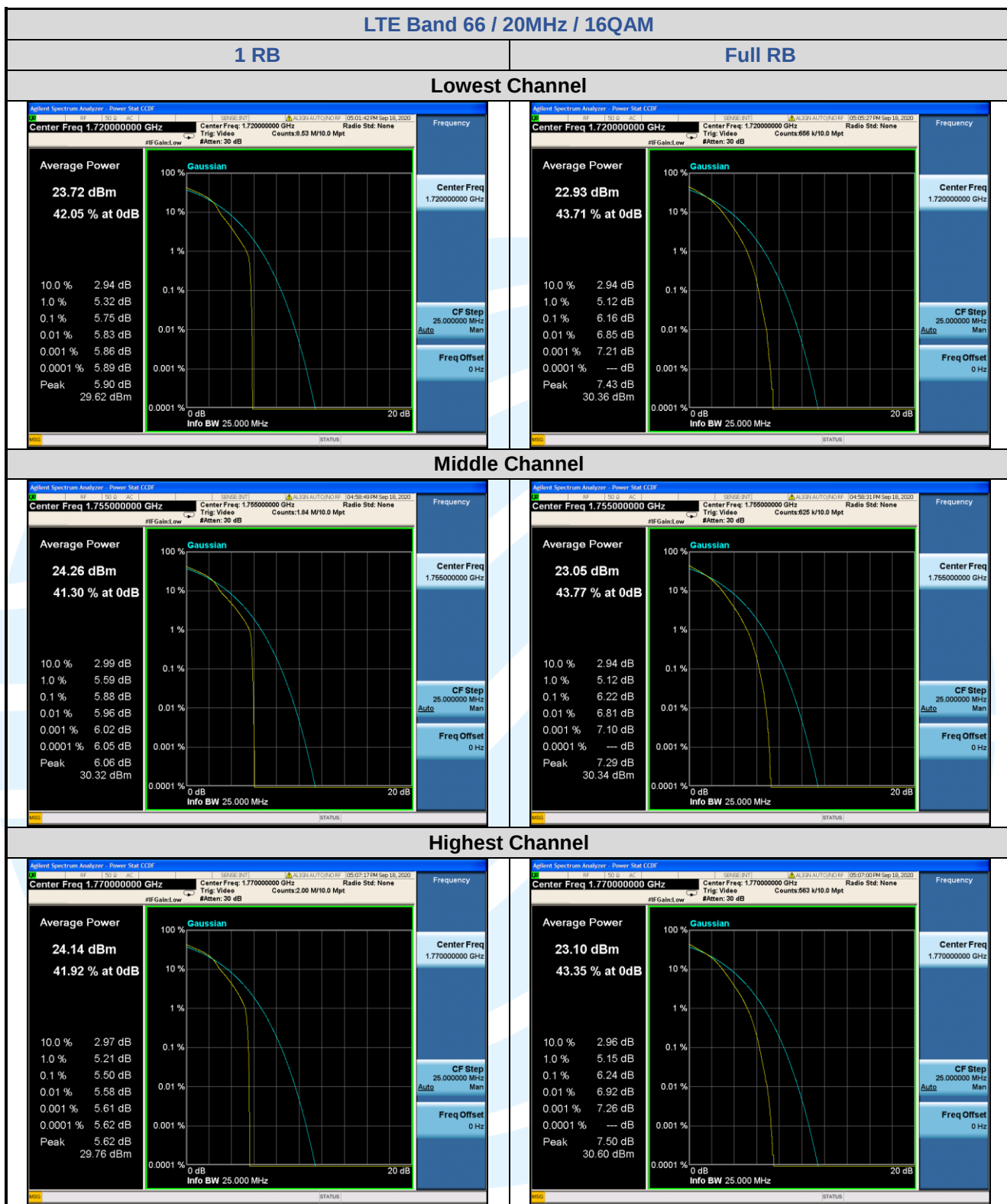




## 5.5 99%&26DB BANDWIDTH

**Test Requirement:** FCC 47 CFR Part 2.1049(h), RSS-Gen Issue 5, Section 6.7

**Test Method:** ANSI C63.26-2015 & KDB 971168 D01v03r01 Section 4

**Limit:** No Limit, for reporting purposes only.

### Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

**Test Setup:** Refer to section 4.2.2 for details.

**Instruments Used:** Refer to section 3 for details

**Test Mode:** Link mode

**Test Results:** Pass

**Test Data:** See table below

### 5.5.1 LTE Band 2

| LTE Band 2                 |                  |        |                |       |       |              |        |       |
|----------------------------|------------------|--------|----------------|-------|-------|--------------|--------|-------|
| 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      | 1.310          | 1.312 | /     | 1.1038       | 1.1033 | /     |
| Middle                     | 6                | 0      | 1.314          | 1.301 | /     | 1.1001       | 1.1021 | /     |
| Highest                    | 6                | 0      | 1.292          | 1.311 | /     | 1.1084       | 1.0982 | /     |
| Channel Bandwidth: 3 MHz   |                  |        |                |       |       |              |        |       |
| Lowest                     | 15               | 0      | 3.001          | 3.000 | /     | 2.7071       | 2.7047 | /     |
| Middle                     | 15               | 0      | 2.998          | 2.982 | /     | 2.7050       | 2.7032 | /     |
| Highest                    | 15               | 0      | 2.963          | 2.995 | /     | 2.6999       | 2.7119 | /     |
| Channel Bandwidth: 5 MHz   |                  |        |                |       |       |              |        |       |
| Lowest                     | 25               | 0      | 5.032          | 4.996 | /     | 4.5338       | 4.5140 | /     |
| Middle                     | 25               | 0      | 5.056          | 5.024 | /     | 4.5187       | 4.5234 | /     |
| Highest                    | 25               | 0      | 5.008          | 5.016 | /     | 4.5324       | 4.5258 | /     |
| Channel Bandwidth: 10 MHz  |                  |        |                |       |       |              |        |       |
| Lowest                     | 50               | 0      | 9.896          | 9.945 | /     | 8.9768       | 8.9680 | /     |
| Middle                     | 50               | 0      | 9.926          | 9.989 | /     | 8.9809       | 8.9949 | /     |
| Highest                    | 50               | 0      | 10.02          | 9.851 | /     | 8.9839       | 8.9855 | /     |
| Channel Bandwidth: 15 MHz  |                  |        |                |       |       |              |        |       |
| Lowest                     | 75               | 0      | 14.77          | 14.78 | /     | 13.446       | 13.455 | /     |
| Middle                     | 75               | 0      | 14.73          | 14.80 | /     | 13.407       | 13.471 | /     |
| Highest                    | 75               | 0      | 14.75          | 14.83 | /     | 13.457       | 13.476 | /     |
| Channel Bandwidth: 20 MHz  |                  |        |                |       |       |              |        |       |
| Lowest                     | 100              | 0      | 19.43          | 19.55 | /     | 17.920       | 17.914 | /     |
| Middle                     | 100              | 0      | 19.65          | 19.61 | /     | 17.931       | 17.934 | /     |
| Highest                    | 100              | 0      | 19.48          | 19.52 | /     | 17.946       | 17.969 | /     |

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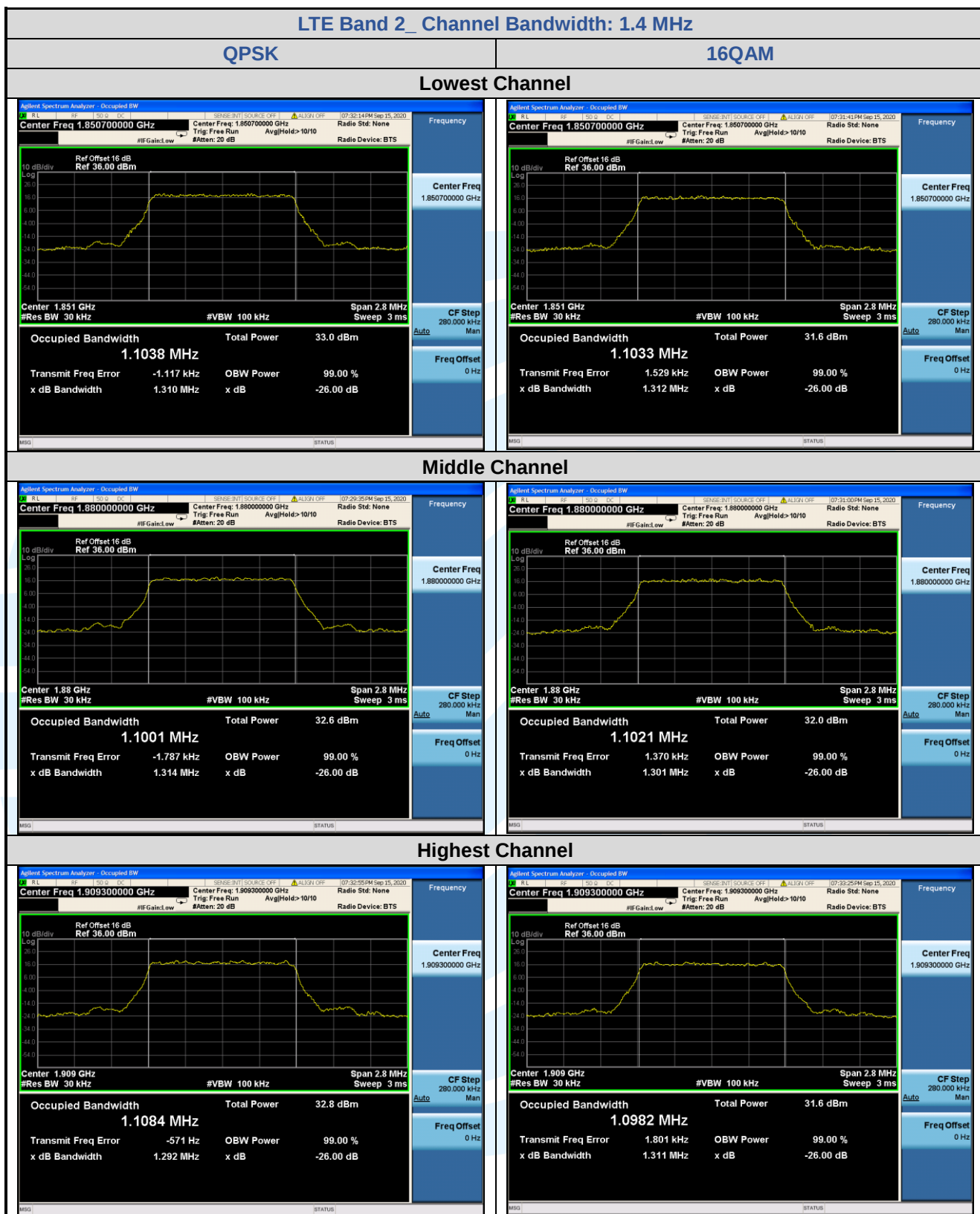
Tel: +86-755-28230888

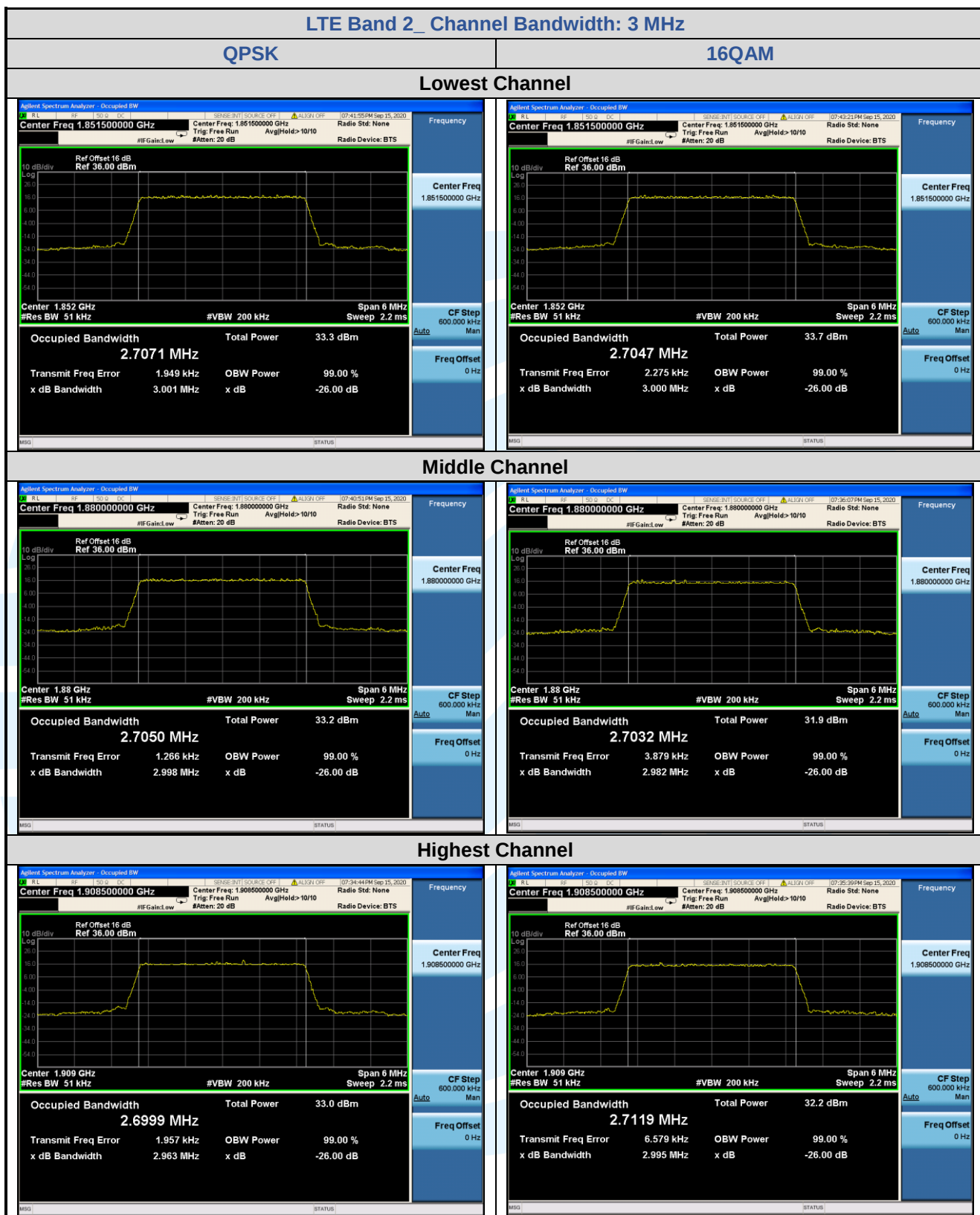
Fax: +86-755-28230886

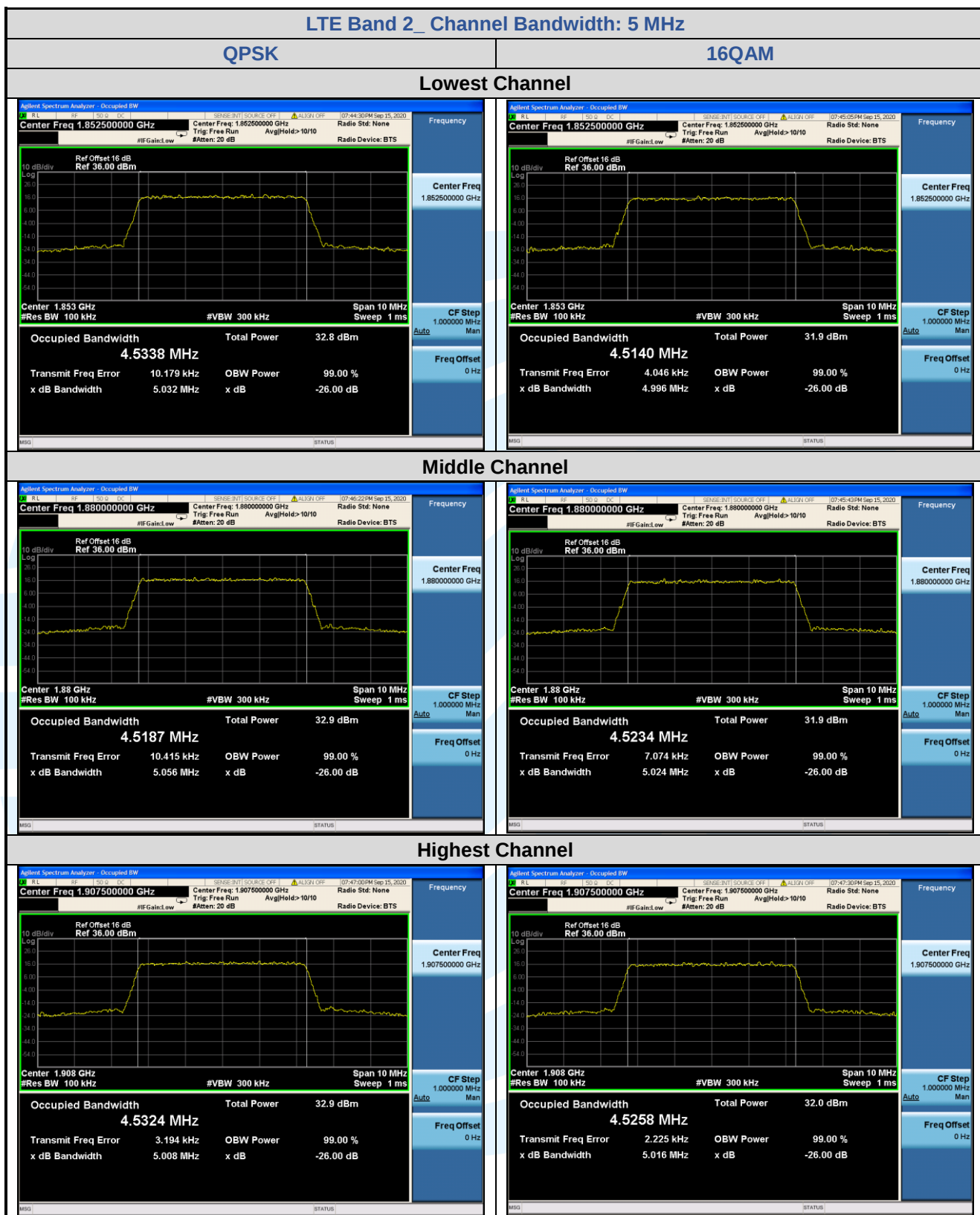
E-mail: info@uttlab.com

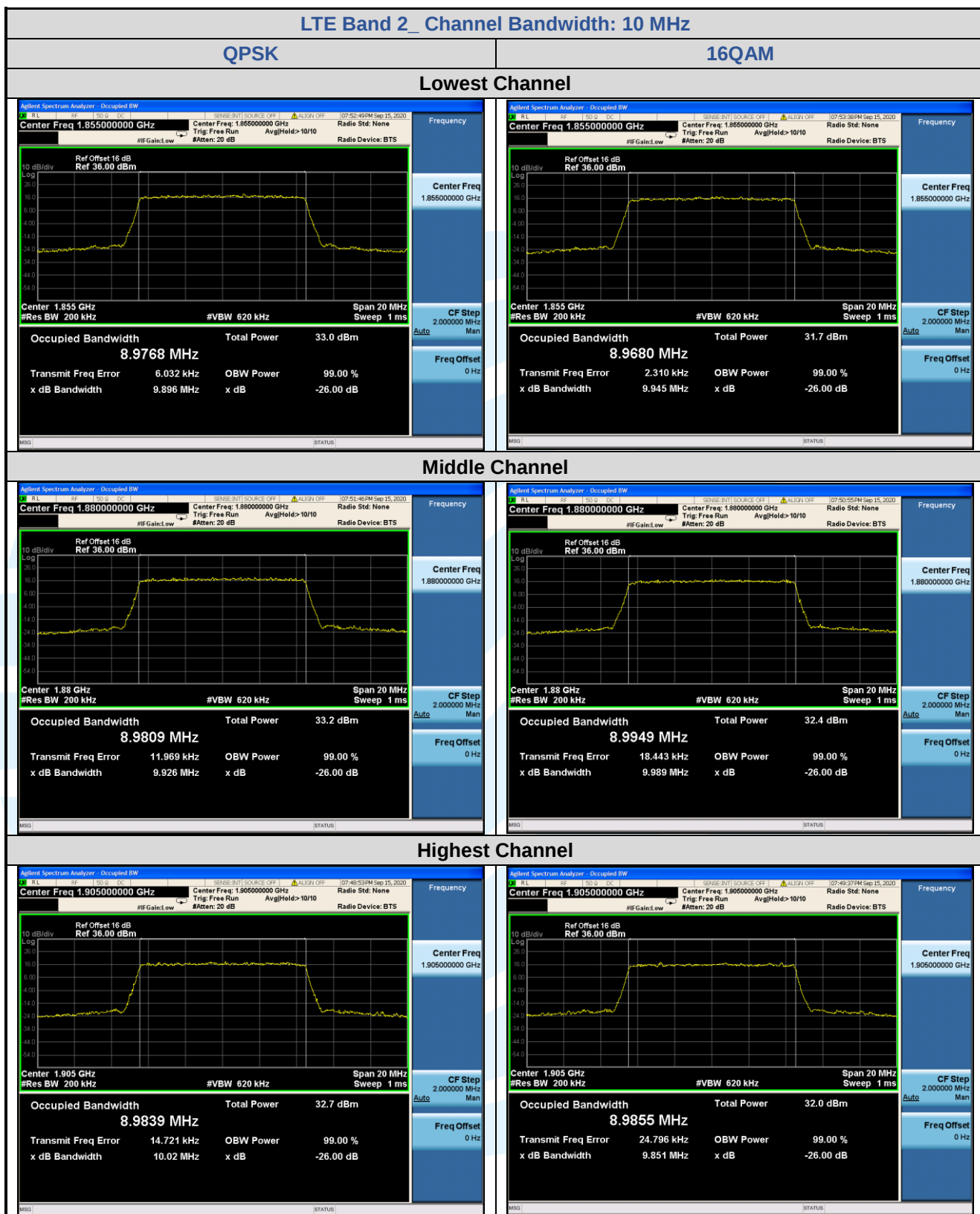
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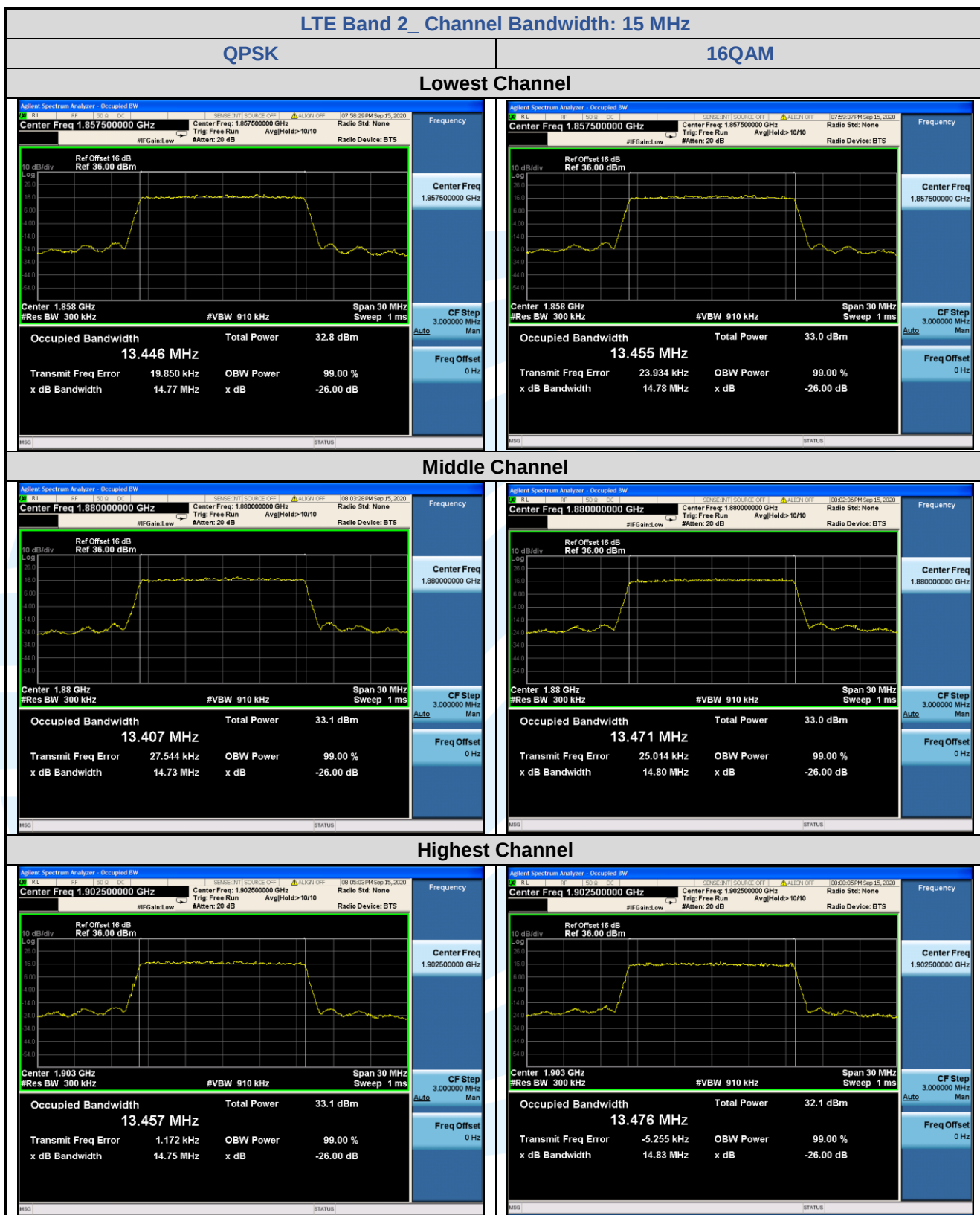
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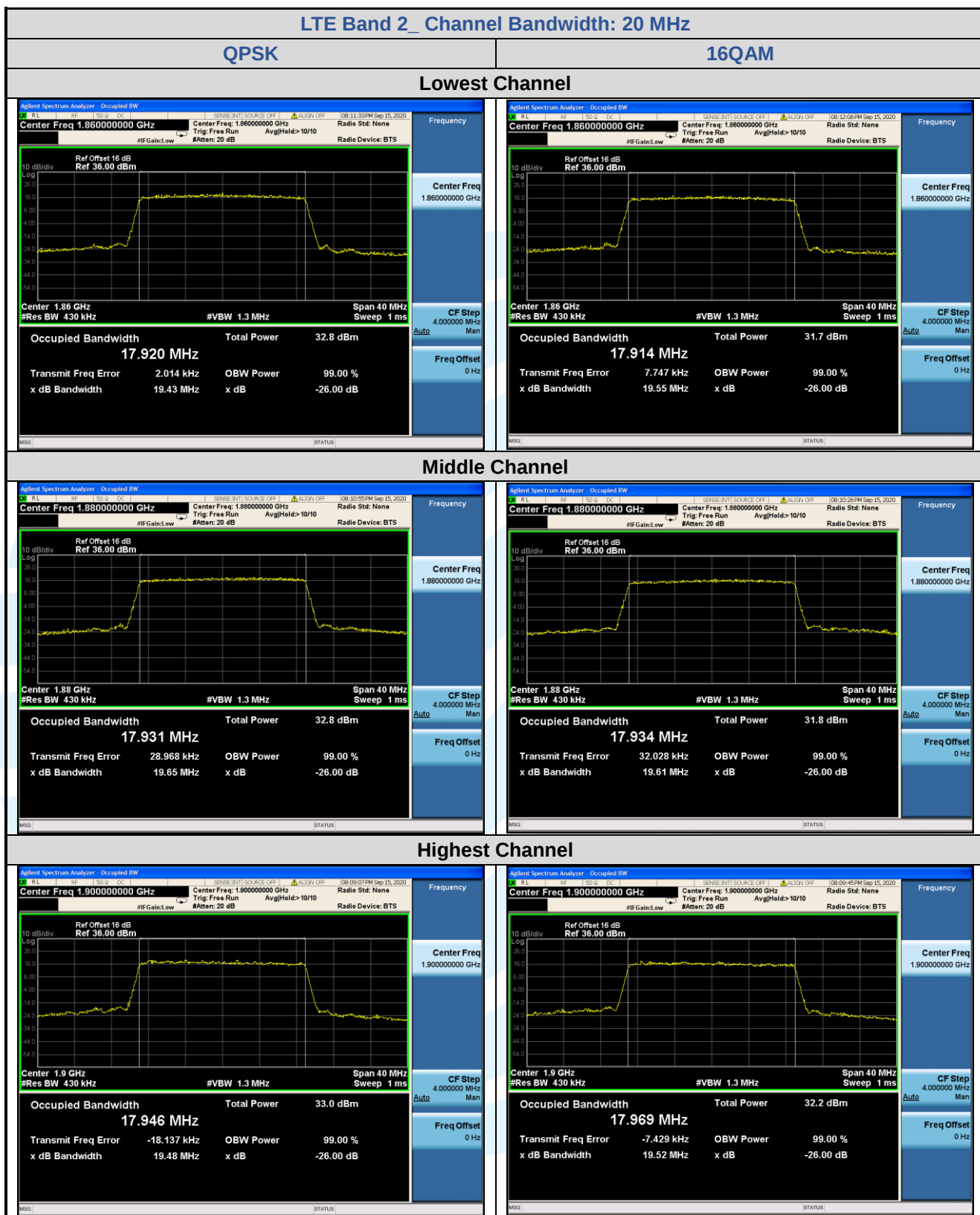












### 5.5.2 LTE Band 4

| LTE Band 4                 |                  |        |                |       |       |              |        |       |
|----------------------------|------------------|--------|----------------|-------|-------|--------------|--------|-------|
| 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      | 1.332          | 1.282 | /     | 1.0991       | 1.0996 | /     |
| Middle                     | 6                | 0      | 1.308          | 1.297 | /     | 1.1022       | 1.0989 | /     |
| Highest                    | 6                | 0      | 1.315          | 1.300 | /     | 1.1050       | 1.0997 | /     |
| Channel Bandwidth: 3 MHz   |                  |        |                |       |       |              |        |       |
| Lowest                     | 15               | 0      | 2.991          | 2.979 | /     | 2.7012       | 2.6894 | /     |
| Middle                     | 15               | 0      | 2.975          | 2.986 | /     | 2.6934       | 2.7042 | /     |
| Highest                    | 15               | 0      | 2.974          | 2.993 | /     | 2.7036       | 2.7054 | /     |
| Channel Bandwidth: 5 MHz   |                  |        |                |       |       |              |        |       |
| Lowest                     | 25               | 0      | 5.012          | 5.032 | /     | 4.5065       | 4.5340 | /     |
| Middle                     | 25               | 0      | 5.031          | 5.012 | /     | 4.5246       | 4.5368 | /     |
| Highest                    | 25               | 0      | 4.990          | 5.013 | /     | 4.5122       | 4.5180 | /     |
| Channel Bandwidth: 10 MHz  |                  |        |                |       |       |              |        |       |
| Lowest                     | 50               | 0      | 9.897          | 9.843 | /     | 8.9512       | 8.9539 | /     |
| Middle                     | 50               | 0      | 9.975          | 9.917 | /     | 8.9776       | 9.0049 | /     |
| Highest                    | 50               | 0      | 9.902          | 9.847 | /     | 8.9707       | 8.9592 | /     |
| Channel Bandwidth: 15 MHz  |                  |        |                |       |       |              |        |       |
| Lowest                     | 75               | 0      | 14.58          | 14.60 | /     | 13.417       | 13.431 | /     |
| Middle                     | 75               | 0      | 14.70          | 14.58 | /     | 13.472       | 13.471 | /     |
| Highest                    | 75               | 0      | 14.61          | 14.51 | /     | 13.479       | 13.439 | /     |
| Channel Bandwidth: 20 MHz  |                  |        |                |       |       |              |        |       |
| Lowest                     | 100              | 0      | 19.32          | 19.40 | /     | 17.803       | 17.885 | /     |
| Middle                     | 100              | 0      | 19.39          | 19.39 | /     | 17.961       | 17.965 | /     |
| Highest                    | 100              | 0      | 19.48          | 19.31 | /     | 17.923       | 17.906 | /     |

