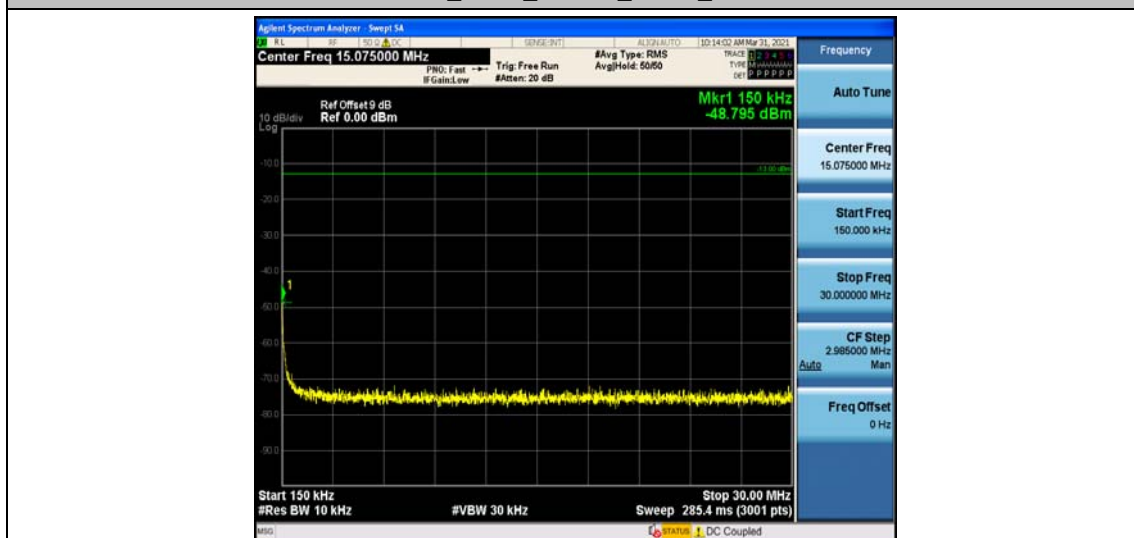




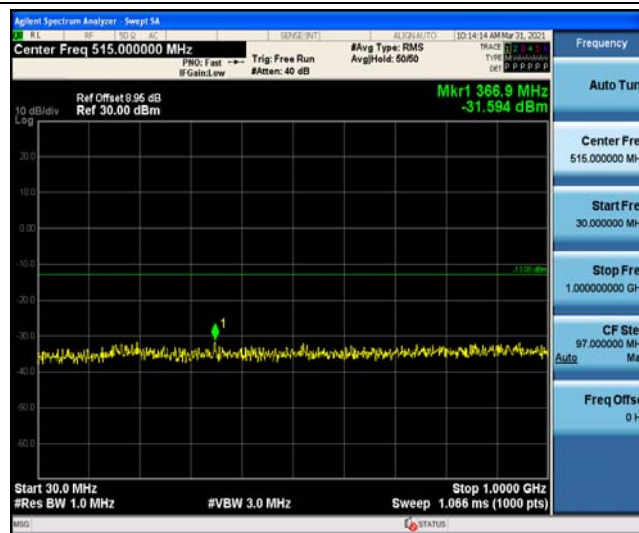
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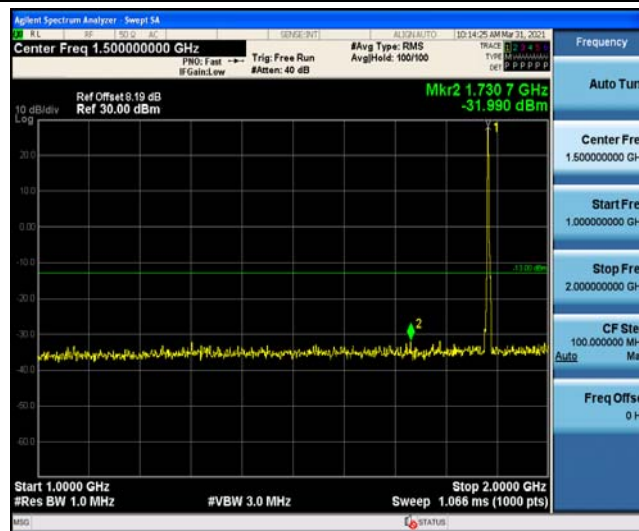
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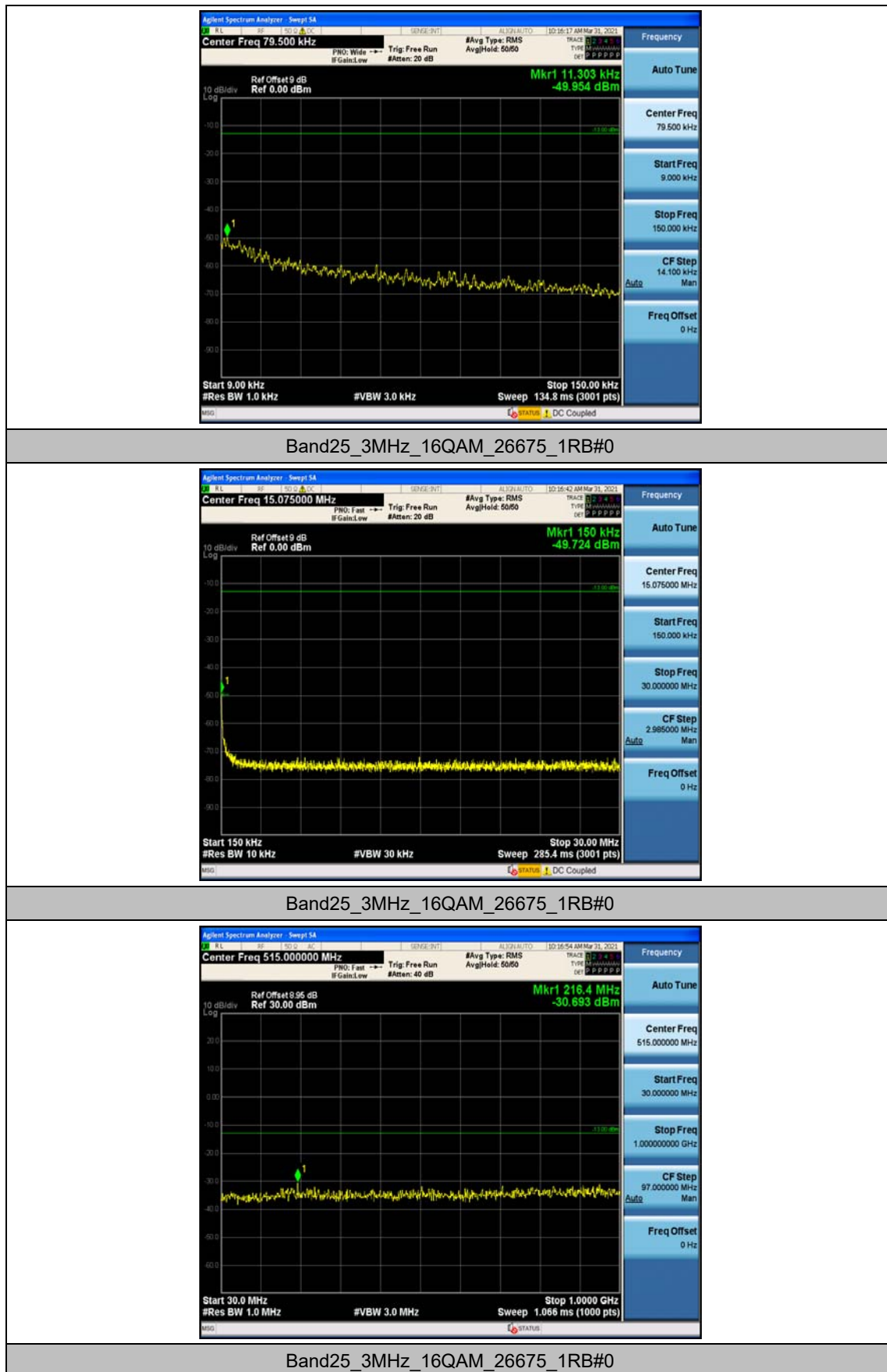
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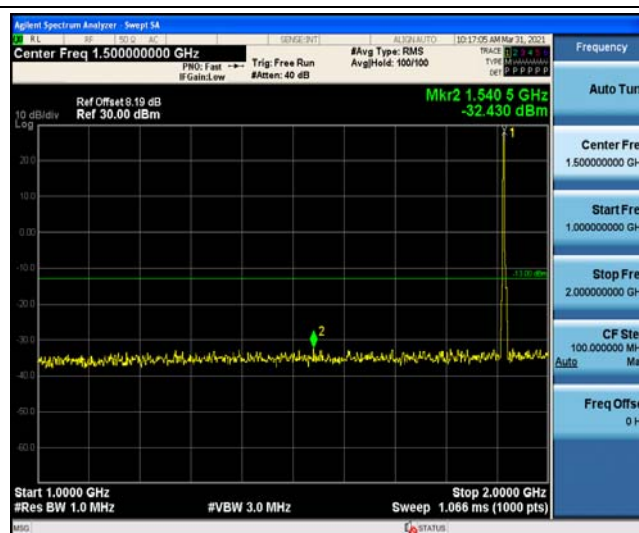


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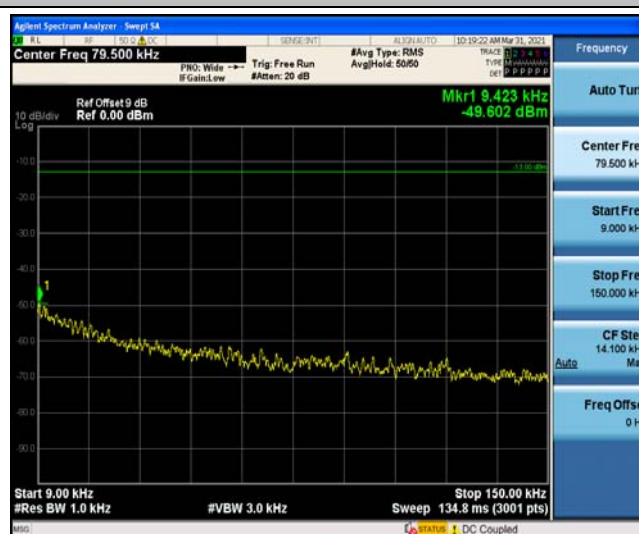




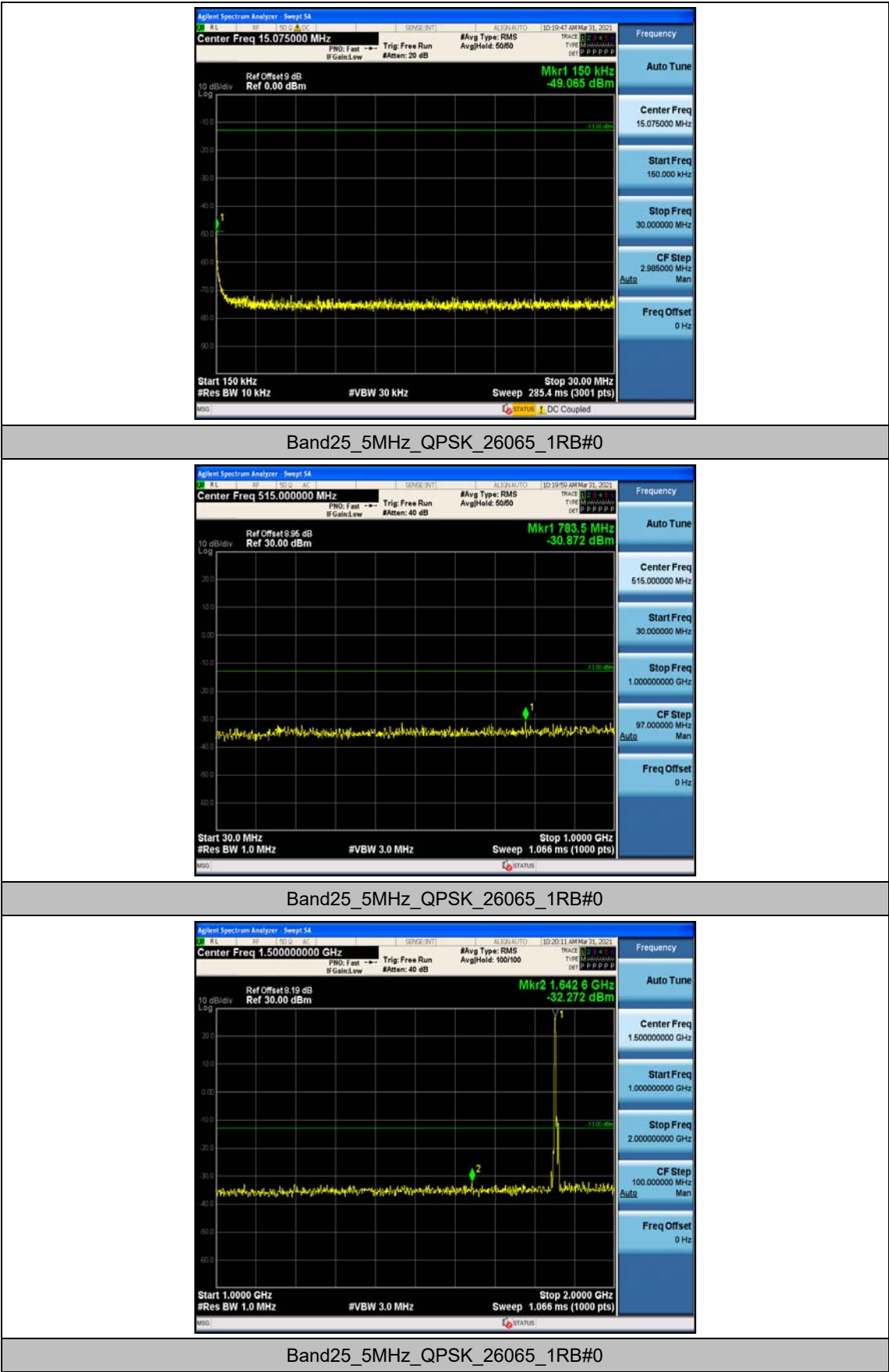
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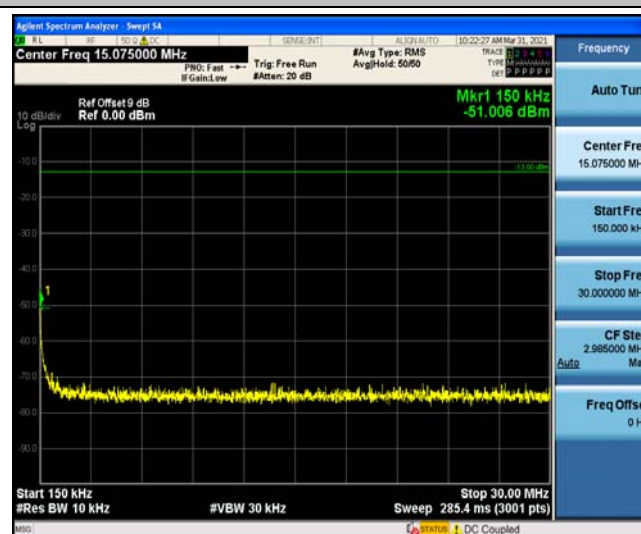




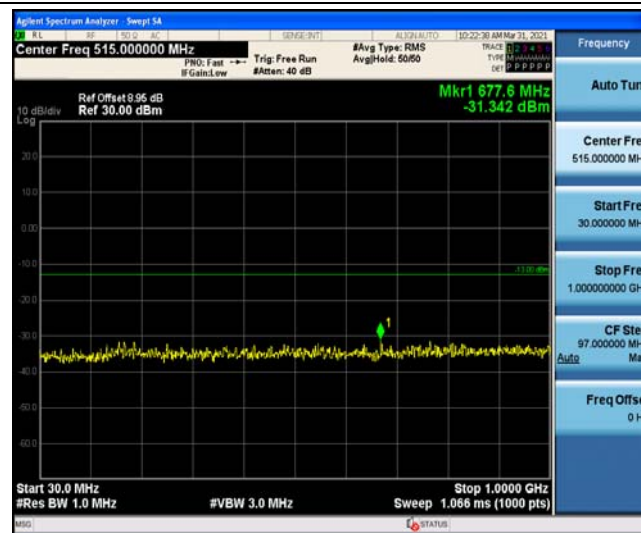
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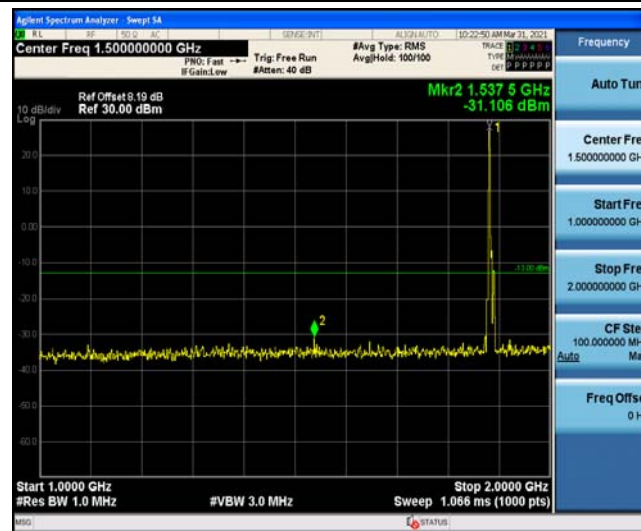
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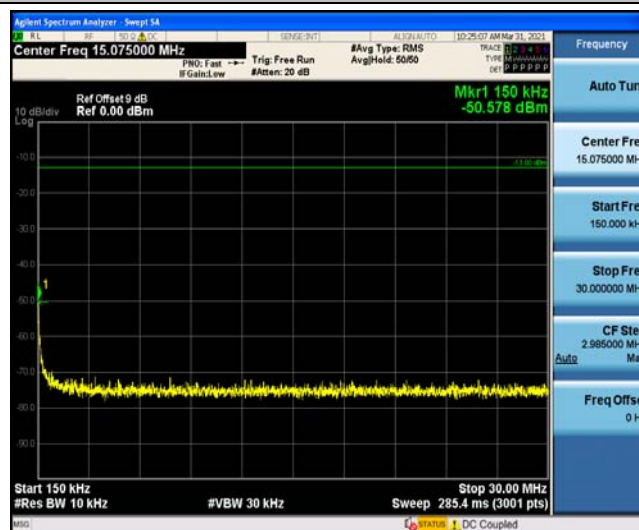
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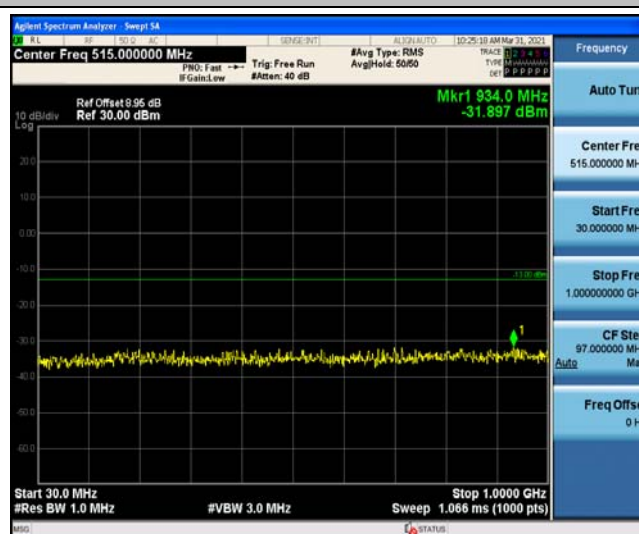
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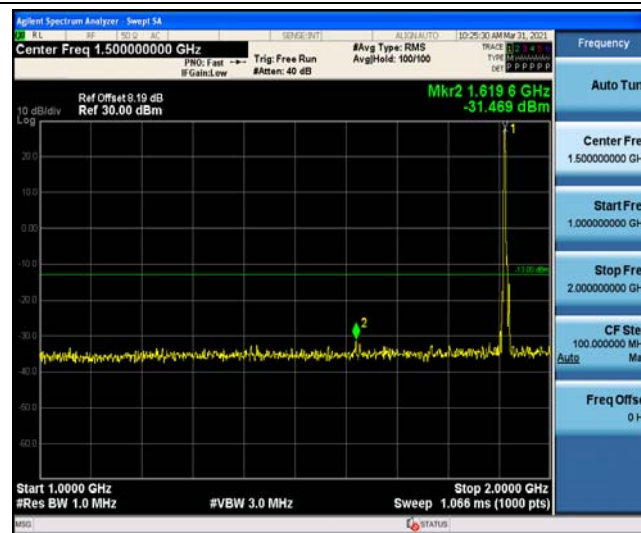
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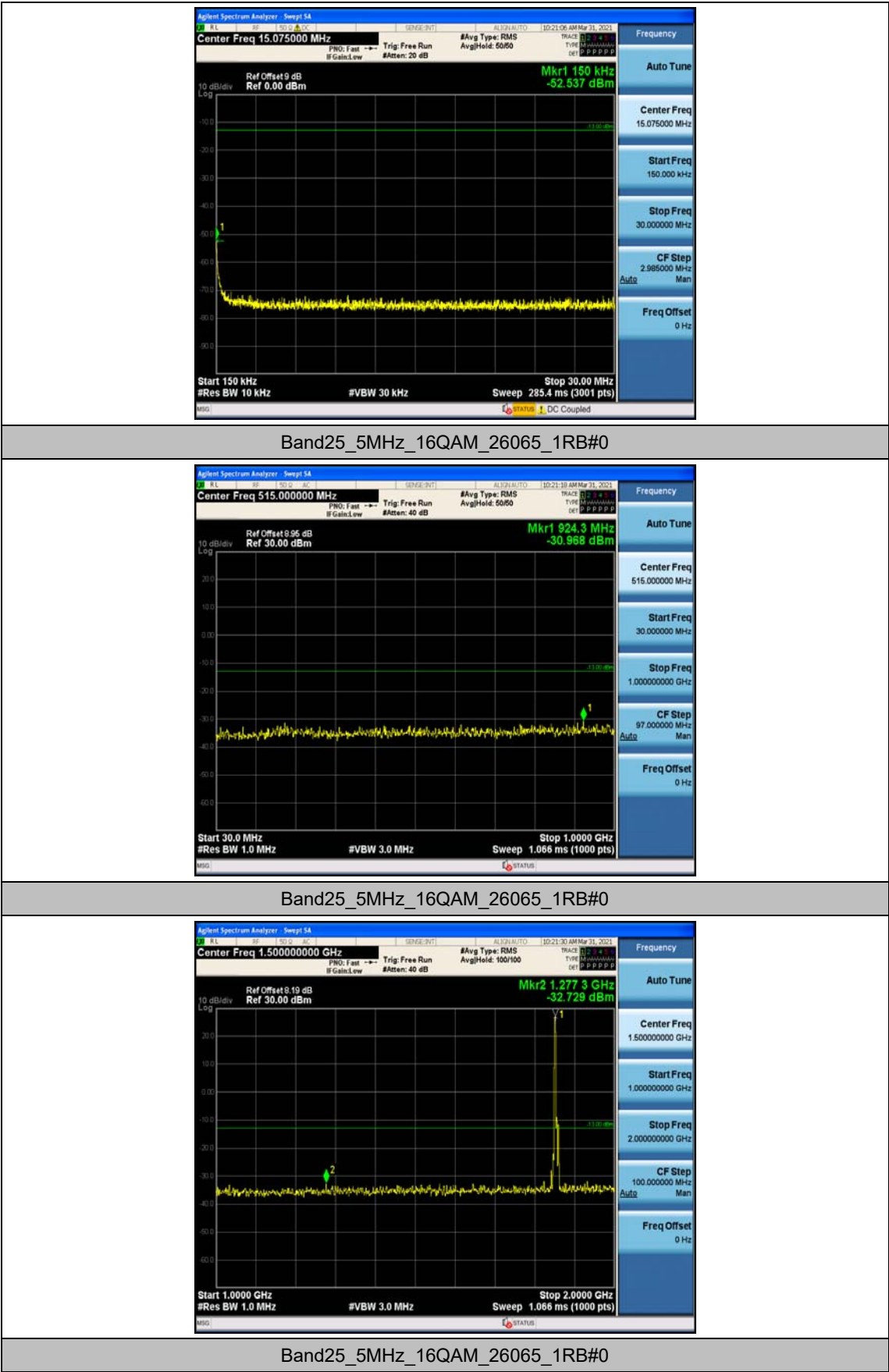
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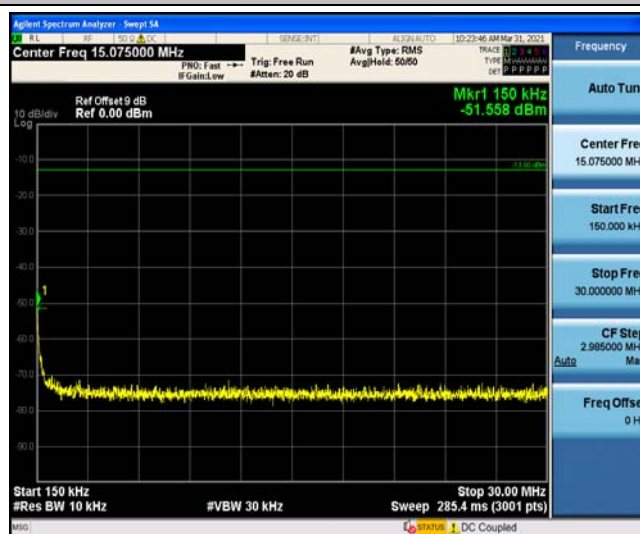




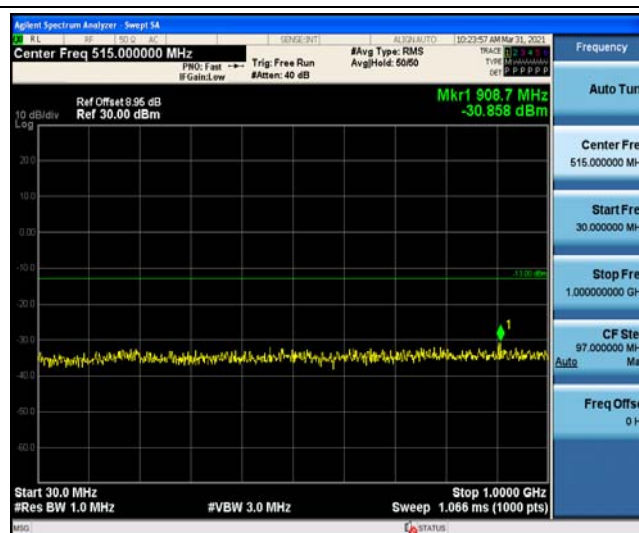
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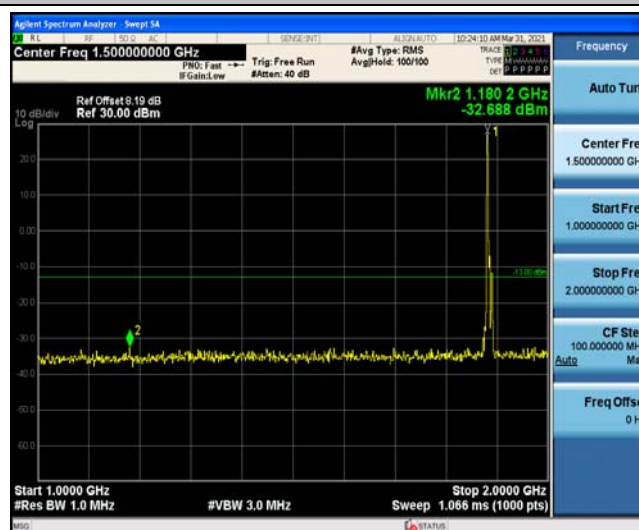
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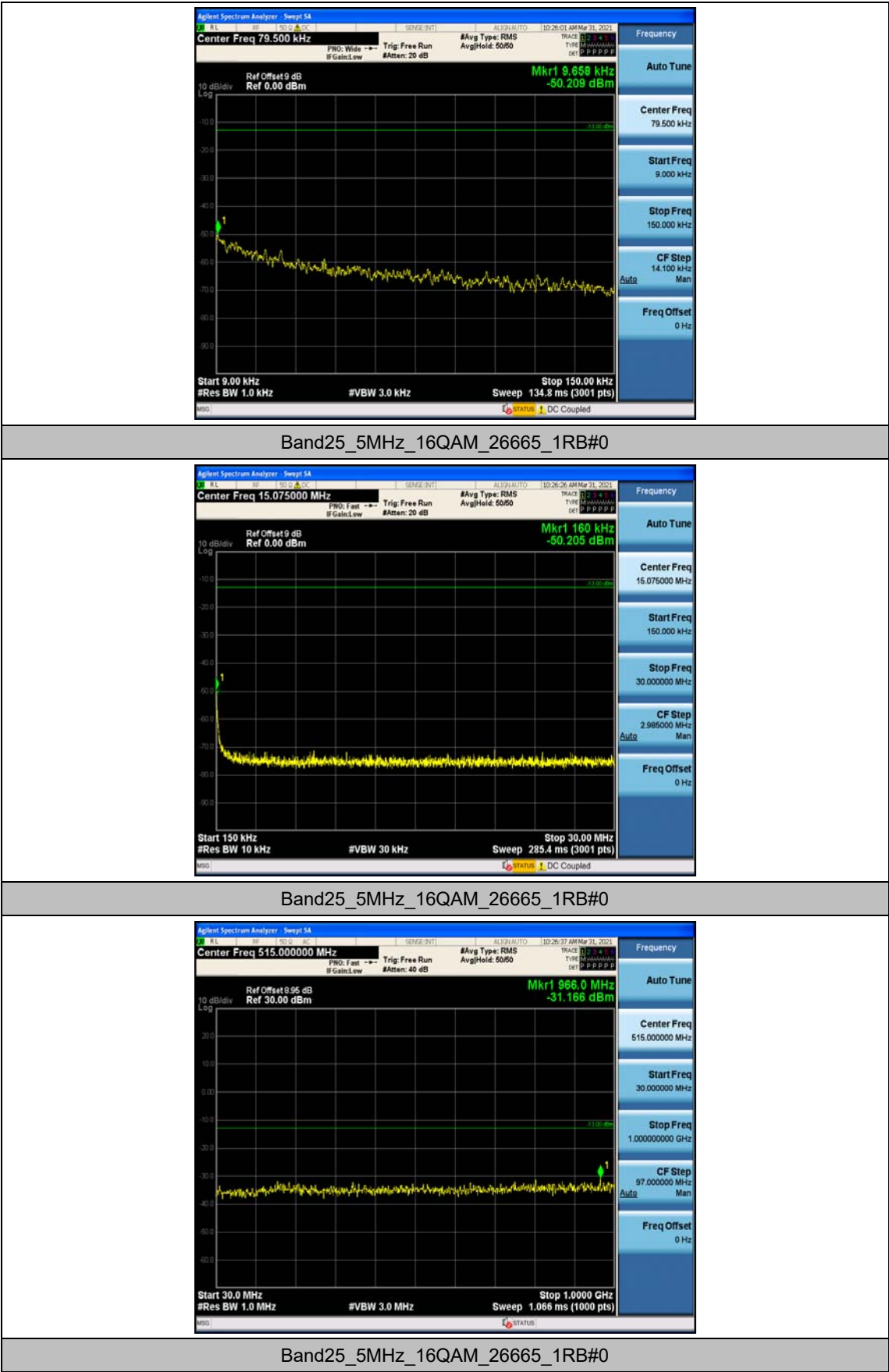
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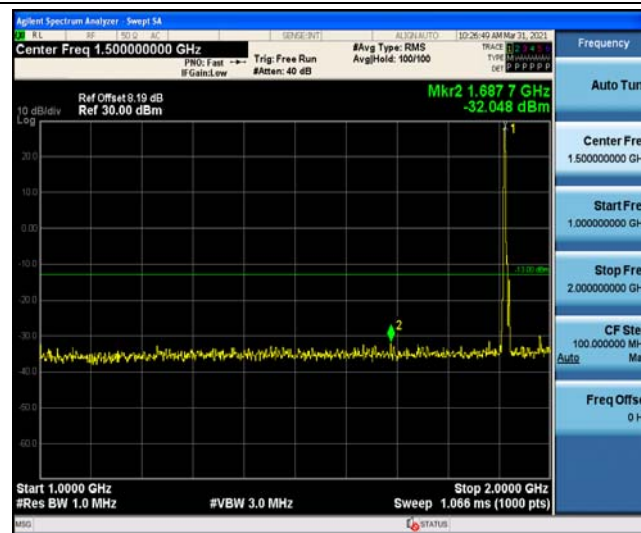


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Band25\_5MHz\_16QAM\_26665\_1RB#0





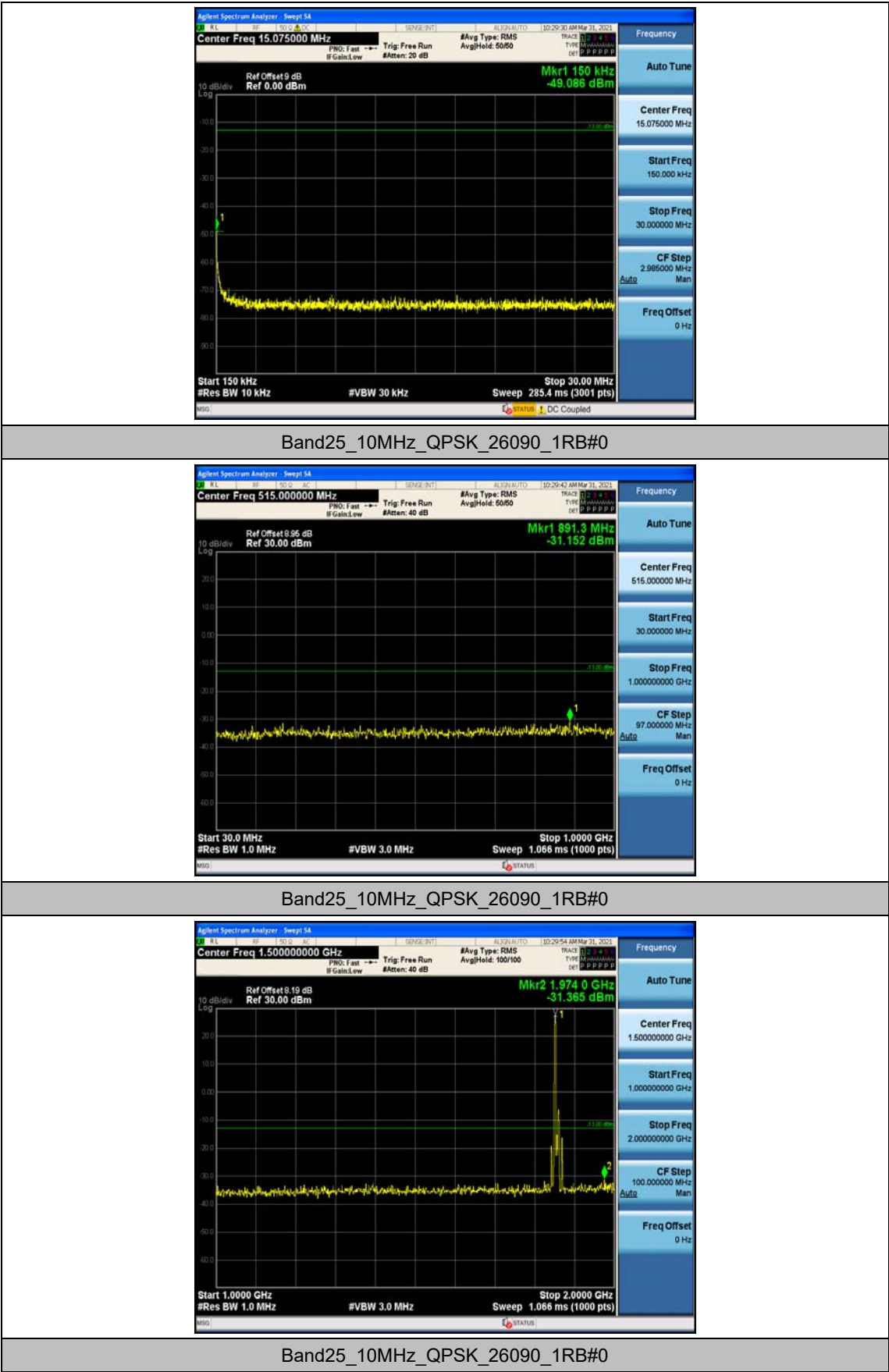
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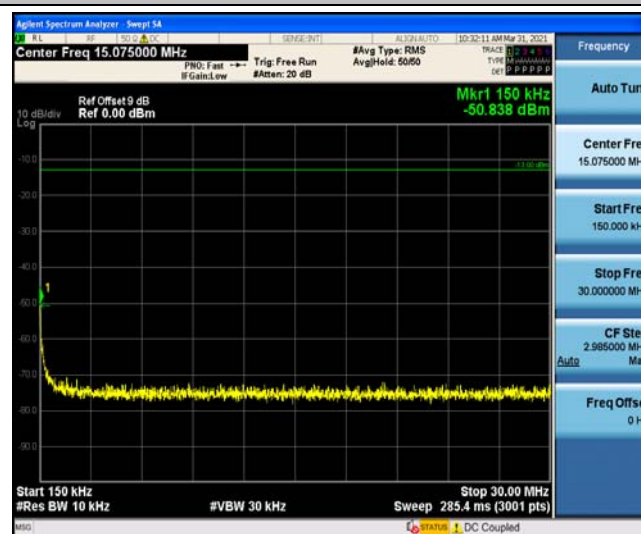




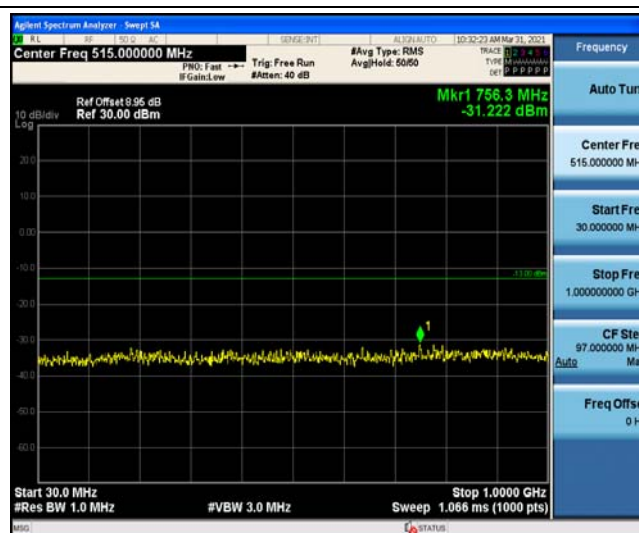
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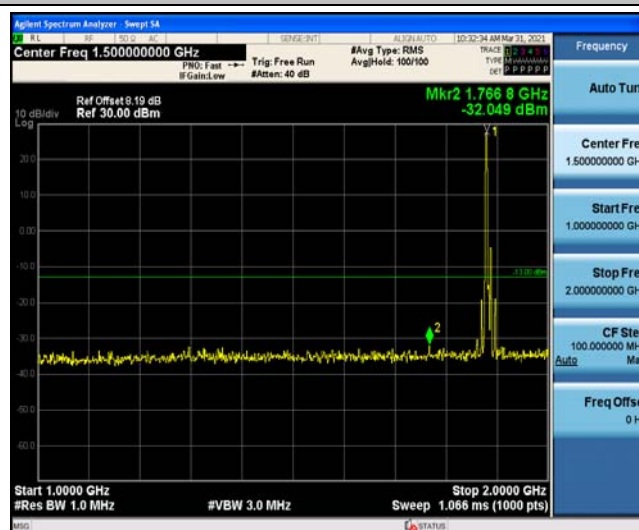
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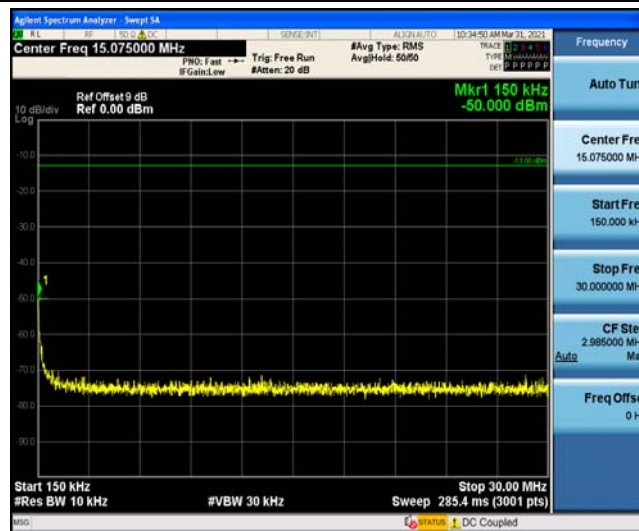
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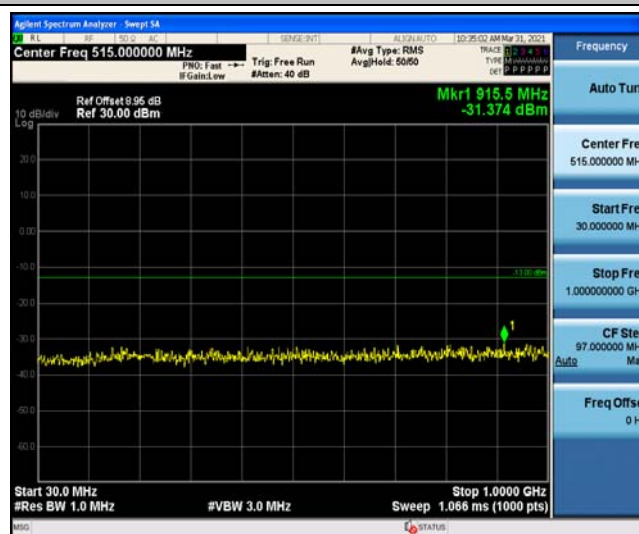
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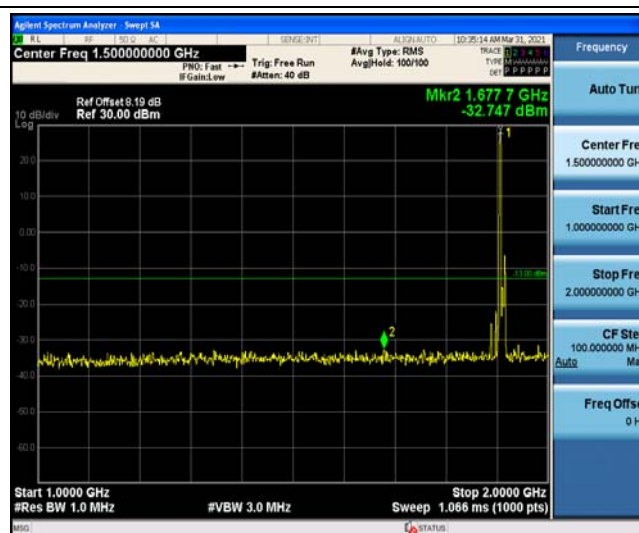
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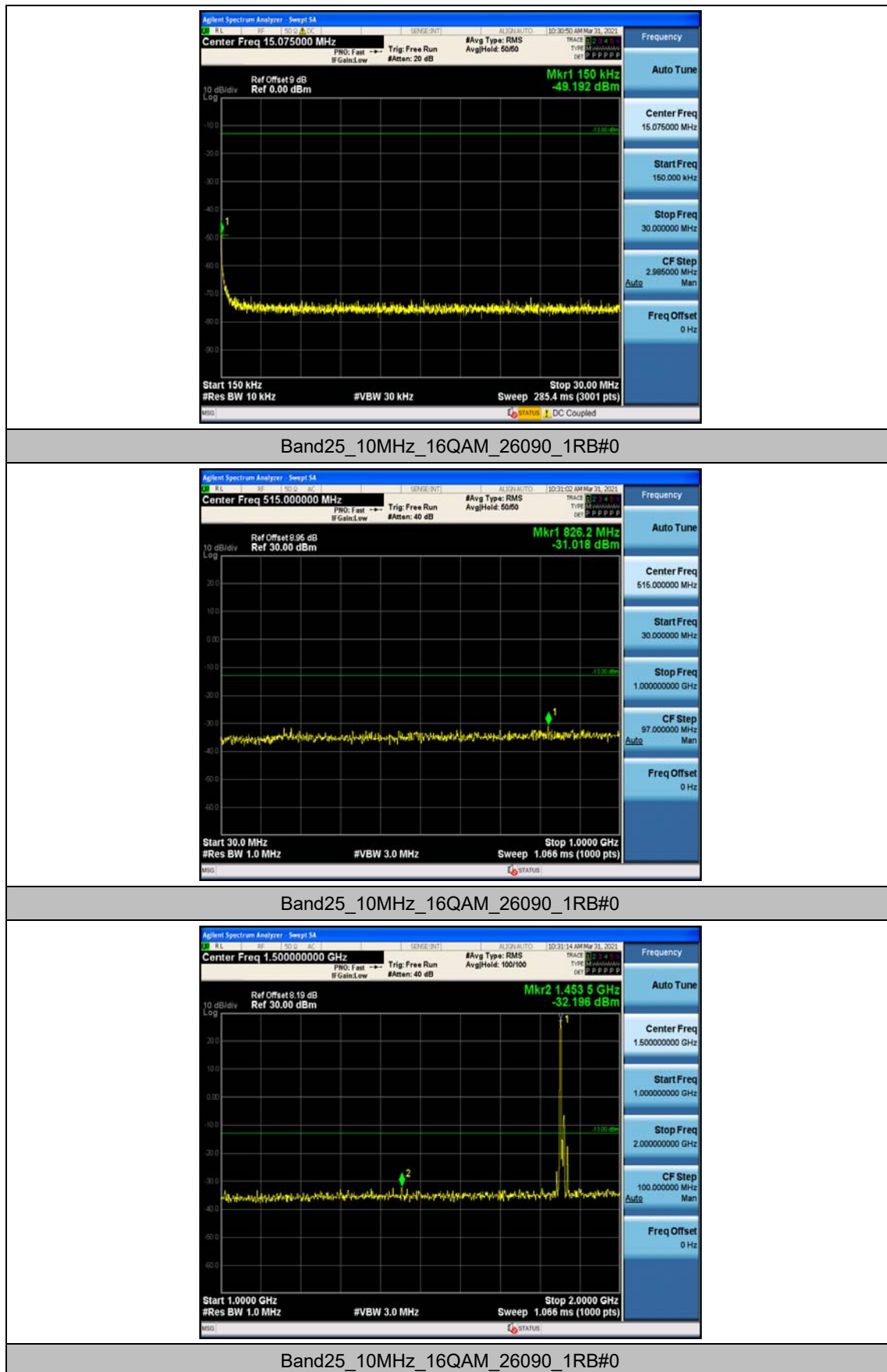
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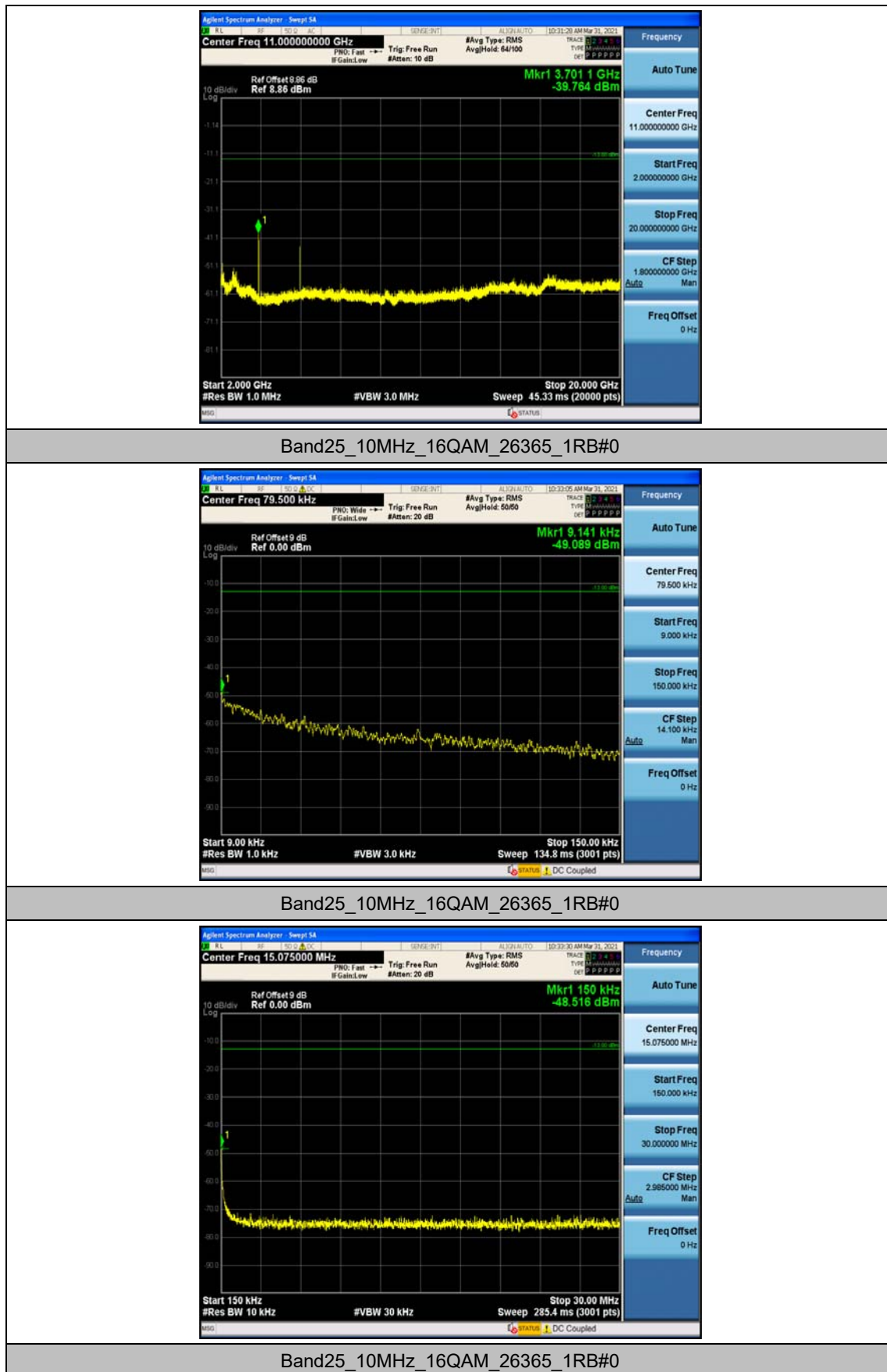


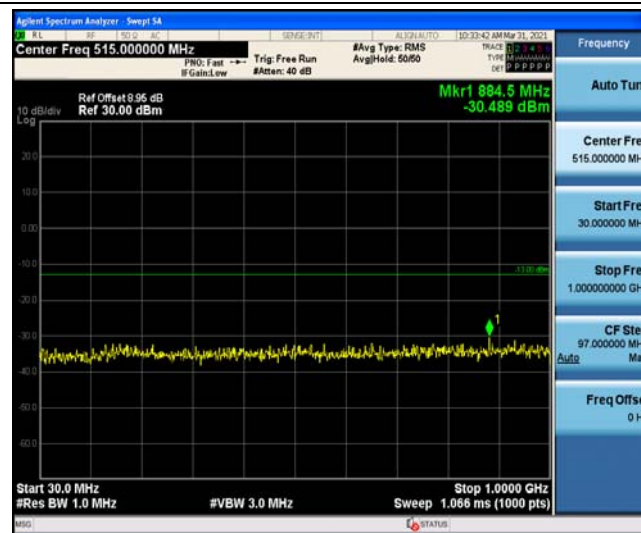
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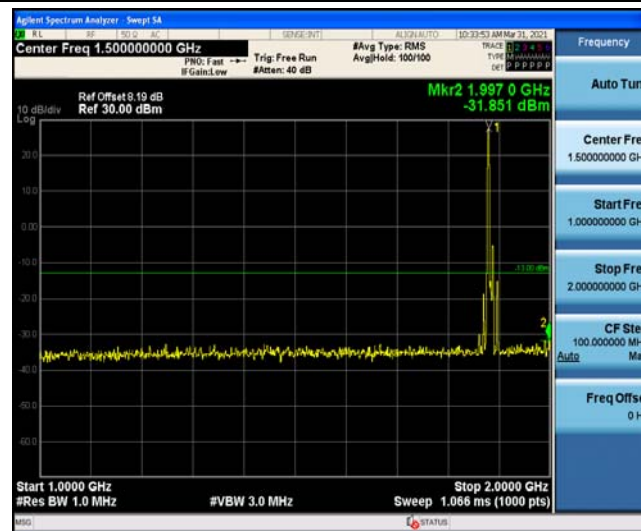
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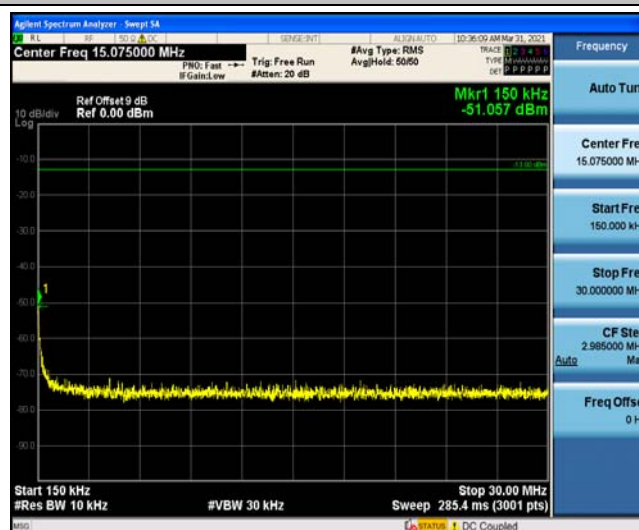
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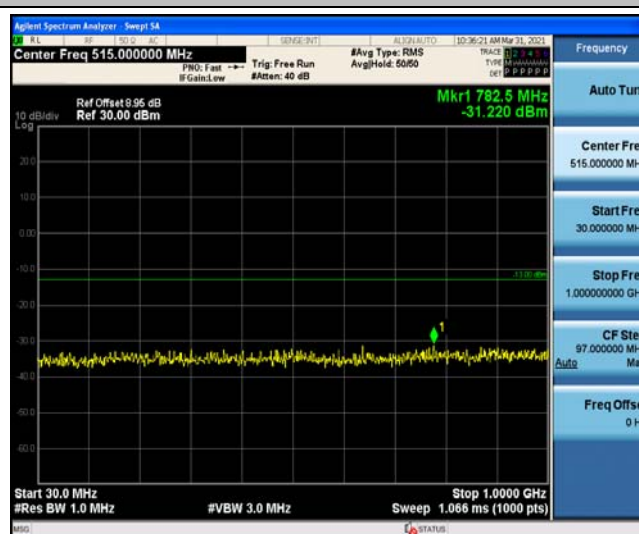
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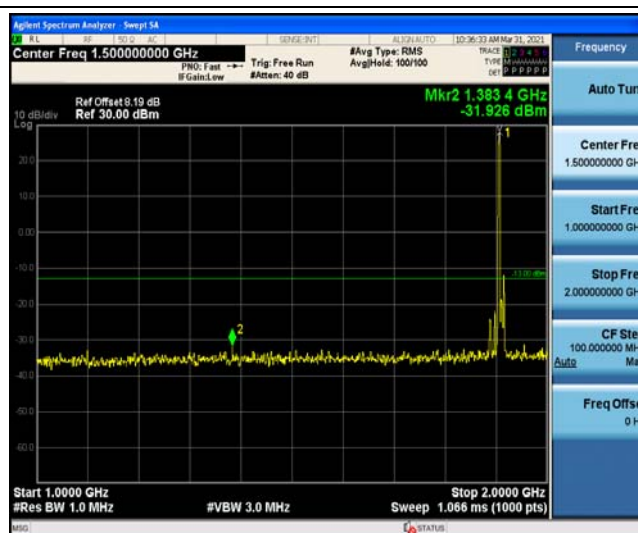
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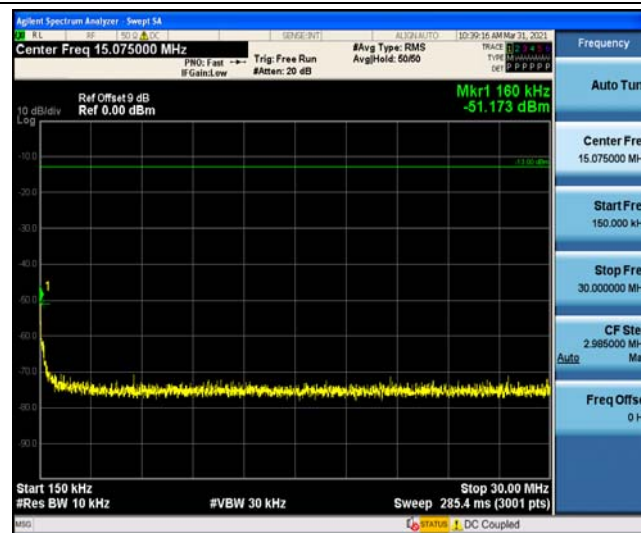
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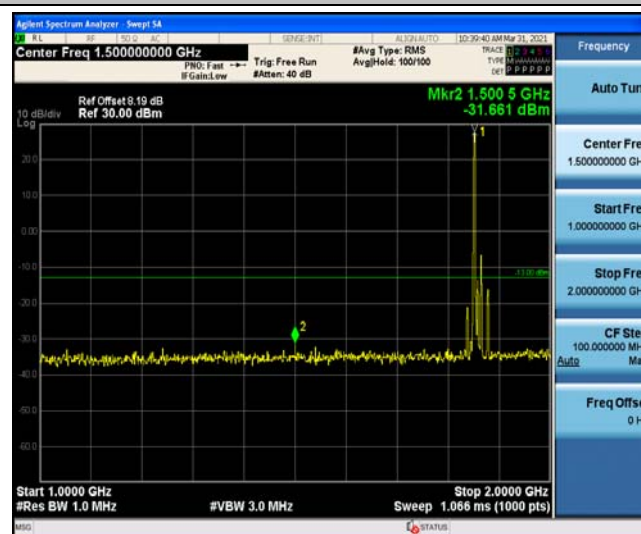
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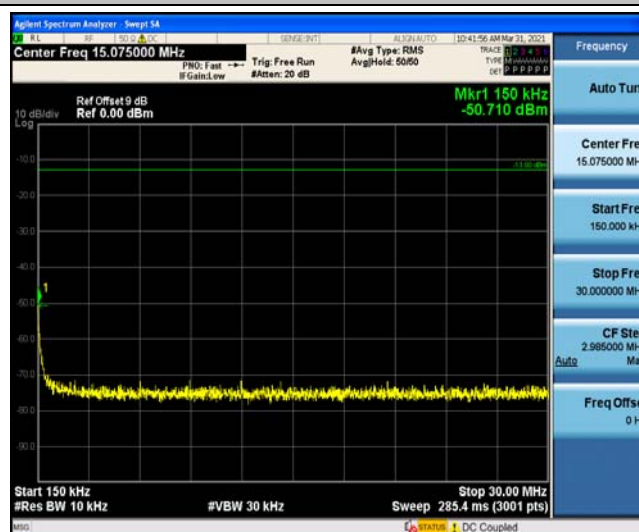
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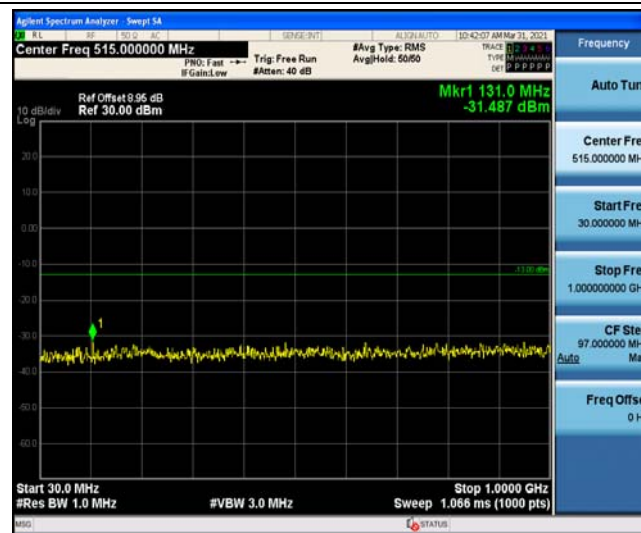
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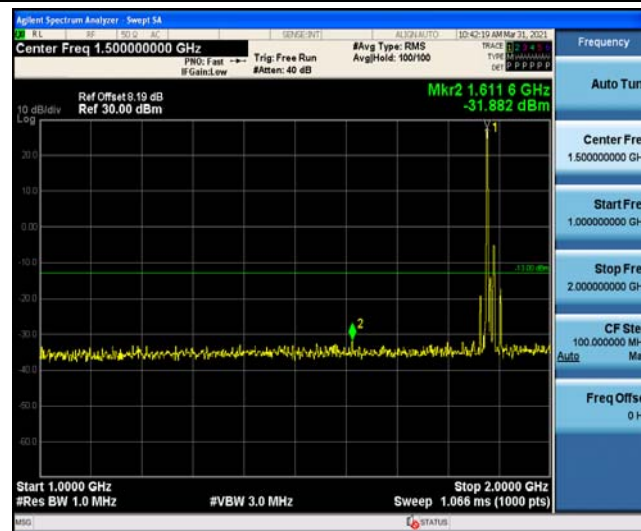
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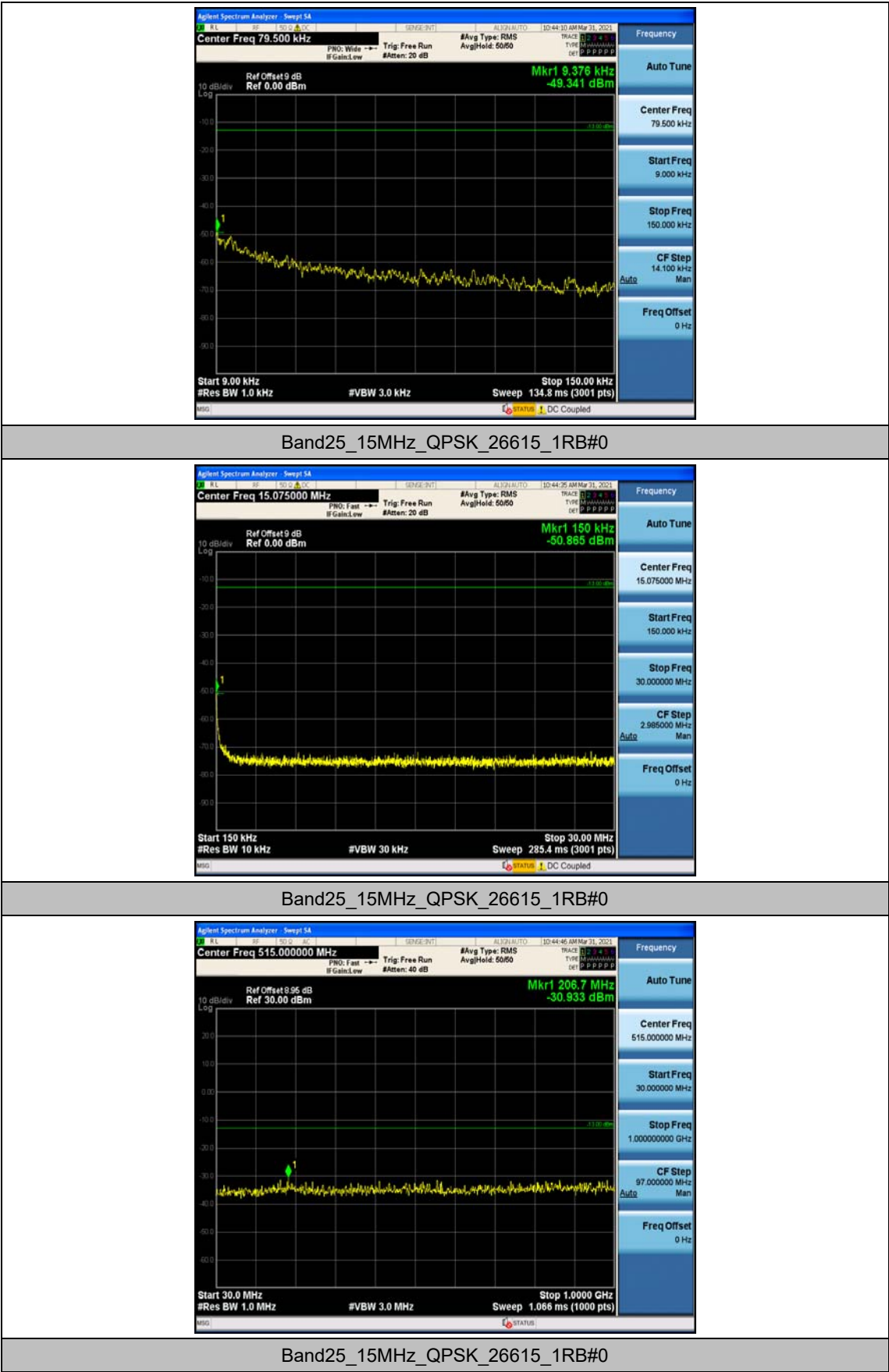
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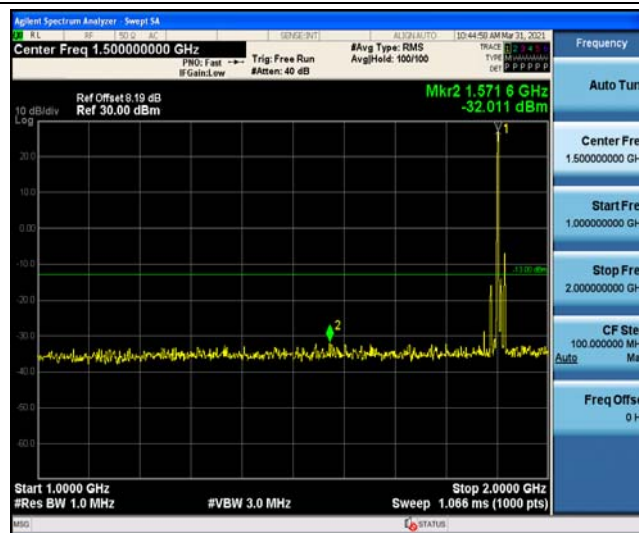


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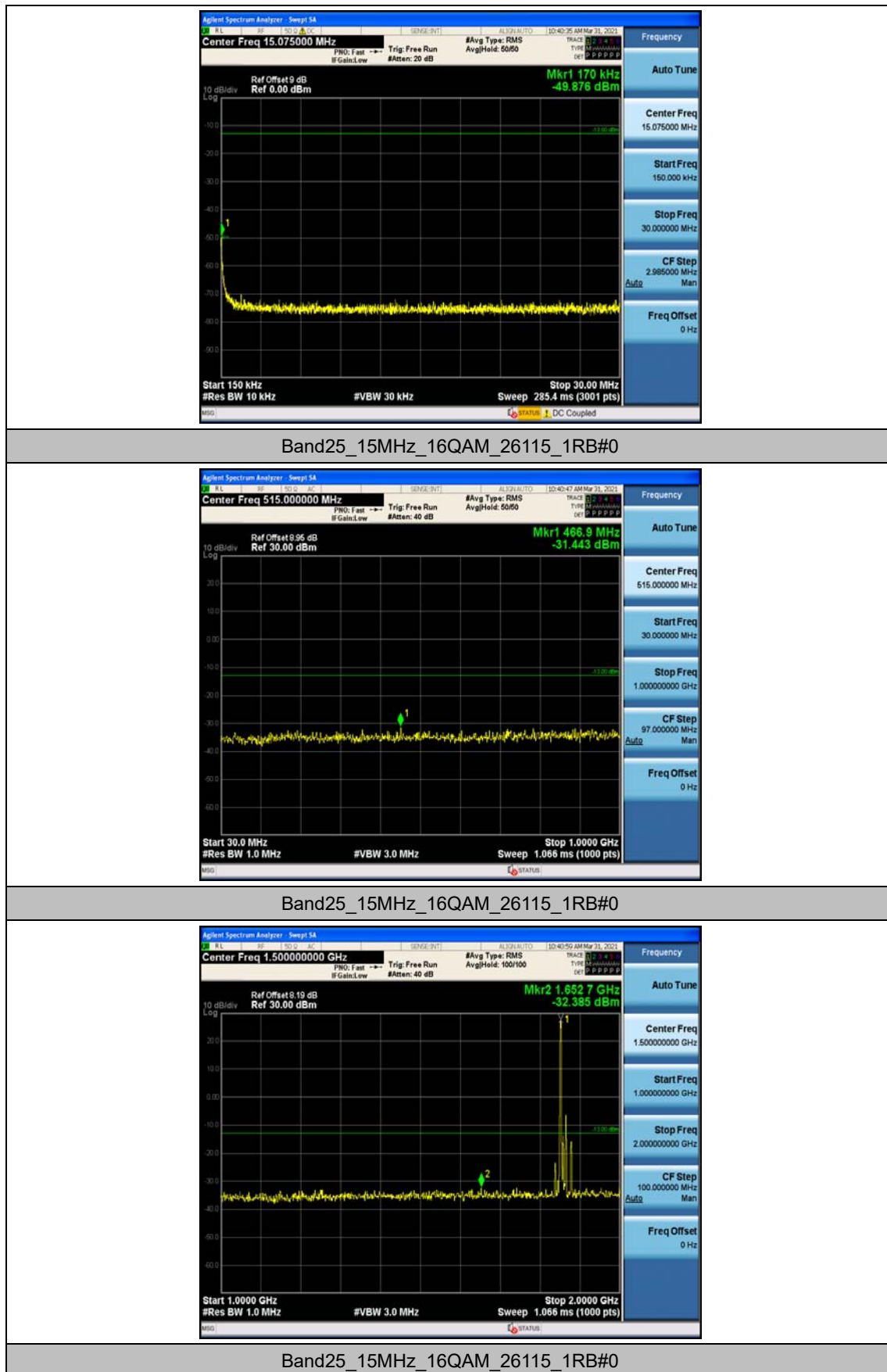
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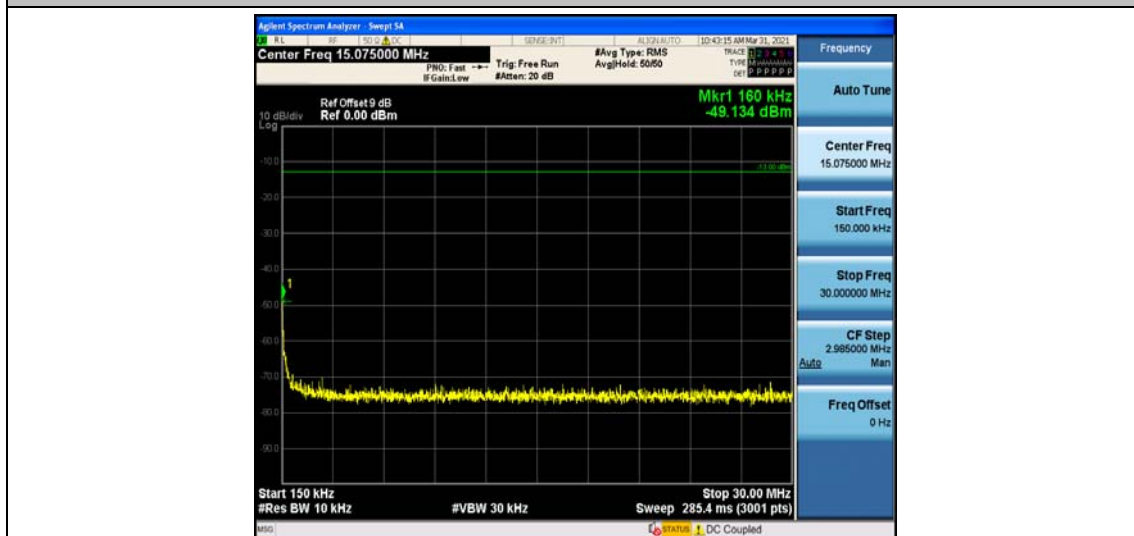




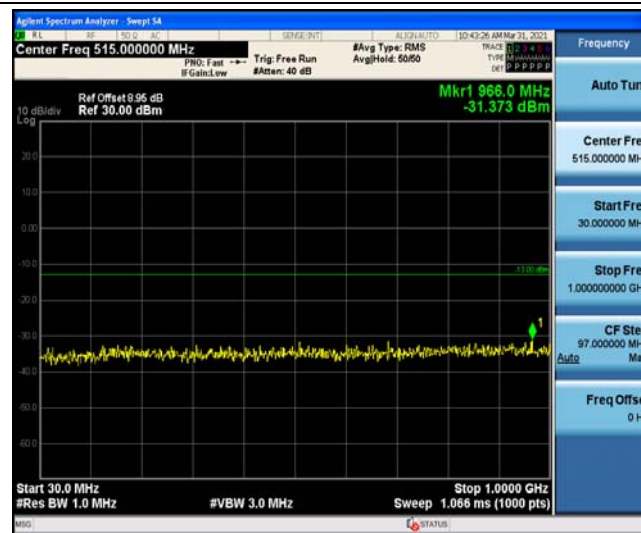
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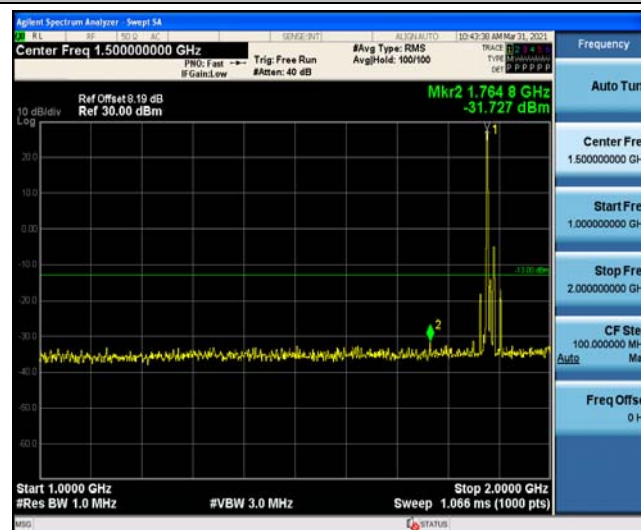
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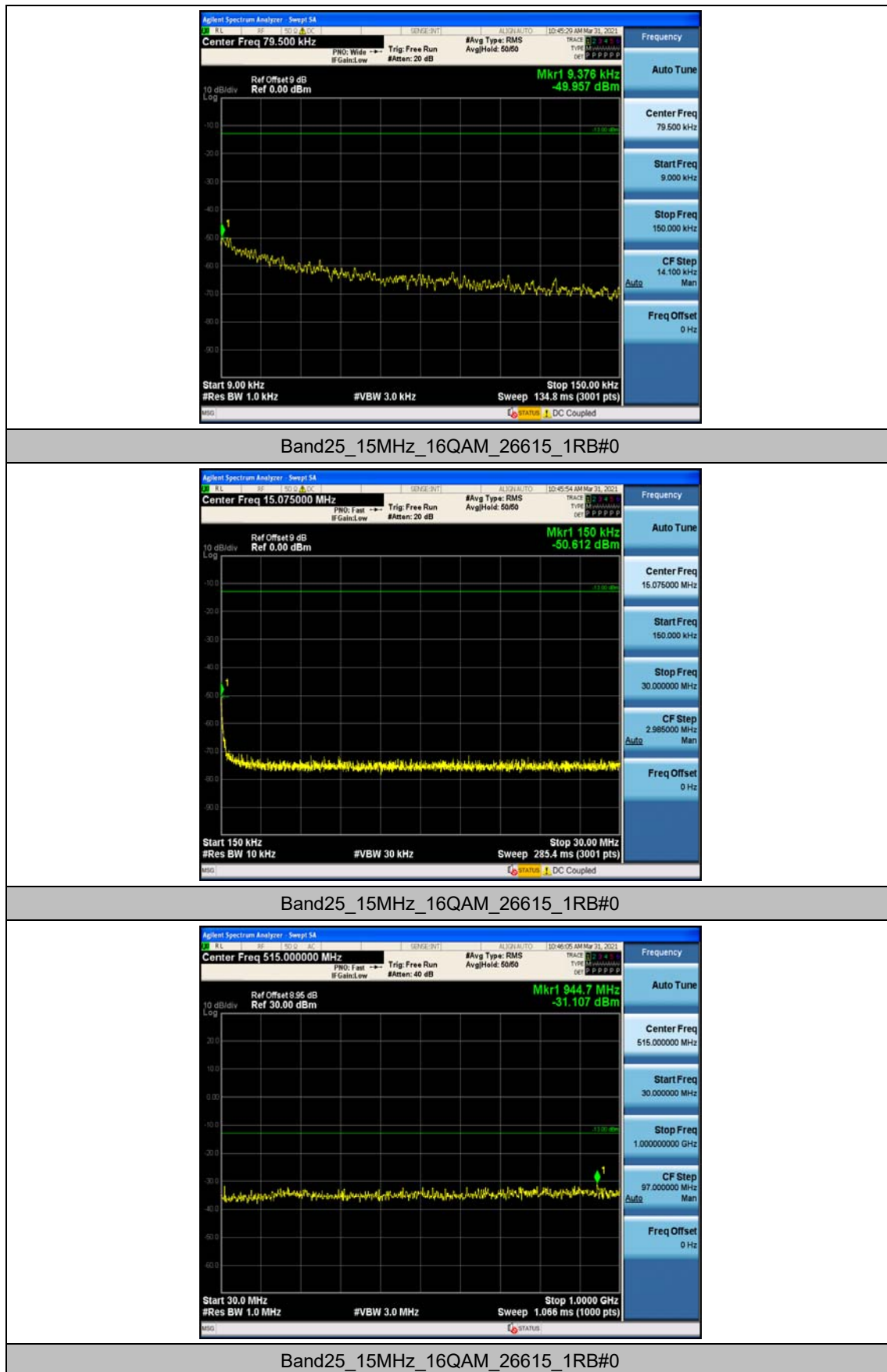
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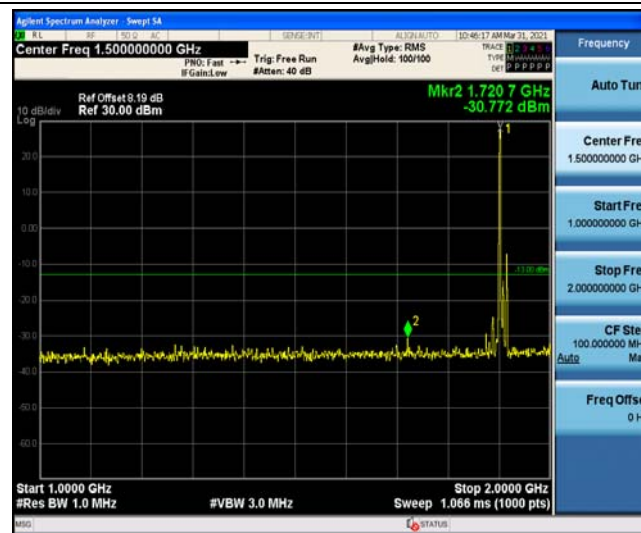


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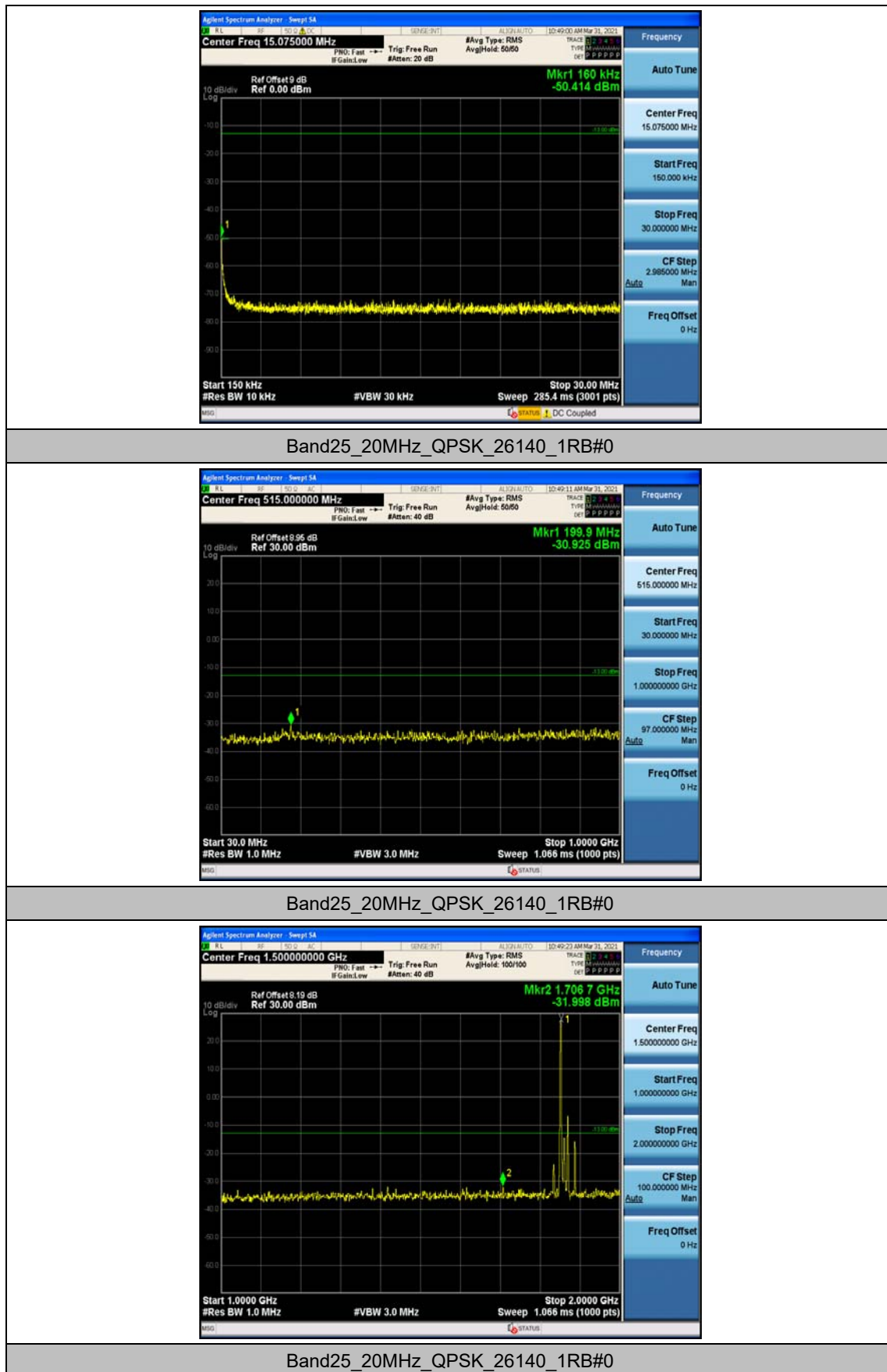
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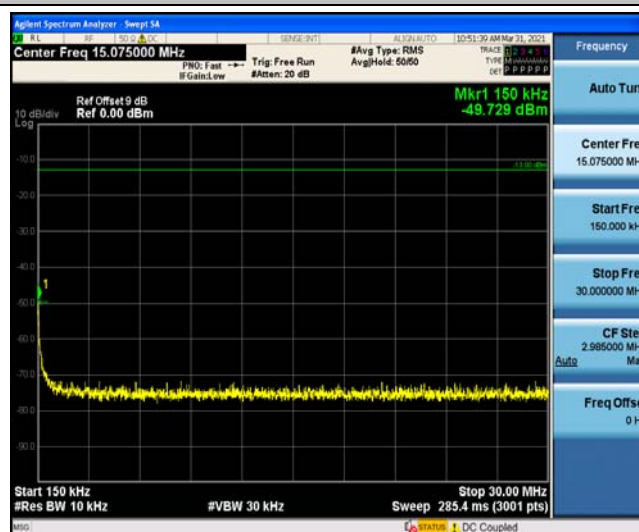




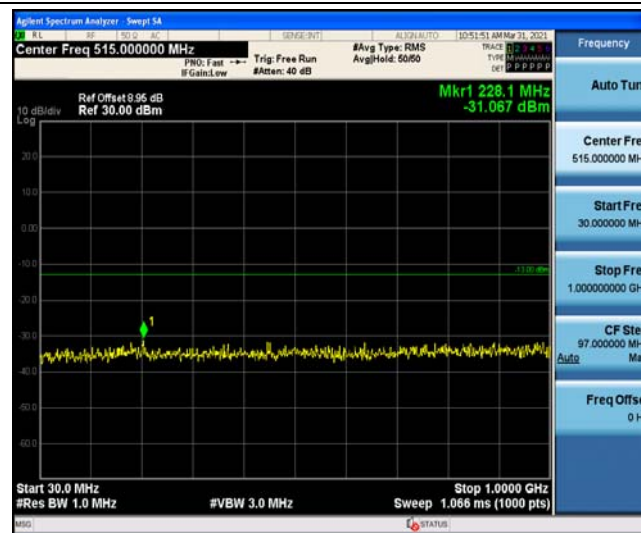
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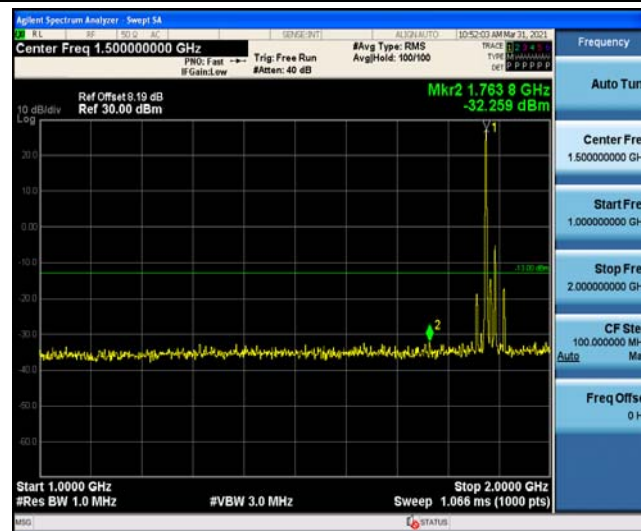
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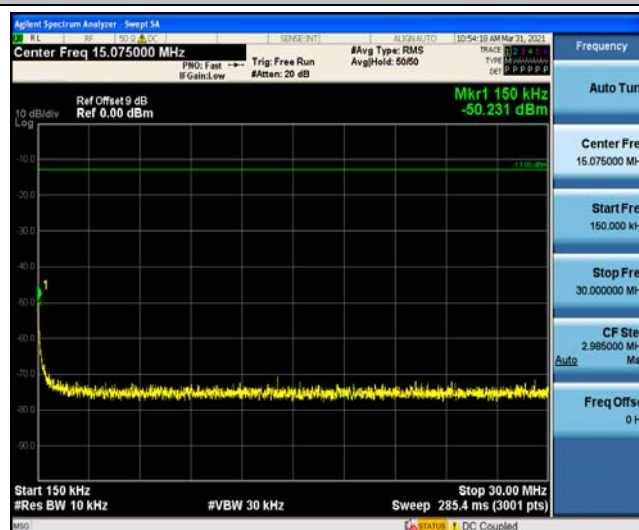
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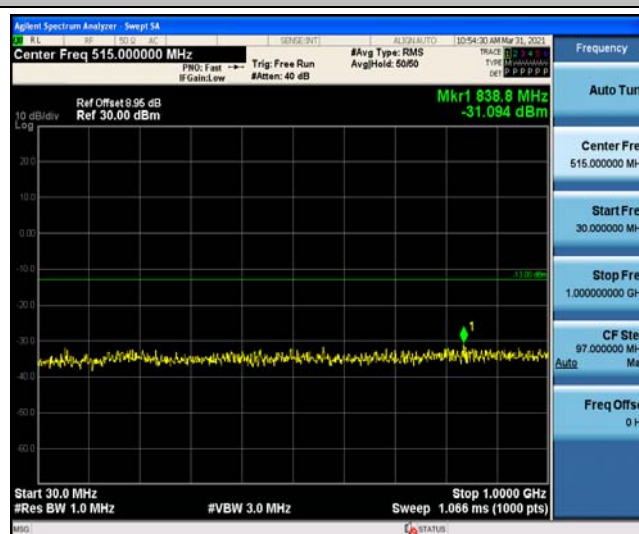
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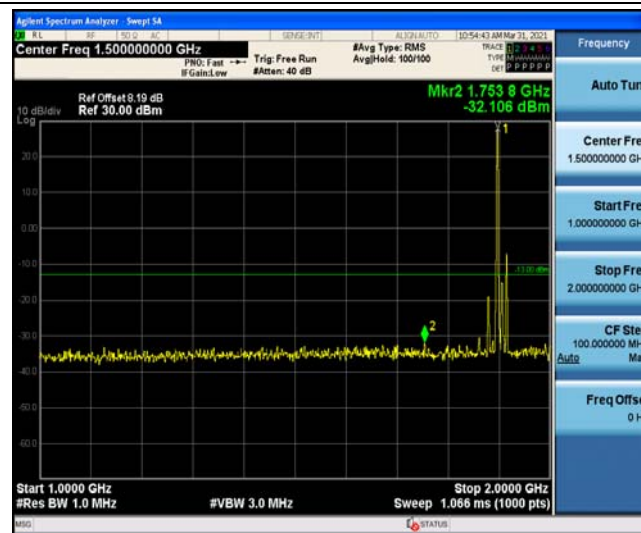
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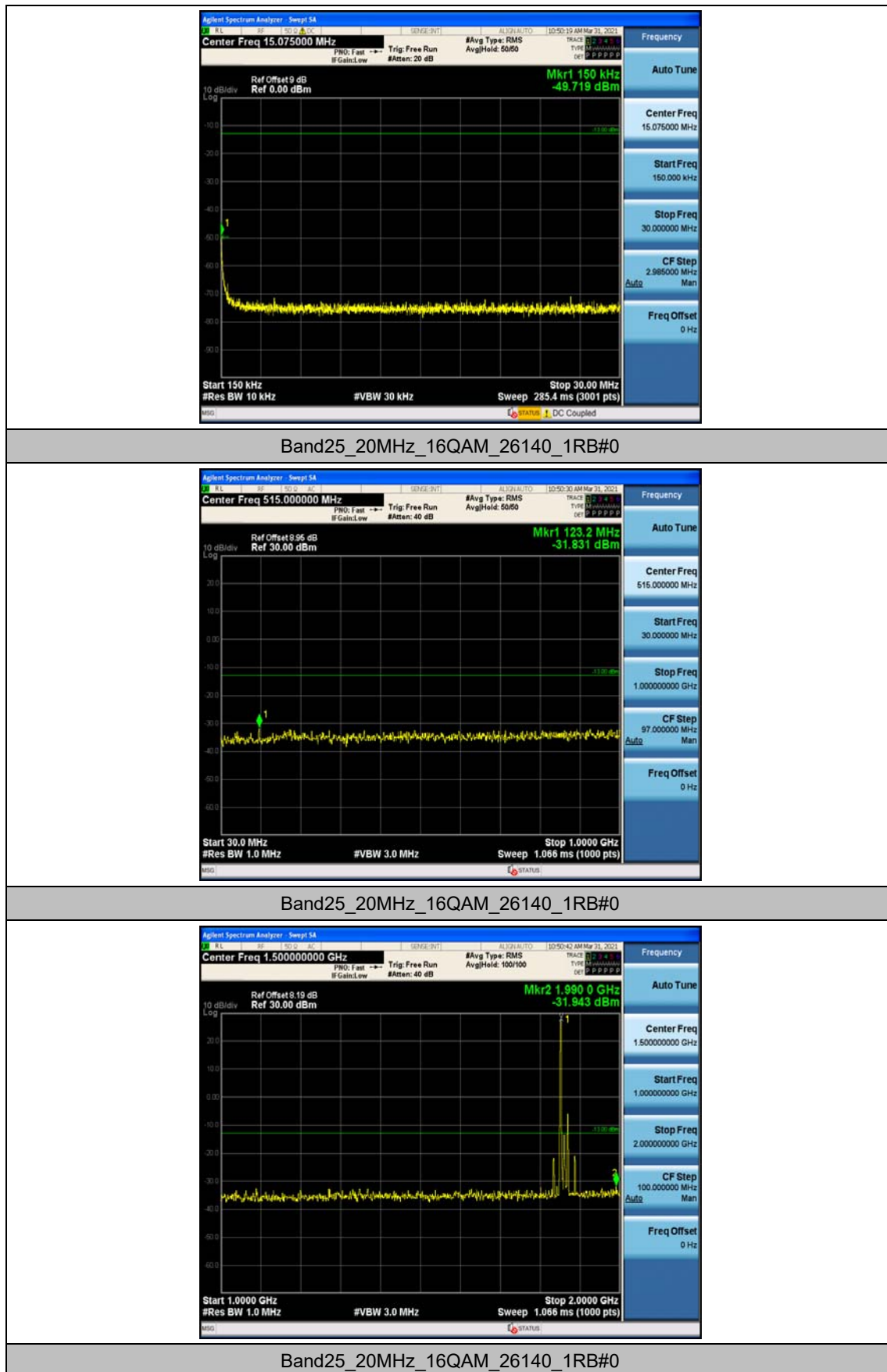
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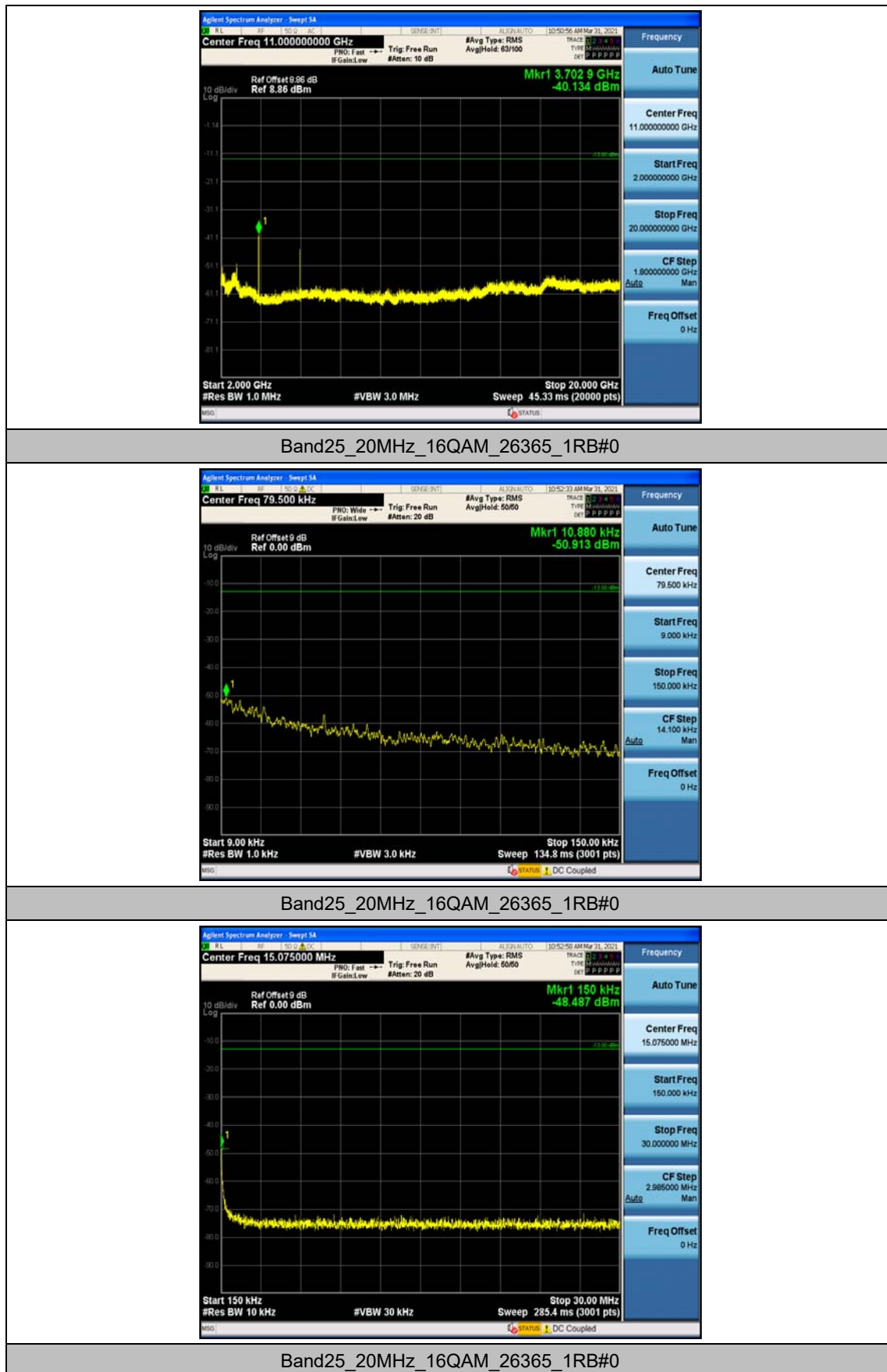


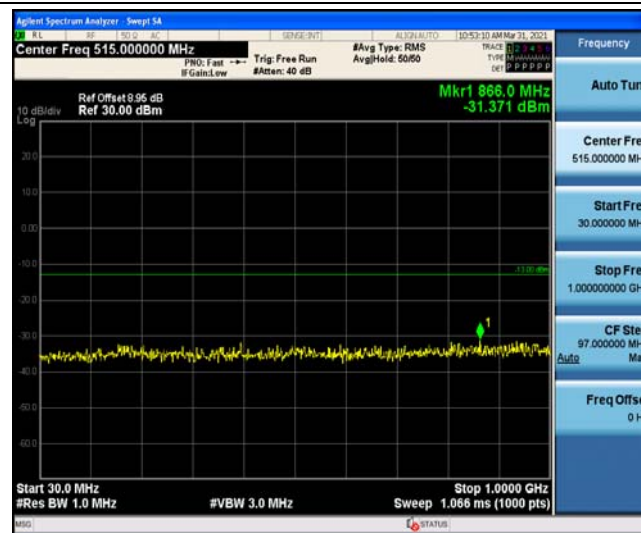
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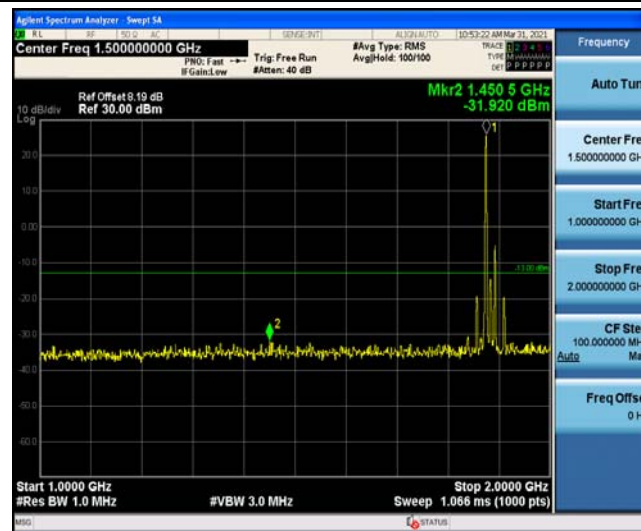
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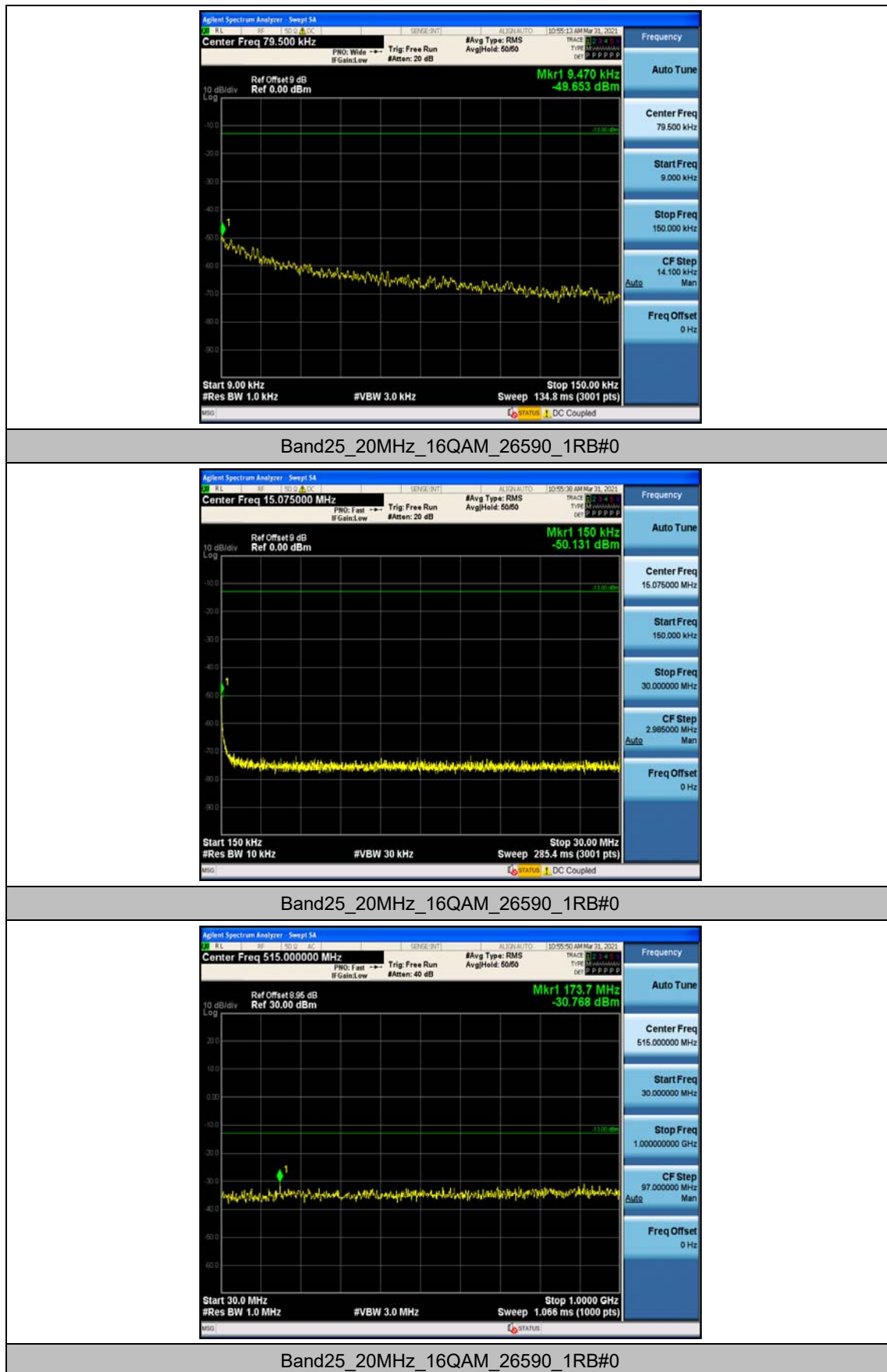
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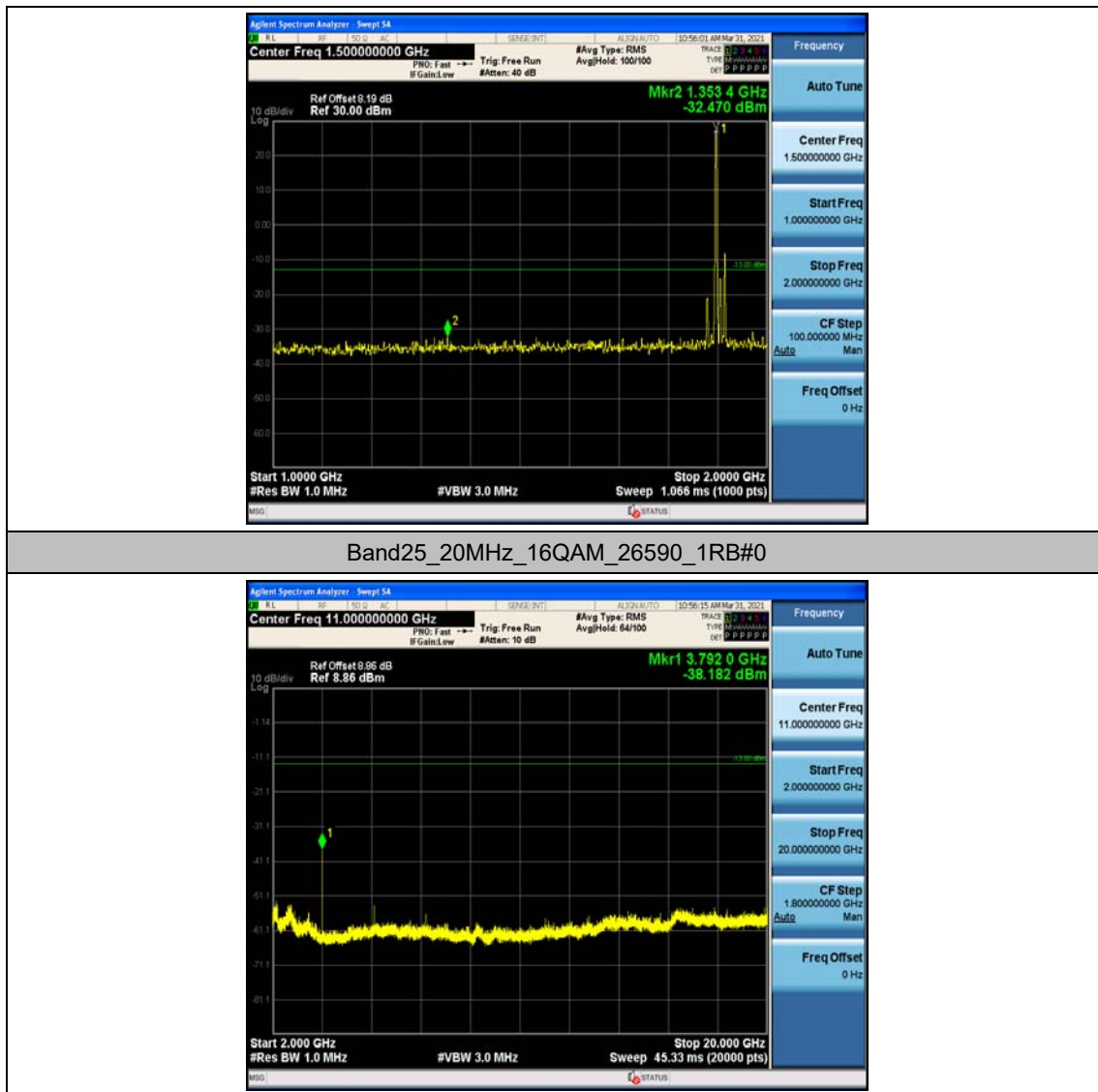


Band25\_20MHz\_16QAM\_26365\_1RB#0



Band25\_20MHz\_16QAM\_26590\_1RB#0





## Appendix F: Frequency Stability

### Test Result

#### Channel Bandwidth: 1.4 MHz

| Channel Bandwidth: 1.4 MHz |         |               |                  |                |                 |             |         |
|----------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage                    |         |               |                  |                |                 |             |         |
| Modulation                 | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                       | LCH     | VL            | TN               | 2.39           | 0.001291        | ± 2.5       | PASS    |
|                            |         | VN            | TN               | 1.76           | 0.000951        | ± 2.5       | PASS    |
|                            |         | VH            | TN               | 1.34           | 0.000724        | ± 2.5       | PASS    |
|                            | MCH     | VL            | TN               | -1.63          | -0.000866       | ± 2.5       | PASS    |
|                            |         | VN            | TN               | 1.87           | 0.000993        | ± 2.5       | PASS    |
|                            |         | VH            | TN               | 2.73           | 0.001450        | ± 2.5       | PASS    |
|                            | HCH     | VL            | TN               | 2.91           | 0.001520        | ± 2.5       | PASS    |
|                            |         | VN            | TN               | 2.57           | 0.001343        | ± 2.5       | PASS    |
|                            |         | VH            | TN               | 0.81           | 0.000423        | ± 2.5       | PASS    |
| 16QAM                      | LCH     | VL            | TN               | 4.87           | 0.002631        | ± 2.5       | PASS    |
|                            |         | VN            | TN               | 4.21           | 0.002275        | ± 2.5       | PASS    |
|                            |         | VH            | TN               | -0.86          | -0.000465       | ± 2.5       | PASS    |
|                            | MCH     | VL            | TN               | -0.75          | -0.000398       | ± 2.5       | PASS    |
|                            |         | VN            | TN               | 1.89           | 0.001004        | ± 2.5       | PASS    |
|                            |         | VH            | TN               | 0.67           | 0.000356        | ± 2.5       | PASS    |
|                            | HCH     | VL            | TN               | -1.82          | -0.000953       | ± 2.5       | PASS    |
|                            |         | VN            | TN               | 4.66           | 0.002441        | ± 2.5       | PASS    |
|                            |         | VH            | TN               | -0.27          | -0.000141       | ± 2.5       | PASS    |
| Temperature                |         |               |                  |                |                 |             |         |
| Modulation                 | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                       | LCH     | VN            | -30              | 0.22           | 0.000119        | ± 2.5       | PASS    |
|                            |         | VN            | -20              | 3.39           | 0.001832        | ± 2.5       | PASS    |
|                            |         | VN            | -10              | -0.83          | -0.000448       | ± 2.5       | PASS    |
|                            |         | VN            | 0                | 3.39           | 0.001832        | ± 2.5       | PASS    |
|                            |         | VN            | 10               | 1.18           | 0.000638        | ± 2.5       | PASS    |
|                            |         | VN            | 20               | -1.04          | -0.000562       | ± 2.5       | PASS    |
|                            |         | VN            | 30               | 4.88           | 0.002637        | ± 2.5       | PASS    |
|                            |         | VN            | 40               | 1.3            | 0.000702        | ± 2.5       | PASS    |
|                            |         | VN            | 50               | 1.01           | 0.000546        | ± 2.5       | PASS    |
|                            | MCH     | VN            | -30              | -0.65          | -0.000345       | ± 2.5       | PASS    |

|       |     |    |     |       |           |       |      |
|-------|-----|----|-----|-------|-----------|-------|------|
|       |     | VN | -20 | 0.93  | 0.000494  | ± 2.5 | PASS |
|       |     | VN | -10 | 1.89  | 0.001004  | ± 2.5 | PASS |
|       |     | VN | 0   | -0.67 | -0.000356 | ± 2.5 | PASS |
|       |     | VN | 10  | -0.06 | -0.000032 | ± 2.5 | PASS |
|       |     | VN | 20  | -0.33 | -0.000175 | ± 2.5 | PASS |
|       |     | VN | 30  | 0.86  | 0.000457  | ± 2.5 | PASS |
|       |     | VN | 40  | 0.38  | 0.000202  | ± 2.5 | PASS |
|       |     | VN | 50  | 0.56  | 0.000297  | ± 2.5 | PASS |
|       | HCH | VN | -30 | 4.41  | 0.002304  | ± 2.5 | PASS |
|       |     | VN | -20 | 0.13  | 0.000068  | ± 2.5 | PASS |
|       |     | VN | -10 | 3.86  | 0.002016  | ± 2.5 | PASS |
|       |     | VN | 0   | 2.99  | 0.001562  | ± 2.5 | PASS |
|       |     | VN | 10  | -0.54 | -0.000282 | ± 2.5 | PASS |
|       |     | VN | 20  | 2.91  | 0.001520  | ± 2.5 | PASS |
|       |     | VN | 30  | 3.7   | 0.001933  | ± 2.5 | PASS |
|       |     | VN | 40  | 1.85  | 0.000966  | ± 2.5 | PASS |
|       |     | VN | 50  | 4.51  | 0.002356  | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 2.05  | 0.001108  | ± 2.5 | PASS |
|       |     | VN | -20 | 3.69  | 0.001994  | ± 2.5 | PASS |
|       |     | VN | -10 | 1.97  | 0.001064  | ± 2.5 | PASS |
|       |     | VN | 0   | 0.31  | 0.000168  | ± 2.5 | PASS |
|       |     | VN | 10  | 0.45  | 0.000243  | ± 2.5 | PASS |
|       |     | VN | 20  | -0.14 | -0.000076 | ± 2.5 | PASS |
|       |     | VN | 30  | 1.89  | 0.001021  | ± 2.5 | PASS |
|       |     | VN | 40  | 3.73  | 0.002015  | ± 2.5 | PASS |
|       |     | VN | 50  | -1.22 | -0.000659 | ± 2.5 | PASS |
|       | MCH | VN | -30 | 2.97  | 0.001578  | ± 2.5 | PASS |
|       |     | VN | -20 | 0.12  | 0.000064  | ± 2.5 | PASS |
|       |     | VN | -10 | 1.06  | 0.000563  | ± 2.5 | PASS |
|       |     | VN | 0   | 1.01  | 0.000537  | ± 2.5 | PASS |
|       |     | VN | 10  | 4.27  | 0.002268  | ± 2.5 | PASS |
|       |     | VN | 20  | 1.61  | 0.000855  | ± 2.5 | PASS |
|       |     | VN | 30  | -1.43 | -0.000760 | ± 2.5 | PASS |
|       |     | VN | 40  | 3.42  | 0.001817  | ± 2.5 | PASS |
|       |     | VN | 50  | 2.51  | 0.001333  | ± 2.5 | PASS |
|       | HCH | VN | -30 | 2     | 0.001045  | ± 2.5 | PASS |
|       |     | VN | -20 | -0.2  | -0.000104 | ± 2.5 | PASS |
|       |     | VN | -10 | 1.12  | 0.000585  | ± 2.5 | PASS |
|       |     | VN | 0   | 2.93  | 0.001531  | ± 2.5 | PASS |
|       |     | VN | 10  | -0.4  | -0.000209 | ± 2.5 | PASS |
|       |     | VN | 20  | 1.35  | 0.000705  | ± 2.5 | PASS |

|  |  |    |    |       |           |       |      |
|--|--|----|----|-------|-----------|-------|------|
|  |  | VN | 30 | -1.35 | -0.000705 | ± 2.5 | PASS |
|  |  | VN | 40 | 4.5   | 0.002351  | ± 2.5 | PASS |
|  |  | VN | 50 | 0.37  | 0.000193  | ± 2.5 | PASS |

**Channel Bandwidth: 3 MHz**

| Channel Bandwidth: 3 MHz+ |         |               |                  |                |                 |             |         |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage                   |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VL            | TN               | 4.57           | 0.002468        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 3.86           | 0.002085        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 4.08           | 0.002204        | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | -0.92          | -0.000489       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 4.44           | 0.002359        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 2.65           | 0.001408        | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | -1.46          | -0.000763       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 2.4            | 0.001254        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 2.01           | 0.001050        | ± 2.5       | PASS    |
| 16QAM                     | LCH     | VL            | TN               | -1.86          | -0.001005       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 4.87           | 0.002630        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 0.76           | 0.000410        | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | 2.89           | 0.001535        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 3.59           | 0.001907        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 4.53           | 0.002406        | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | 2.4            | 0.001254        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 4.27           | 0.002232        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 1.09           | 0.000570        | ± 2.5       | PASS    |
| Temperature               |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VN            | -30              | -0.22          | -0.000119       | ± 2.5       | PASS    |
|                           |         | VN            | -20              | 2.85           | 0.001539        | ± 2.5       | PASS    |
|                           |         | VN            | -10              | -0.92          | -0.000497       | ± 2.5       | PASS    |
|                           |         | VN            | 0                | -1.23          | -0.000664       | ± 2.5       | PASS    |
|                           |         | VN            | 10               | 3.76           | 0.002031        | ± 2.5       | PASS    |
|                           |         | VN            | 20               | 0.13           | 0.000070        | ± 2.5       | PASS    |
|                           |         | VN            | 30               | 4.83           | 0.002609        | ± 2.5       | PASS    |
|                           |         | VN            | 40               | 3.9            | 0.002106        | ± 2.5       | PASS    |
|                           |         | VN            | 50               | 0.67           | 0.000362        | ± 2.5       | PASS    |
|                           | MCH     | VN            | -30              | 2.01           | 0.001068        | ± 2.5       | PASS    |
|                           |         | VN            | -20              | -1.78          | -0.000946       | ± 2.5       | PASS    |

|       |     |    |     |       |           |       |      |
|-------|-----|----|-----|-------|-----------|-------|------|
|       |     | VN | -10 | 3.95  | 0.002098  | ± 2.5 | PASS |
|       |     | VN | 0   | -0.5  | -0.000266 | ± 2.5 | PASS |
|       |     | VN | 10  | 4.29  | 0.002279  | ± 2.5 | PASS |
|       |     | VN | 20  | 1.62  | 0.000861  | ± 2.5 | PASS |
|       |     | VN | 30  | 0.51  | 0.000271  | ± 2.5 | PASS |
|       |     | VN | 40  | -1.75 | -0.000930 | ± 2.5 | PASS |
|       |     | VN | 50  | 2     | 0.001062  | ± 2.5 | PASS |
|       | HCH | VN | -30 | 4.52  | 0.002362  | ± 2.5 | PASS |
|       |     | VN | -20 | 4.34  | 0.002268  | ± 2.5 | PASS |
|       |     | VN | -10 | -0.62 | -0.000324 | ± 2.5 | PASS |
|       |     | VN | 0   | 1.73  | 0.000904  | ± 2.5 | PASS |
|       |     | VN | 10  | -0.39 | -0.000204 | ± 2.5 | PASS |
|       |     | VN | 20  | 1.59  | 0.000831  | ± 2.5 | PASS |
|       |     | VN | 30  | 2.87  | 0.001500  | ± 2.5 | PASS |
|       |     | VN | 40  | 1.6   | 0.000836  | ± 2.5 | PASS |
|       |     | VN | 50  | 3.45  | 0.001803  | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 3.9   | 0.002106  | ± 2.5 | PASS |
|       |     | VN | -20 | 1.27  | 0.000686  | ± 2.5 | PASS |
|       |     | VN | -10 | 2.22  | 0.001199  | ± 2.5 | PASS |
|       |     | VN | 0   | 0.66  | 0.000356  | ± 2.5 | PASS |
|       |     | VN | 10  | 2.27  | 0.001226  | ± 2.5 | PASS |
|       |     | VN | 20  | 0.07  | 0.000038  | ± 2.5 | PASS |
|       |     | VN | 30  | 1.06  | 0.000573  | ± 2.5 | PASS |
|       |     | VN | 40  | 1.04  | 0.000562  | ± 2.5 | PASS |
|       |     | VN | 50  | 1.65  | 0.000891  | ± 2.5 | PASS |
|       | MCH | VN | -30 | -1.68 | -0.000892 | ± 2.5 | PASS |
|       |     | VN | -20 | 2.25  | 0.001195  | ± 2.5 | PASS |
|       |     | VN | -10 | -0.17 | -0.000090 | ± 2.5 | PASS |
|       |     | VN | 0   | 1.48  | 0.000786  | ± 2.5 | PASS |
|       |     | VN | 10  | -1.02 | -0.000542 | ± 2.5 | PASS |
|       |     | VN | 20  | 4.61  | 0.002449  | ± 2.5 | PASS |
|       |     | VN | 30  | -0.27 | -0.000143 | ± 2.5 | PASS |
|       |     | VN | 40  | -1.69 | -0.000898 | ± 2.5 | PASS |
|       |     | VN | 50  | 1.22  | 0.000648  | ± 2.5 | PASS |
|       | HCH | VN | -30 | 1.3   | 0.000679  | ± 2.5 | PASS |
|       |     | VN | -20 | 4.93  | 0.002576  | ± 2.5 | PASS |
|       |     | VN | -10 | 1.65  | 0.000862  | ± 2.5 | PASS |
|       |     | VN | 0   | 2.43  | 0.001270  | ± 2.5 | PASS |
|       |     | VN | 10  | 3.66  | 0.001913  | ± 2.5 | PASS |
|       |     | VN | 20  | 3.18  | 0.001662  | ± 2.5 | PASS |
|       |     | VN | 30  | 1.3   | 0.000679  | ± 2.5 | PASS |

|  |  |    |    |       |           |       |      |
|--|--|----|----|-------|-----------|-------|------|
|  |  | VN | 40 | -1.01 | -0.000528 | ± 2.5 | PASS |
|  |  | VN | 50 | 0.57  | 0.000298  | ± 2.5 | PASS |

**Channel Bandwidth: 5 MHz**

| Channel Bandwidth: 5 MHz |         |               |                  |                |                 |             |         |
|--------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage                  |         |               |                  |                |                 |             |         |
| Modulation               | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                     | LCH     | VL            | TN               | -0.59          | -0.000318       | ± 2.5       | PASS    |
|                          |         | VN            | TN               | -0.9           | -0.000486       | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 1.32           | 0.000713        | ± 2.5       | PASS    |
|                          | MCH     | VL            | TN               | 2.01           | 0.001068        | ± 2.5       | PASS    |
|                          |         | VN            | TN               | -0.96          | -0.000510       | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 1.75           | 0.000930        | ± 2.5       | PASS    |
|                          | HCH     | VL            | TN               | 0.21           | 0.000110        | ± 2.5       | PASS    |
|                          |         | VN            | TN               | 4.39           | 0.002295        | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 4.18           | 0.002186        | ± 2.5       | PASS    |
| 16QAM                    | LCH     | VL            | TN               | 2.67           | 0.001441        | ± 2.5       | PASS    |
|                          |         | VN            | TN               | 1.95           | 0.001053        | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 3.65           | 0.001970        | ± 2.5       | PASS    |
|                          | MCH     | VL            | TN               | -1.54          | -0.000818       | ± 2.5       | PASS    |
|                          |         | VN            | TN               | 3.17           | 0.001684        | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 4.98           | 0.002645        | ± 2.5       | PASS    |
|                          | HCH     | VL            | TN               | 4.22           | 0.002207        | ± 2.5       | PASS    |
|                          |         | VN            | TN               | -1.43          | -0.000748       | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 2.12           | 0.001108        | ± 2.5       | PASS    |
| Temperature              |         |               |                  |                |                 |             |         |
| Modulation               | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                     | LCH     | VN            | -30              | 3.84           | 0.002073        | ± 2.5       | PASS    |
|                          |         | VN            | -20              | 4.71           | 0.002543        | ± 2.5       | PASS    |
|                          |         | VN            | -10              | 2.45           | 0.001323        | ± 2.5       | PASS    |
|                          |         | VN            | 0                | 3.17           | 0.001711        | ± 2.5       | PASS    |
|                          |         | VN            | 10               | -0.91          | -0.000491       | ± 2.5       | PASS    |
|                          |         | VN            | 20               | 2.07           | 0.001117        | ± 2.5       | PASS    |
|                          |         | VN            | 30               | 1.93           | 0.001042        | ± 2.5       | PASS    |
|                          |         | VN            | 40               | 1.88           | 0.001015        | ± 2.5       | PASS    |
|                          |         | VN            | 50               | 2.77           | 0.001495        | ± 2.5       | PASS    |
|                          | MCH     | VN            | -30              | 0.55           | 0.000292        | ± 2.5       | PASS    |
|                          |         | VN            | -20              | 3.03           | 0.001610        | ± 2.5       | PASS    |
|                          |         | VN            | -10              | 4.86           | 0.002582        | ± 2.5       | PASS    |

|       |     |    |     |       |           |       |      |
|-------|-----|----|-----|-------|-----------|-------|------|
|       |     | VN | 0   | 2.77  | 0.001471  | ± 2.5 | PASS |
|       |     | VN | 10  | -0.46 | -0.000244 | ± 2.5 | PASS |
|       |     | VN | 20  | 0.18  | 0.000096  | ± 2.5 | PASS |
|       |     | VN | 30  | 0.21  | 0.000112  | ± 2.5 | PASS |
|       |     | VN | 40  | 0.9   | 0.000478  | ± 2.5 | PASS |
|       |     | VN | 50  | 0.29  | 0.000154  | ± 2.5 | PASS |
|       | HCH | VN | -30 | 3.12  | 0.001631  | ± 2.5 | PASS |
|       |     | VN | -20 | 1.64  | 0.000858  | ± 2.5 | PASS |
|       |     | VN | -10 | 2.17  | 0.001135  | ± 2.5 | PASS |
|       |     | VN | 0   | 0.18  | 0.000094  | ± 2.5 | PASS |
|       |     | VN | 10  | 2.86  | 0.001495  | ± 2.5 | PASS |
|       |     | VN | 20  | 3.49  | 0.001825  | ± 2.5 | PASS |
|       |     | VN | 30  | 2.58  | 0.001349  | ± 2.5 | PASS |
|       |     | VN | 40  | -0.63 | -0.000329 | ± 2.5 | PASS |
|       |     | VN | 50  | 4.19  | 0.002191  | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 1.71  | 0.000923  | ± 2.5 | PASS |
|       |     | VN | -20 | -1.64 | -0.000885 | ± 2.5 | PASS |
|       |     | VN | -10 | 4.39  | 0.002370  | ± 2.5 | PASS |
|       |     | VN | 0   | -1.13 | -0.000610 | ± 2.5 | PASS |
|       |     | VN | 10  | 0.58  | 0.000313  | ± 2.5 | PASS |
|       |     | VN | 20  | 1.35  | 0.000729  | ± 2.5 | PASS |
|       |     | VN | 30  | -0.45 | -0.000243 | ± 2.5 | PASS |
|       |     | VN | 40  | 4.24  | 0.002289  | ± 2.5 | PASS |
|       |     | VN | 50  | -0.45 | -0.000243 | ± 2.5 | PASS |
|       | MCH | VN | -30 | 2.97  | 0.001578  | ± 2.5 | PASS |
|       |     | VN | -20 | 3.24  | 0.001721  | ± 2.5 | PASS |
|       |     | VN | -10 | 3.54  | 0.001880  | ± 2.5 | PASS |
|       |     | VN | 0   | 0.82  | 0.000436  | ± 2.5 | PASS |
|       |     | VN | 10  | -1.38 | -0.000733 | ± 2.5 | PASS |
|       |     | VN | 20  | 4.09  | 0.002173  | ± 2.5 | PASS |
|       |     | VN | 30  | 1.46  | 0.000776  | ± 2.5 | PASS |
|       |     | VN | 40  | 0.13  | 0.000069  | ± 2.5 | PASS |
|       |     | VN | 50  | 4.75  | 0.002523  | ± 2.5 | PASS |
|       | HCH | VN | -30 | -0.26 | -0.000136 | ± 2.5 | PASS |
|       |     | VN | -20 | 2.16  | 0.001129  | ± 2.5 | PASS |
|       |     | VN | -10 | 0.84  | 0.000439  | ± 2.5 | PASS |
|       |     | VN | 0   | 3.79  | 0.001982  | ± 2.5 | PASS |
|       |     | VN | 10  | 1.89  | 0.000988  | ± 2.5 | PASS |
|       |     | VN | 20  | 0.22  | 0.000115  | ± 2.5 | PASS |
|       |     | VN | 30  | 2.72  | 0.001422  | ± 2.5 | PASS |
|       |     | VN | 40  | 4.77  | 0.002494  | ± 2.5 | PASS |

|  |  |    |    |       |           |       |      |
|--|--|----|----|-------|-----------|-------|------|
|  |  | VN | 50 | -0.91 | -0.000476 | ± 2.5 | PASS |
|--|--|----|----|-------|-----------|-------|------|

**Channel Bandwidth: 10 MHz**

| Channel Bandwidth: 10 MHz |         |               |                  |                |                 |             |         |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage                   |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VL            | TN               | 4.12           | 0.002221        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 0.99           | 0.000534        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 0.8            | 0.000431        | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | -1.02          | -0.000542       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 4.39           | 0.002332        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 2.18           | 0.001158        | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | -1.67          | -0.000874       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -1.29          | -0.000675       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 4.75           | 0.002487        | ± 2.5       | PASS    |
| 16QAM                     | LCH     | VL            | TN               | 1.42           | 0.000765        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 3.34           | 0.001801        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -1.78          | -0.000960       | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | 3.12           | 0.001657        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 2.42           | 0.001286        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -0.06          | -0.000032       | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | 0.6            | 0.000314        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 2.66           | 0.001393        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -0.82          | -0.000429       | ± 2.5       | PASS    |
| Temperature               |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VN            | -30              | 0.61           | 0.000329        | ± 2.5       | PASS    |
|                           |         | VN            | -20              | 3.27           | 0.001763        | ± 2.5       | PASS    |
|                           |         | VN            | -10              | 1.33           | 0.000717        | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 1.9            | 0.001024        | ± 2.5       | PASS    |
|                           |         | VN            | 10               | 4.44           | 0.002394        | ± 2.5       | PASS    |
|                           |         | VN            | 20               | 1.35           | 0.000728        | ± 2.5       | PASS    |
|                           |         | VN            | 30               | 3.45           | 0.001860        | ± 2.5       | PASS    |
|                           |         | VN            | 40               | -0.38          | -0.000205       | ± 2.5       | PASS    |
|                           |         | VN            | 50               | 1.12           | 0.000604        | ± 2.5       | PASS    |
|                           | MCH     | VN            | -30              | -1.03          | -0.000547       | ± 2.5       | PASS    |
|                           |         | VN            | -20              | 0.38           | 0.000202        | ± 2.5       | PASS    |
|                           |         | VN            | -10              | 0.31           | 0.000165        | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 1.33           | 0.000707        | ± 2.5       | PASS    |

|       |     |    |     |       |           |       |      |
|-------|-----|----|-----|-------|-----------|-------|------|
|       |     | VN | 10  | 3.27  | 0.001737  | ± 2.5 | PASS |
|       |     | VN | 20  | 1.95  | 0.001036  | ± 2.5 | PASS |
|       |     | VN | 30  | 4.69  | 0.002491  | ± 2.5 | PASS |
|       |     | VN | 40  | 3.84  | 0.002040  | ± 2.5 | PASS |
|       |     | VN | 50  | 2.89  | 0.001535  | ± 2.5 | PASS |
|       | HCH | VN | -30 | 0.84  | 0.000440  | ± 2.5 | PASS |
|       |     | VN | -20 | 0     | 0.000000  | ± 2.5 | PASS |
|       |     | VN | -10 | 3.49  | 0.001827  | ± 2.5 | PASS |
|       |     | VN | 0   | 1.84  | 0.000963  | ± 2.5 | PASS |
|       |     | VN | 10  | 1.07  | 0.000560  | ± 2.5 | PASS |
|       |     | VN | 20  | -0.7  | -0.000366 | ± 2.5 | PASS |
|       |     | VN | 30  | 1.45  | 0.000759  | ± 2.5 | PASS |
|       |     | VN | 40  | 4.98  | 0.002607  | ± 2.5 | PASS |
|       |     | VN | 50  | 4.66  | 0.002440  | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 3.72  | 0.002005  | ± 2.5 | PASS |
|       |     | VN | -20 | 4.76  | 0.002566  | ± 2.5 | PASS |
|       |     | VN | -10 | 4.42  | 0.002383  | ± 2.5 | PASS |
|       |     | VN | 0   | 2.7   | 0.001456  | ± 2.5 | PASS |
|       |     | VN | 10  | 4.63  | 0.002496  | ± 2.5 | PASS |
|       |     | VN | 20  | -0.04 | -0.000022 | ± 2.5 | PASS |
|       |     | VN | 30  | 3.8   | 0.002049  | ± 2.5 | PASS |
|       |     | VN | 40  | 1.34  | 0.000722  | ± 2.5 | PASS |
|       |     | VN | 50  | -0.31 | -0.000167 | ± 2.5 | PASS |
|       | MCH | VN | -30 | 3.98  | 0.002114  | ± 2.5 | PASS |
|       |     | VN | -20 | 3.41  | 0.001811  | ± 2.5 | PASS |
|       |     | VN | -10 | 3.2   | 0.001700  | ± 2.5 | PASS |
|       |     | VN | 0   | -0.83 | -0.000441 | ± 2.5 | PASS |
|       |     | VN | 10  | -0.2  | -0.000106 | ± 2.5 | PASS |
|       |     | VN | 20  | -0.39 | -0.000207 | ± 2.5 | PASS |
|       |     | VN | 30  | 4.84  | 0.002571  | ± 2.5 | PASS |
|       |     | VN | 40  | 2.22  | 0.001179  | ± 2.5 | PASS |
|       |     | VN | 50  | 1.05  | 0.000558  | ± 2.5 | PASS |
|       | HCH | VN | -30 | 1.31  | 0.000686  | ± 2.5 | PASS |
|       |     | VN | -20 | 1.02  | 0.000534  | ± 2.5 | PASS |
|       |     | VN | -10 | 0.81  | 0.000424  | ± 2.5 | PASS |
|       |     | VN | 0   | 0.46  | 0.000241  | ± 2.5 | PASS |
|       |     | VN | 10  | 0.55  | 0.000288  | ± 2.5 | PASS |
|       |     | VN | 20  | 3.4   | 0.001780  | ± 2.5 | PASS |
|       |     | VN | 30  | -1.81 | -0.000948 | ± 2.5 | PASS |
|       |     | VN | 40  | 4.8   | 0.002513  | ± 2.5 | PASS |
|       |     | VN | 50  | 0.36  | 0.000188  | ± 2.5 | PASS |

**Channel Bandwidth: 15 MHz**

| Channel Bandwidth: 15 MHz |         |               |                  |                |                 |             |         |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage                   |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VL            | TN               | 2.71           | 0.001459        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 3.76           | 0.002024        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 2.33           | 0.001254        | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | 3.1            | 0.001647        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 0.66           | 0.000351        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -1             | -0.000531       | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | -1.97          | -0.001033       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -1.95          | -0.001022       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 4.13           | 0.002165        | ± 2.5       | PASS    |
| 16QAM                     | LCH     | VL            | TN               | 3.36           | 0.001809        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 0.18           | 0.000097        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 3.78           | 0.002035        | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | -1.73          | -0.000919       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 3.77           | 0.002003        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -0.74          | -0.000393       | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | 0.58           | 0.000304        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 4.57           | 0.002396        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 3.82           | 0.002003        | ± 2.5       | PASS    |
| Temperature               |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VN            | -30              | -0.75          | -0.000404       | ± 2.5       | PASS    |
|                           |         | VN            | -20              | -1.63          | -0.000878       | ± 2.5       | PASS    |
|                           |         | VN            | -10              | -0.09          | -0.000048       | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 3.48           | 0.001873        | ± 2.5       | PASS    |
|                           |         | VN            | 10               | 1.14           | 0.000614        | ± 2.5       | PASS    |
|                           |         | VN            | 20               | -1.81          | -0.000974       | ± 2.5       | PASS    |
|                           |         | VN            | 30               | 0.99           | 0.000533        | ± 2.5       | PASS    |
|                           |         | VN            | 40               | 1.81           | 0.000974        | ± 2.5       | PASS    |
|                           |         | VN            | 50               | 3.24           | 0.001744        | ± 2.5       | PASS    |
|                           | MCH     | VN            | -30              | 1.48           | 0.000786        | ± 2.5       | PASS    |
|                           |         | VN            | -20              | 2.36           | 0.001254        | ± 2.5       | PASS    |
|                           |         | VN            | -10              | 4.87           | 0.002587        | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 3.23           | 0.001716        | ± 2.5       | PASS    |
|                           |         | VN            | 10               | 3.63           | 0.001928        | ± 2.5       | PASS    |

|       |     |    |     |       |           |       |      |
|-------|-----|----|-----|-------|-----------|-------|------|
|       |     | VN | 20  | 4.86  | 0.002582  | ± 2.5 | PASS |
|       |     | VN | 30  | 4.56  | 0.002422  | ± 2.5 | PASS |
|       |     | VN | 40  | 4.18  | 0.002220  | ± 2.5 | PASS |
|       |     | VN | 50  | 4.18  | 0.002220  | ± 2.5 | PASS |
|       | HCH | VN | -30 | -0.32 | -0.000168 | ± 2.5 | PASS |
|       |     | VN | -20 | 4.01  | 0.002102  | ± 2.5 | PASS |
|       |     | VN | -10 | 0.33  | 0.000173  | ± 2.5 | PASS |
|       |     | VN | 0   | 1.16  | 0.000608  | ± 2.5 | PASS |
|       |     | VN | 10  | -1.23 | -0.000645 | ± 2.5 | PASS |
|       |     | VN | 20  | 4.9   | 0.002569  | ± 2.5 | PASS |
|       |     | VN | 30  | -1.12 | -0.000587 | ± 2.5 | PASS |
|       |     | VN | 40  | -0.3  | -0.000157 | ± 2.5 | PASS |
|       |     | VN | 50  | -1.54 | -0.000807 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 0.37  | 0.000199  | ± 2.5 | PASS |
|       |     | VN | -20 | 3.5   | 0.001884  | ± 2.5 | PASS |
|       |     | VN | -10 | -0.36 | -0.000194 | ± 2.5 | PASS |
|       |     | VN | 0   | 4.17  | 0.002245  | ± 2.5 | PASS |
|       |     | VN | 10  | 4.22  | 0.002272  | ± 2.5 | PASS |
|       |     | VN | 20  | 2.96  | 0.001594  | ± 2.5 | PASS |
|       |     | VN | 30  | -0.37 | -0.000199 | ± 2.5 | PASS |
|       |     | VN | 40  | 3.2   | 0.001723  | ± 2.5 | PASS |
|       |     | VN | 50  | 2.26  | 0.001217  | ± 2.5 | PASS |
|       | MCH | VN | -30 | 1.28  | 0.000680  | ± 2.5 | PASS |
|       |     | VN | -20 | 4.82  | 0.002560  | ± 2.5 | PASS |
|       |     | VN | -10 | -0.63 | -0.000335 | ± 2.5 | PASS |
|       |     | VN | 0   | -1.27 | -0.000675 | ± 2.5 | PASS |
|       |     | VN | 10  | 4.15  | 0.002205  | ± 2.5 | PASS |
|       |     | VN | 20  | 0.32  | 0.000170  | ± 2.5 | PASS |
|       |     | VN | 30  | 4.33  | 0.002300  | ± 2.5 | PASS |
|       |     | VN | 40  | -0.57 | -0.000303 | ± 2.5 | PASS |
|       |     | VN | 50  | 3.89  | 0.002066  | ± 2.5 | PASS |
|       | HCH | VN | -30 | 4.27  | 0.002239  | ± 2.5 | PASS |
|       |     | VN | -20 | -1    | -0.000524 | ± 2.5 | PASS |
|       |     | VN | -10 | 1.8   | 0.000944  | ± 2.5 | PASS |
|       |     | VN | 0   | -1.95 | -0.001022 | ± 2.5 | PASS |
|       |     | VN | 10  | 4.99  | 0.002616  | ± 2.5 | PASS |
|       |     | VN | 20  | 1.21  | 0.000634  | ± 2.5 | PASS |
|       |     | VN | 30  | 4.96  | 0.002600  | ± 2.5 | PASS |
|       |     | VN | 40  | 4.08  | 0.002139  | ± 2.5 | PASS |
|       |     | VN | 50  | 0.09  | 0.000047  | ± 2.5 | PASS |

**Channel Bandwidth: 20 MHz**

| Channel Bandwidth: 20 MHz |         |               |                  |                |                 |             |         |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage                   |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VL            | TN               | -0.97          | -0.000522       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 3.81           | 0.002048        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 4.3            | 0.002312        | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | -1.21          | -0.000643       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 3.22           | 0.001710        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 1.83           | 0.000972        | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | -1.49          | -0.000782       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 4.82           | 0.002530        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 1.51           | 0.000793        | ± 2.5       | PASS    |
| 16QAM                     | LCH     | VL            | TN               | -0.16          | -0.000086       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -1.83          | -0.000984       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 3.92           | 0.002108        | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | 0.4            | 0.000212        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 1.67           | 0.000887        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 4.29           | 0.002279        | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | -1.31          | -0.000688       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 2.01           | 0.001055        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -1.8           | -0.000945       | ± 2.5       | PASS    |
| Temperature               |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VN            | -30              | -0.83          | -0.000446       | ± 2.5       | PASS    |
|                           |         | VN            | -20              | 4.64           | 0.002495        | ± 2.5       | PASS    |
|                           |         | VN            | -10              | -0.88          | -0.000473       | ± 2.5       | PASS    |
|                           |         | VN            | 0                | -0.98          | -0.000527       | ± 2.5       | PASS    |
|                           |         | VN            | 10               | 2.97           | 0.001597        | ± 2.5       | PASS    |
|                           |         | VN            | 20               | 4.33           | 0.002328        | ± 2.5       | PASS    |
|                           |         | VN            | 30               | 1.82           | 0.000978        | ± 2.5       | PASS    |
|                           |         | VN            | 40               | 1.92           | 0.001032        | ± 2.5       | PASS    |
|                           |         | VN            | 50               | -0.75          | -0.000403       | ± 2.5       | PASS    |
|                           | MCH     | VN            | -30              | 0.32           | 0.000170        | ± 2.5       | PASS    |
|                           |         | VN            | -20              | 0.43           | 0.000229        | ± 2.5       | PASS    |
|                           |         | VN            | -10              | 2.76           | 0.001468        | ± 2.5       | PASS    |
|                           |         | VN            | 0                | -1.01          | -0.000537       | ± 2.5       | PASS    |
|                           |         | VN            | 10               | 4.54           | 0.002415        | ± 2.5       | PASS    |
|                           |         | VN            | 20               | 3.06           | 0.001628        | ± 2.5       | PASS    |

|       |     |    |     |       |           |       |      |
|-------|-----|----|-----|-------|-----------|-------|------|
|       |     | VN | 30  | 4.04  | 0.002149  | ± 2.5 | PASS |
|       |     | VN | 40  | 4.81  | 0.002559  | ± 2.5 | PASS |
|       |     | VN | 50  | -1.53 | -0.000814 | ± 2.5 | PASS |
|       | HCH | VN | -30 | -1.89 | -0.000992 | ± 2.5 | PASS |
|       |     | VN | -20 | 2.85  | 0.001496  | ± 2.5 | PASS |
|       |     | VN | -10 | 0.01  | 0.000005  | ± 2.5 | PASS |
|       |     | VN | 0   | -1.2  | -0.000630 | ± 2.5 | PASS |
|       |     | VN | 10  | 1.85  | 0.000971  | ± 2.5 | PASS |
|       |     | VN | 20  | 1.93  | 0.001013  | ± 2.5 | PASS |
|       |     | VN | 30  | -0.25 | -0.000131 | ± 2.5 | PASS |
|       |     | VN | 40  | 0.49  | 0.000257  | ± 2.5 | PASS |
|       |     | VN | 50  | 1.22  | 0.000640  | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 1.25  | 0.000672  | ± 2.5 | PASS |
|       |     | VN | -20 | 2.48  | 0.001333  | ± 2.5 | PASS |
|       |     | VN | -10 | 2.32  | 0.001247  | ± 2.5 | PASS |
|       |     | VN | 0   | 2.84  | 0.001527  | ± 2.5 | PASS |
|       |     | VN | 10  | -0.3  | -0.000161 | ± 2.5 | PASS |
|       |     | VN | 20  | -0.32 | -0.000172 | ± 2.5 | PASS |
|       |     | VN | 30  | 3.93  | 0.002113  | ± 2.5 | PASS |
|       |     | VN | 40  | 2.26  | 0.001215  | ± 2.5 | PASS |
|       |     | VN | 50  | -1.92 | -0.001032 | ± 2.5 | PASS |
|       | MCH | VN | -30 | -0.79 | -0.000420 | ± 2.5 | PASS |
|       |     | VN | -20 | 2.82  | 0.001498  | ± 2.5 | PASS |
|       |     | VN | -10 | -1.79 | -0.000951 | ± 2.5 | PASS |
|       |     | VN | 0   | 2.08  | 0.001105  | ± 2.5 | PASS |
|       |     | VN | 10  | -1.67 | -0.000887 | ± 2.5 | PASS |
|       |     | VN | 20  | 2.38  | 0.001264  | ± 2.5 | PASS |
|       |     | VN | 30  | 2.21  | 0.001174  | ± 2.5 | PASS |
|       |     | VN | 40  | 1.63  | 0.000866  | ± 2.5 | PASS |
|       |     | VN | 50  | 3.07  | 0.001631  | ± 2.5 | PASS |
|       | HCH | VN | -30 | 1.94  | 0.001018  | ± 2.5 | PASS |
|       |     | VN | -20 | 1.83  | 0.000961  | ± 2.5 | PASS |
|       |     | VN | -10 | 4.52  | 0.002373  | ± 2.5 | PASS |
|       |     | VN | 0   | 3.04  | 0.001596  | ± 2.5 | PASS |
|       |     | VN | 10  | 1.25  | 0.000656  | ± 2.5 | PASS |
|       |     | VN | 20  | 1.29  | 0.000677  | ± 2.5 | PASS |
|       |     | VN | 30  | -1.23 | -0.000646 | ± 2.5 | PASS |
|       |     | VN | 40  | 0.85  | 0.000446  | ± 2.5 | PASS |
|       |     | VN | 50  | 1.71  | 0.000898  | ± 2.5 | PASS |