



## Appendix A: Average Output Power Data

### Test Result

Channel Bandwidth: 5 MHz

| Channel Bandwidth: 5 MHz |         |                  |        |                     |         |
|--------------------------|---------|------------------|--------|---------------------|---------|
| Modulation               | Channel | RB Configuration |        | Average Power [dBm] | Verdict |
|                          |         | Size             | Offset |                     |         |
| QPSK                     | LCH     | 1                | 0      | 21.52               | PASS    |
|                          |         | 1                | 12     | 21.51               | PASS    |
|                          |         | 1                | 24     | 21.49               | PASS    |
|                          |         | 12               | 0      | 20.54               | PASS    |
|                          |         | 12               | 6      | 20.55               | PASS    |
|                          |         | 12               | 13     | 20.54               | PASS    |
|                          |         | 25               | 0      | 20.56               | PASS    |
|                          | MCH     | 1                | 0      | 21.45               | PASS    |
|                          |         | 1                | 12     | 21.55               | PASS    |
|                          |         | 1                | 24     | 21.53               | PASS    |
|                          |         | 12               | 0      | 20.58               | PASS    |
|                          |         | 12               | 6      | 20.62               | PASS    |
|                          |         | 12               | 13     | 20.62               | PASS    |
|                          |         | 25               | 0      | 20.60               | PASS    |
|                          | HCH     | 1                | 0      | 21.49               | PASS    |
|                          |         | 1                | 12     | 21.52               | PASS    |
|                          |         | 1                | 24     | 21.53               | PASS    |
|                          |         | 12               | 0      | 20.56               | PASS    |
|                          |         | 12               | 6      | 20.59               | PASS    |
|                          |         | 12               | 13     | 20.57               | PASS    |
|                          |         | 25               | 0      | 20.59               | PASS    |
| 16QAM                    | LCH     | 1                | 0      | 20.84               | PASS    |
|                          |         | 1                | 12     | 20.81               | PASS    |
|                          |         | 1                | 24     | 20.80               | PASS    |
|                          |         | 12               | 0      | 19.68               | PASS    |
|                          |         | 12               | 6      | 19.65               | PASS    |
|                          |         | 12               | 13     | 19.67               | PASS    |
|                          |         | 25               | 0      | 19.65               | PASS    |
|                          | MCH     | 1                | 0      | 20.84               | PASS    |
|                          |         | 1                | 12     | 20.88               | PASS    |
|                          |         | 1                | 24     | 20.88               | PASS    |
|                          |         | 12               | 0      | 19.71               | PASS    |
|                          |         | 12               | 6      | 19.75               | PASS    |
|                          |         | 12               | 13     | 19.74               | PASS    |



|  |     |    |    |       |      |
|--|-----|----|----|-------|------|
|  | HCH | 25 | 0  | 19.66 | PASS |
|  |     | 1  | 0  | 20.89 | PASS |
|  |     | 1  | 12 | 20.85 | PASS |
|  |     | 1  | 24 | 20.80 | PASS |
|  |     | 12 | 0  | 19.69 | PASS |
|  |     | 12 | 6  | 19.71 | PASS |
|  |     | 12 | 13 | 19.68 | PASS |
|  |     | 25 | 0  | 19.68 | PASS |

### Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz |         |                  |        |                     |         |
|---------------------------|---------|------------------|--------|---------------------|---------|
| Modulation                | Channel | RB Configuration |        | Average Power [dBm] | Verdict |
|                           |         | Size             | Offset |                     |         |
| QPSK                      | LCH     | 1                | 0      | 21.51               | PASS    |
|                           |         | 1                | 24     | 21.47               | PASS    |
|                           |         | 1                | 49     | 21.55               | PASS    |
|                           |         | 25               | 0      | 20.52               | PASS    |
|                           |         | 25               | 12     | 20.64               | PASS    |
|                           |         | 25               | 25     | 20.63               | PASS    |
|                           |         | 50               | 0      | 19.82               | PASS    |
|                           | MCH     | 1                | 0      | 21.49               | PASS    |
|                           |         | 1                | 24     | 21.56               | PASS    |
|                           |         | 1                | 49     | 21.54               | PASS    |
|                           |         | 25               | 0      | 20.60               | PASS    |
|                           |         | 25               | 12     | 20.66               | PASS    |
|                           |         | 25               | 25     | 20.61               | PASS    |
|                           |         | 50               | 0      | 20.59               | PASS    |
|                           | HCH     | 1                | 0      | 21.44               | PASS    |
|                           |         | 1                | 24     | 21.55               | PASS    |
|                           |         | 1                | 49     | 21.55               | PASS    |
|                           |         | 25               | 0      | 20.59               | PASS    |
|                           |         | 25               | 12     | 20.63               | PASS    |
|                           |         | 25               | 25     | 20.60               | PASS    |
|                           |         | 50               | 0      | 20.59               | PASS    |
| 16QAM                     | LCH     | 1                | 0      | 20.83               | PASS    |
|                           |         | 1                | 24     | 20.82               | PASS    |
|                           |         | 1                | 49     | 20.86               | PASS    |
|                           |         | 25               | 0      | 19.61               | PASS    |
|                           |         | 25               | 12     | 19.69               | PASS    |
|                           |         | 25               | 25     | 19.70               | PASS    |
|                           |         | 50               | 0      | 18.88               | PASS    |
|                           | MCH     | 1                | 0      | 20.82               | PASS    |



|  |     |    |    |       |      |
|--|-----|----|----|-------|------|
|  |     | 1  | 24 | 20.90 | PASS |
|  |     | 1  | 49 | 20.84 | PASS |
|  |     | 25 | 0  | 19.67 | PASS |
|  |     | 25 | 12 | 19.72 | PASS |
|  |     | 25 | 25 | 19.70 | PASS |
|  |     | 50 | 0  | 19.65 | PASS |
|  | HCH | 1  | 0  | 20.75 | PASS |
|  |     | 1  | 24 | 20.90 | PASS |
|  |     | 1  | 49 | 20.78 | PASS |
|  |     | 25 | 0  | 19.68 | PASS |
|  |     | 25 | 12 | 19.70 | PASS |
|  |     | 25 | 25 | 19.69 | PASS |
|  |     | 50 | 0  | 19.65 | PASS |

## Appendix B: Peak-to-Average Ratio

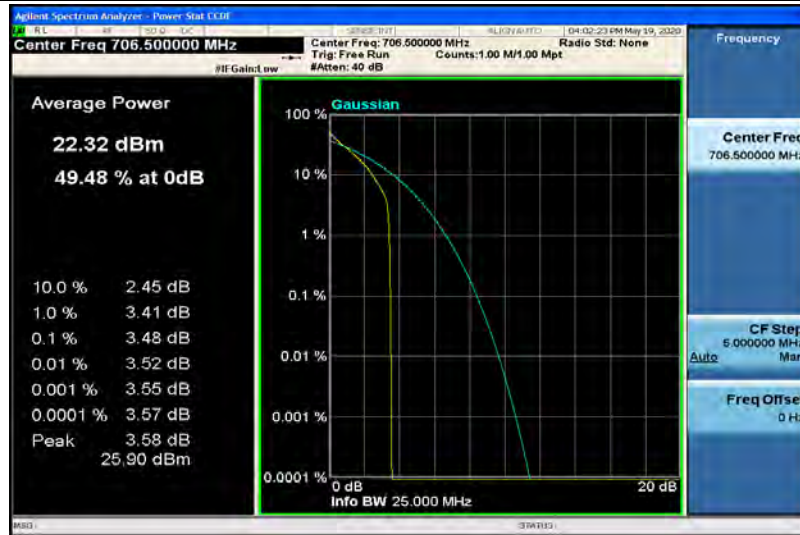
### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | 3.48       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 3.60       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 3.56       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 4.87       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 5.21       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | 5.08       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#0            | 3.44       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 1RB#0            | 3.47       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 1RB#0            | 3.50       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 1RB#0            | 4.89       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 1RB#0            | 4.98       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 1RB#0            | 5.09       | 13        | PASS    |

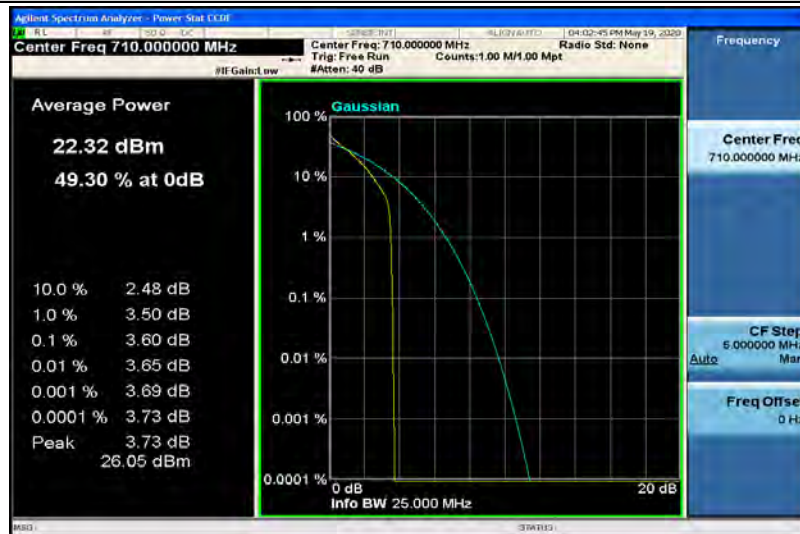


## Test Graphs

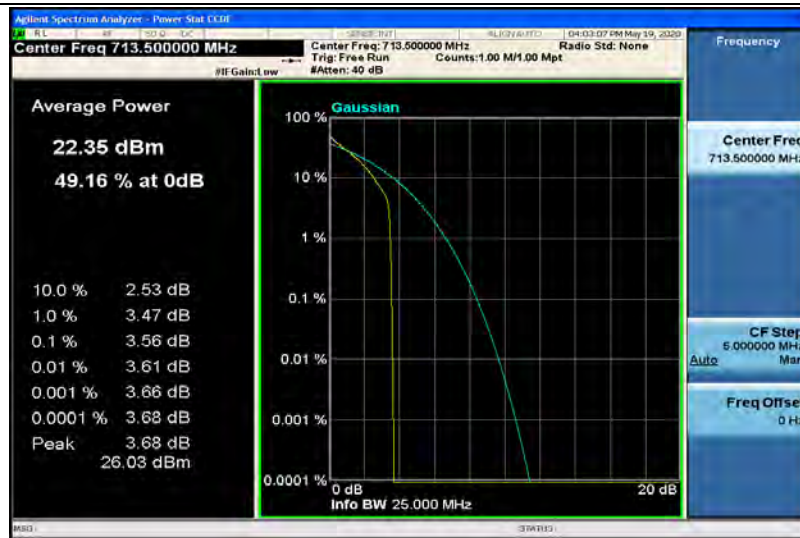
Band17-5MHz-QPSK-23755-1RB#0



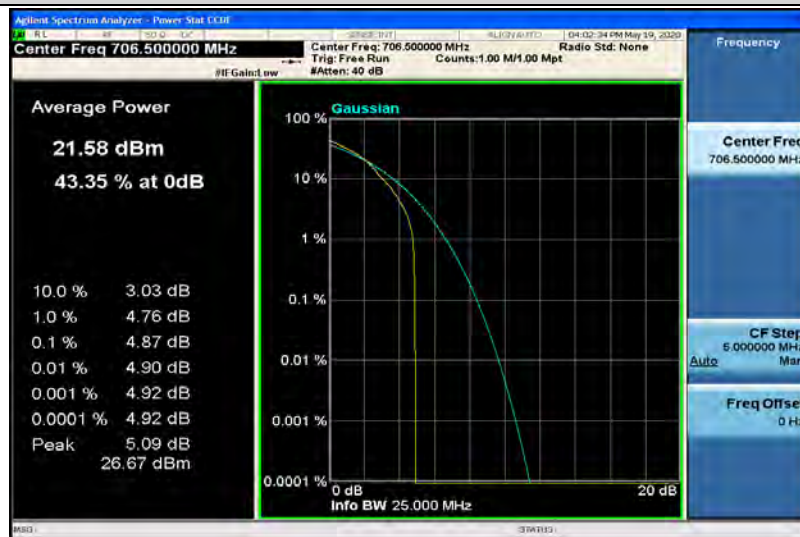
Band17-5MHz-QPSK-23790-1RB#0



Band17-5MHz-QPSK-23825-1RB#0



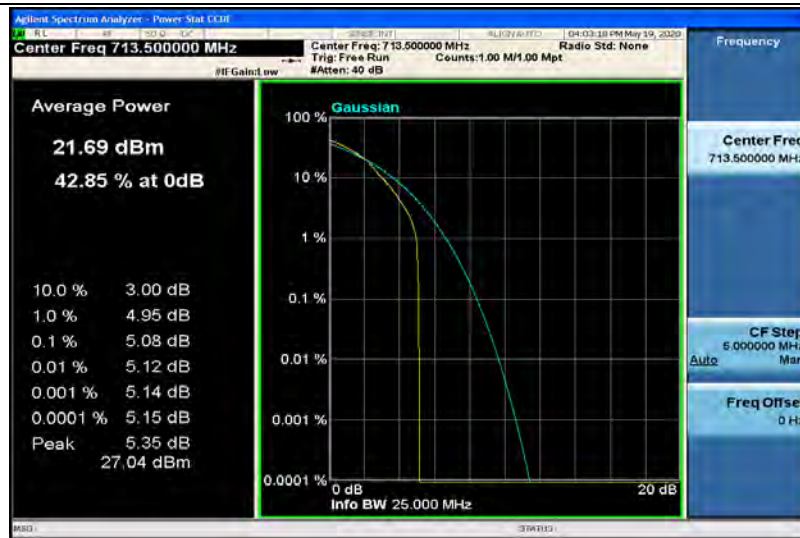
Band17-5MHz-16QAM-23755-1RB#0



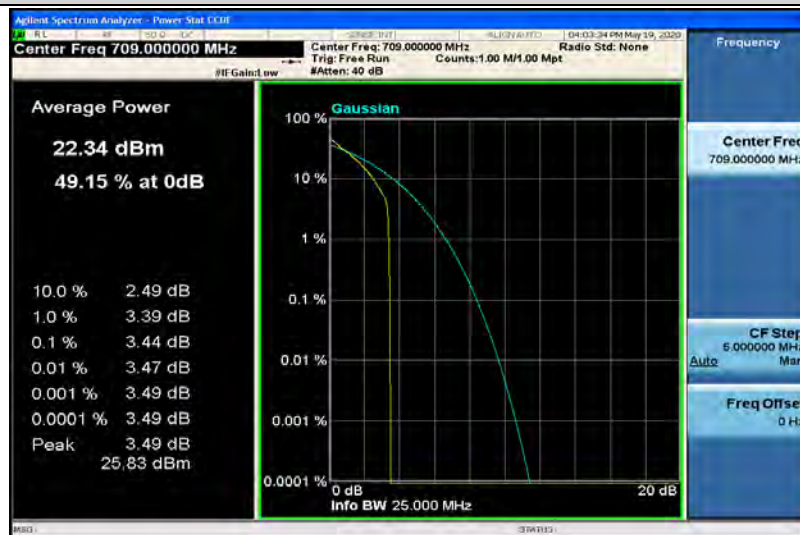
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Band17-5MHz-16QAM-23825-1RB#0



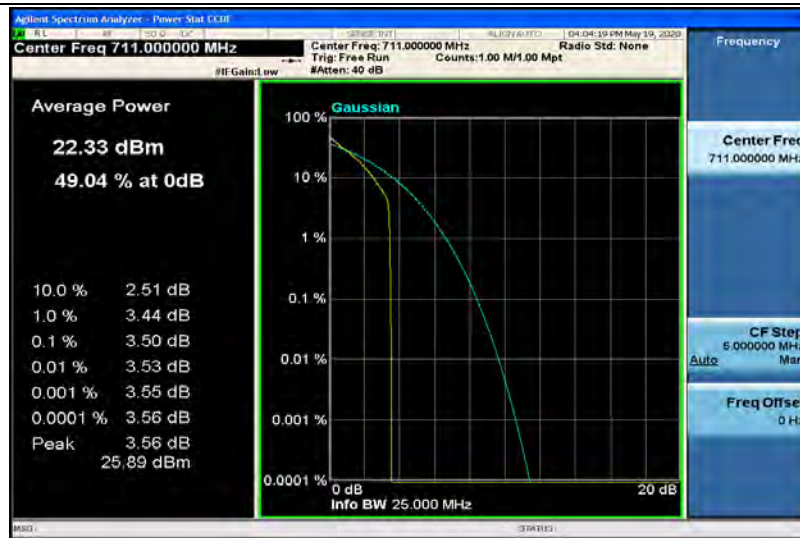
Band17-10MHz-QPSK-23780-1RB#0



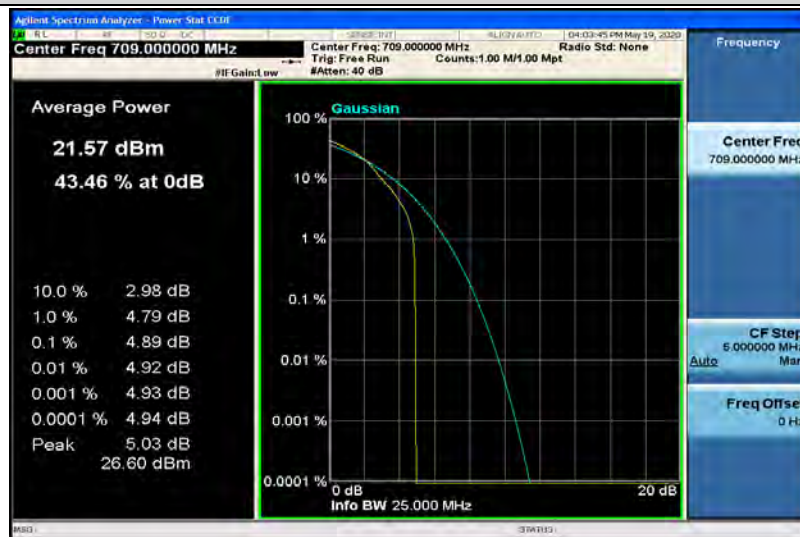
Band17-10MHz-QPSK-23790-1RB#0



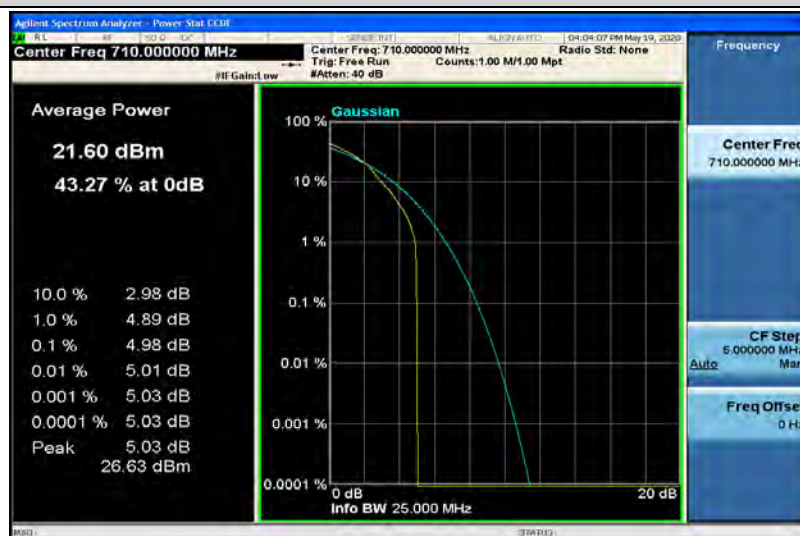
Band17-10MHz-QPSK-23800-1RB#0



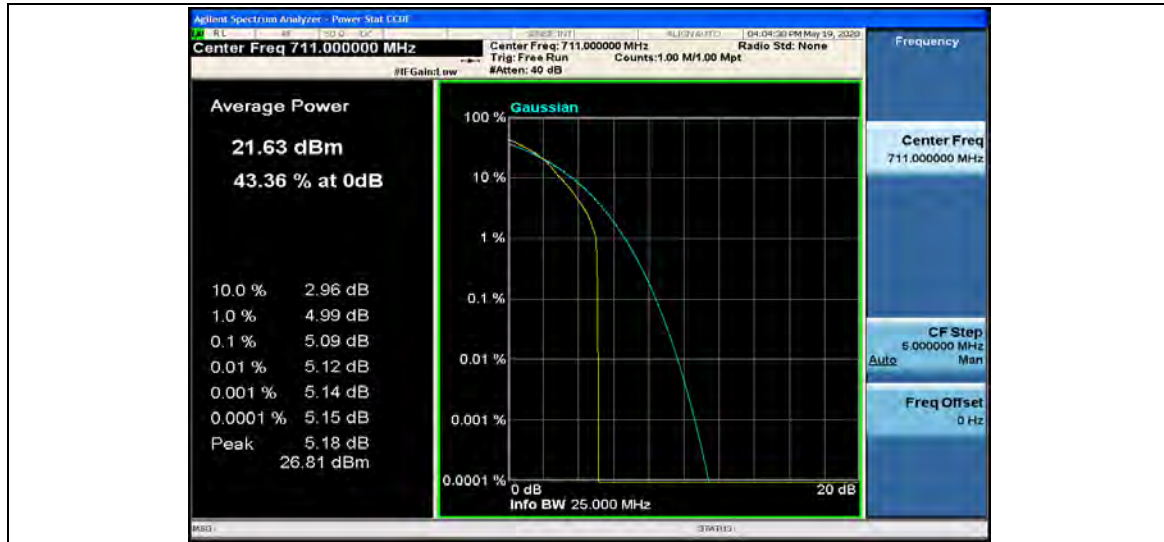
Band17-10MHz-16QAM-23780-1RB#0



Band17-10MHz-16QAM-23790-1RB#0



Band17-10MHz-16QAM-23800-1RB#0



## Appendix C: 26dB Bandwidth and Occupied Bandwidth

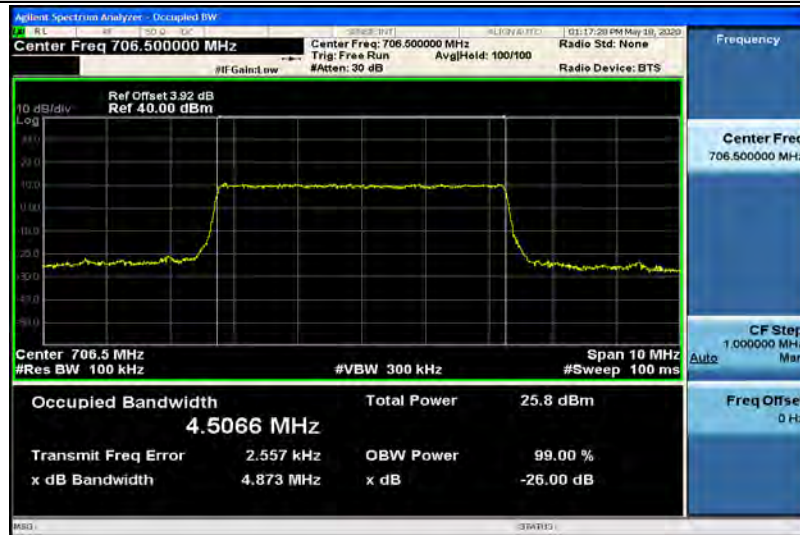
### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 4.5066                   | 4.873                | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 4.4988                   | 4.849                | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 4.4941                   | 4.861                | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 4.5225                   | 4.915                | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 4.5129                   | 4.854                | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 4.5116                   | 4.870                | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 8.9757                   | 9.551                | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 8.9616                   | 9.548                | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 8.9413                   | 9.533                | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 8.9902                   | 9.539                | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 8.9622                   | 9.523                | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | 8.9607                   | 9.536                | PASS    |

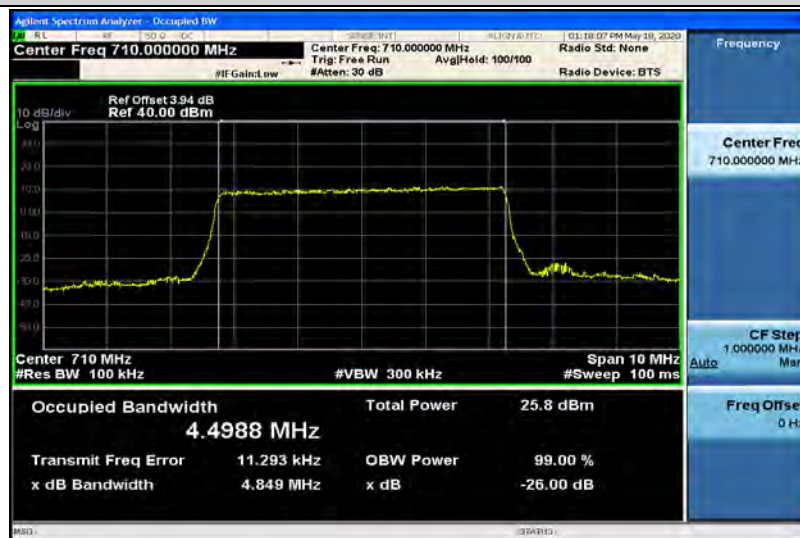


## Test Graphs

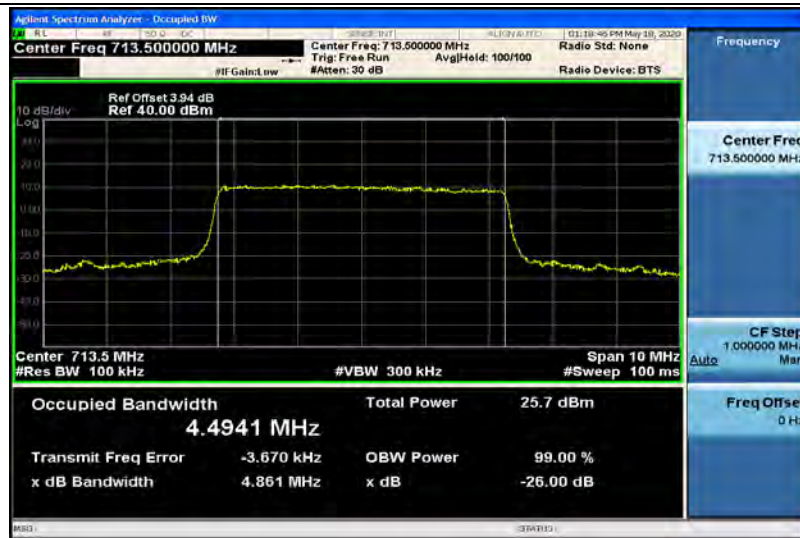
Band17-5MHz-QPSK-23755-25RB#0-4.5066



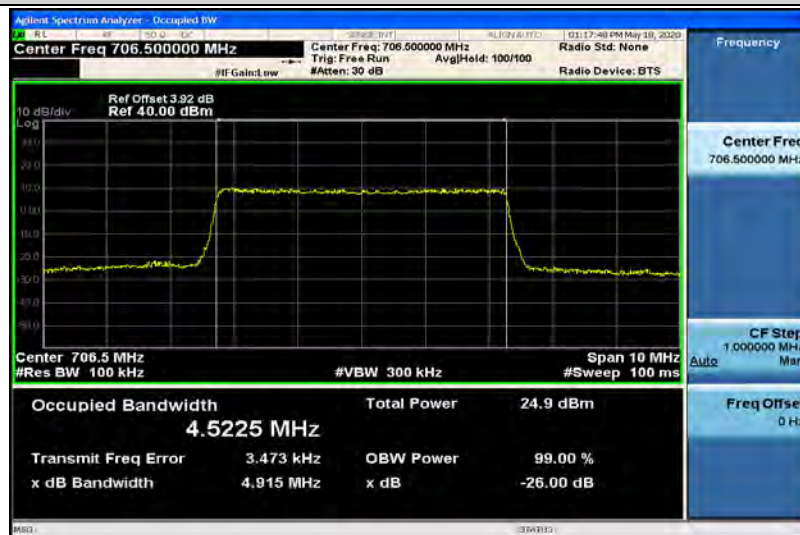
Band17-5MHz-QPSK-23790-25RB#0-4.4988



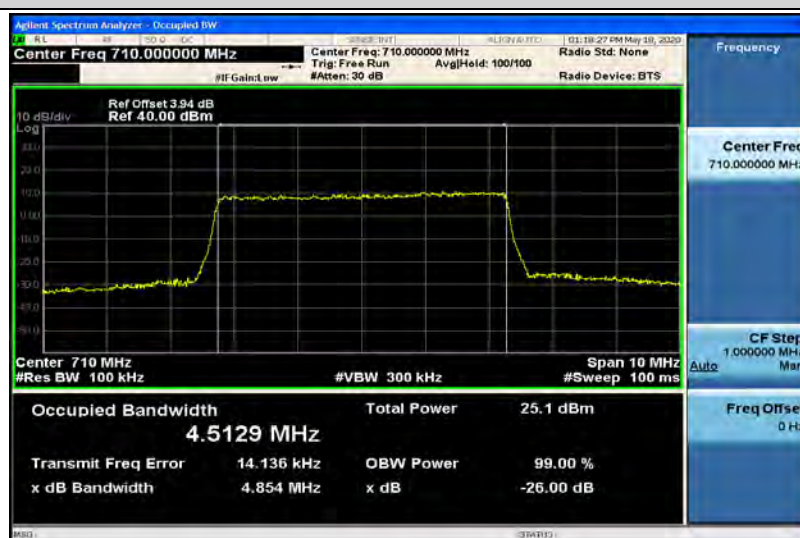
Band17-5MHz-QPSK-23825-25RB#0-4.4941



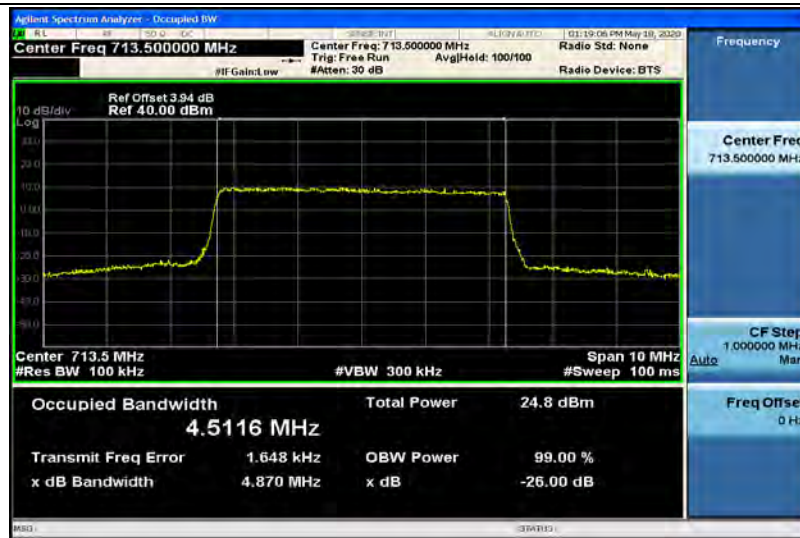
Band17-5MHz-16QAM-23755-25RB#0-4.5225



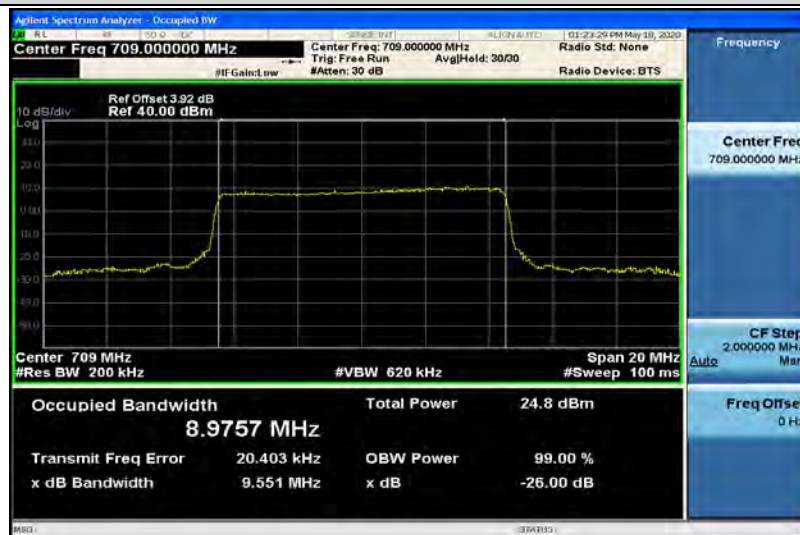
Band17-5MHz-16QAM-23790-25RB#0-4.5129



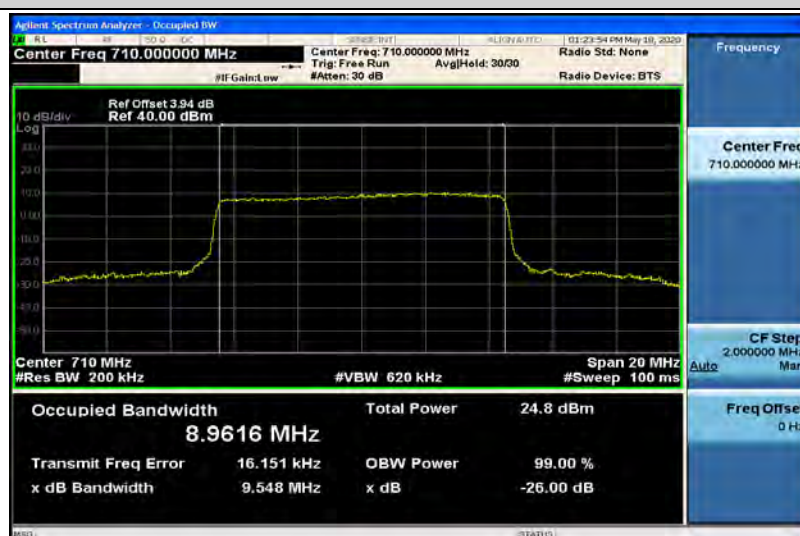
Band17-5MHz-16QAM-23825-25RB#0-4.5116



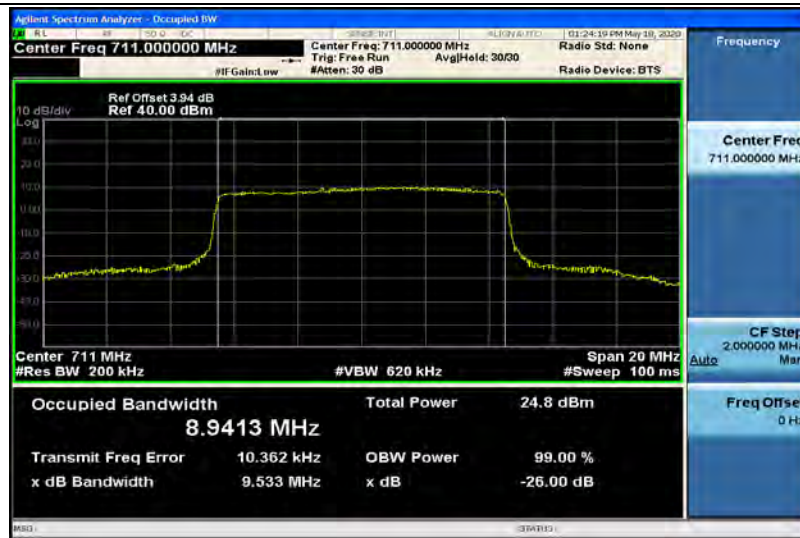
Band17-10MHz-QPSK-23780-50RB#0-8.9757



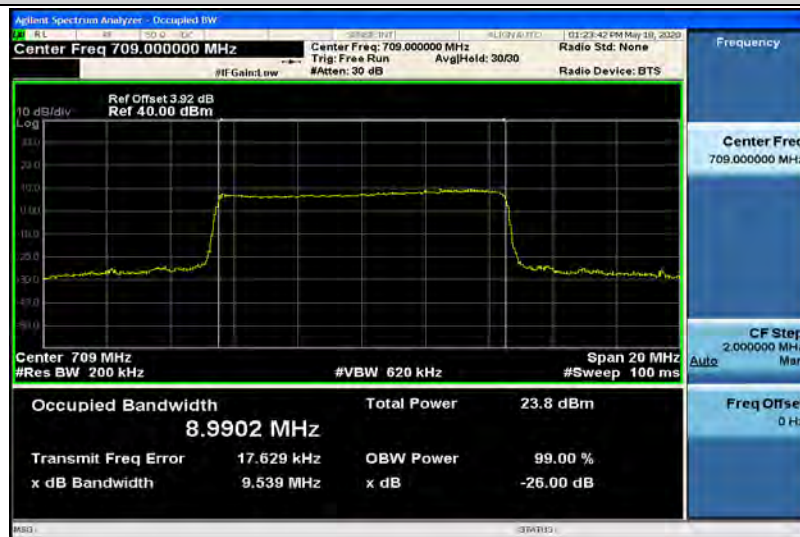
Band17-10MHz-QPSK-23790-50RB#0-8.9616



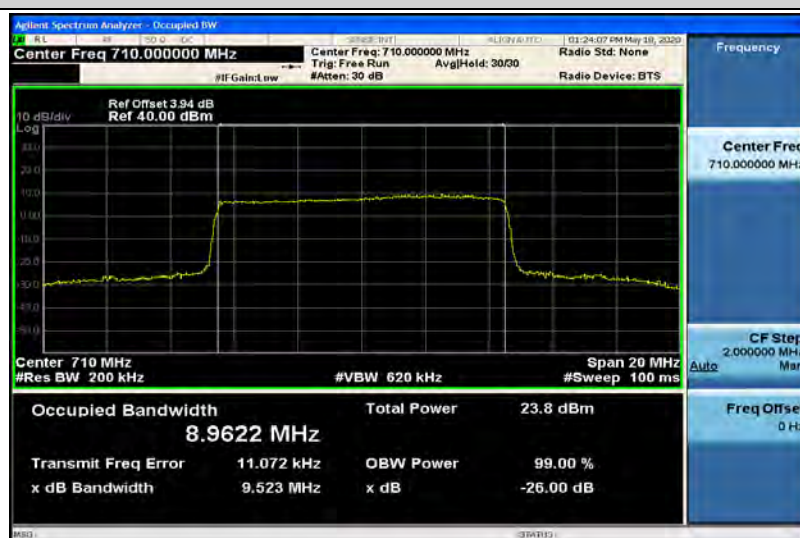
Band17-10MHz-QPSK-23800-50RB#0-8.9413



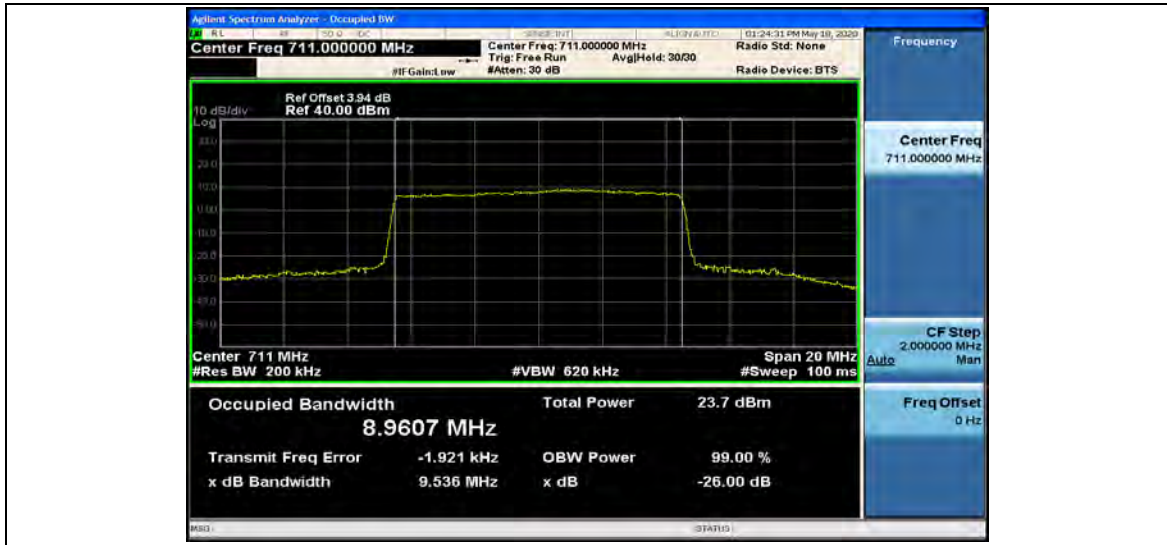
Band17-10MHz-16QAM-23780-50RB#0-8.9902



Band17-10MHz-16QAM-23790-50RB#0-8.9622



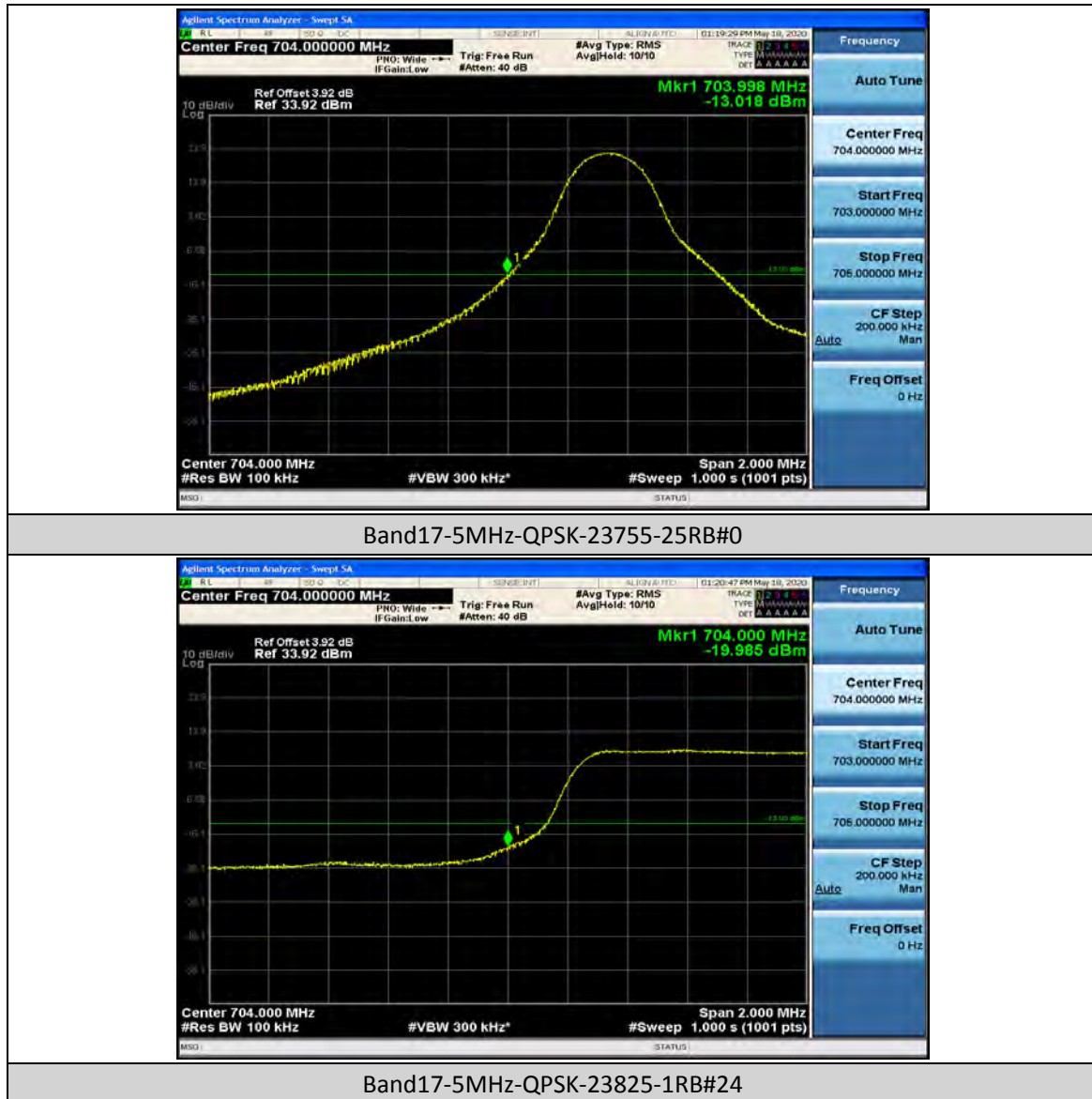
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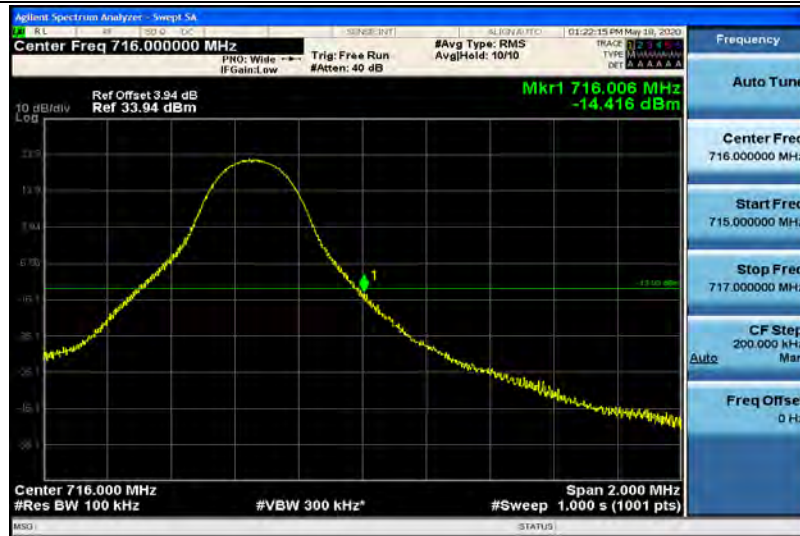




## Appendix D: Band Edge

### Test Graphs

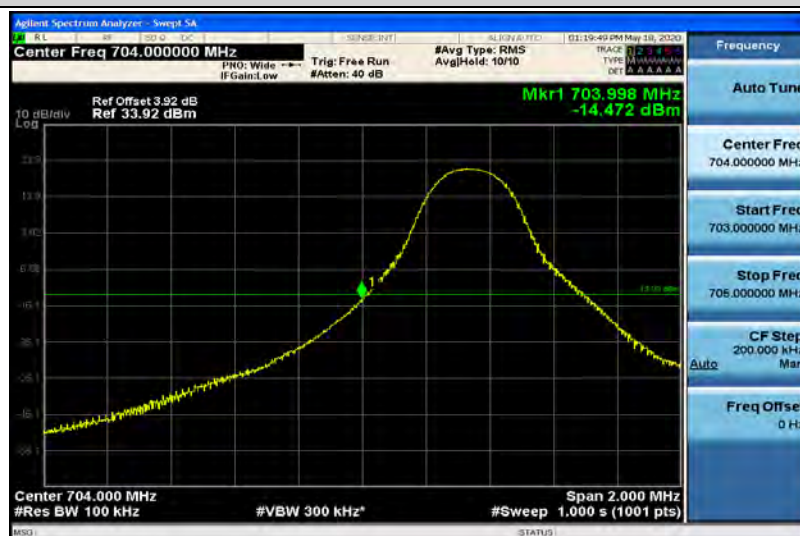




Band17-5MHz-QPSK-23825-25RB#0



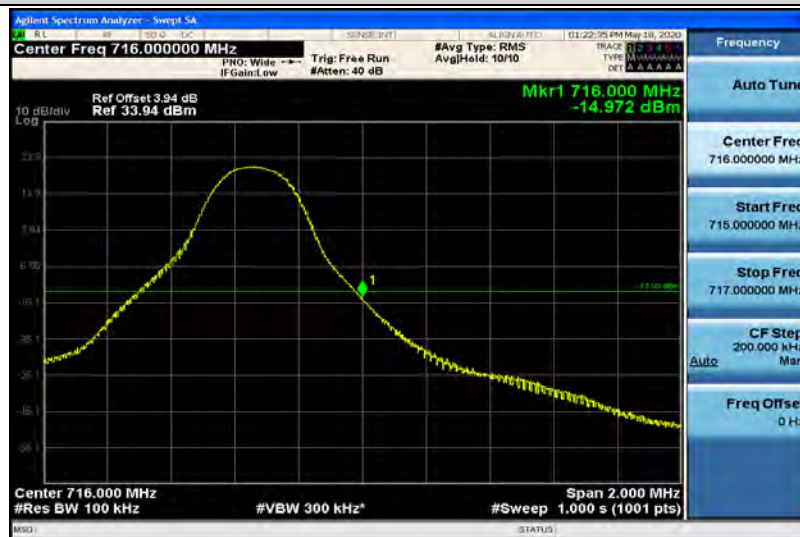
Band17-5MHz-16QAM-23755-1RB#0



Band17-5MHz-16QAM-23755-25RB#0



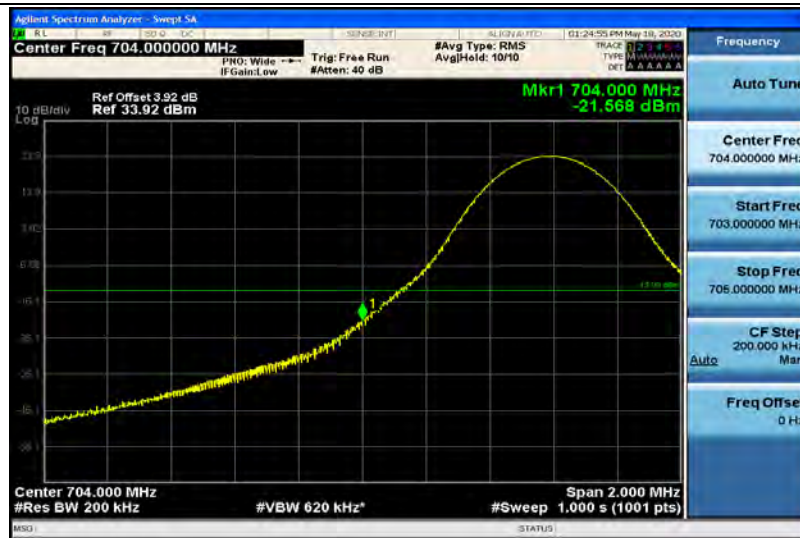
Band17-5MHz-16QAM-23825-1RB#24



Band17-5MHz-16QAM-23825-25RB#0



Band17-10MHz-QPSK-23780-1RB#0



Band17-10MHz-QPSK-23780-50RB#0



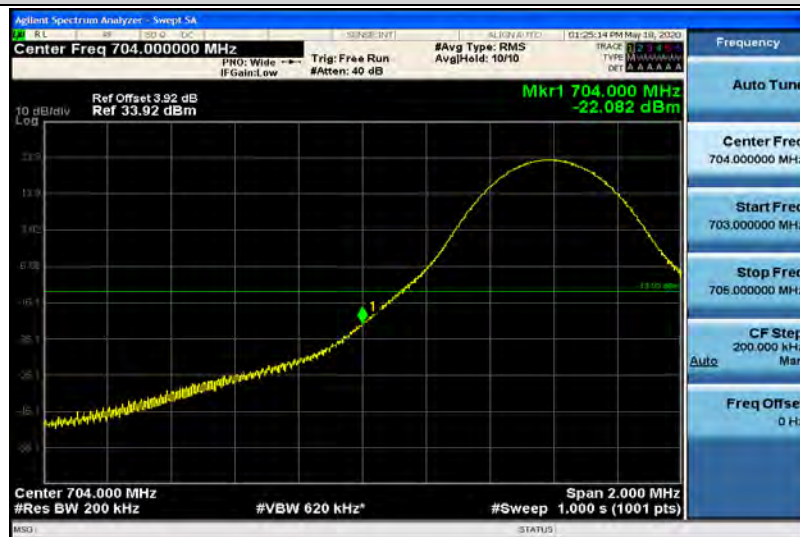
Band17-10MHz-QPSK-23800-1RB#49



Band17-10MHz-QPSK-23800-50RB#0



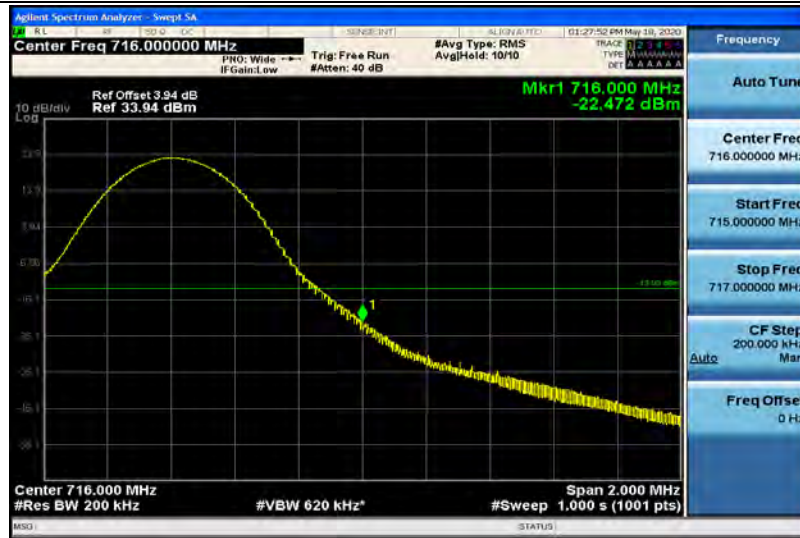
Band17-10MHz-16QAM-23780-1RB#0



Band17-10MHz-16QAM-23780-50RB#0



Band17-10MHz-16QAM-23800-1RB#49



Band17-10MHz-16QAM-23800-50RB#0

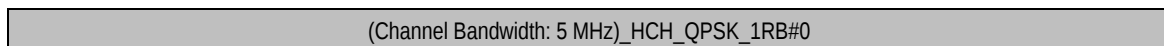
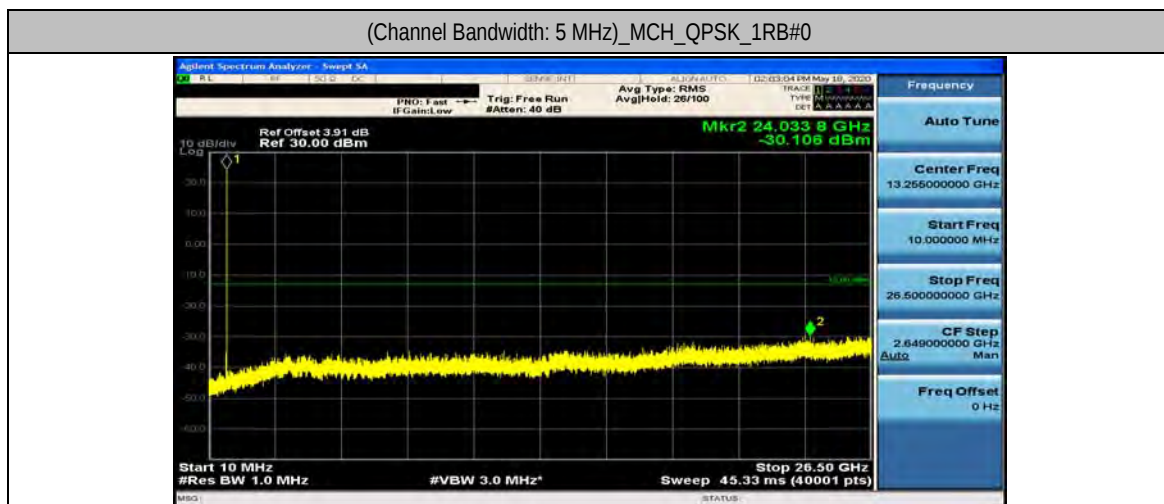
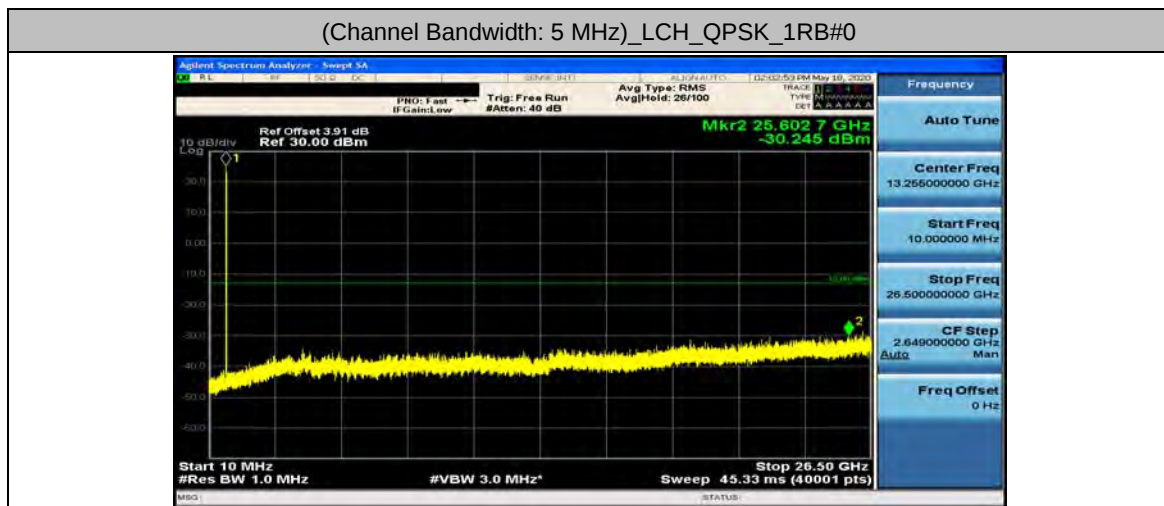


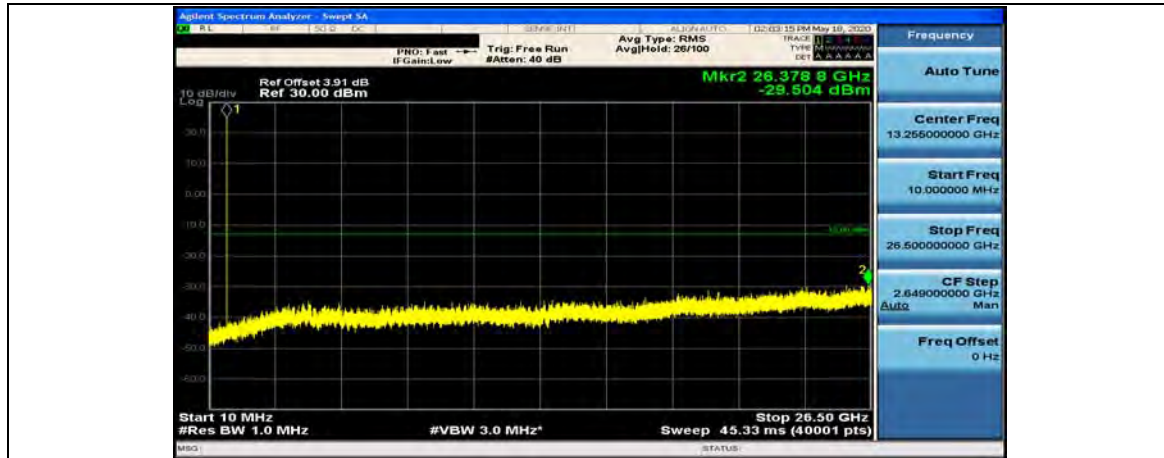


## Appendix E: Conducted Spurious Emission

### Test Graphs

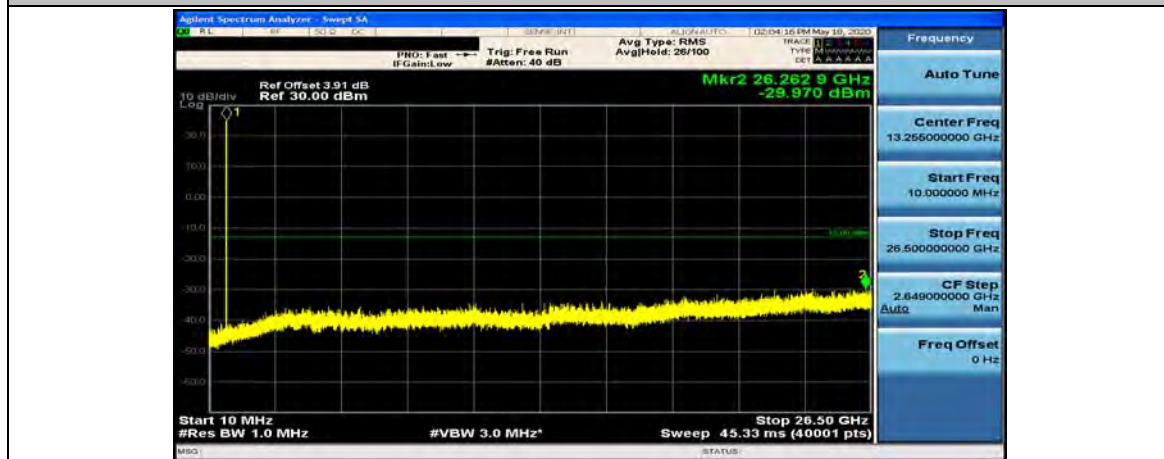
Channel Bandwidth: 5 MHz



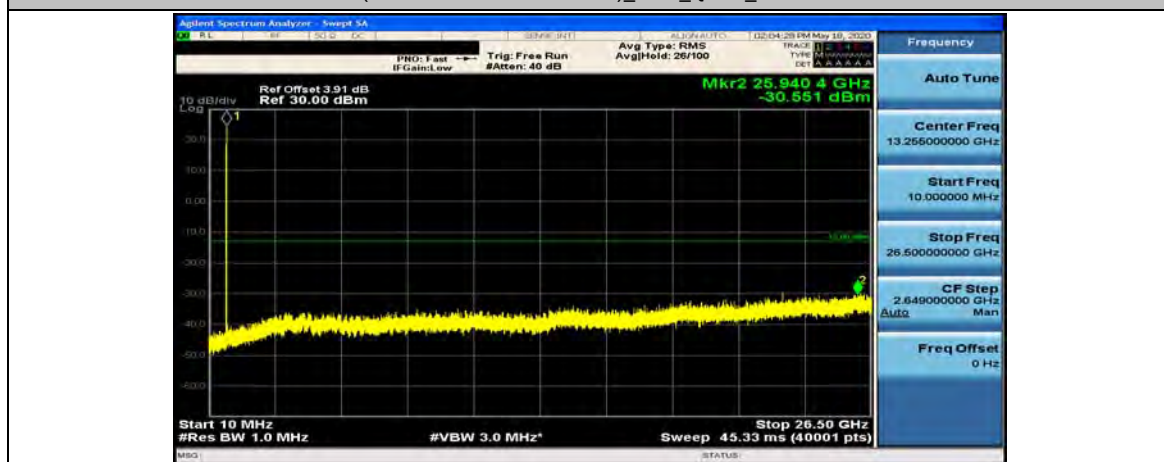


Channel Bandwidth: 10 MHz

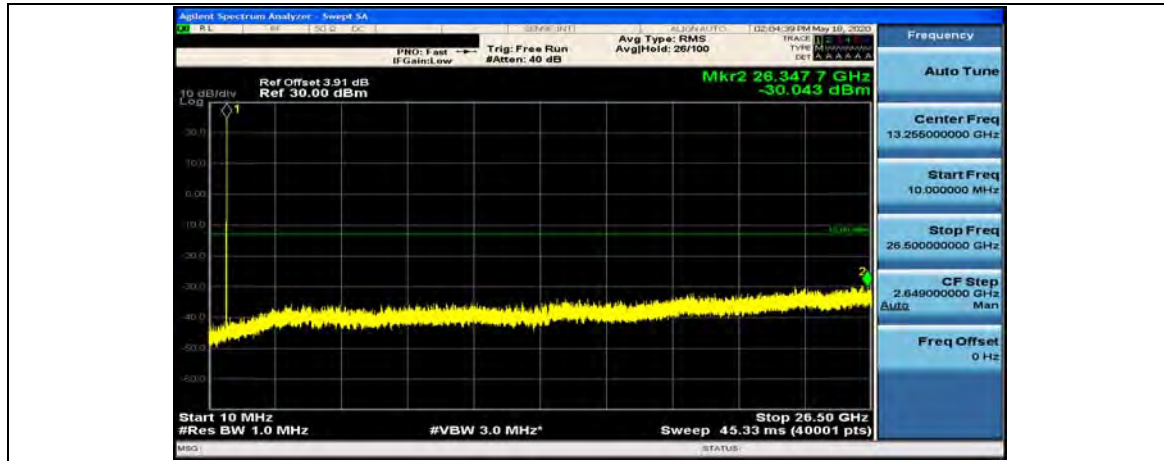
(Channel Bandwidth: 10 MHz)\_LCH\_QPSK\_1RB#0



(Channel Bandwidth: 10 MHz)\_MCH\_QPSK\_1RB#0



(Channel Bandwidth: 10 MHz)\_HCH\_QPSK\_1RB#0



## Appendix F: Frequency Stability

### Test Result

#### 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               | -1.00          | -0.001415       | ± 2.5       | PASS    |
|                          |         | VN            | TN               | 0.00           | 0.000000        | ± 2.5       | PASS    |
|                          |         | VH            | TN               | -0.10          | -0.000142       | ± 2.5       | PASS    |
|                          | MCH     | VL            | TN               | 2.90           | 0.004085        | ± 2.5       | PASS    |
|                          |         | VN            | TN               | 3.40           | 0.004789        | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 1.80           | 0.002535        | ± 2.5       | PASS    |
|                          | HCH     | VL            | TN               | 2.90           | 0.004064        | ± 2.5       | PASS    |
|                          |         | VN            | TN               | -4.80          | -0.006727       | ± 2.5       | PASS    |
|                          |         | VH            | TN               | -6.70          | -0.009390       | ± 2.5       | PASS    |
| Temperature              |         |               |                  |                |                 |             |         |
| Modulation               | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                     | LCH     | VN            | -30              | -4.70          | -0.006653       | ± 2.5       | PASS    |
|                          |         | VN            | -20              | 0.60           | 0.000849        | ± 2.5       | PASS    |
|                          |         | VN            | -10              | -3.50          | -0.004954       | ± 2.5       | PASS    |
|                          |         | VN            | 0                | 2.80           | 0.003963        | ± 2.5       | PASS    |
|                          |         | VN            | 10               | 1.10           | 0.001557        | ± 2.5       | PASS    |
|                          |         | VN            | 20               | 0.20           | 0.000283        | ± 2.5       | PASS    |
|                          |         | VN            | 30               | 1.00           | 0.001415        | ± 2.5       | PASS    |
|                          |         | VN            | 40               | 2.50           | 0.003539        | ± 2.5       | PASS    |
|                          |         | VN            | 50               | -2.60          | -0.003680       | ± 2.5       | PASS    |
|                          | MCH     | VN            | -30              | 0.00           | 0.000000        | ± 2.5       | PASS    |
|                          |         | VN            | -20              | 2.50           | 0.003521        | ± 2.5       | PASS    |
|                          |         | VN            | -10              | 6.50           | 0.009155        | ± 2.5       | PASS    |
|                          |         | VN            | 0                | 9.70           | 0.013662        | ± 2.5       | PASS    |
|                          |         | VN            | 10               | 4.80           | 0.006761        | ± 2.5       | PASS    |
|                          |         | VN            | 20               | 0.00           | 0.000000        | ± 2.5       | PASS    |
|                          |         | VN            | 30               | -0.80          | -0.001127       | ± 2.5       | PASS    |
|                          |         | VN            | 40               | -2.30          | -0.003239       | ± 2.5       | PASS    |
|                          |         | VN            | 50               | 3.30           | 0.004648        | ± 2.5       | PASS    |
|                          | HCH     | VN            | -30              | -5.80          | -0.008129       | ± 2.5       | PASS    |
|                          |         | VN            | -20              | -5.00          | -0.007008       | ± 2.5       | PASS    |
|                          |         | VN            | -10              | -4.00          | -0.005606       | ± 2.5       | PASS    |

|  |  |    |    |       |           |       |      |
|--|--|----|----|-------|-----------|-------|------|
|  |  | VN | 0  | -3.50 | -0.004905 | ± 2.5 | PASS |
|  |  | VN | 10 | -2.50 | -0.003504 | ± 2.5 | PASS |
|  |  | VN | 20 | -2.30 | -0.003224 | ± 2.5 | PASS |
|  |  | VN | 30 | -1.60 | -0.002242 | ± 2.5 | PASS |
|  |  | VN | 40 | 0.40  | 0.000561  | ± 2.5 | PASS |
|  |  | VN | 50 | 0.90  | 0.001261  | ± 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               | -2.40          | -0.003385       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -1.10          | -0.001551       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -3.10          | -0.004372       | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | 6.50           | 0.009155        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 5.90           | 0.008310        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 0.00           | 0.000000        | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | 2.90           | 0.004079        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -1.50          | -0.002110       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -1.40          | -0.001969       | ± 2.5       | PASS    |
| Temperature               |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VN            | -30              | -2.80          | -0.003949       | ± 2.5       | PASS    |
|                           |         | VN            | -20              | -8.60          | -0.012130       | ± 2.5       | PASS    |
|                           |         | VN            | -10              | -4.20          | -0.005924       | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 0.70           | 0.000987        | ± 2.5       | PASS    |
|                           |         | VN            | 10               | -2.90          | -0.004090       | ± 2.5       | PASS    |
|                           |         | VN            | 20               | -5.50          | -0.007757       | ± 2.5       | PASS    |
|                           |         | VN            | 30               | -6.60          | -0.009309       | ± 2.5       | PASS    |
|                           |         | VN            | 40               | -3.10          | -0.004372       | ± 2.5       | PASS    |
|                           |         | VN            | 50               | -2.40          | -0.003385       | ± 2.5       | PASS    |
|                           | MCH     | VN            | -30              | 2.80           | 0.003944        | ± 2.5       | PASS    |
|                           |         | VN            | -20              | 6.00           | 0.008451        | ± 2.5       | PASS    |
|                           |         | VN            | -10              | -0.30          | -0.000423       | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 3.10           | 0.004366        | ± 2.5       | PASS    |
|                           |         | VN            | 10               | 6.90           | 0.009718        | ± 2.5       | PASS    |
|                           |         | VN            | 20               | 0.50           | 0.000704        | ± 2.5       | PASS    |
|                           |         | VN            | 30               | 4.30           | 0.006056        | ± 2.5       | PASS    |
|                           |         | VN            | 40               | -0.70          | -0.000986       | ± 2.5       | PASS    |
|                           |         | VN            | 50               | 3.40           | 0.004789        | ± 2.5       | PASS    |
|                           | HCH     | VN            | -30              | 4.30           | 0.006048        | ± 2.5       | PASS    |
|                           |         | VN            | -20              | 0.20           | 0.000281        | ± 2.5       | PASS    |
|                           |         | VN            | -10              | -4.50          | -0.006329       | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 1.30           | 0.001828        | ± 2.5       | PASS    |
|                           |         | VN            | 10               | -1.60          | -0.002250       | ± 2.5       | PASS    |
|                           |         | VN            | 20               | 3.90           | 0.005485        | ± 2.5       | PASS    |



|  |  |    |    |       |           |       |      |
|--|--|----|----|-------|-----------|-------|------|
|  |  | VN | 30 | 0.70  | 0.000985  | ± 2.5 | PASS |
|  |  | VN | 40 | -2.30 | -0.003235 | ± 2.5 | PASS |
|  |  | VN | 50 | 3.80  | 0.005345  | ± 2.5 | PASS |