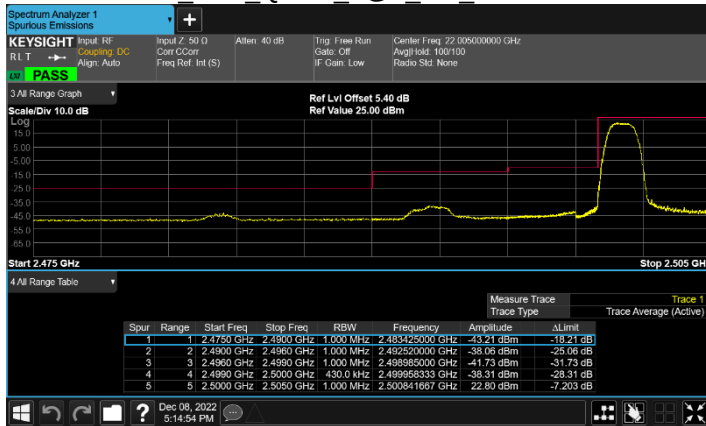
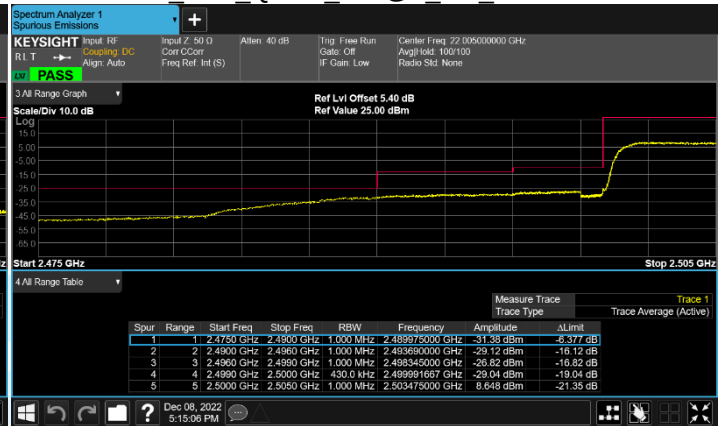


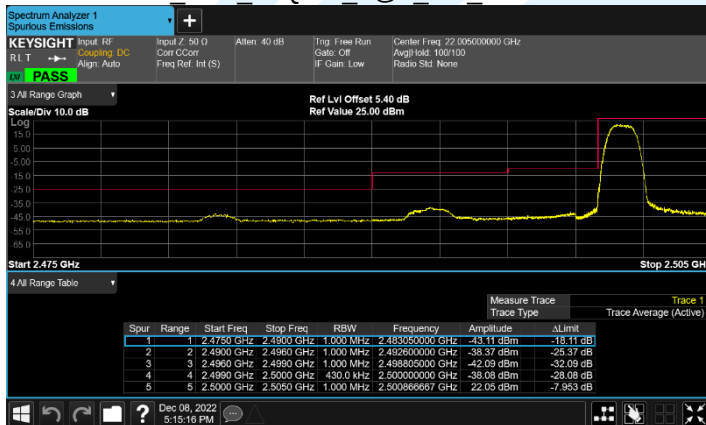
B7 20M QPSK 1@0 CH 20850



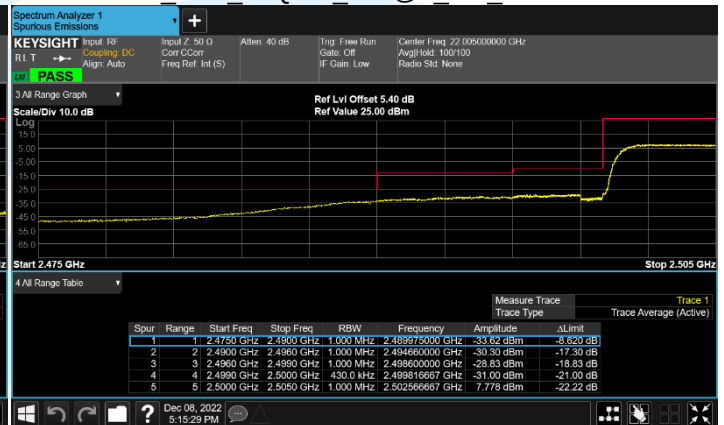
B7 20M QPSK 100@0 CH 20850



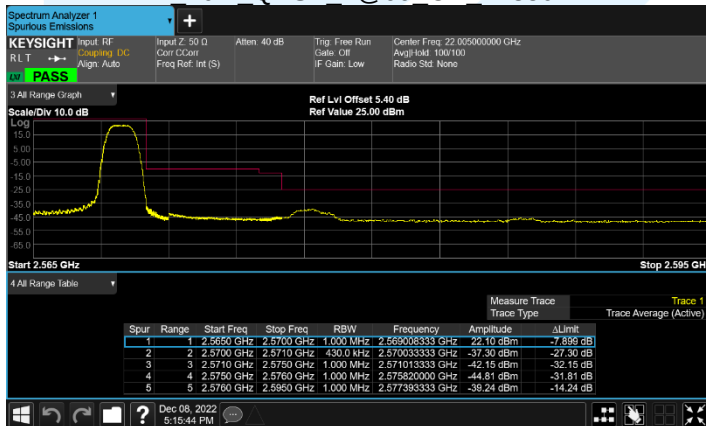
B7 20M 16QAM 1@0 CH 20850



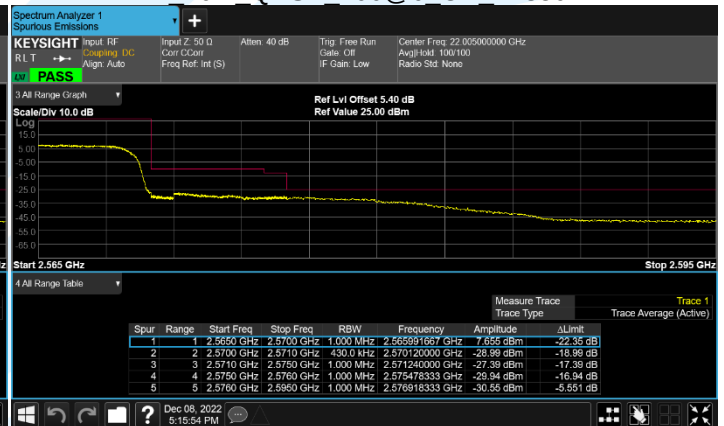
B7 20M 16QAM 100@0 CH 20850



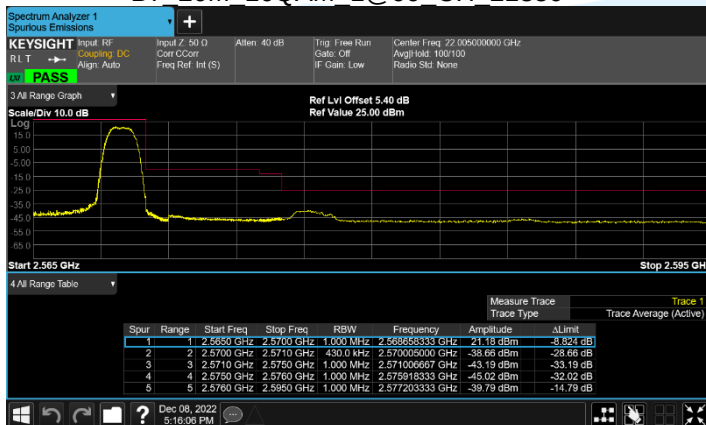
B7 20M QPSK 1@99 CH 21350



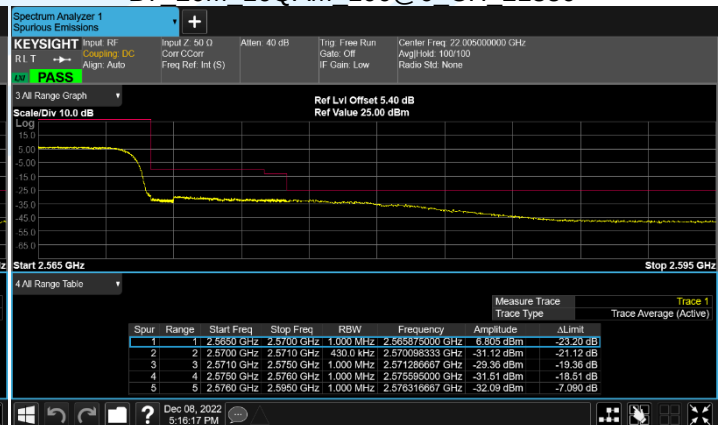
B7 20M QPSK 100@0 CH 21350



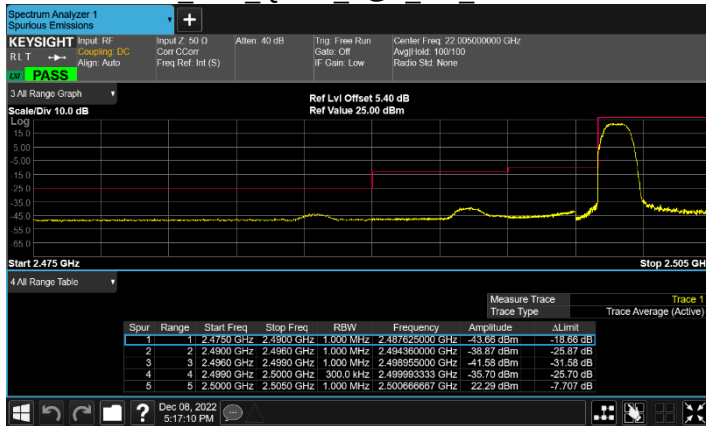
B7 20M 16QAM 1@99 CH 21350



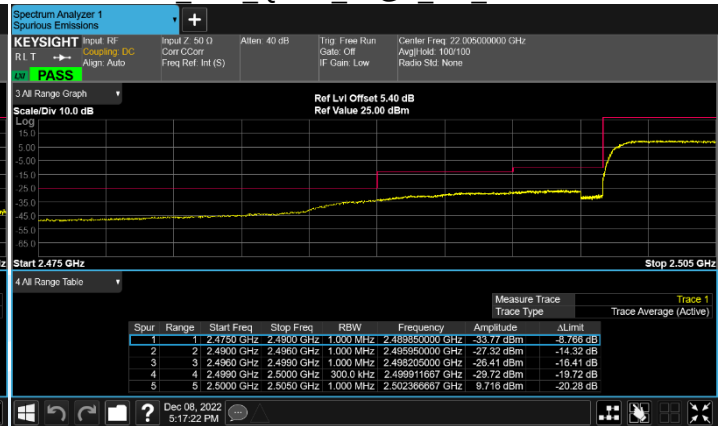
B7 20M 16QAM 100@0 CH 21350



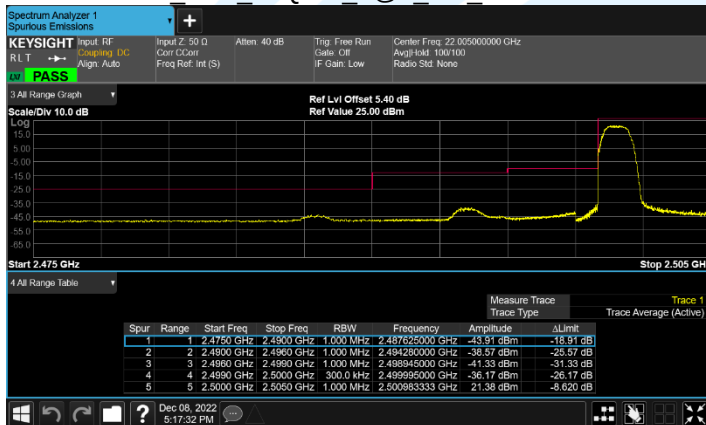
B7 15M QPSK 1@0 CH 20825



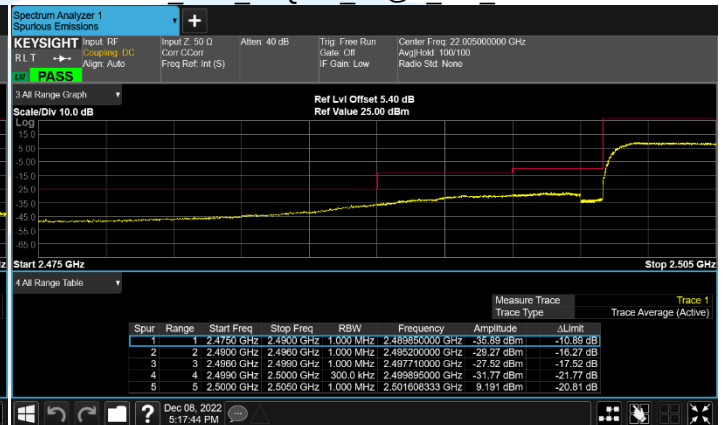
B7 15M QPSK 75@0 CH 20825



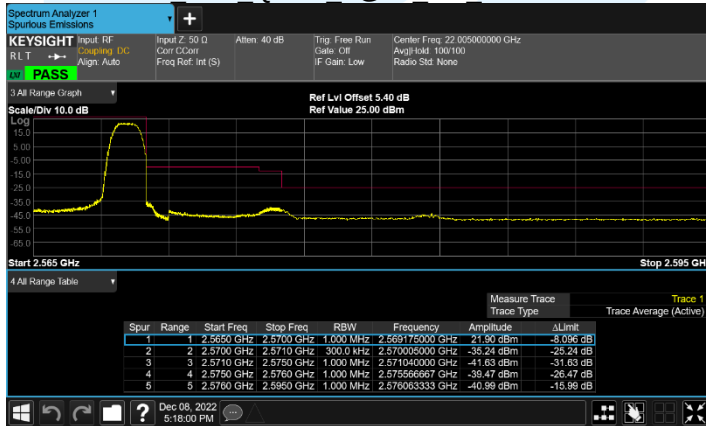
B7 15M 16QAM 1@0 CH 20825



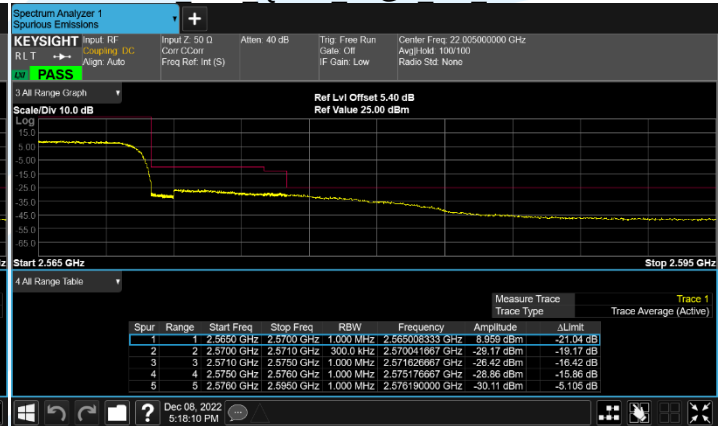
B7 15M 16QAM 75@0 CH 20825



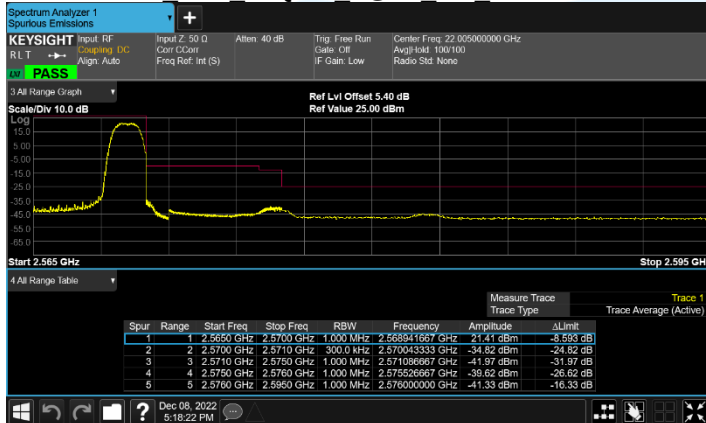
B7 15M QPSK 1@74 CH 21375



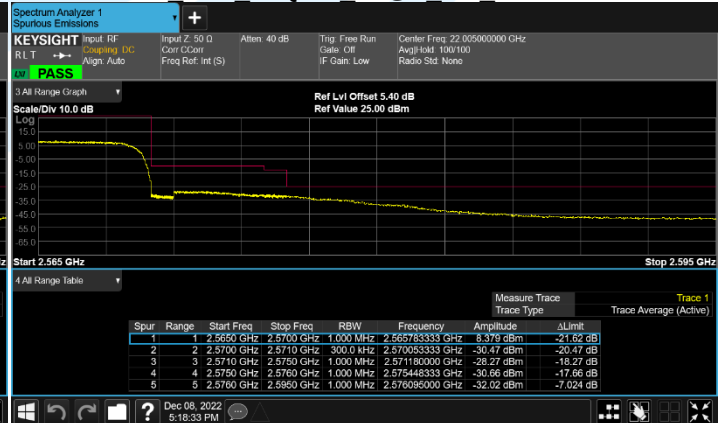
B7 15M QPSK 75@0 CH 21375



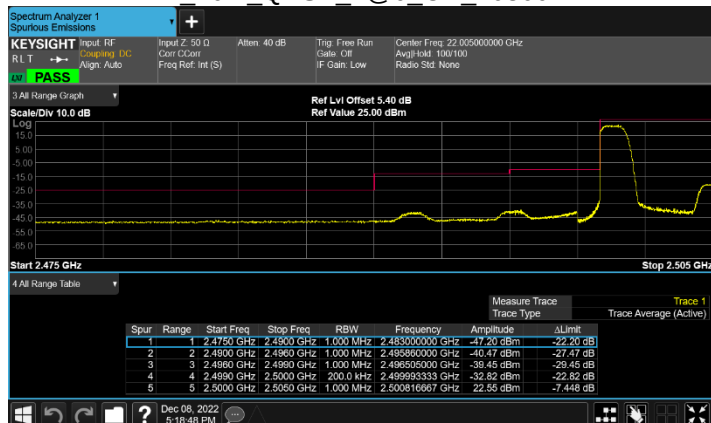
B7 15M 16QAM 1@74 CH 21375



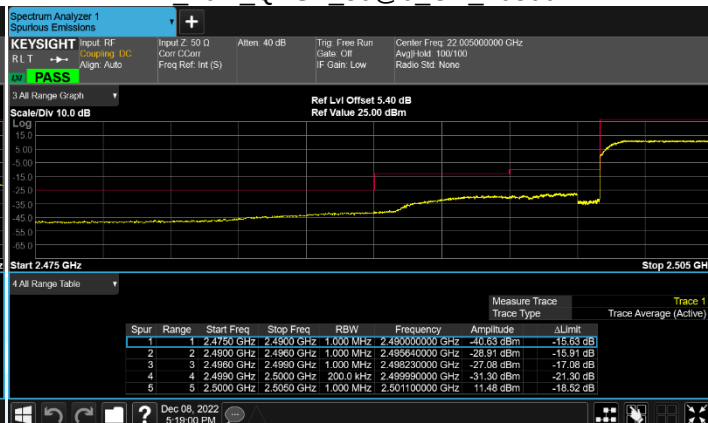
B7 15M 16QAM 75@0 CH 21375



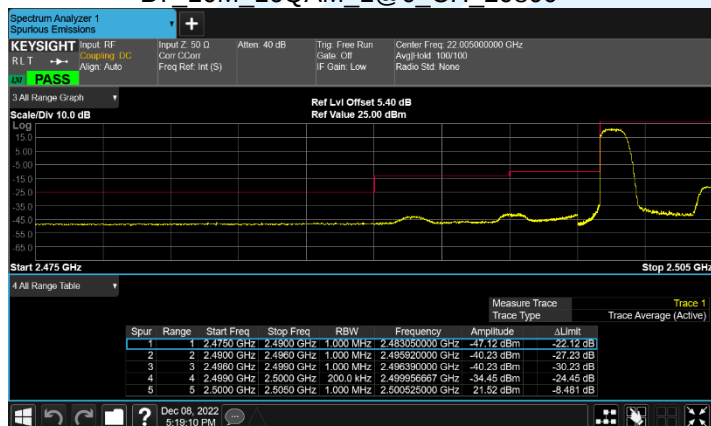
B7 10M QPSK 1@0 CH 20800



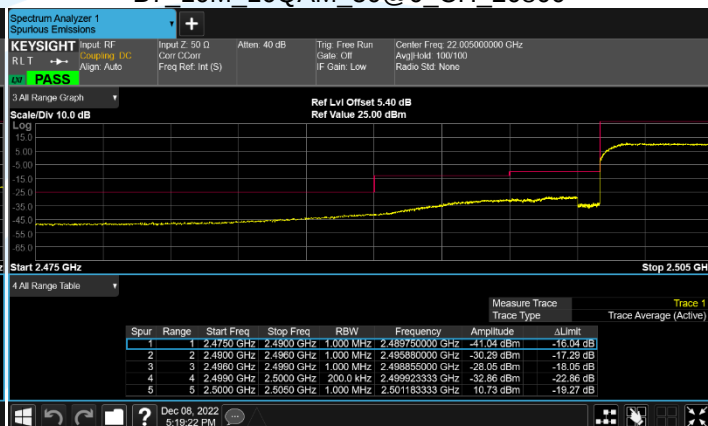
B7 10M QPSK 50@0 CH 20800



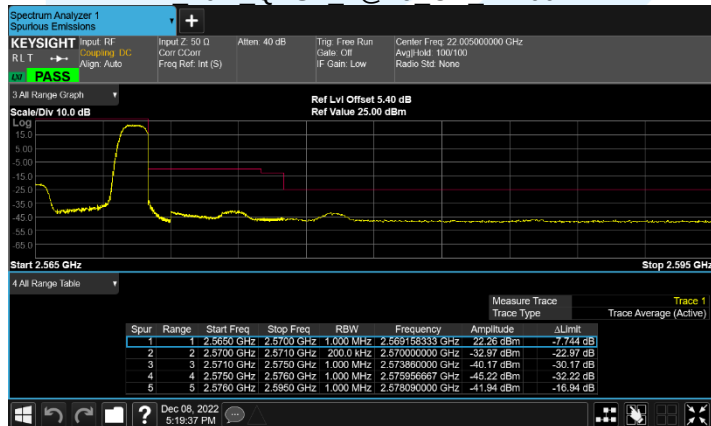
B7 10M 16QAM 1@0 CH 20800



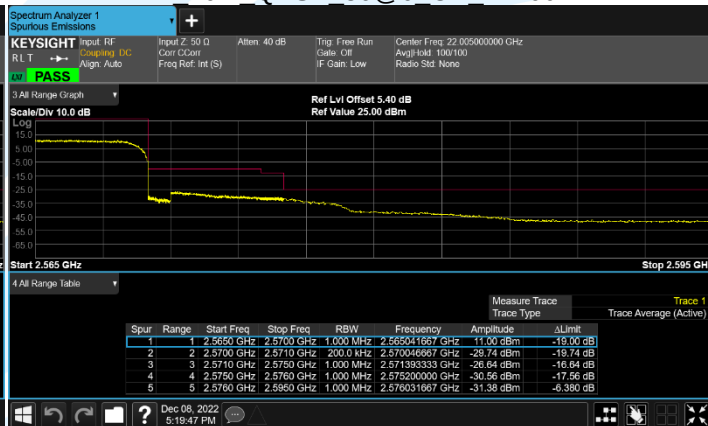
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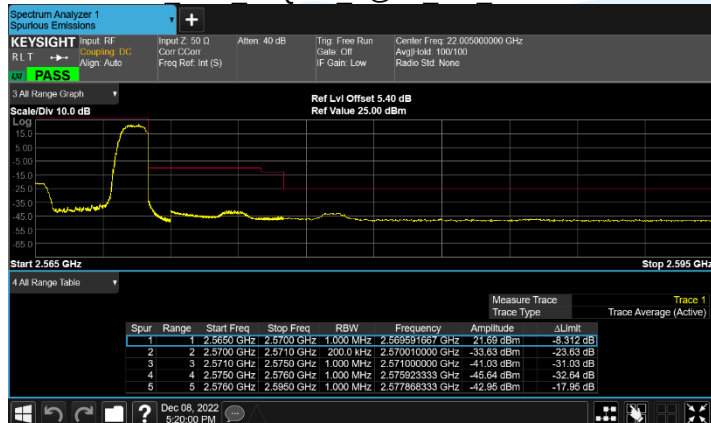
B7 10M QPSK 1@49 CH 21400



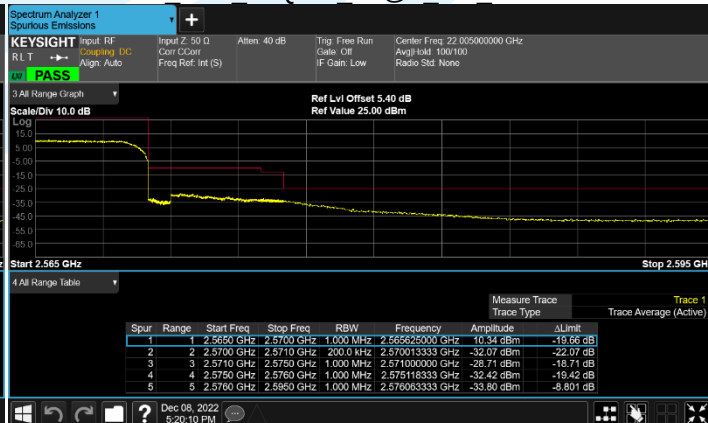
B7 10M QPSK 50@0 CH 21400



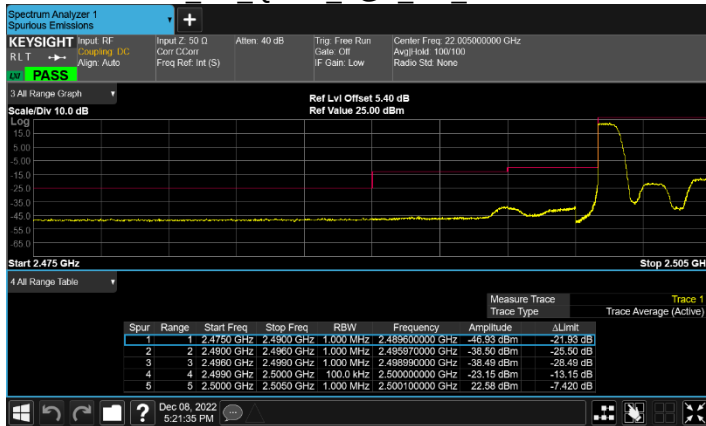
B7 10M 16QAM 1@49 CH 21400



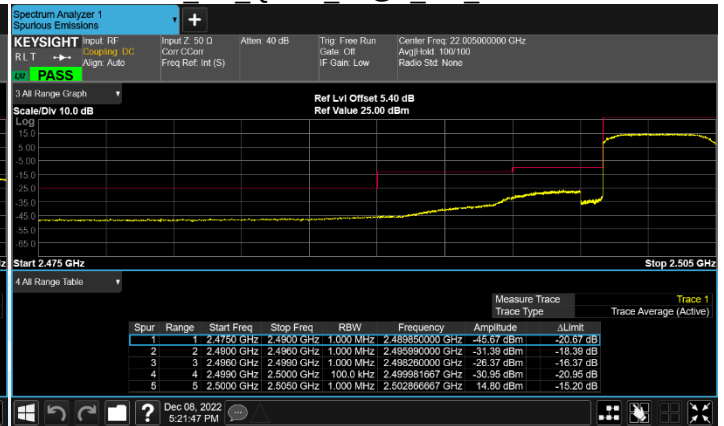
B7 10M 16QAM 50@0 CH 21400



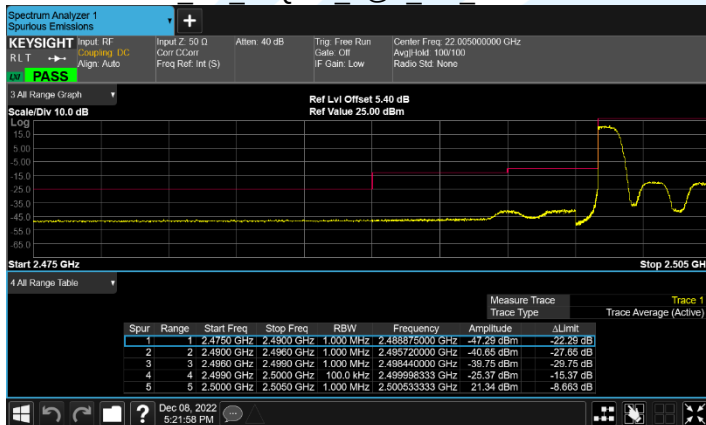
B7 5M QPSK 1@0 CH 20775



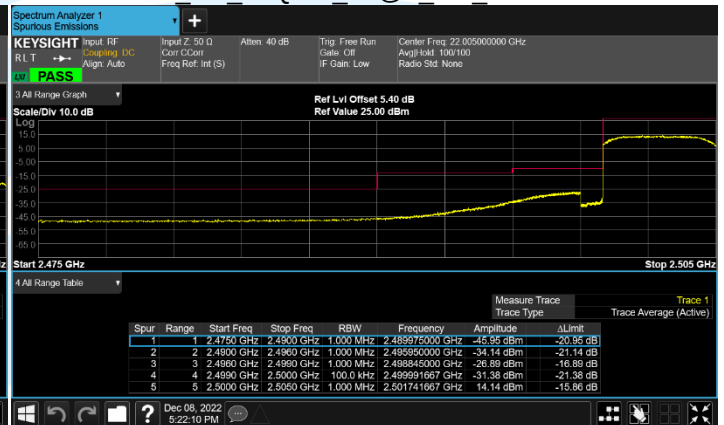
B7 5M QPSK 25@0 CH 20775



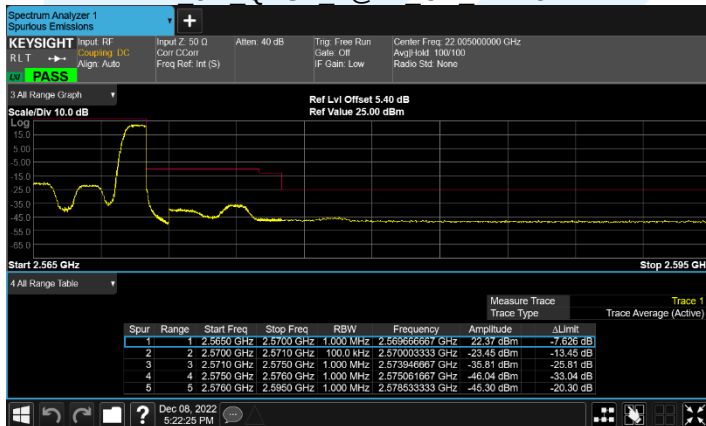
B7 5M 16QAM 1@0 CH 20775



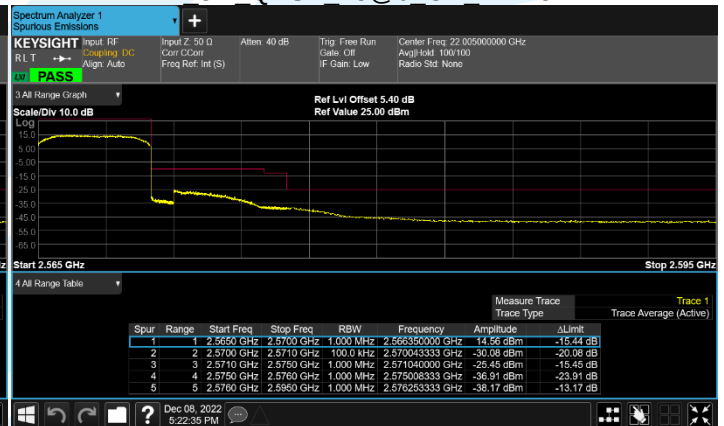
B7 5M 16QAM 25@0 CH 20775



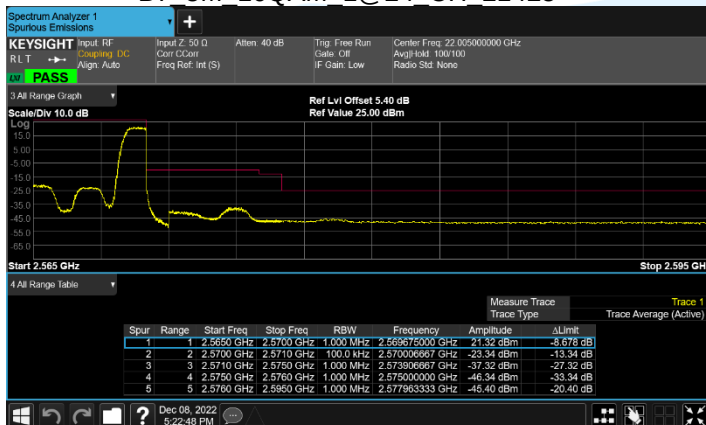
B7 5M QPSK 1@24 CH 21425



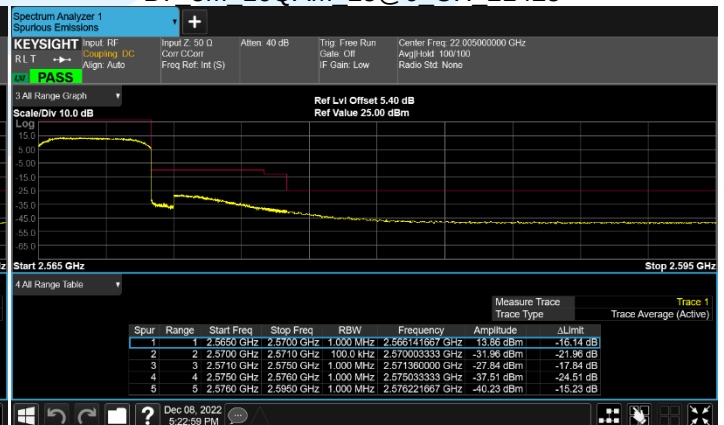
B7 5M QPSK 25@0 CH 21425



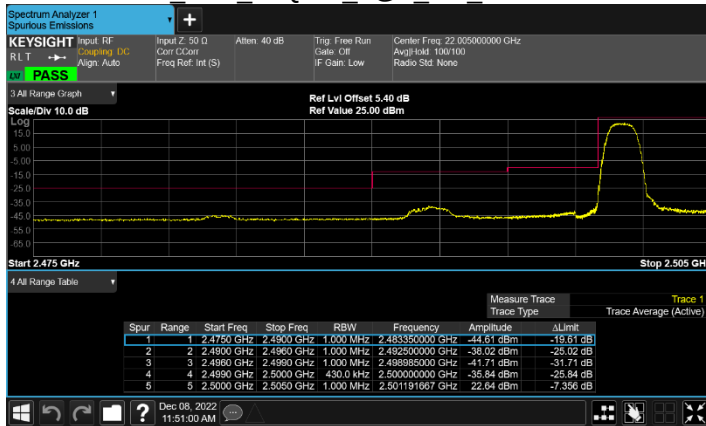
B7 5M 16QAM 1@24 CH 21425



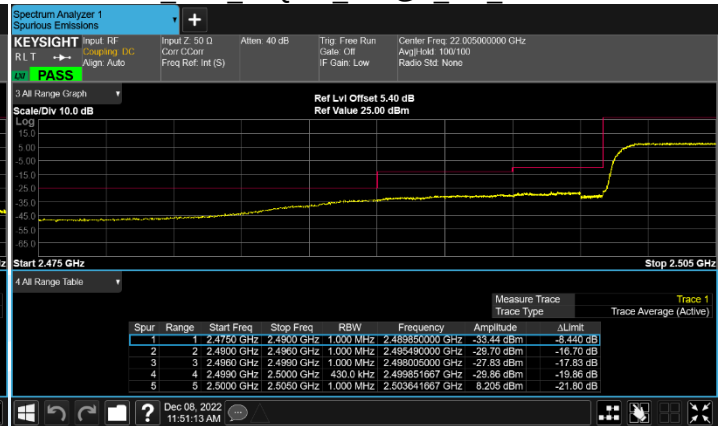
B7 5M 16QAM 25@0 CH 21425



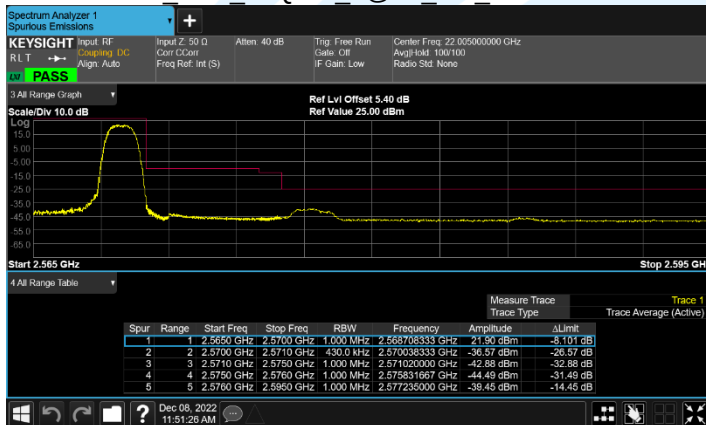
B7 20M 64QAM 1@0 CH 20850



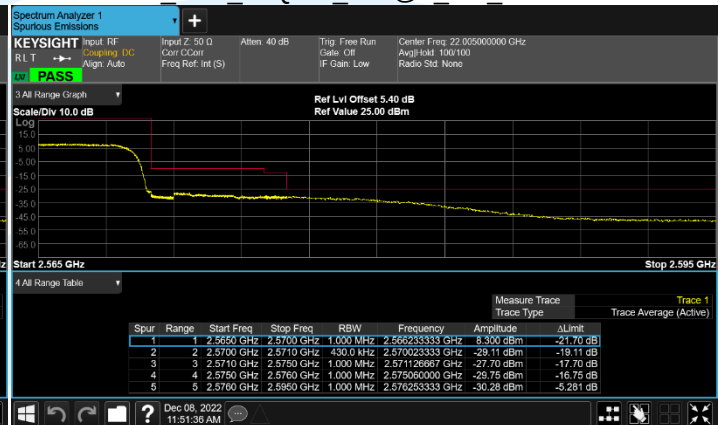
B7 20M 64QAM 100@0 CH 20850



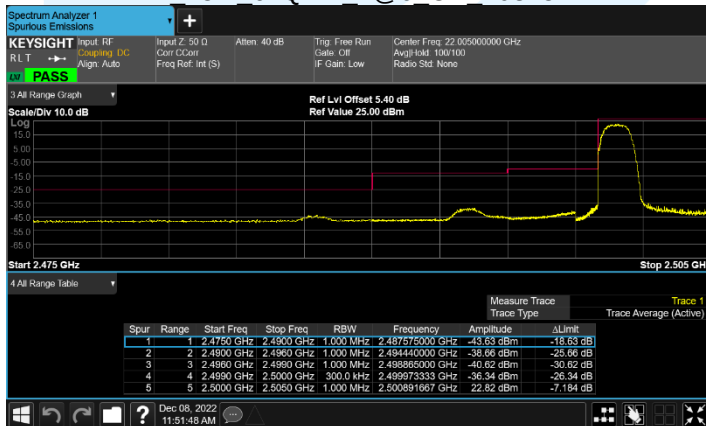
B7 20M 64QAM 1@99 CH 21350



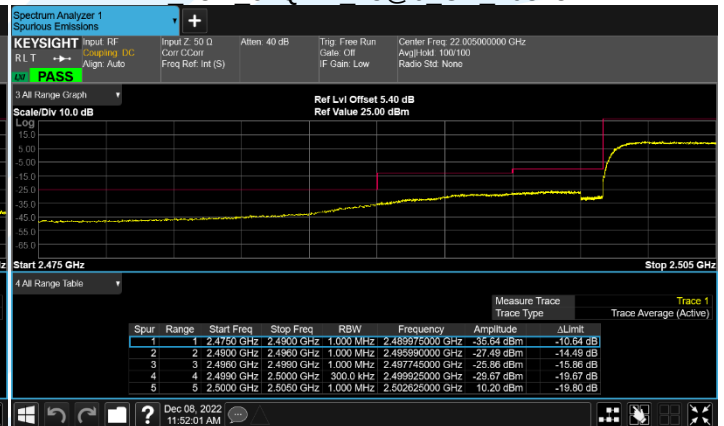
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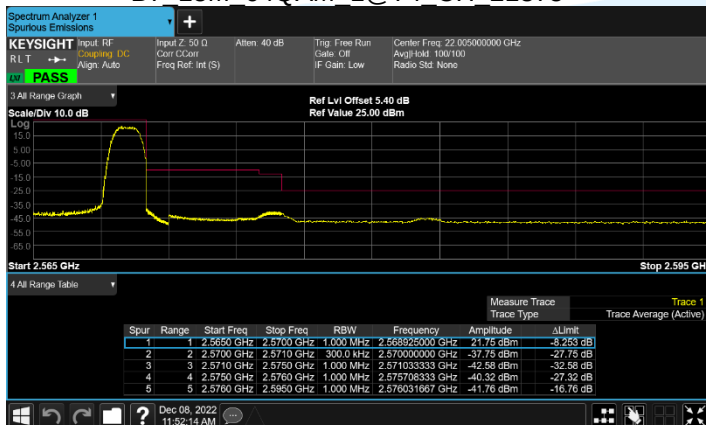
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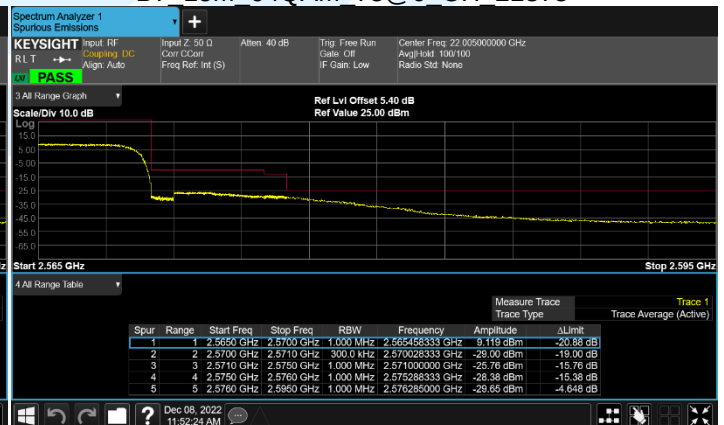
B7 15M 64QAM 75@0 CH 20825



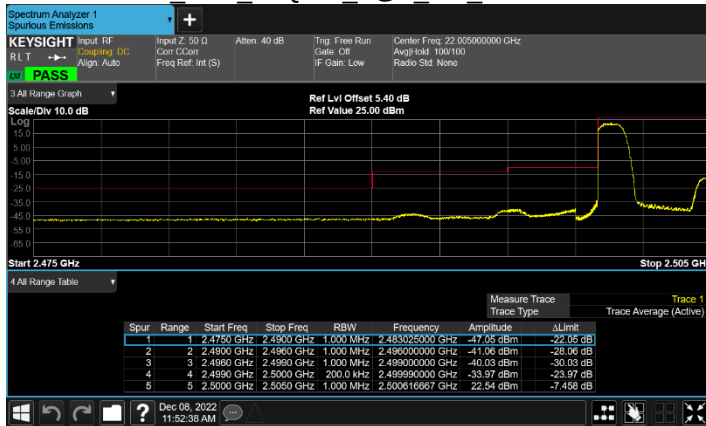
B7 15M 64QAM 1@74 CH 21375



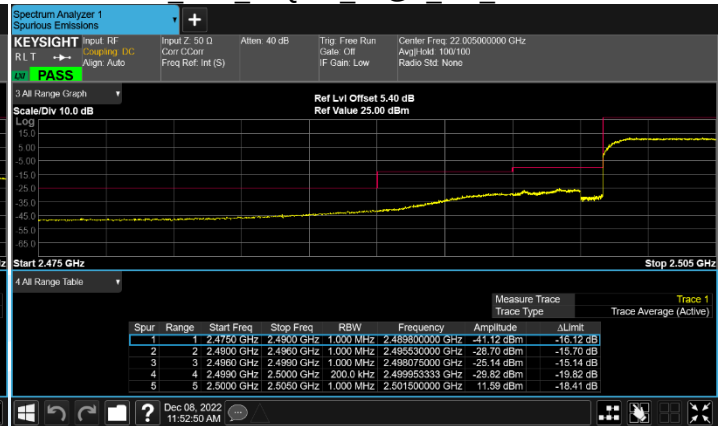
B7 15M 64QAM 75@0 CH 21375



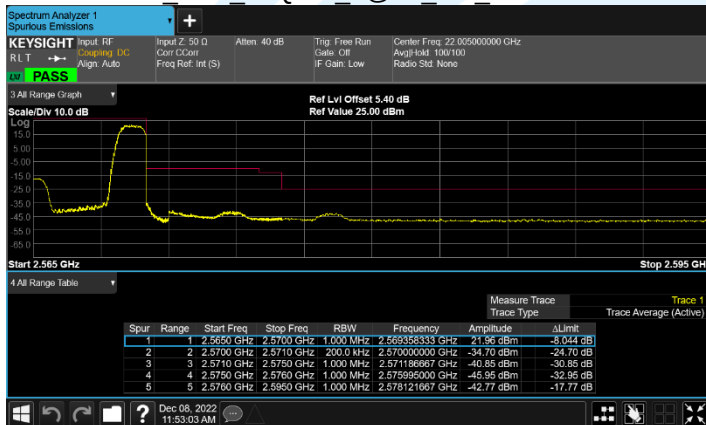
B7 10M 64QAM 1@0 CH 20800



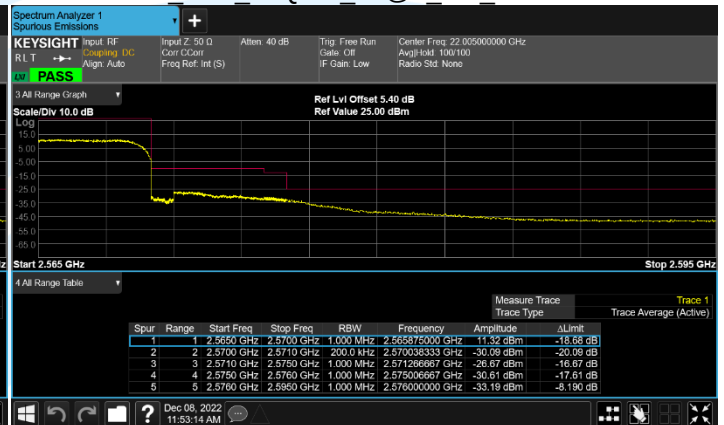
B7 10M 64QAM 50@0 CH 20800



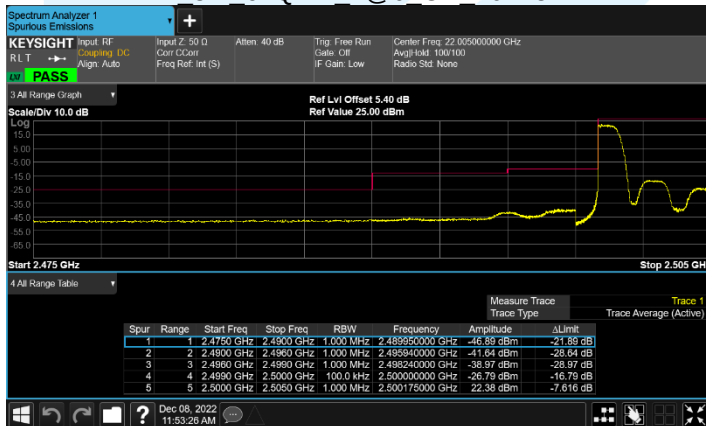
B7 10M 64QAM 1@49 CH 21400



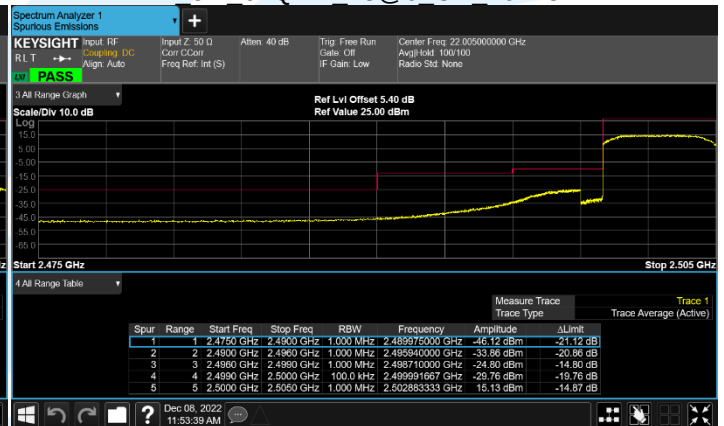
B7 10M 64QAM 50@0 CH 21400



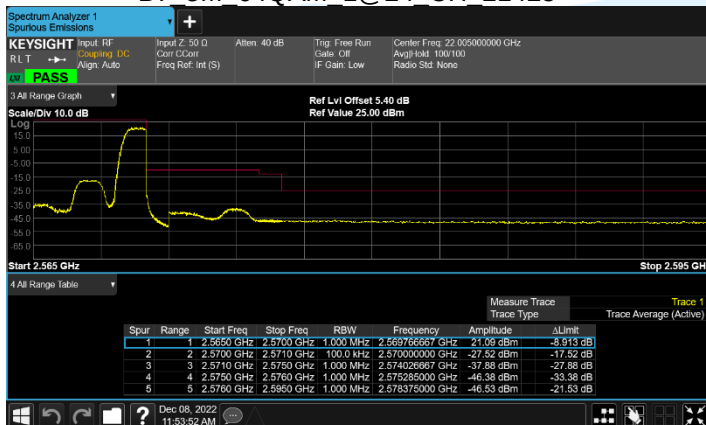
B7 5M 64QAM 1@0 CH 20775



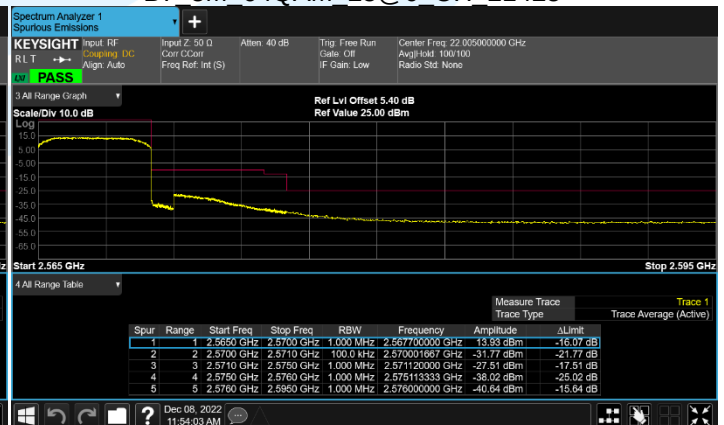
B7 5M 64QAM 25@0 CH 20775



B7 5M 64QAM 1@24 CH 21425



B7 5M 64QAM 25@0 CH 21425



## A.5 LTE BAND 12

## Peak to Average Ratio

| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB   | Result (dB) | Limit (dB) | Verdict |
|------|-----------------|---------|------------|------------|------|-------------|------------|---------|
| 12   | 10.0            | 23060   | 704.0      | QPSK       | 50@0 | 5.92        | 13         | PASS    |
| 12   | 10.0            | 23060   | 704.0      | 16QAM      | 50@0 | 6.61        | 13         | PASS    |
| 12   | 10.0            | 23060   | 704.0      | 64QAM      | 50@0 | 6.60        | 13         | PASS    |
| 12   | 10.0            | 23095   | 707.5      | QPSK       | 50@0 | 5.76        | 13         | PASS    |
| 12   | 10.0            | 23095   | 707.5      | 16QAM      | 50@0 | 6.49        | 13         | PASS    |
| 12   | 10.0            | 23095   | 707.5      | 64QAM      | 50@0 | 6.50        | 13         | PASS    |
| 12   | 10.0            | 23130   | 711.0      | QPSK       | 50@0 | 5.60        | 13         | PASS    |
| 12   | 10.0            | 23130   | 711.0      | 16QAM      | 50@0 | 6.39        | 13         | PASS    |
| 12   | 10.0            | 23130   | 711.0      | 64QAM      | 50@0 | 6.36        | 13         | PASS    |

B12\_10M\_QPSK\_50@0\_CH\_23060



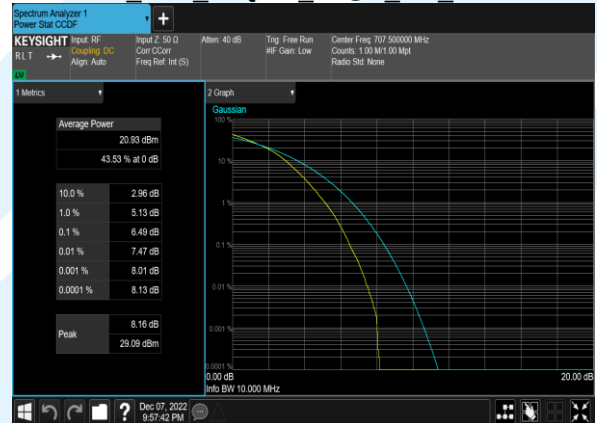
B12\_10M\_16QAM\_50@0\_CH\_23060



B12\_10M\_QPSK\_50@0\_CH\_23095



B12\_10M\_16QAM\_50@0\_CH\_23095



B12\_10M\_QPSK\_50@0\_CH\_23130



B12\_10M\_16QAM\_50@0\_CH\_23130



B12\_10M\_64QAM\_50@0\_CH\_23060



B12\_10M\_64QAM\_50@0\_CH\_23095



B12\_10M\_64QAM\_50@0\_CH\_23130



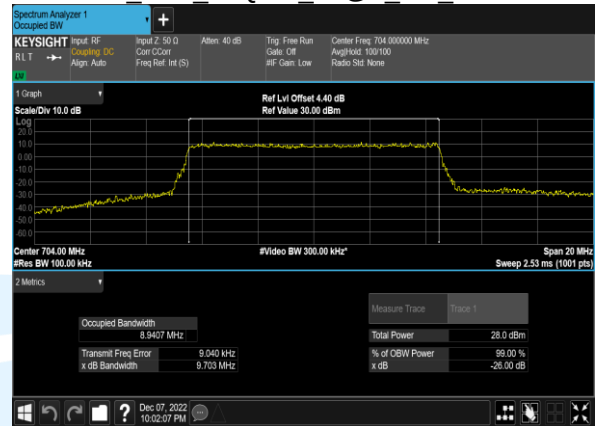
### Occupied Bandwidth

| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB   | OBW (MHz) | 26dB BW (MHz) |
|------|-----------------|---------|------------|------------|------|-----------|---------------|
| 12   | 10.0            | 23060   | 704.0      | QPSK       | 50@0 | 8.9523    | 20.00         |
| 12   | 10.0            | 23060   | 704.0      | 16QAM      | 50@0 | 8.9407    | 9.703         |
| 12   | 10.0            | 23060   | 704.0      | 64QAM      | 50@0 | 8.9506    | 9.655         |
| 12   | 10.0            | 23095   | 707.5      | QPSK       | 50@0 | 8.9383    | 9.673         |
| 12   | 10.0            | 23095   | 707.5      | 16QAM      | 50@0 | 8.9289    | 9.556         |
| 12   | 10.0            | 23095   | 707.5      | 64QAM      | 50@0 | 8.9367    | 9.649         |
| 12   | 10.0            | 23130   | 711.0      | QPSK       | 50@0 | 8.9311    | 9.618         |
| 12   | 10.0            | 23130   | 711.0      | 16QAM      | 50@0 | 8.9212    | 9.528         |
| 12   | 10.0            | 23130   | 711.0      | 64QAM      | 50@0 | 8.9216    | 9.564         |
| 12   | 5.0             | 23035   | 701.5      | QPSK       | 25@0 | 4.4560    | 4.849         |
| 12   | 5.0             | 23035   | 701.5      | 16QAM      | 25@0 | 4.4626    | 4.870         |
| 12   | 5.0             | 23035   | 701.5      | 64QAM      | 25@0 | 4.4545    | 4.873         |
| 12   | 5.0             | 23095   | 707.5      | QPSK       | 25@0 | 4.4677    | 4.849         |
| 12   | 5.0             | 23095   | 707.5      | 16QAM      | 25@0 | 4.4644    | 4.871         |
| 12   | 5.0             | 23095   | 707.5      | 64QAM      | 25@0 | 4.4763    | 4.894         |
| 12   | 5.0             | 23155   | 713.5      | QPSK       | 25@0 | 4.4544    | 4.880         |
| 12   | 5.0             | 23155   | 713.5      | 16QAM      | 25@0 | 4.4524    | 4.880         |
| 12   | 5.0             | 23155   | 713.5      | 64QAM      | 25@0 | 4.4592    | 4.871         |
| 12   | 3.0             | 23025   | 700.5      | QPSK       | 15@0 | 2.6836    | 2.950         |
| 12   | 3.0             | 23025   | 700.5      | 16QAM      | 15@0 | 2.6780    | 2.984         |
| 12   | 3.0             | 23025   | 700.5      | 64QAM      | 15@0 | 2.6753    | 2.988         |
| 12   | 3.0             | 23095   | 707.5      | QPSK       | 15@0 | 2.6828    | 2.973         |
| 12   | 3.0             | 23095   | 707.5      | 16QAM      | 15@0 | 2.6883    | 2.968         |
| 12   | 3.0             | 23095   | 707.5      | 64QAM      | 15@0 | 2.6787    | 2.969         |
| 12   | 3.0             | 23165   | 714.5      | QPSK       | 15@0 | 2.6859    | 2.942         |
| 12   | 3.0             | 23165   | 714.5      | 16QAM      | 15@0 | 2.6843    | 2.978         |
| 12   | 3.0             | 23165   | 714.5      | 64QAM      | 15@0 | 2.6817    | 2.965         |
| 12   | 1.4             | 23017   | 699.7      | QPSK       | 6@0  | 1.0772    | 1.215         |
| 12   | 1.4             | 23017   | 699.7      | 16QAM      | 6@0  | 1.0829    | 1.230         |
| 12   | 1.4             | 23017   | 699.7      | 64QAM      | 6@0  | 1.0808    | 1.225         |
| 12   | 1.4             | 23095   | 707.5      | QPSK       | 6@0  | 1.0787    | 1.211         |
| 12   | 1.4             | 23095   | 707.5      | 16QAM      | 6@0  | 1.0774    | 1.216         |
| 12   | 1.4             | 23095   | 707.5      | 64QAM      | 6@0  | 1.0770    | 1.217         |
| 12   | 1.4             | 23173   | 715.3      | QPSK       | 6@0  | 1.0789    | 1.218         |
| 12   | 1.4             | 23173   | 715.3      | 16QAM      | 6@0  | 1.0797    | 1.229         |
| 12   | 1.4             | 23173   | 715.3      | 64QAM      | 6@0  | 1.0807    | 1.216         |

B12 10M QPSK 50

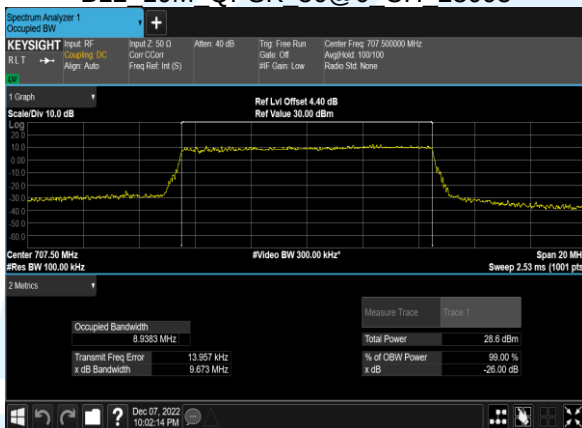


B12 10M 16QAM 50@0 CH 23060

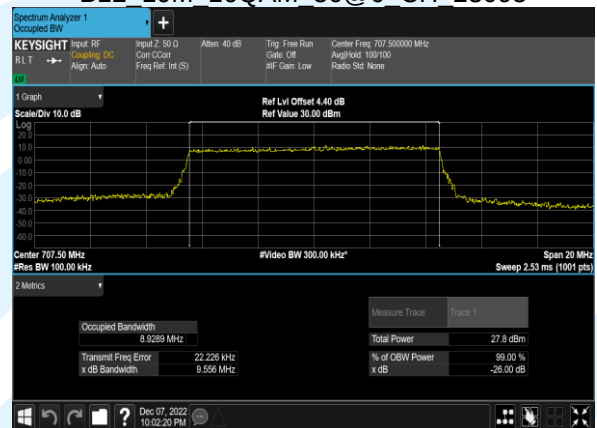


@0\_CH\_23060

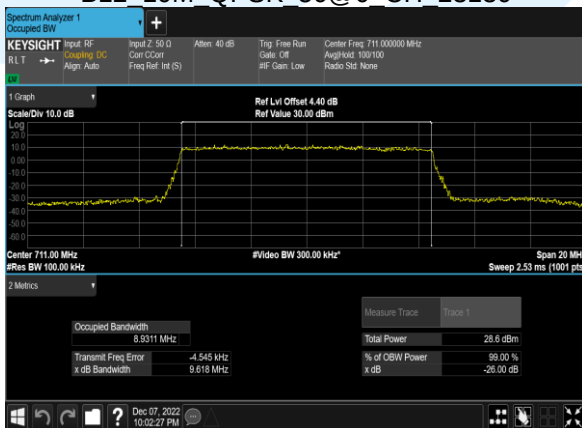
B12 10M QPSK 50@0 CH 23095



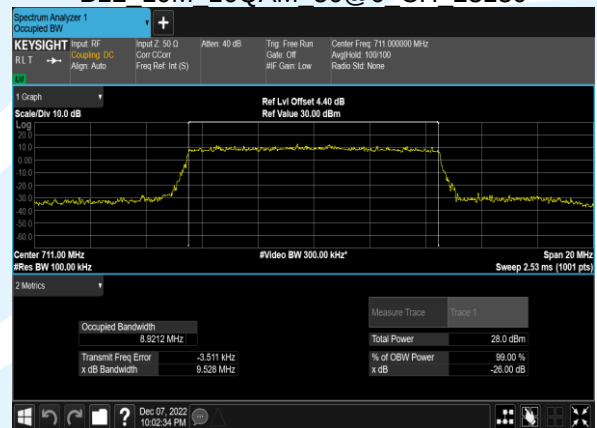
B12 10M 16QAM 50@0 CH 23095



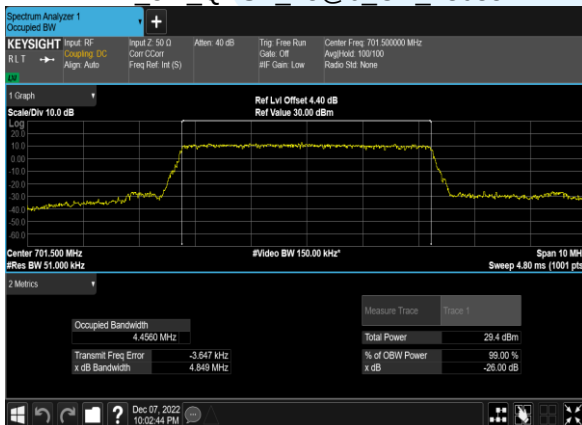
B12 10M QPSK 50@0 CH 23130



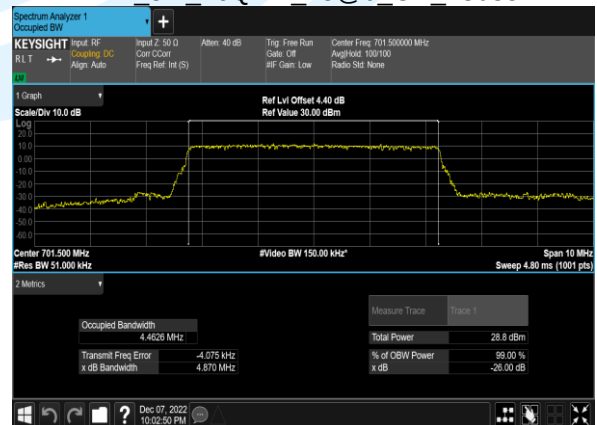
B12 10M 16QAM 50@0 CH 23130



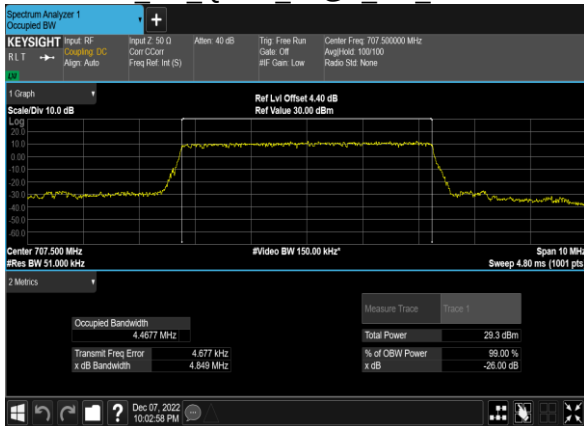
B12 5M QPSK 25@0 CH 23035



B12 5M 16QAM 25@0 CH 23035



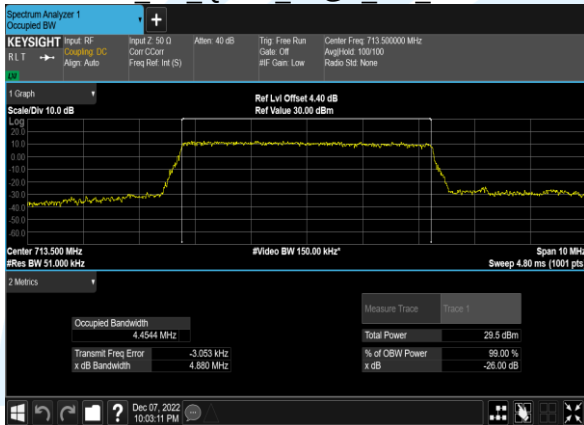
B12 5M QPSK 25@0 CH 23095



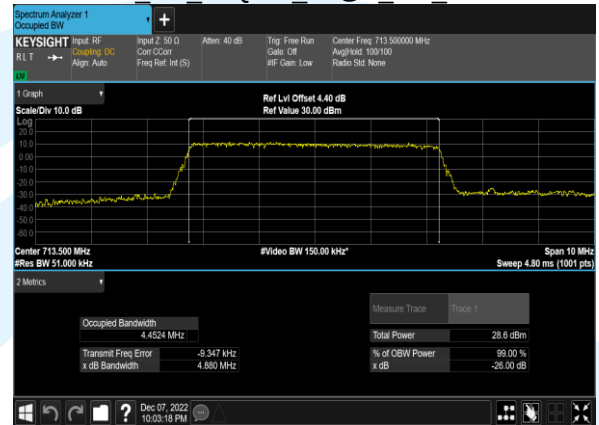
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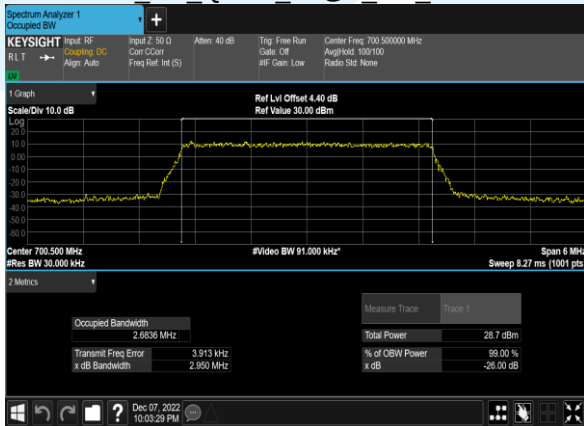
B12 5M QPSK 25@0 CH 23155



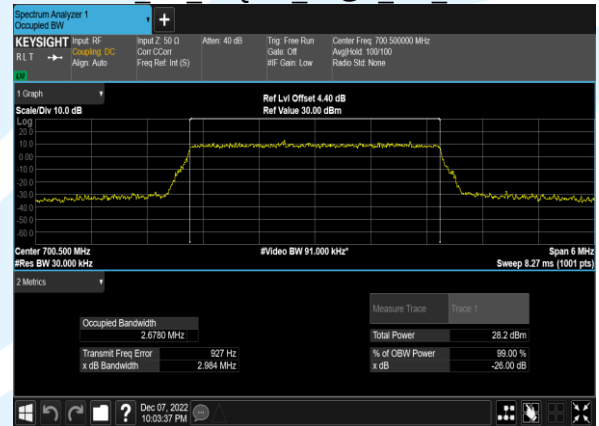
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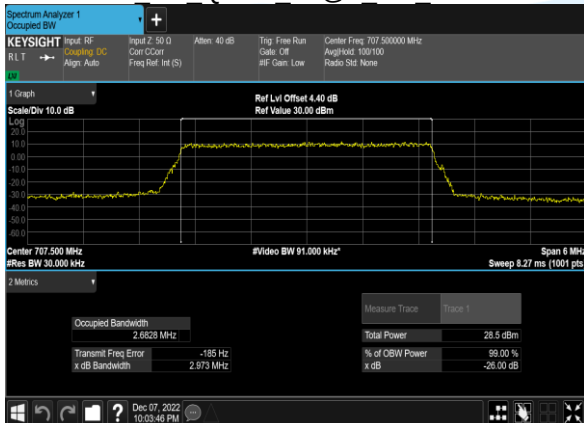
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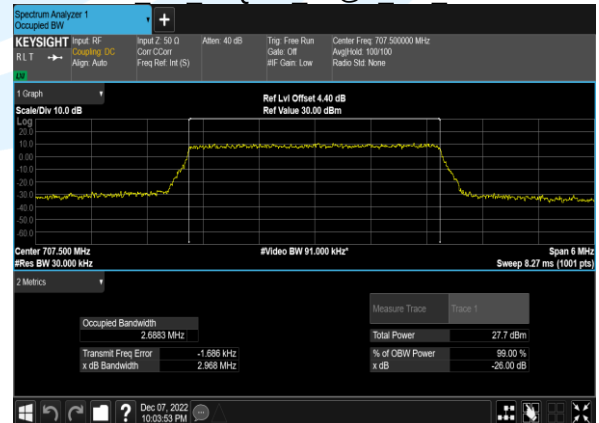
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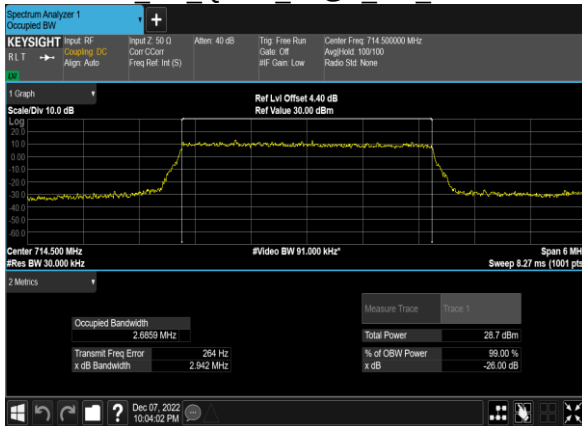
B12 3M QPSK 15@0 CH 23095



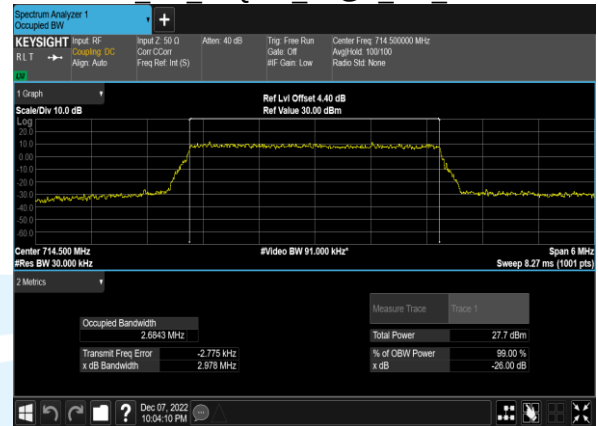
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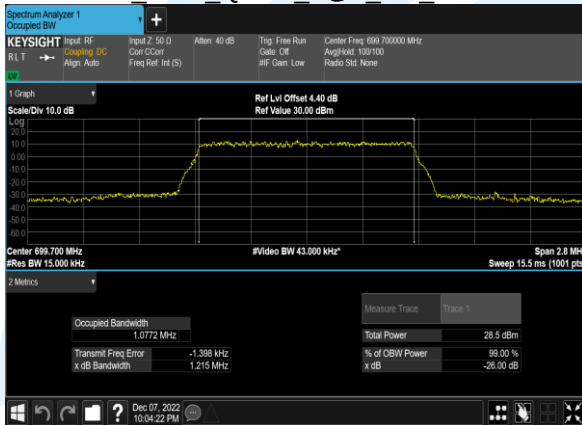
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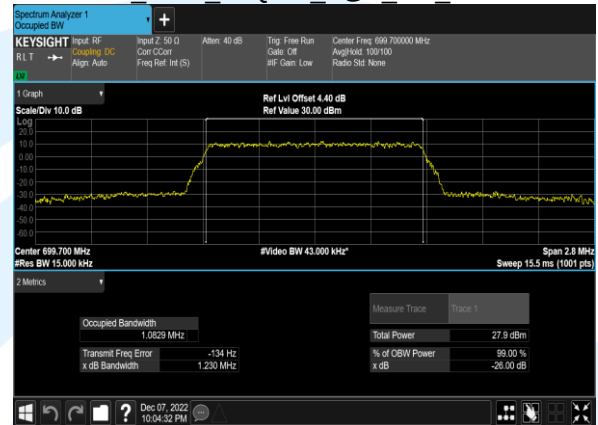
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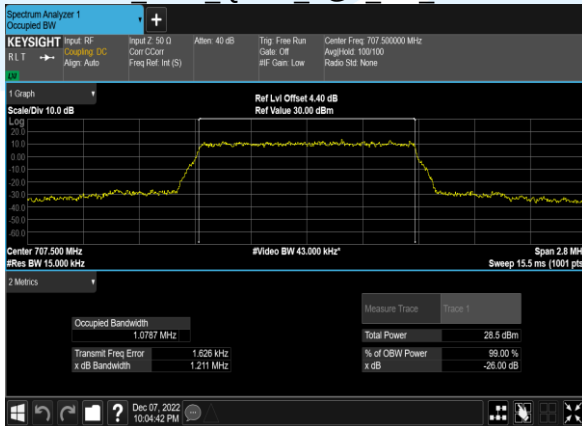
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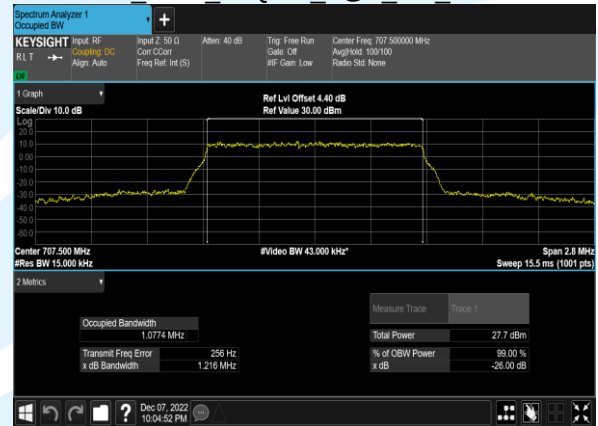
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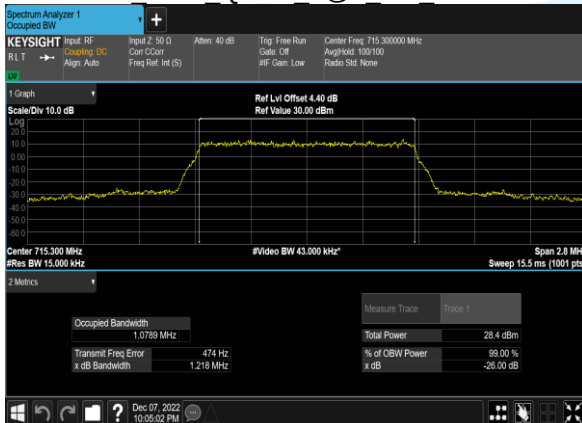
B12 1.4M QPSK 6@0 CH 23095



B12 1.4M 16QAM 6@0 CH 23095



B12 1.4M QPSK 6@0 CH 23173



B12 1.4M 16QAM 6@0 CH 23173

