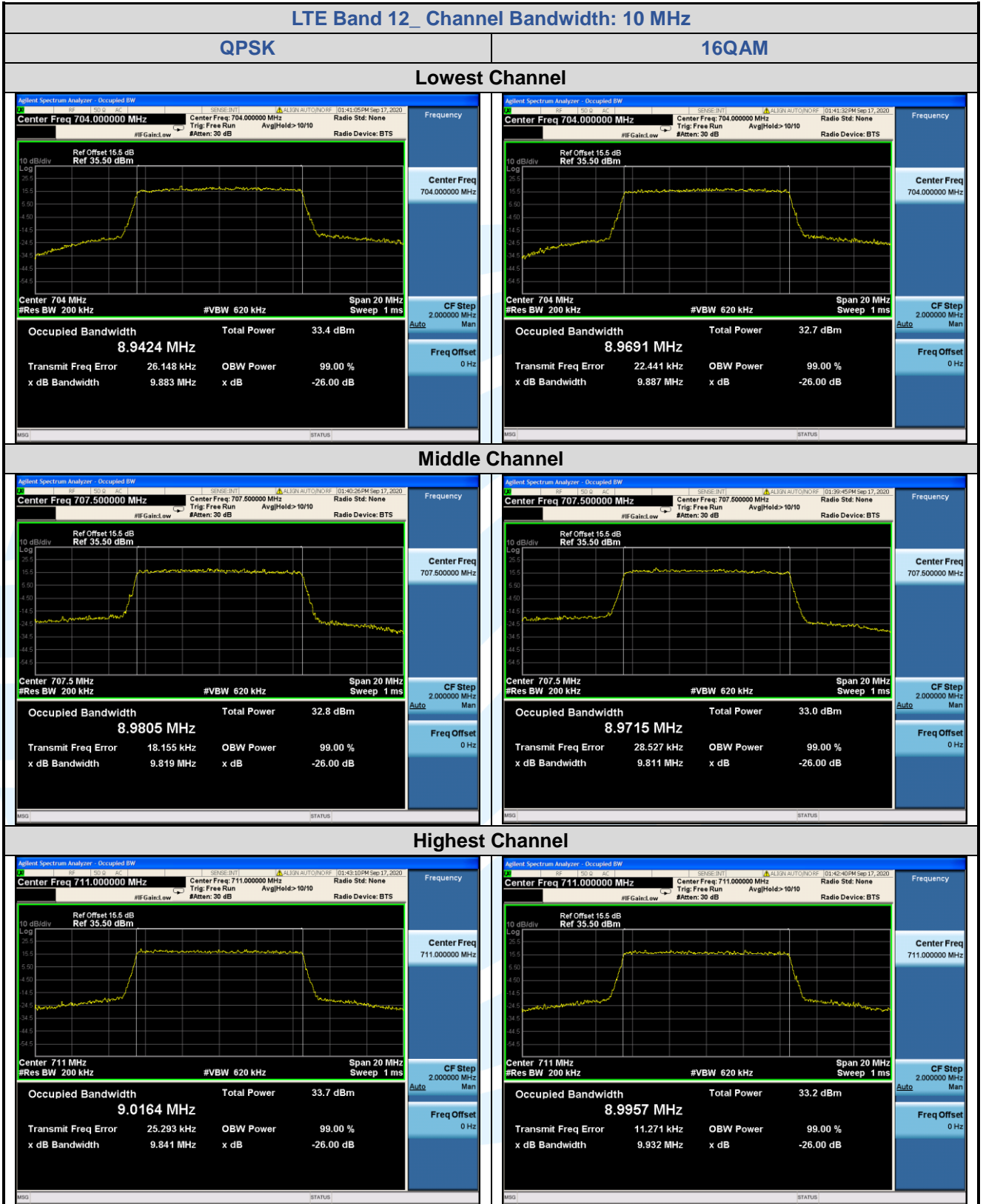
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5.5.5 LTE Band 13

| LTE Band 13 | | | | | | | | |
|----------------------------------|------------------|--------|----------------|-------|-------|--------------|--------|-------|
| Channel | RB Configuration | | 26 dB BW (MHz) | | | 99% BW (MHz) | | |
| | Size | Offset | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| Channel Bandwidth: 5 MHz | | | | | | | | |
| Lowest | 25 | 0 | 4.984 | 5.007 | / | 4.5279 | 4.5119 | / |
| Middle | 25 | 0 | 5.006 | 4.974 | / | 4.4926 | 4.5123 | / |
| Highest | 25 | 0 | 5.022 | 5.001 | / | 4.5237 | 4.5336 | / |
| Channel Bandwidth: 10 MHz | | | | | | | | |
| Lowest | 50 | 0 | / | / | / | / | / | / |
| Middle | 50 | 0 | 9.833 | 9.784 | / | 8.9627 | 8.9468 | / |
| Highest | 50 | 0 | / | / | / | / | / | / |