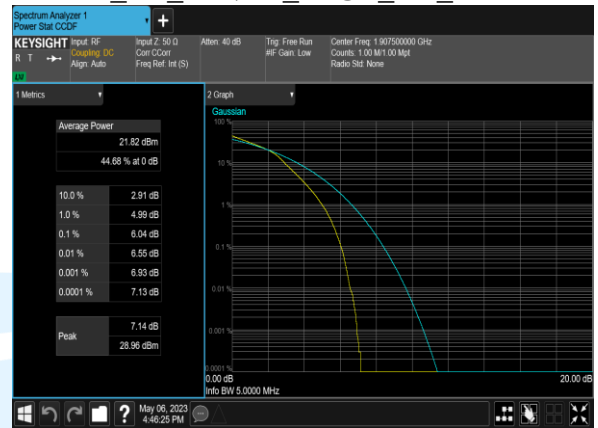


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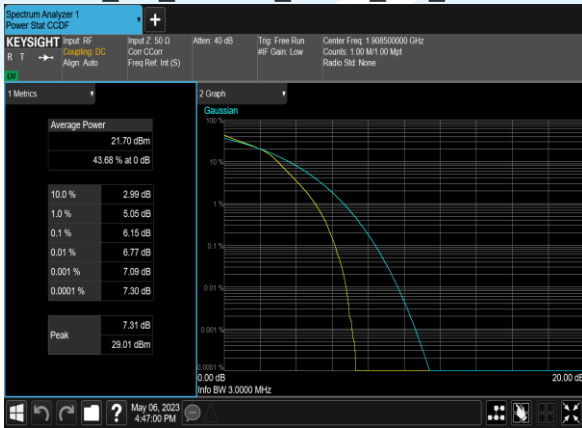
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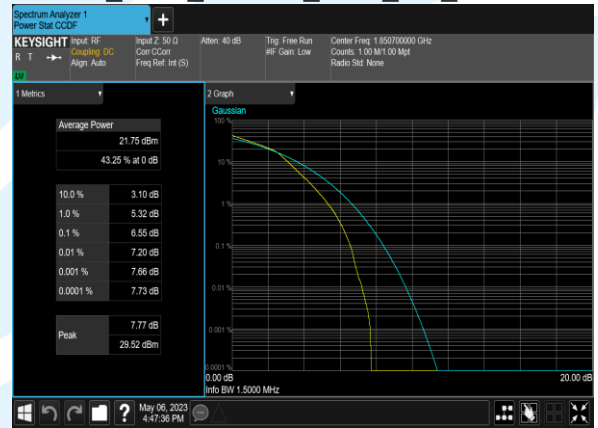
B2\_3M\_64QAM\_15@0\_CH\_18900



B2\_3M\_64QAM\_15@0\_CH\_19185



B2\_1.4M\_64QAM\_6@0\_CH\_18607



B2\_1.4M\_64QAM\_6@0\_CH\_18900



B2\_1.4M\_64QAM\_6@0\_CH\_19193



**Occupied Bandwidth**

| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB    | OBW (MHz) | 26dB BW (MHz) |
|------|-----------------|---------|------------|------------|-------|-----------|---------------|
| 2    | 20.0            | 18700   | 1860.0     | QPSK       | 100@0 | 17.829    | 18.75         |
| 2    | 20.0            | 18700   | 1860.0     | 16QAM      | 100@0 | 17.868    | 18.60         |
| 2    | 20.0            | 18900   | 1880.0     | QPSK       | 100@0 | 17.864    | 19.10         |
| 2    | 20.0            | 18900   | 1880.0     | 16QAM      | 100@0 | 17.870    | 18.73         |
| 2    | 20.0            | 19100   | 1900.0     | QPSK       | 100@0 | 17.797    | 18.63         |
| 2    | 20.0            | 19100   | 1900.0     | 16QAM      | 100@0 | 17.804    | 18.69         |
| 2    | 15.0            | 18675   | 1857.5     | QPSK       | 75@0  | 13.411    | 14.39         |
| 2    | 15.0            | 18675   | 1857.5     | 16QAM      | 75@0  | 13.414    | 14.14         |
| 2    | 15.0            | 18900   | 1880.0     | QPSK       | 75@0  | 13.395    | 14.11         |
| 2    | 15.0            | 18900   | 1880.0     | 16QAM      | 75@0  | 13.429    | 14.19         |
| 2    | 15.0            | 19125   | 1902.5     | QPSK       | 75@0  | 13.380    | 14.18         |
| 2    | 15.0            | 19125   | 1902.5     | 16QAM      | 75@0  | 13.379    | 14.18         |
| 2    | 10.0            | 18650   | 1855.0     | QPSK       | 50@0  | 8.9254    | 9.521         |
| 2    | 10.0            | 18650   | 1855.0     | 16QAM      | 50@0  | 8.9649    | 9.494         |
| 2    | 10.0            | 18900   | 1880.0     | QPSK       | 50@0  | 8.9335    | 9.572         |
| 2    | 10.0            | 18900   | 1880.0     | 16QAM      | 50@0  | 8.9338    | 9.564         |
| 2    | 10.0            | 19150   | 1905.0     | QPSK       | 50@0  | 8.9325    | 9.497         |
| 2    | 10.0            | 19150   | 1905.0     | 16QAM      | 50@0  | 8.9162    | 9.296         |
| 2    | 5.0             | 18625   | 1852.5     | QPSK       | 25@0  | 4.4609    | 4.758         |
| 2    | 5.0             | 18625   | 1852.5     | 16QAM      | 25@0  | 4.4536    | 4.816         |
| 2    | 5.0             | 18900   | 1880.0     | QPSK       | 25@0  | 4.4658    | 4.785         |
| 2    | 5.0             | 18900   | 1880.0     | 16QAM      | 25@0  | 4.4522    | 4.819         |
| 2    | 5.0             | 19175   | 1907.5     | QPSK       | 25@0  | 4.4596    | 4.791         |
| 2    | 5.0             | 19175   | 1907.5     | 16QAM      | 25@0  | 4.4577    | 4.783         |
| 2    | 3.0             | 18615   | 1851.5     | QPSK       | 15@0  | 2.6732    | 2.895         |
| 2    | 3.0             | 18615   | 1851.5     | 16QAM      | 15@0  | 2.6748    | 2.891         |
| 2    | 3.0             | 18900   | 1880.0     | QPSK       | 15@0  | 2.6711    | 2.874         |
| 2    | 3.0             | 18900   | 1880.0     | 16QAM      | 15@0  | 2.6641    | 2.862         |
| 2    | 3.0             | 19185   | 1908.5     | QPSK       | 15@0  | 2.6710    | 2.889         |
| 2    | 3.0             | 19185   | 1908.5     | 16QAM      | 15@0  | 2.6647    | 2.906         |
| 2    | 1.4             | 18607   | 1850.7     | QPSK       | 6@0   | 1.0827    | 1.245         |
| 2    | 1.4             | 18607   | 1850.7     | 16QAM      | 6@0   | 1.0806    | 1.243         |
| 2    | 1.4             | 18900   | 1880.0     | QPSK       | 6@0   | 1.0781    | 1.242         |
| 2    | 1.4             | 18900   | 1880.0     | 16QAM      | 6@0   | 1.0787    | 1.252         |
| 2    | 1.4             | 19193   | 1909.3     | QPSK       | 6@0   | 1.0809    | 1.234         |
| 2    | 1.4             | 19193   | 1909.3     | 16QAM      | 6@0   | 1.0775    | 1.208         |

| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB    | OBW (MHz) | 26dB BW (MHz) |
|------|-----------------|---------|------------|------------|-------|-----------|---------------|
| 2    | 20.0            | 18700   | 1860.0     | 64QAM      | 100@0 | 17.866    | 18.78         |
| 2    | 20.0            | 18900   | 1880.0     | 64QAM      | 100@0 | 17.870    | 18.77         |
| 2    | 20.0            | 19100   | 1900.0     | 64QAM      | 100@0 | 17.838    | 18.73         |
| 2    | 15.0            | 18675   | 1857.5     | 64QAM      | 75@0  | 13.398    | 14.21         |
| 2    | 15.0            | 18900   | 1880.0     | 64QAM      | 75@0  | 13.396    | 14.29         |
| 2    | 15.0            | 19125   | 1902.5     | 64QAM      | 75@0  | 13.391    | 14.07         |
| 2    | 10.0            | 18650   | 1855.0     | 64QAM      | 50@0  | 8.9374    | 9.501         |
| 2    | 10.0            | 18900   | 1880.0     | 64QAM      | 50@0  | 8.9151    | 9.468         |
| 2    | 10.0            | 19150   | 1905.0     | 64QAM      | 50@0  | 8.9309    | 9.424         |
| 2    | 5.0             | 18625   | 1852.5     | 64QAM      | 25@0  | 4.4604    | 4.809         |
| 2    | 5.0             | 18900   | 1880.0     | 64QAM      | 25@0  | 4.4702    | 4.812         |
| 2    | 5.0             | 19175   | 1907.5     | 64QAM      | 25@0  | 4.4563    | 4.824         |
| 2    | 3.0             | 18615   | 1851.5     | 64QAM      | 15@0  | 2.6743    | 2.909         |
| 2    | 3.0             | 18900   | 1880.0     | 64QAM      | 15@0  | 2.6660    | 2.911         |
| 2    | 3.0             | 19185   | 1908.5     | 64QAM      | 15@0  | 2.6656    | 2.901         |
| 2    | 1.4             | 18607   | 1850.7     | 64QAM      | 6@0   | 1.0794    | 1.225         |
| 2    | 1.4             | 18900   | 1880.0     | 64QAM      | 6@0   | 1.0791    | 1.237         |
| 2    | 1.4             | 19193   | 1909.3     | 64QAM      | 6@0   | 1.0767    | 1.218         |

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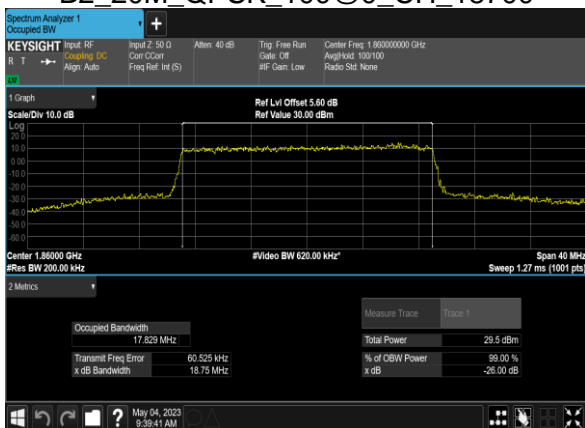
E-mail: info@uttlab.com

<http://www.uttlab.com>

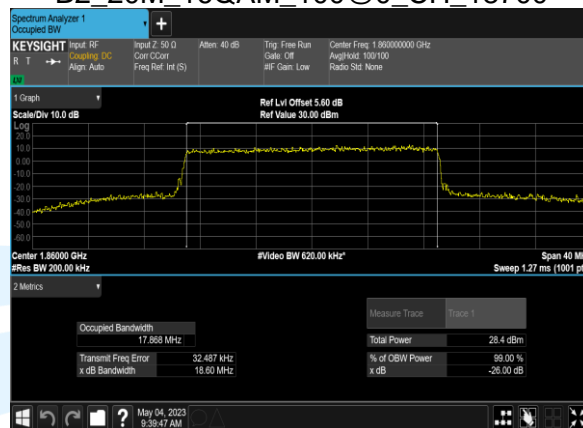
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## Test Graphs

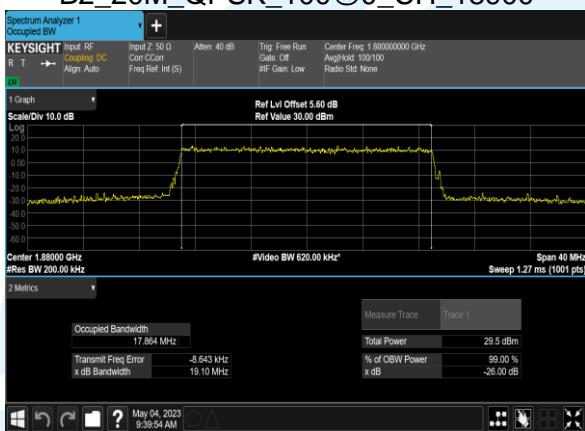
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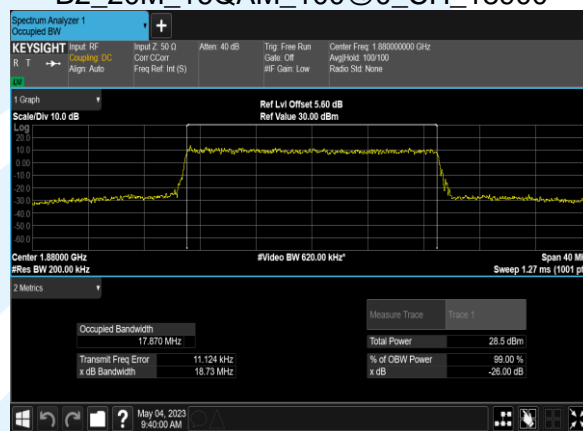
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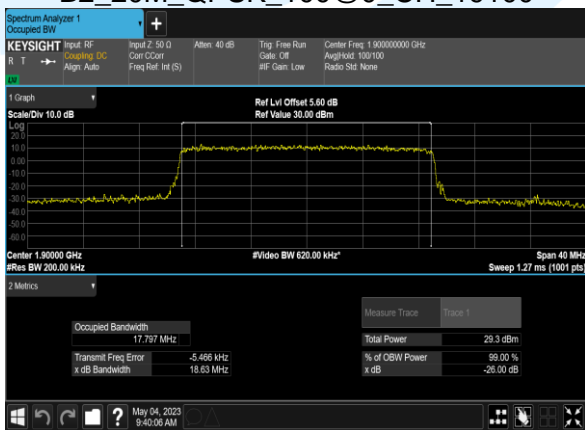
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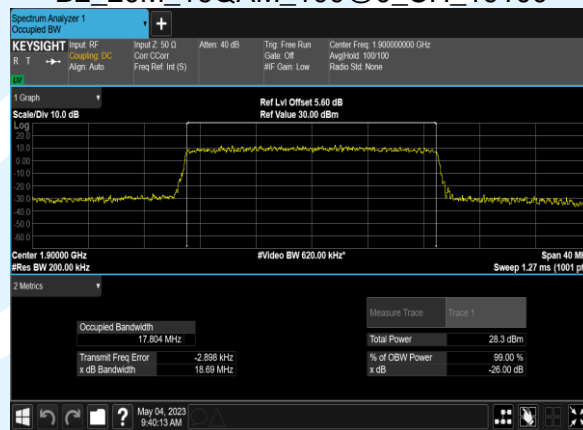
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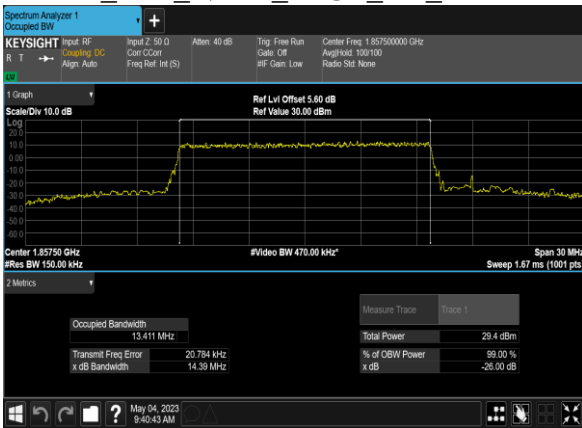
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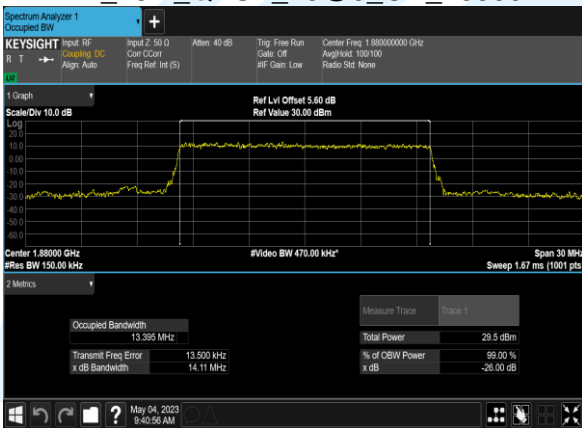
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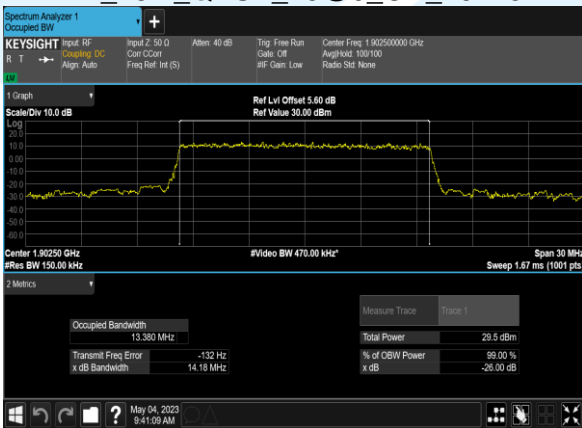
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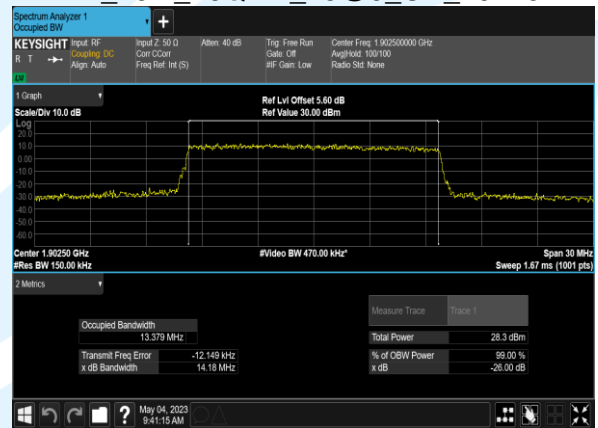
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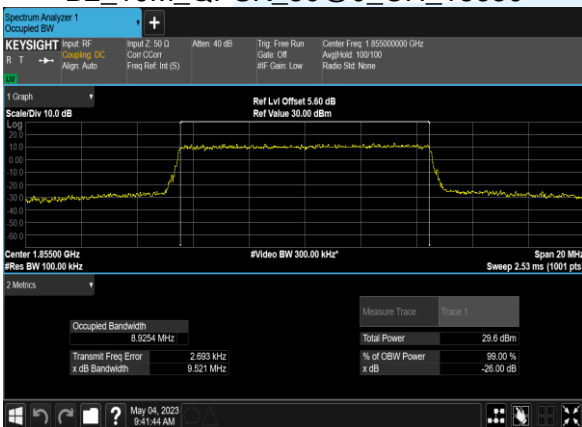
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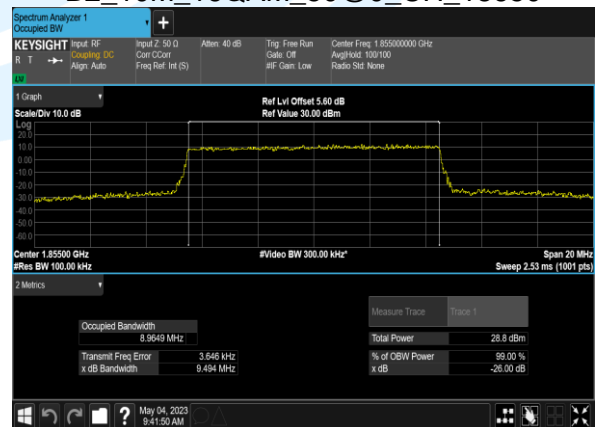
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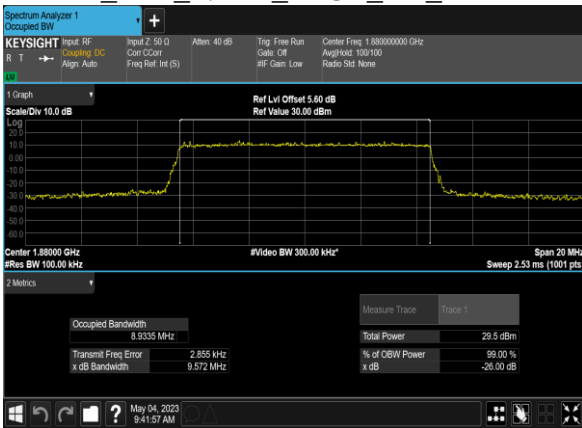
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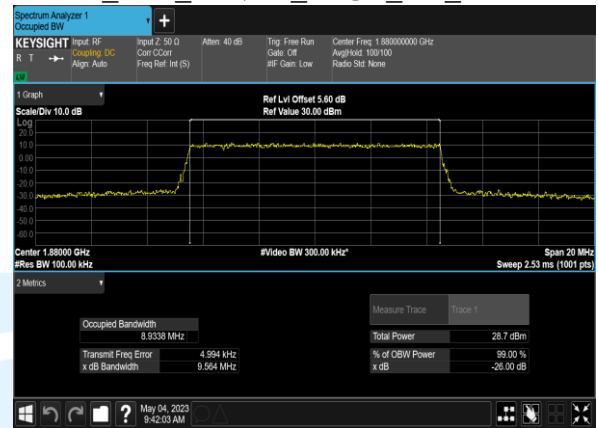
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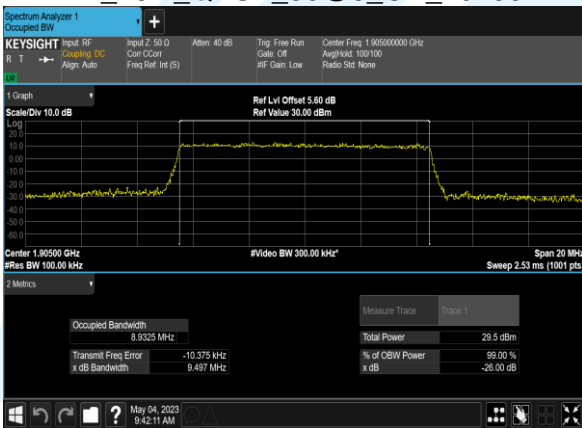
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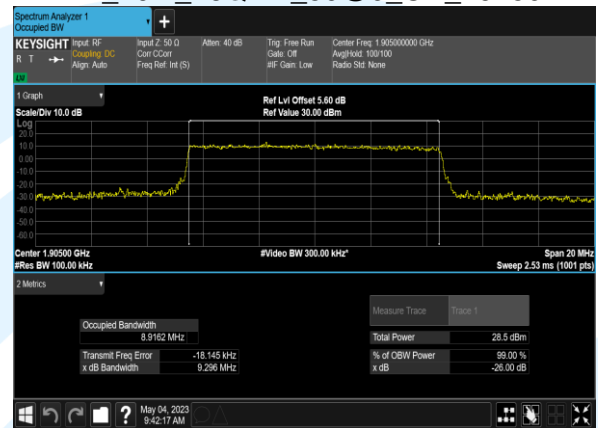
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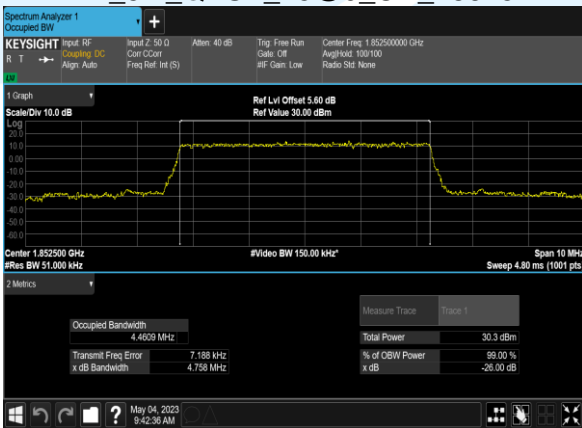
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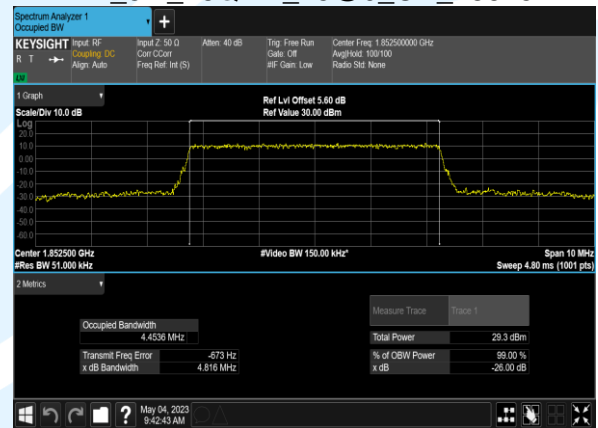
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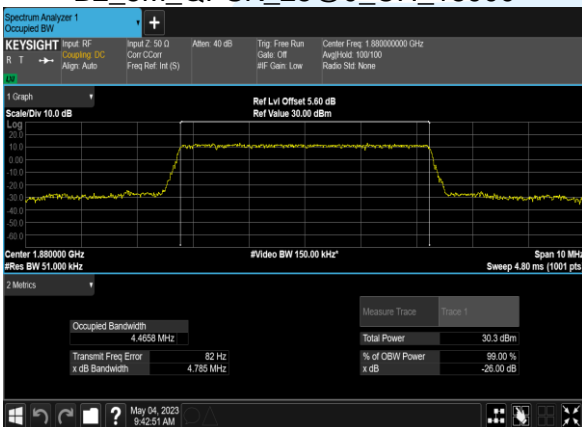
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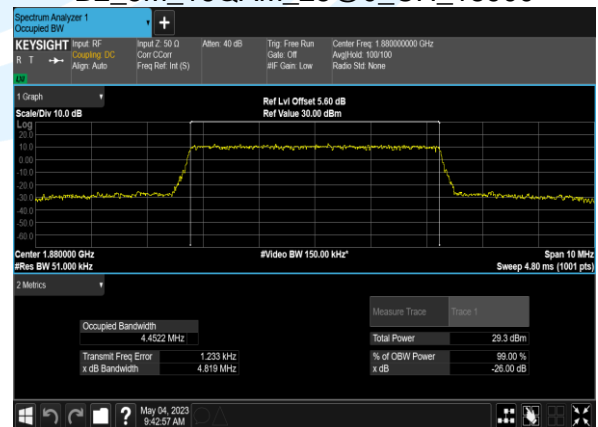
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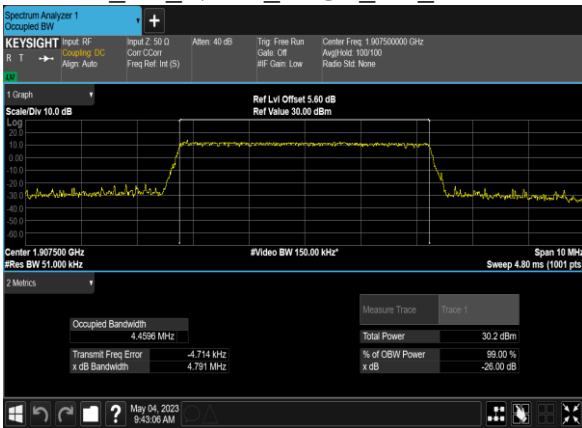
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B2\_5M\_16QAM\_25@0\_CH\_18900



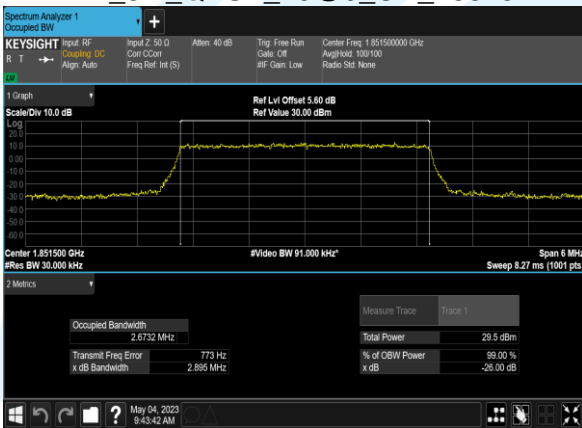
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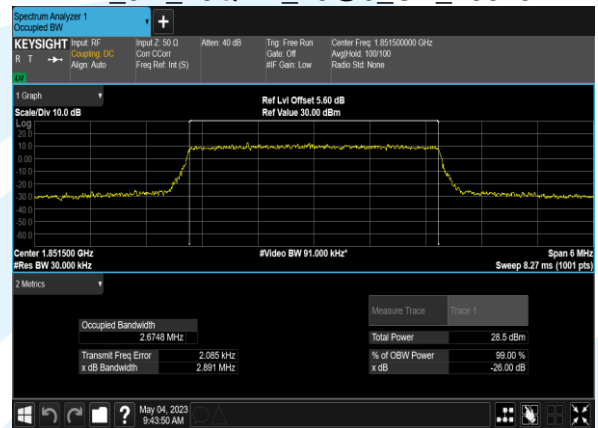
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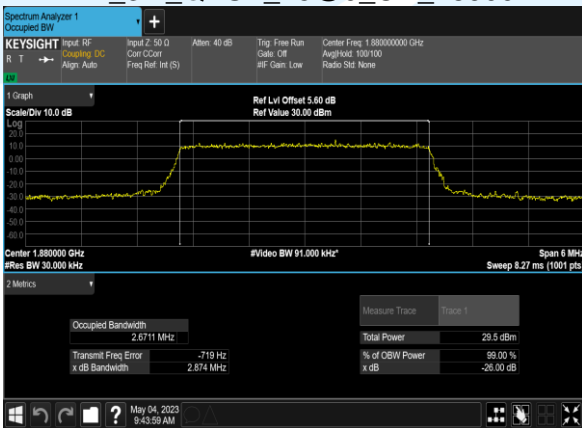
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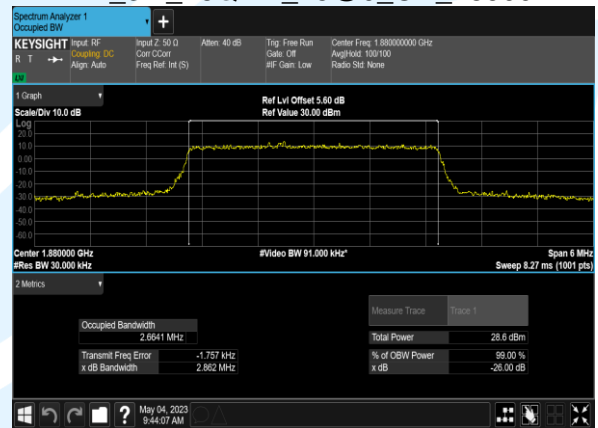
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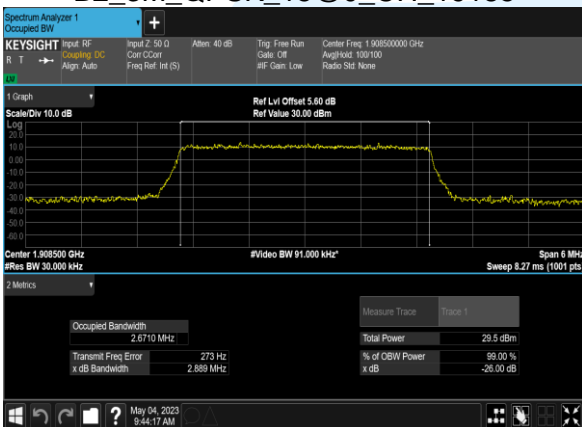
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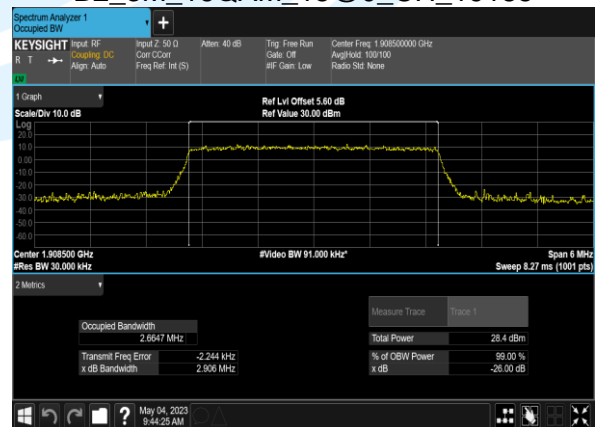
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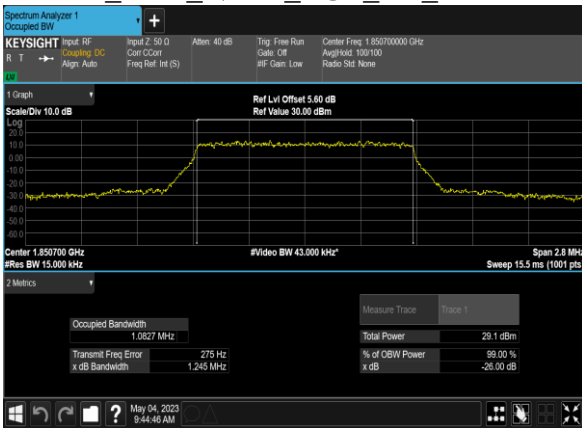
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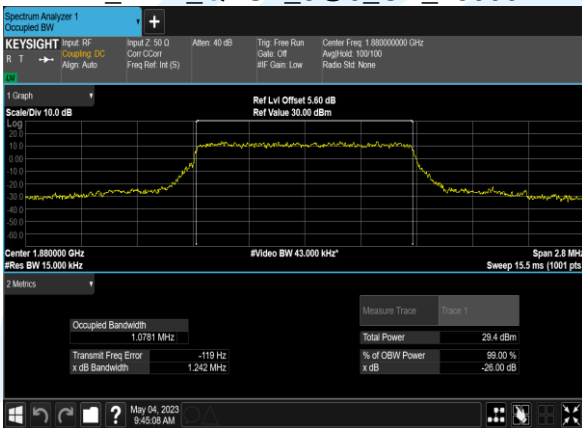
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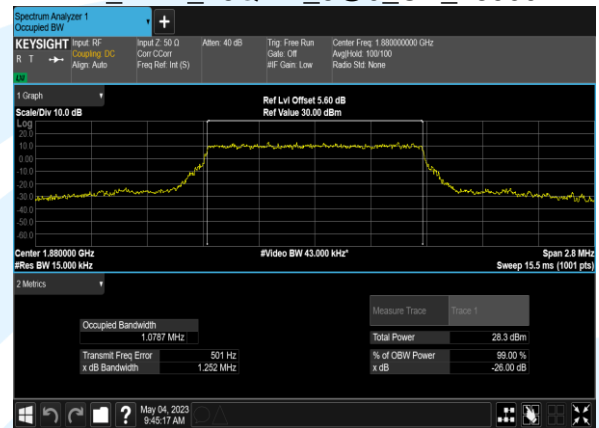
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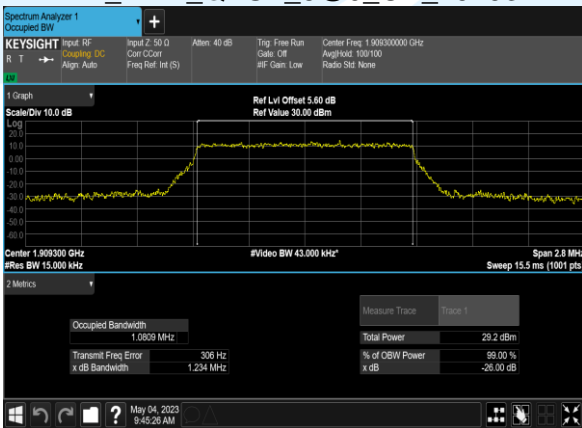
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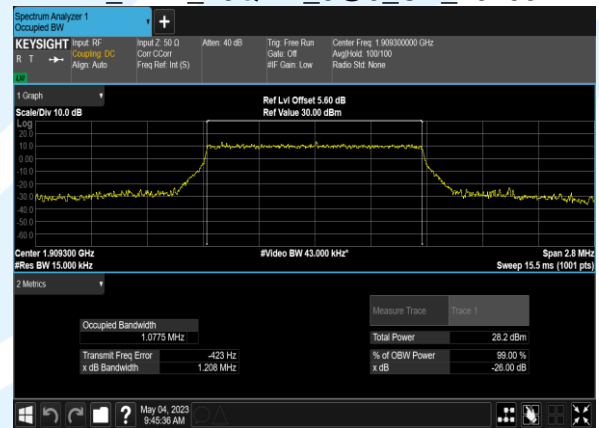
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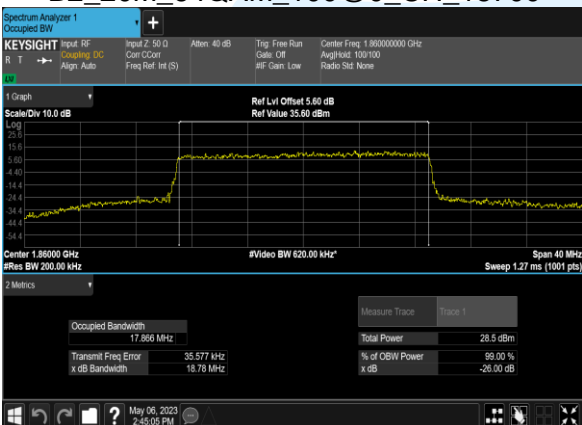
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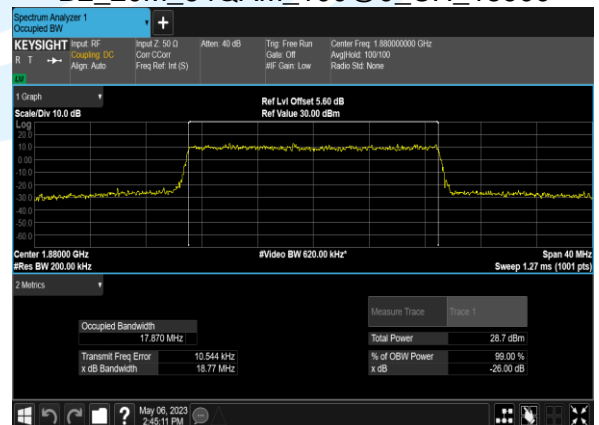
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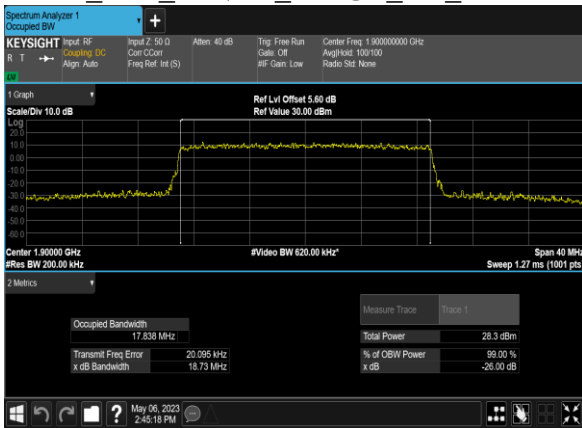


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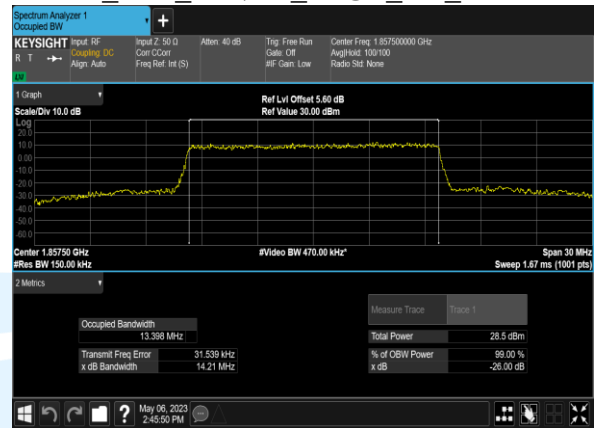




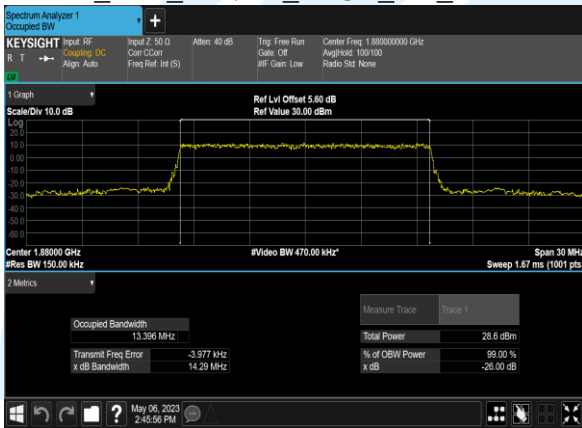
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B2\_15M\_64QAM\_75@0\_CH\_18675



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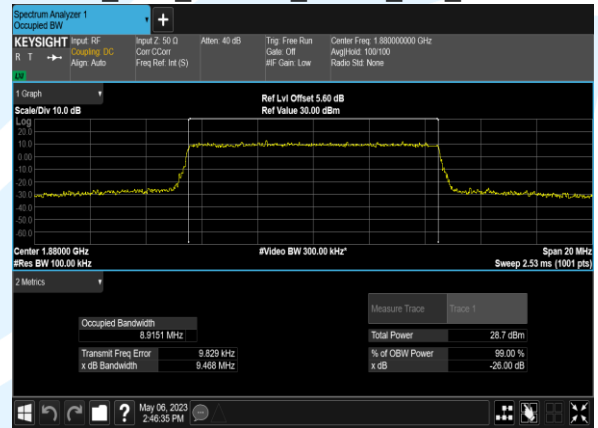
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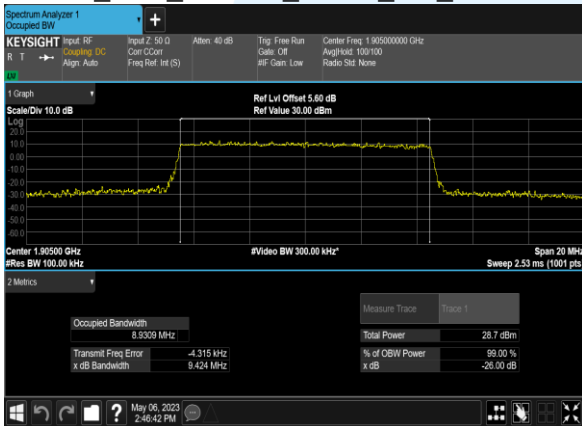
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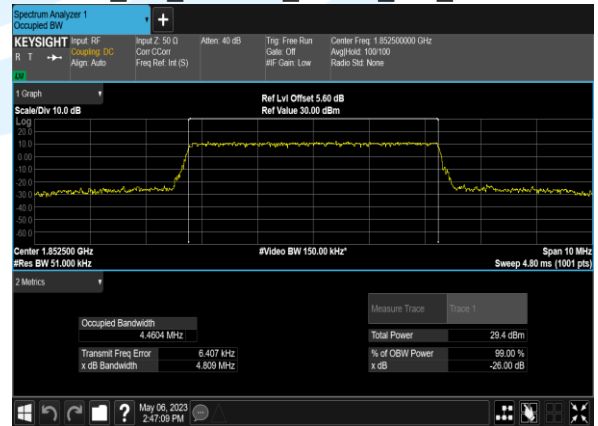
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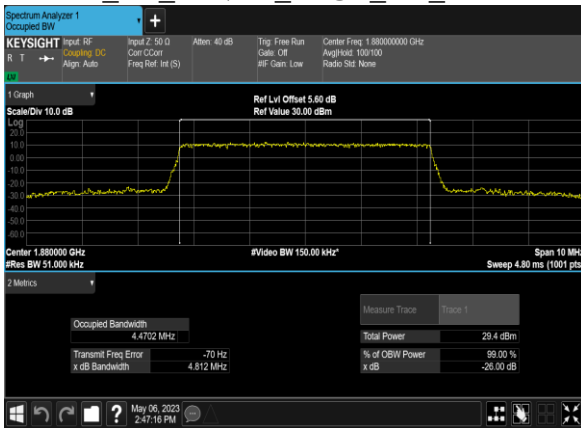


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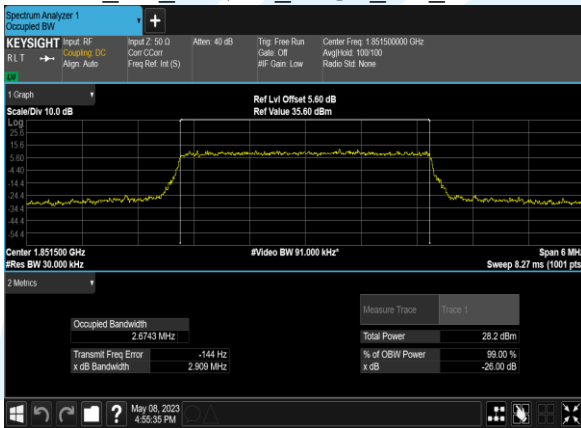
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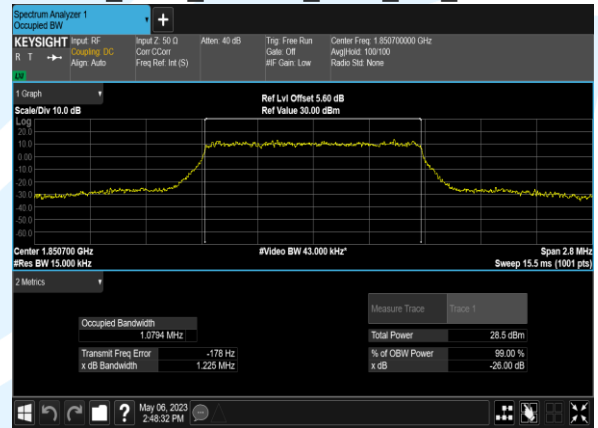
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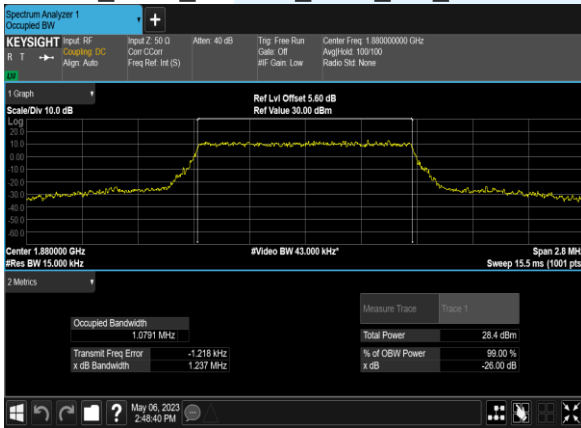
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B2\_1.4M\_64QAM\_6@0\_CH\_18607



B2\_1.4M\_64QAM\_6@0\_CH\_18900



B2\_1.4M\_64QAM\_6@0\_CH\_19193



**Conducted Spurious Emissions**

| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB  | Result (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|------------|------------|-----|--------------|-------------|---------|
| 2    | 20.0            | 18700   | 1860.0     | QPSK       | 1@0 | -28.62       | -13         | PASS    |
| 2    | 20.0            | 18700   | 1860.0     | 16QAM      | 1@0 | -27.37       | -13         | PASS    |
| 2    | 20.0            | 18900   | 1880.0     | QPSK       | 1@0 | -29.11       | -13         | PASS    |
| 2    | 20.0            | 18900   | 1880.0     | 16QAM      | 1@0 | -28.25       | -13         | PASS    |
| 2    | 20.0            | 19100   | 1900.0     | QPSK       | 1@0 | -29.27       | -13         | PASS    |
| 2    | 20.0            | 19100   | 1900.0     | 16QAM      | 1@0 | -29.36       | -13         | PASS    |
| 2    | 15.0            | 18675   | 1857.5     | QPSK       | 1@0 | -28.91       | -13         | PASS    |
| 2    | 15.0            | 18675   | 1857.5     | 16QAM      | 1@0 | -29.1        | -13         | PASS    |
| 2    | 15.0            | 18900   | 1880.0     | QPSK       | 1@0 | -28.34       | -13         | PASS    |
| 2    | 15.0            | 18900   | 1880.0     | 16QAM      | 1@0 | -28.97       | -13         | PASS    |
| 2    | 15.0            | 19125   | 1902.5     | QPSK       | 1@0 | -29.35       | -13         | PASS    |
| 2    | 15.0            | 19125   | 1902.5     | 16QAM      | 1@0 | -28.93       | -13         | PASS    |
| 2    | 10.0            | 18650   | 1855.0     | QPSK       | 1@0 | -28.37       | -13         | PASS    |
| 2    | 10.0            | 18650   | 1855.0     | 16QAM      | 1@0 | -28.46       | -13         | PASS    |
| 2    | 10.0            | 18900   | 1880.0     | QPSK       | 1@0 | -29.47       | -13         | PASS    |
| 2    | 10.0            | 18900   | 1880.0     | 16QAM      | 1@0 | -29.09       | -13         | PASS    |
| 2    | 10.0            | 19150   | 1905.0     | QPSK       | 1@0 | -28.31       | -13         | PASS    |
| 2    | 10.0            | 19150   | 1905.0     | 16QAM      | 1@0 | -29.16       | -13         | PASS    |
| 2    | 5.0             | 18625   | 1852.5     | QPSK       | 1@0 | -27.94       | -13         | PASS    |
| 2    | 5.0             | 18625   | 1852.5     | 16QAM      | 1@0 | -28.86       | -13         | PASS    |
| 2    | 5.0             | 18900   | 1880.0     | QPSK       | 1@0 | -29.1        | -13         | PASS    |
| 2    | 5.0             | 18900   | 1880.0     | 16QAM      | 1@0 | -29.1        | -13         | PASS    |
| 2    | 5.0             | 19175   | 1907.5     | QPSK       | 1@0 | -29.19       | -13         | PASS    |
| 2    | 5.0             | 19175   | 1907.5     | 16QAM      | 1@0 | -29.08       | -13         | PASS    |
| 2    | 3.0             | 18615   | 1851.5     | QPSK       | 1@0 | -28.65       | -13         | PASS    |
| 2    | 3.0             | 18615   | 1851.5     | 16QAM      | 1@0 | -28.93       | -13         | PASS    |
| 2    | 3.0             | 18900   | 1880.0     | QPSK       | 1@0 | -28.91       | -13         | PASS    |
| 2    | 3.0             | 18900   | 1880.0     | 16QAM      | 1@0 | -28.98       | -13         | PASS    |
| 2    | 3.0             | 19185   | 1908.5     | QPSK       | 1@0 | -28.13       | -13         | PASS    |
| 2    | 3.0             | 19185   | 1908.5     | 16QAM      | 1@0 | -28.91       | -13         | PASS    |
| 2    | 1.4             | 18607   | 1850.7     | QPSK       | 1@0 | -28.98       | -13         | PASS    |
| 2    | 1.4             | 18607   | 1850.7     | 16QAM      | 1@0 | -29.1        | -13         | PASS    |
| 2    | 1.4             | 18900   | 1880.0     | QPSK       | 1@0 | -29.09       | -13         | PASS    |
| 2    | 1.4             | 18900   | 1880.0     | 16QAM      | 1@0 | -29.09       | -13         | PASS    |
| 2    | 1.4             | 19193   | 1909.3     | QPSK       | 1@0 | -28.43       | -13         | PASS    |
| 2    | 1.4             | 19193   | 1909.3     | 16QAM      | 1@0 | -29.04       | -13         | PASS    |

| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB  | Result (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|------------|------------|-----|--------------|-------------|---------|
| 2    | 20.0            | 18700   | 1860.0     | 64QAM      | 1@0 | -29.1        | -13         | PASS    |
| 2    | 20.0            | 18900   | 1880.0     | 64QAM      | 1@0 | -28.85       | -13         | PASS    |
| 2    | 20.0            | 19100   | 1900.0     | 64QAM      | 1@0 | -29.07       | -13         | PASS    |
| 2    | 15.0            | 18675   | 1857.5     | 64QAM      | 1@0 | -28.83       | -13         | PASS    |
| 2    | 15.0            | 18900   | 1880.0     | 64QAM      | 1@0 | -28.41       | -13         | PASS    |
| 2    | 15.0            | 19125   | 1902.5     | 64QAM      | 1@0 | -28.77       | -13         | PASS    |
| 2    | 10.0            | 18650   | 1855.0     | 64QAM      | 1@0 | -29.55       | -13         | PASS    |
| 2    | 10.0            | 18900   | 1880.0     | 64QAM      | 1@0 | -28.53       | -13         | PASS    |
| 2    | 10.0            | 19150   | 1905.0     | 64QAM      | 1@0 | -28.64       | -13         | PASS    |
| 2    | 5.0             | 18625   | 1852.5     | 64QAM      | 1@0 | -29.16       | -13         | PASS    |
| 2    | 5.0             | 18900   | 1880.0     | 64QAM      | 1@0 | -29.2        | -13         | PASS    |
| 2    | 5.0             | 19175   | 1907.5     | 64QAM      | 1@0 | -28.96       | -13         | PASS    |
| 2    | 3.0             | 18615   | 1851.5     | 64QAM      | 1@0 | -28.75       | -13         | PASS    |
| 2    | 3.0             | 18900   | 1880.0     | 64QAM      | 1@0 | -28.8        | -13         | PASS    |
| 2    | 3.0             | 19185   | 1908.5     | 64QAM      | 1@0 | -29.26       | -13         | PASS    |
| 2    | 1.4             | 18607   | 1850.7     | 64QAM      | 1@0 | -28.92       | -13         | PASS    |
| 2    | 1.4             | 18900   | 1880.0     | 64QAM      | 1@0 | -28.75       | -13         | PASS    |
| 2    | 1.4             | 19193   | 1909.3     | 64QAM      | 1@0 | -28.42       | -13         | PASS    |

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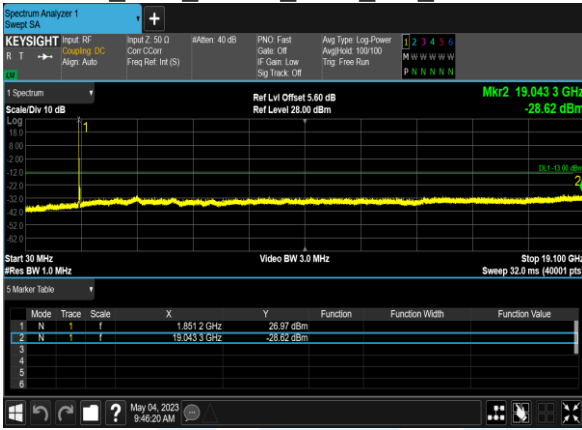
E-mail: info@uttlab.com

<http://www.uttlab.com>

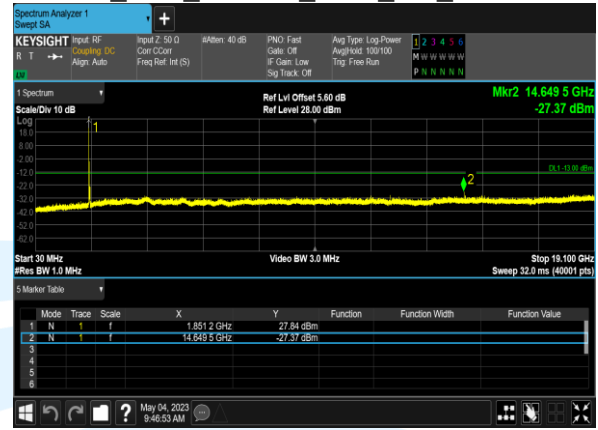
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Test Graphs

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B2\_20M\_16QAM\_1@0\_CH\_18700



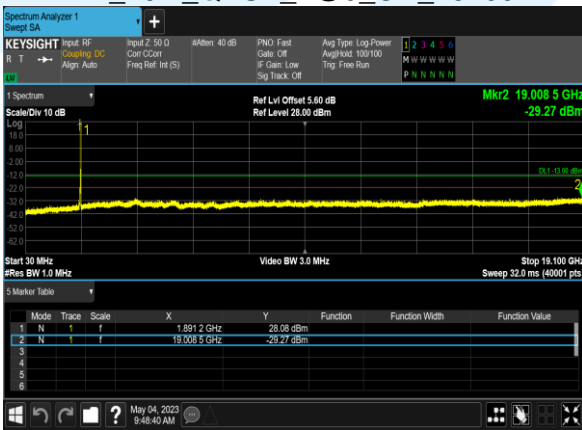
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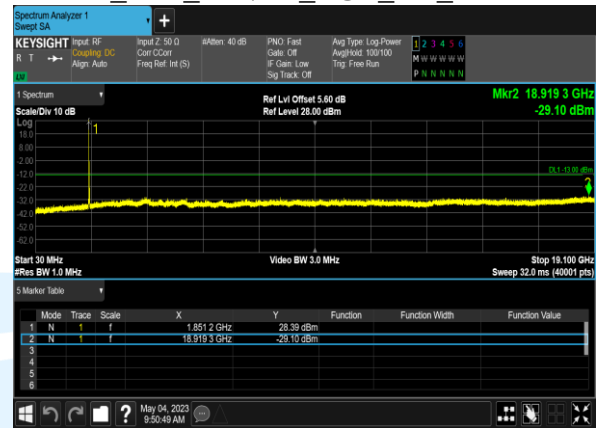
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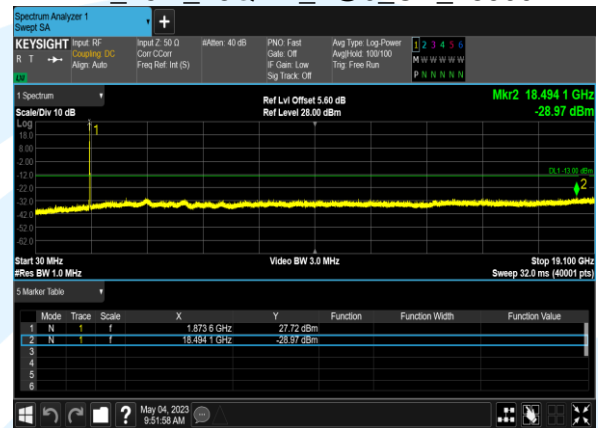
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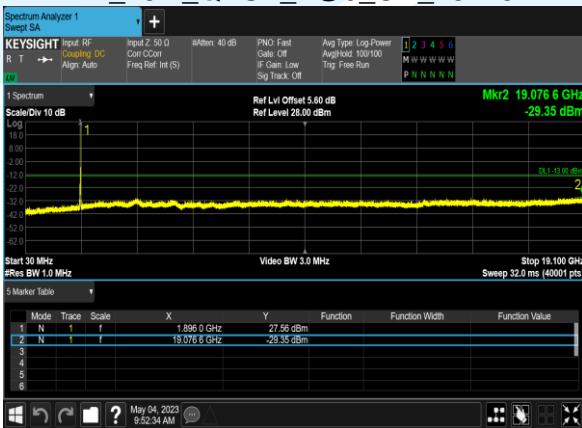
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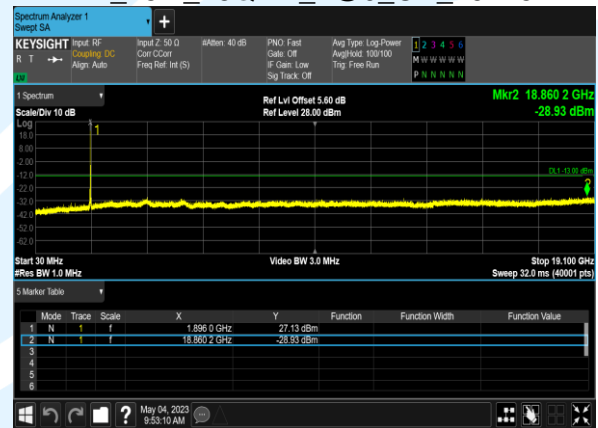
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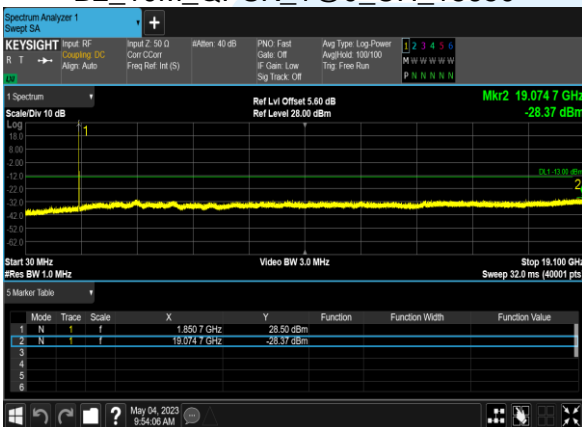
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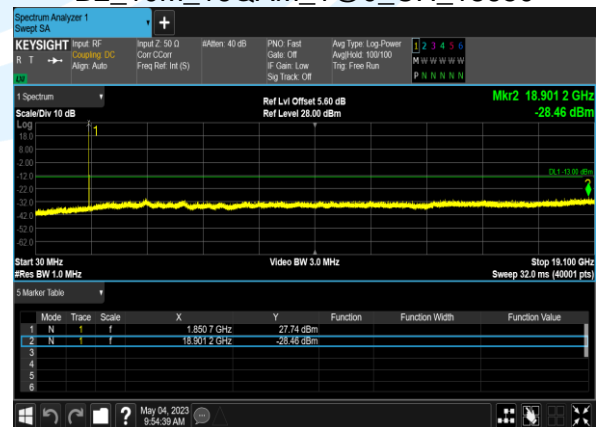
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B2\_10M\_QPSK\_1@0\_CH\_18650



B2\_10M\_16QAM\_1@0\_CH\_18650



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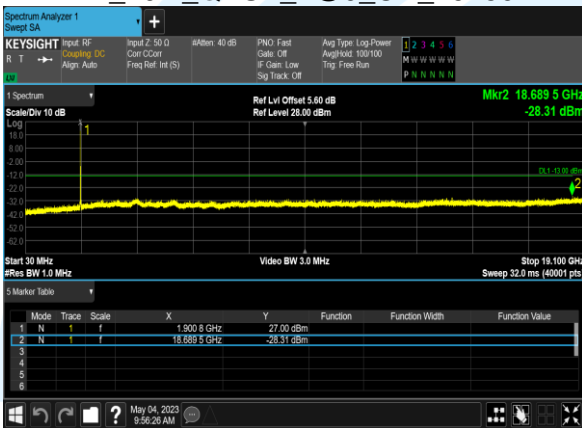
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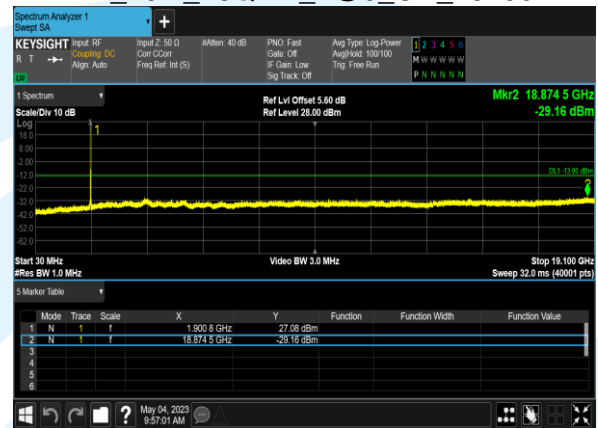
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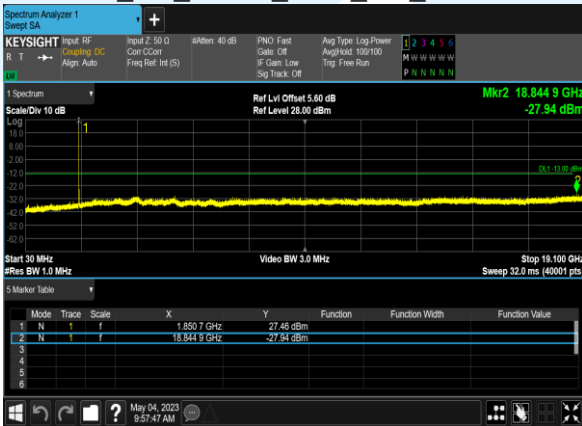
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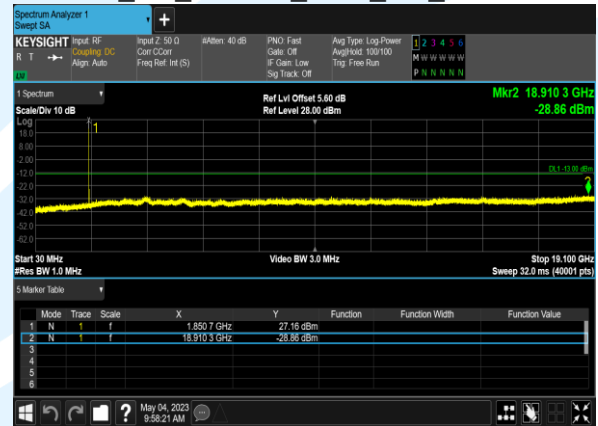
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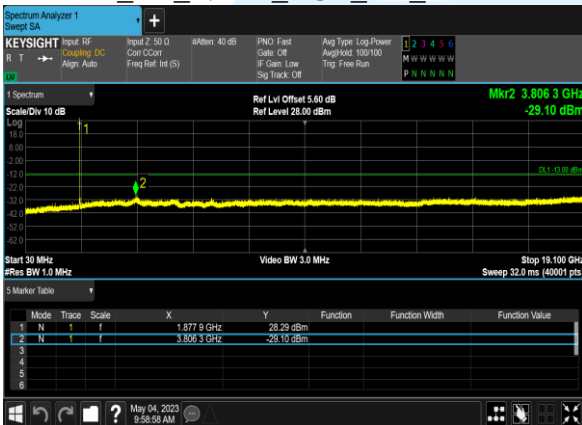
B2\_5M\_QPSK\_1@0\_CH\_18625



B2\_5M\_16QAM\_1@0\_CH\_18625



B2\_5M\_QPSK\_1@0\_CH\_18900



B2\_5M\_16QAM\_1@0\_CH\_18900

