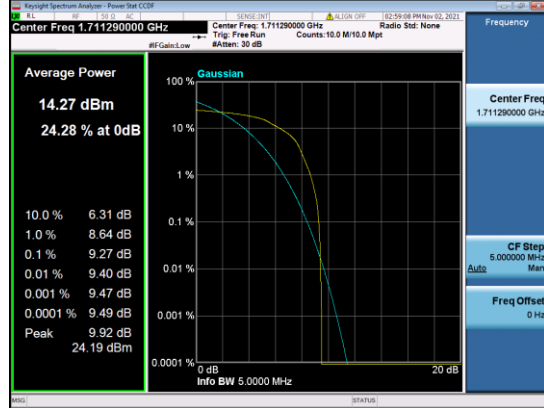
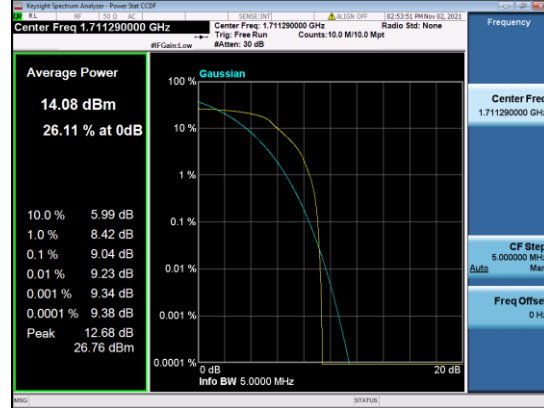


15M

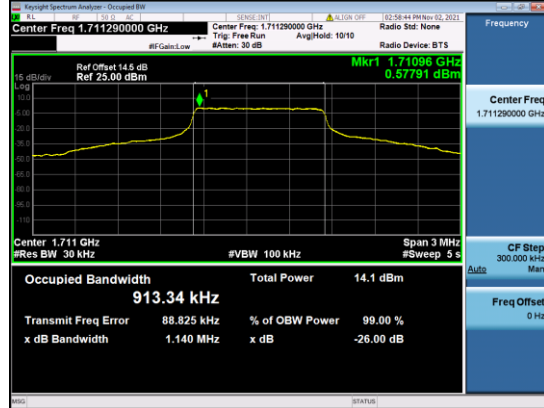
### B4-15M-Low CH-PAPR-Q16



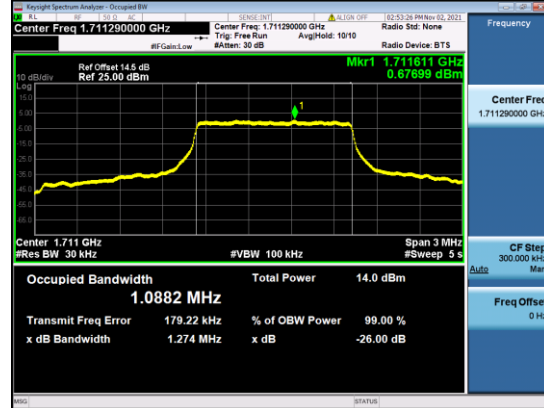
### B4-15M-Low CH-PAPR-QPSK



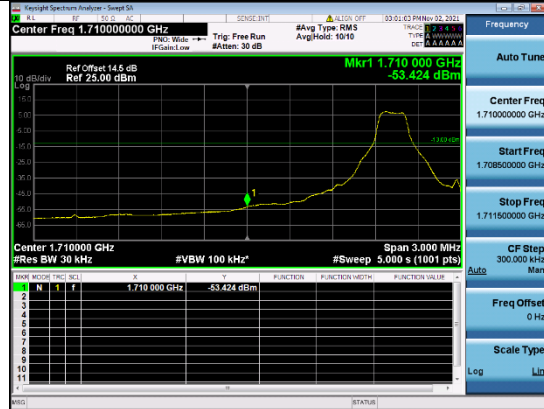
### B4-15M-Low CH-OBW-Q16



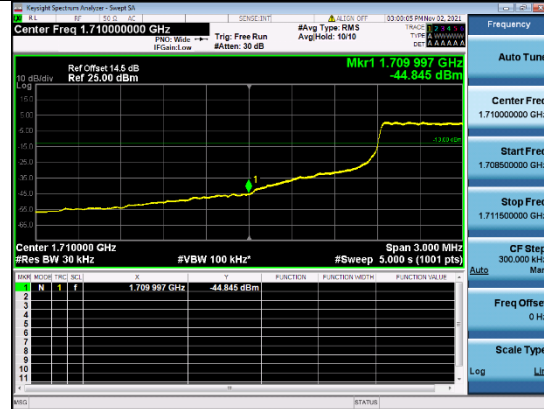
### B4-15M-Low CH-OBW-QPSK



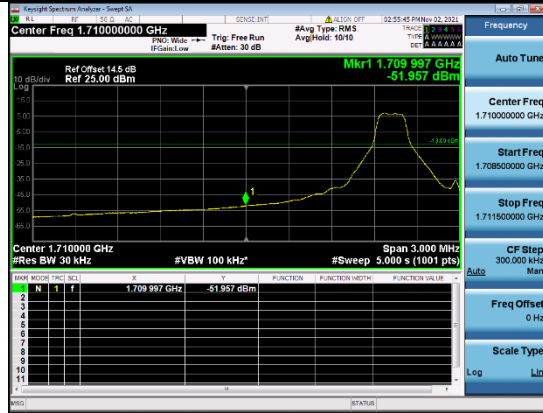
### B4-15M-Low CH-BE-Q16-1 RB 0



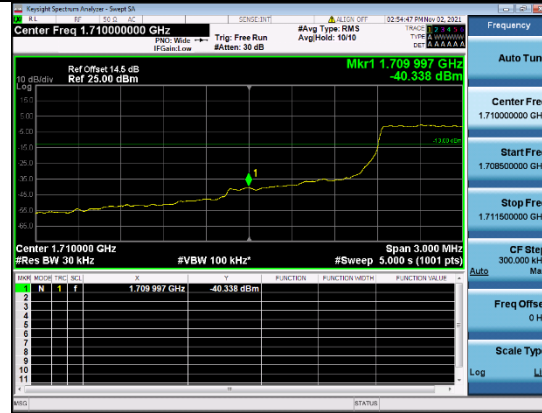
### B4-15M-Low CH-BE-Q16-Full RB 0



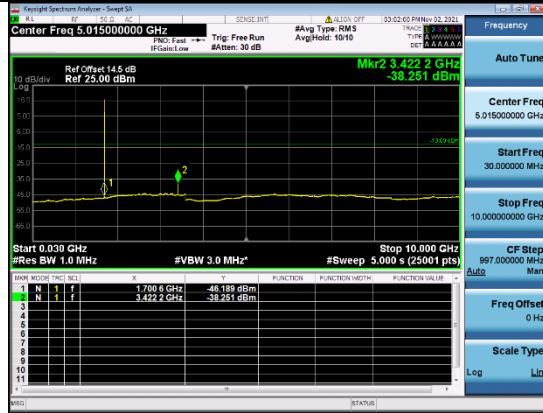
B4-15M-Low CH-BE-QPSK-1 RB 0



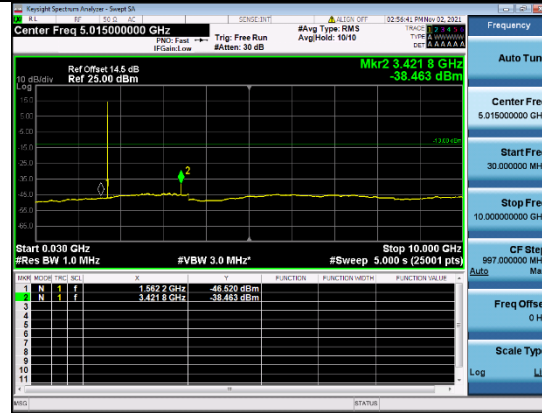
B4-15M-Low CH-BE-QPSK-Full RB 0



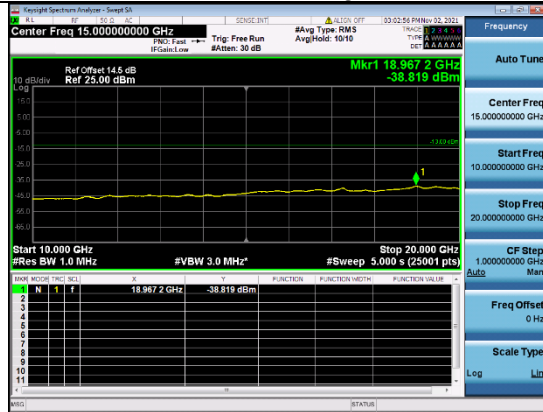
B4-15M-Low CH-CSE-1-Q16-1 RB 0



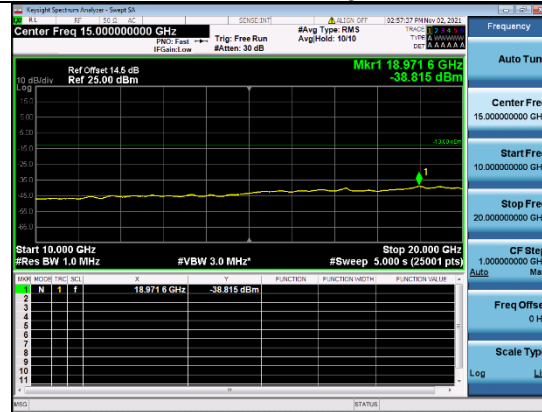
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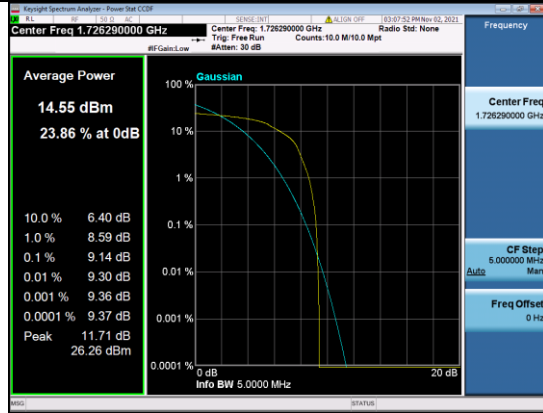
B4-15M-Low CH-CSE-2-Q16-1 RB 0



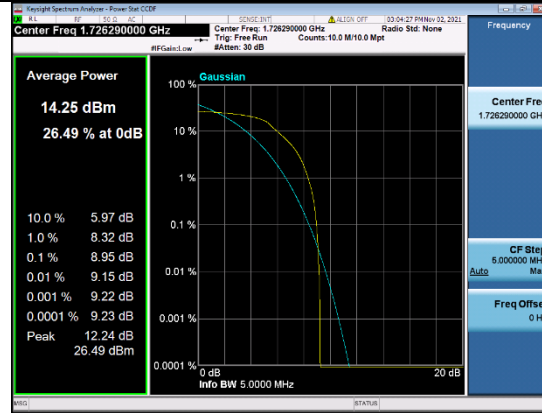
B4-15M-Low CH-CSE-2-QPSK-1 RB 0



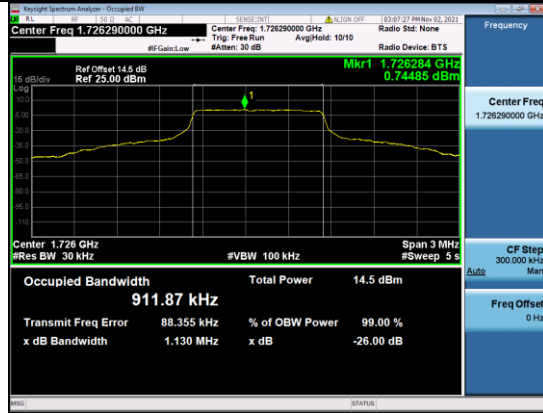
### B4-15M-Mid CH-PAPR-Q16



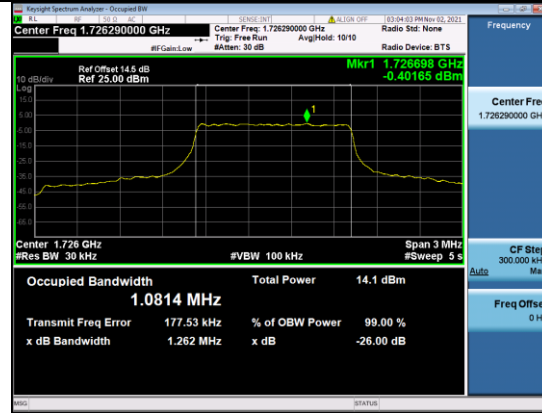
### B4-15M-Mid CH-PAPR-QPSK



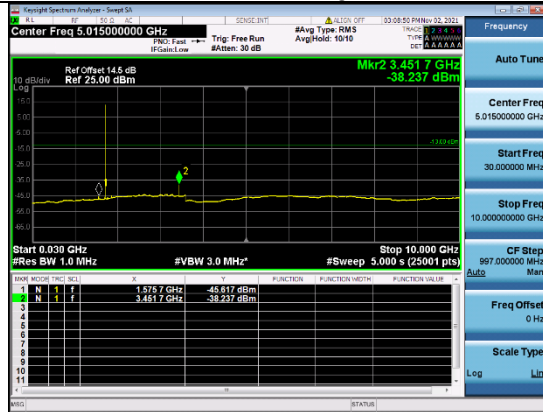
### B4-15M-Mid CH-OBW-Q16



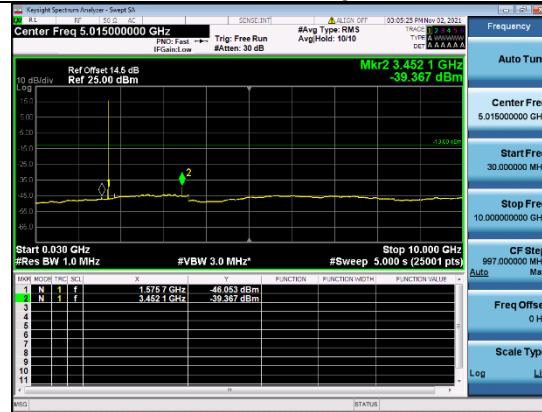
### B4-15M-Mid CH-OBW-QPSK



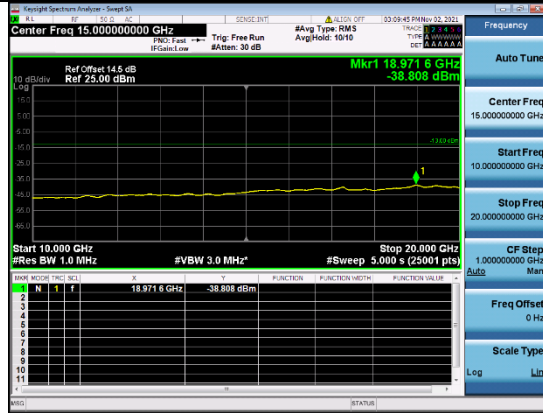
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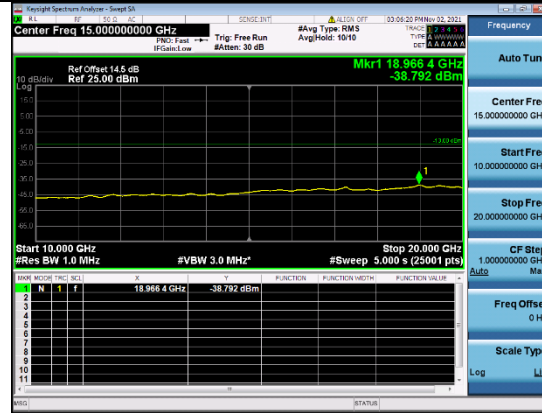
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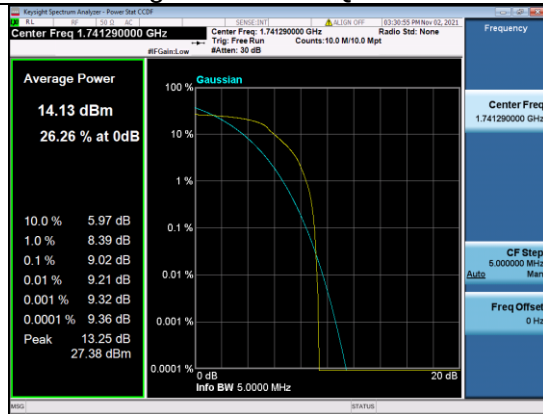
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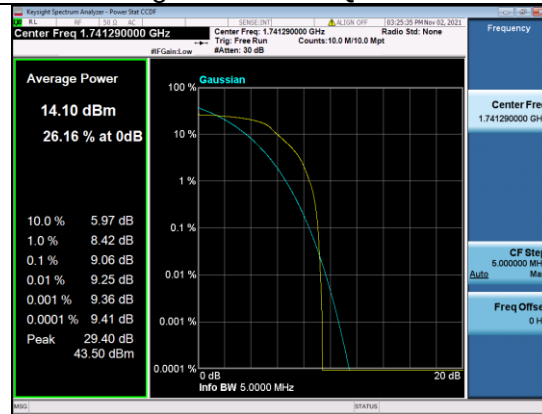
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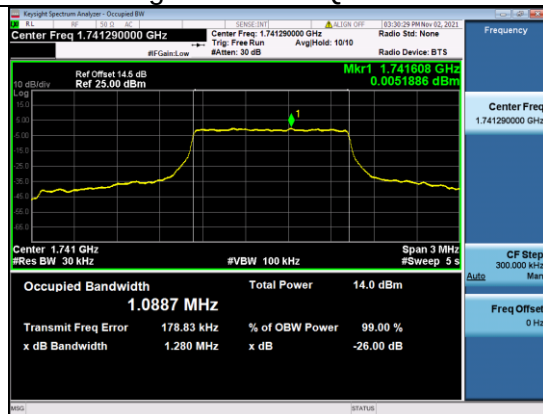
### B4-15M-High CH-PAPR-Q16



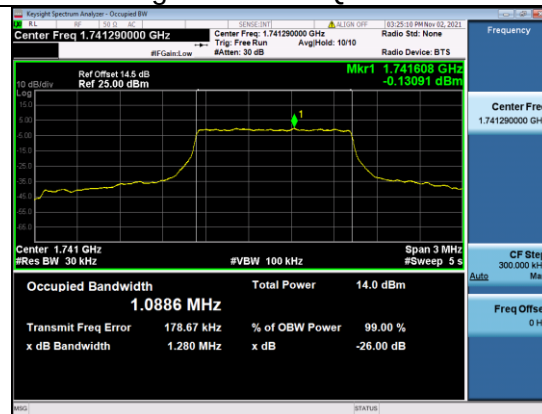
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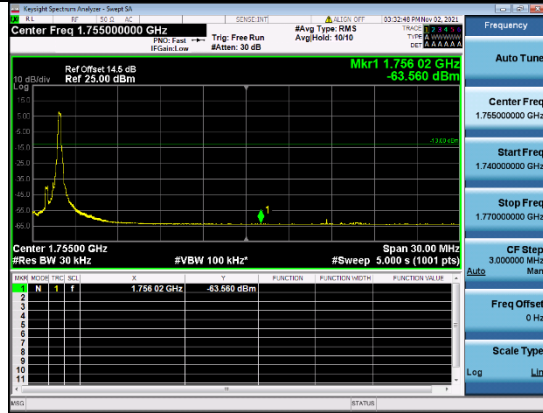
### B4-15M-High CH-OBW-Q16



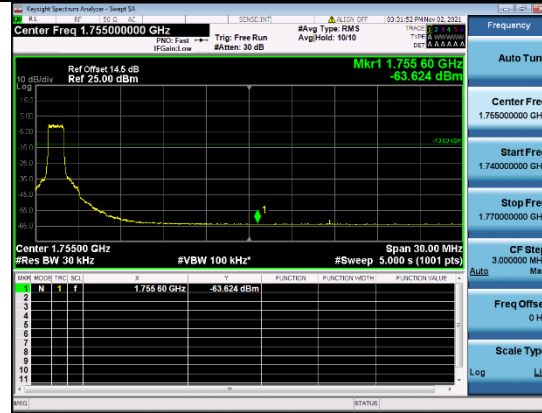
### B4-15M-High CH-OBW-QPSK



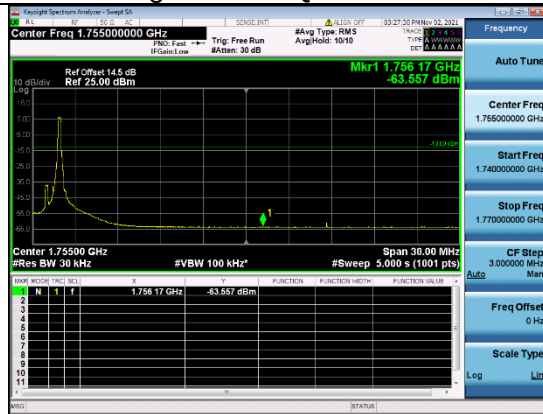
B4-15M-High CH-BE-Q16-1 RB MAX



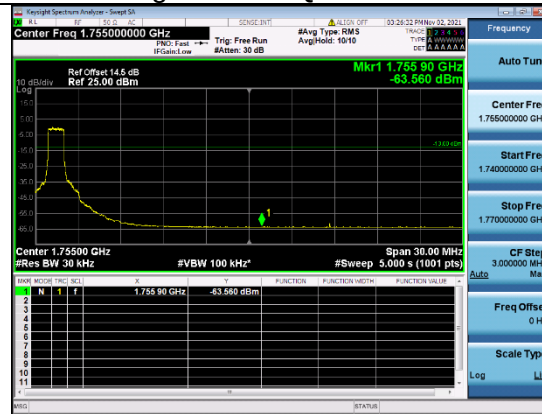
B4-15M-High CH-BE-Q16-Full RB 0



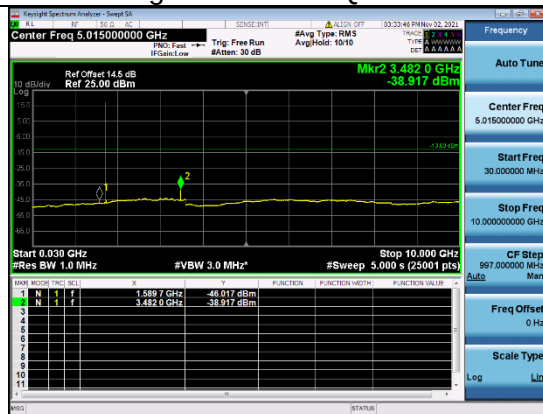
B4-15M-High CH-BE-QPSK-1 RB MAX



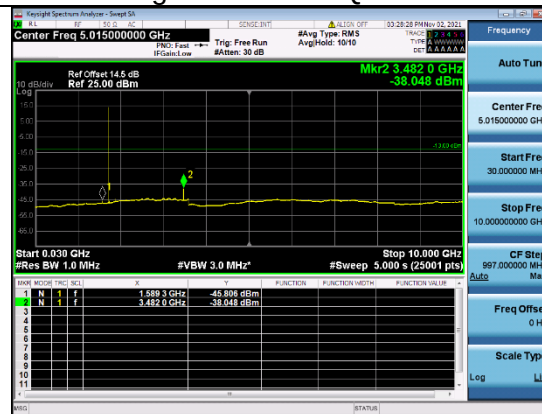
B4-15M-High CH-BE-QPSK-Full RB 0



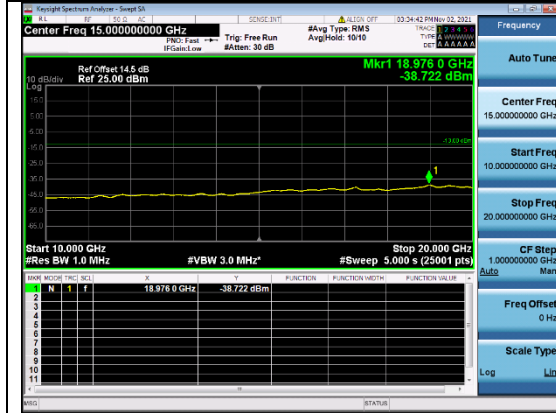
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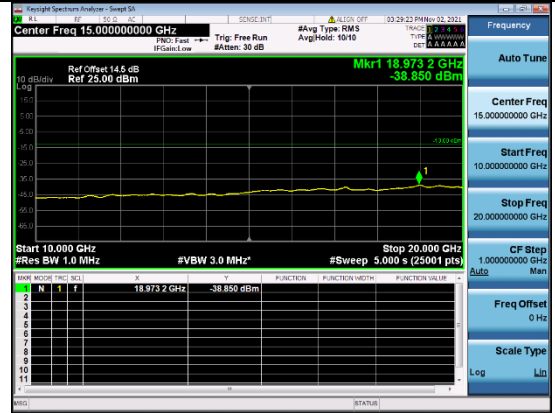
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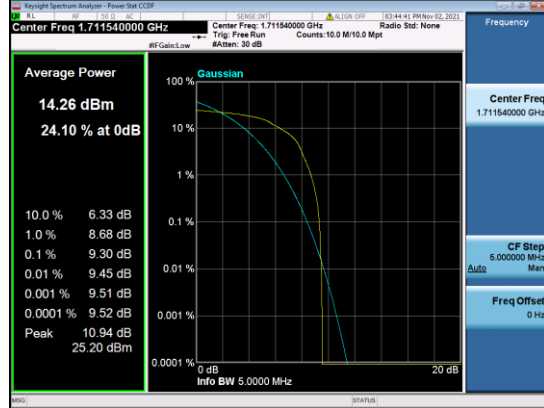
# B4-15M-High CH-CSE-2-Q16-1 RB 0



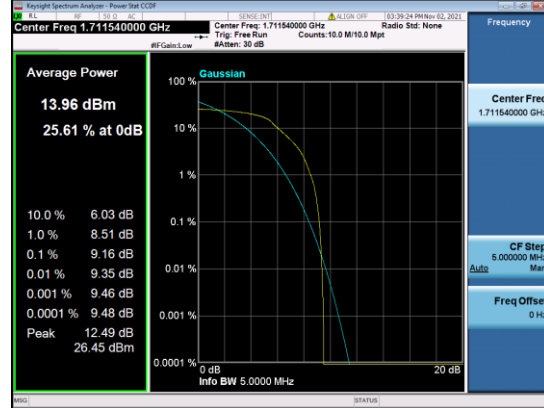
# B4-15M-High CH-CSE-2-QPSK-1 RB 0



## B4-20M-Low CH-PAPR-Q16



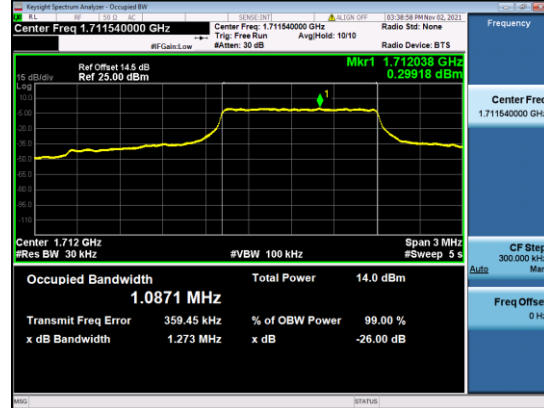
## B4-20M-Low CH-PAPR-QPSK



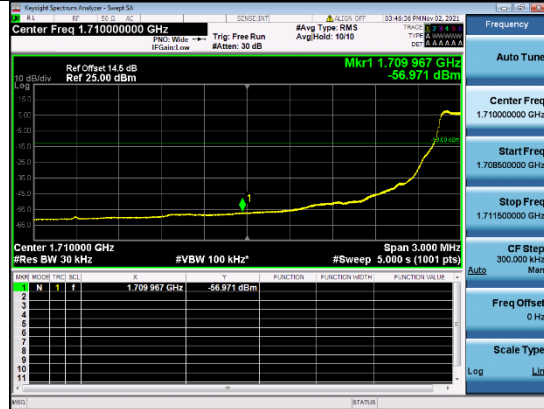
## B4-20M-Low CH-OBW-Q16



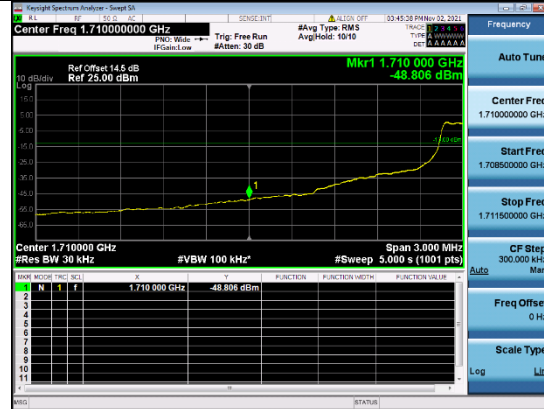
## B4-20M-Low CH-OBW-QPSK



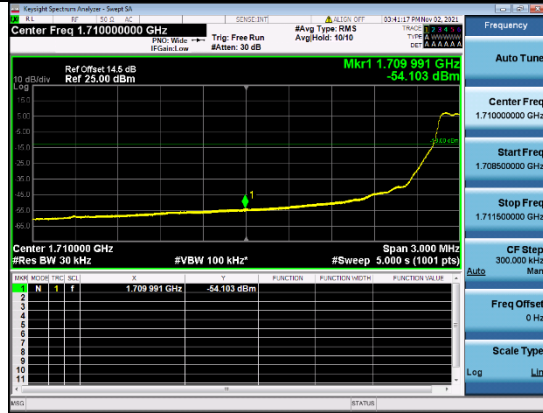
## B4-20M-Low CH-BE-Q16-1 RB 0



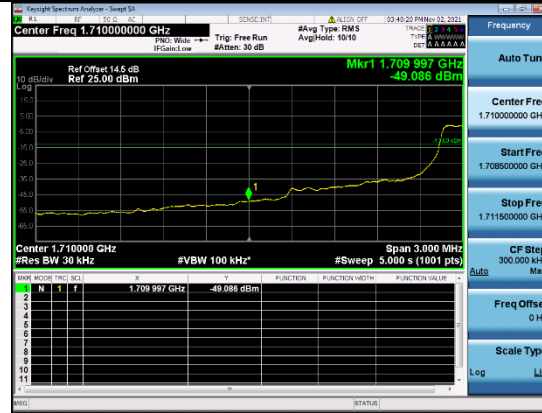
## B4-20M-Low CH-BE-Q16-Full RB 0



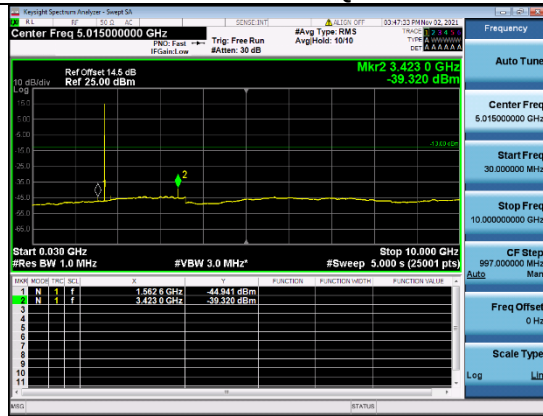
B4-20M-Low CH-BE-QPSK-1 RB 0



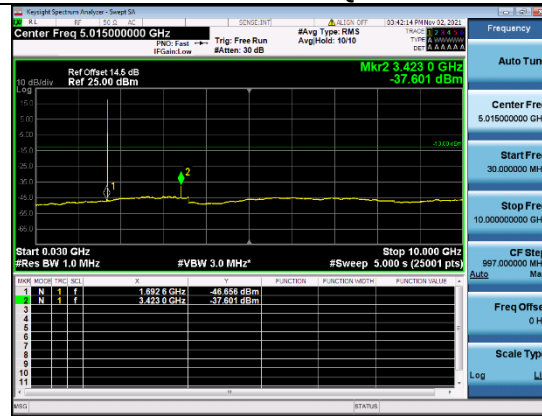
B4-20M-Low CH-BE-QPSK-Full RB 0



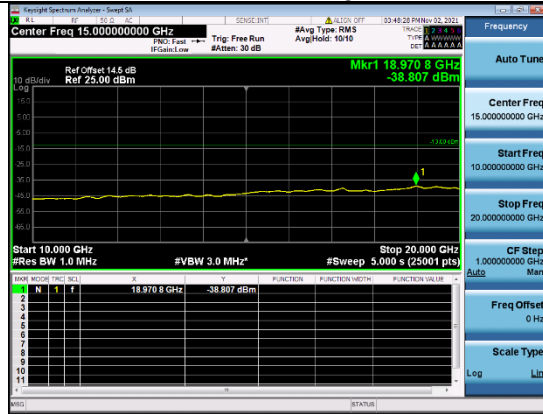
B4-20M-Low CH-CSE-1-Q16-1 RB 0



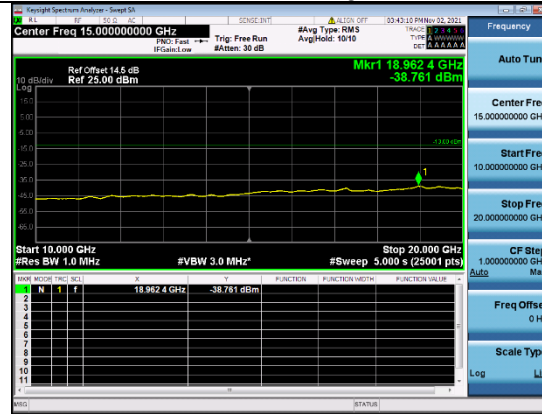
B4-20M-Low CH-CSE-1-QPSK-1 RB 0



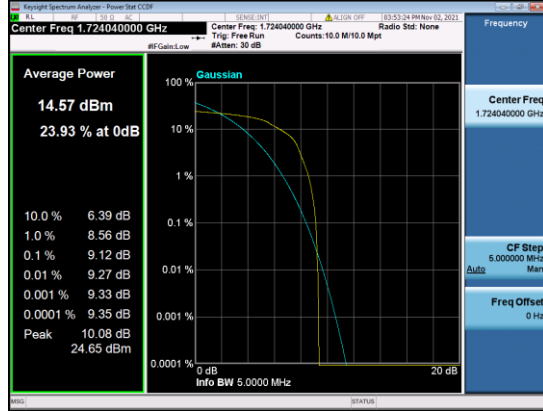
B4-20M-Low CH-CSE-2-Q16-1 RB 0



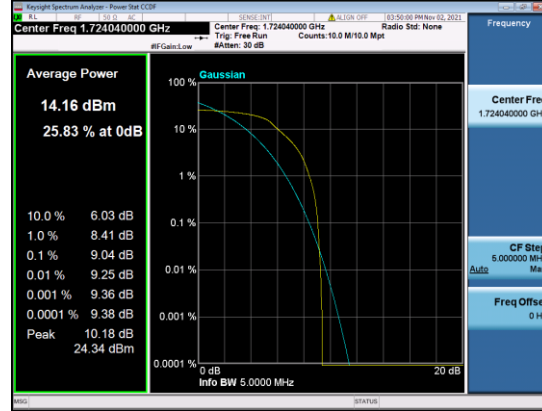
B4-20M-Low CH-CSE-2-QPSK-1 RB 0



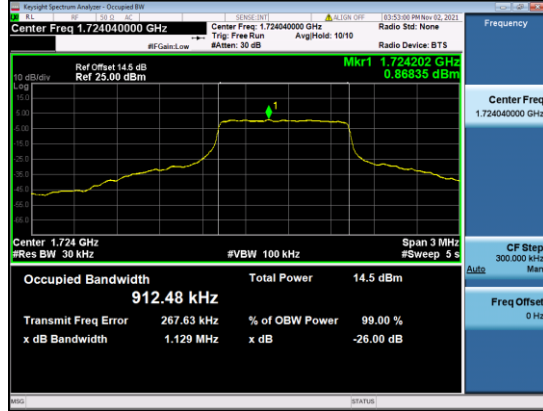
### B4-20M-Mid CH-PAPR-Q16



### B4-20M-Mid CH-PAPR-QPSK



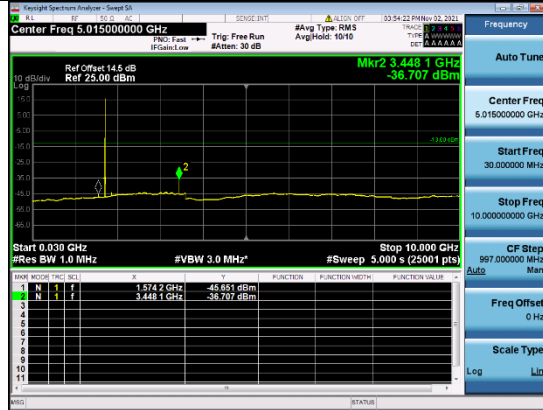
### B4-20M-Mid CH-OBW-Q16



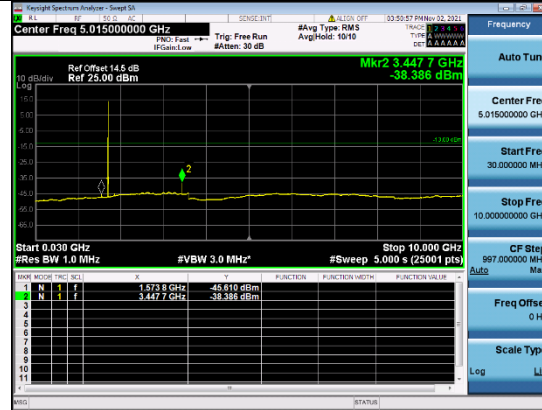
### B4-20M-Mid CH-OBW-QPSK



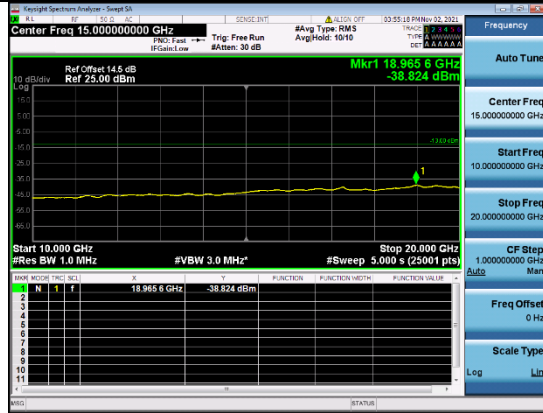
### B4-20M-Mid CH-CSE-1-Q16-1 RB 0



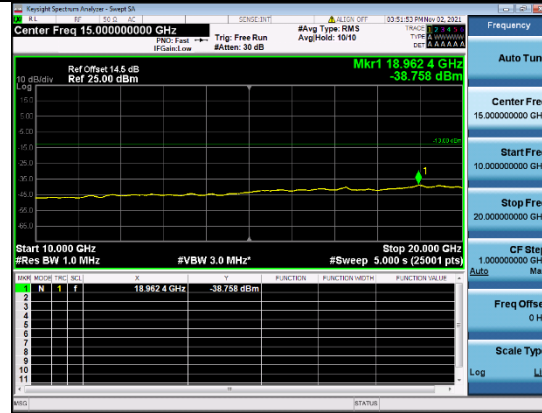
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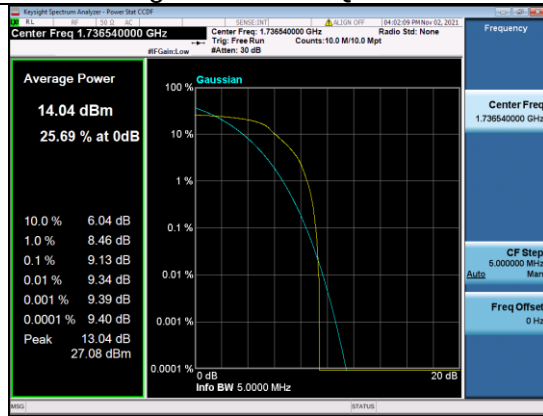
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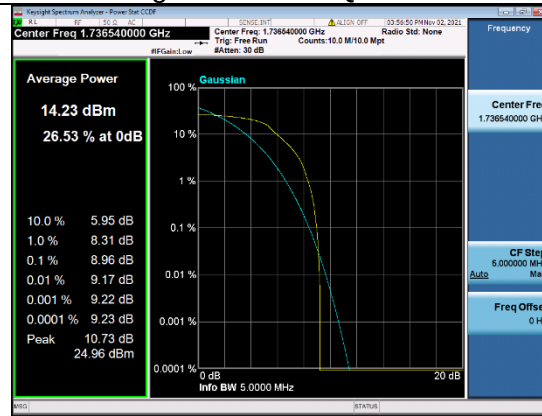
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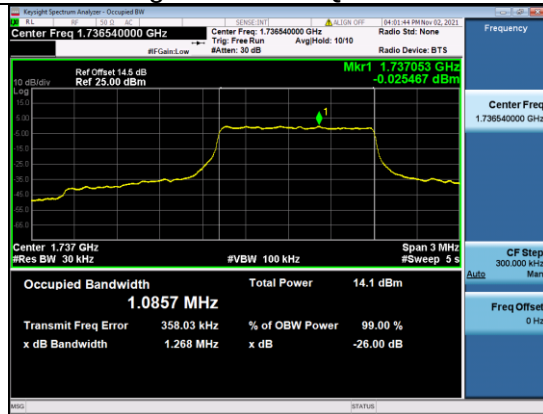
### B4-20M-High CH-PAPR-Q16



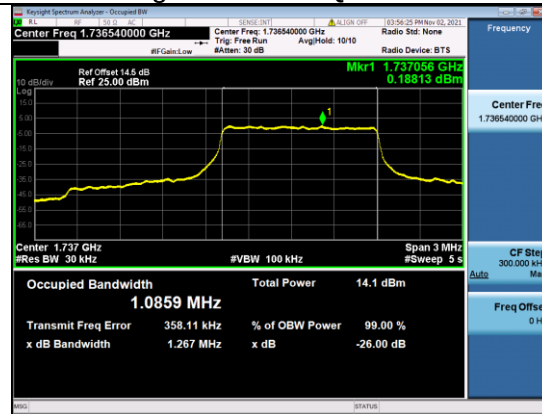
### B4-20M-High CH-PAPR-QPSK



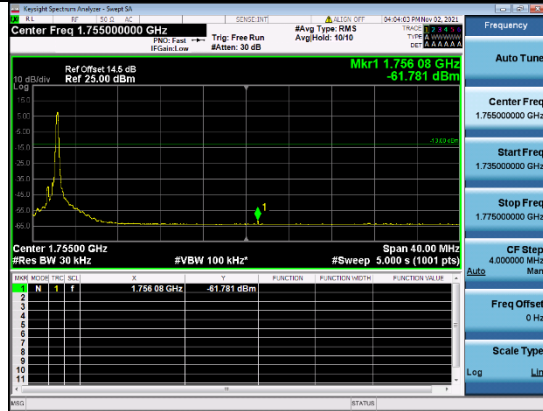
### B4-20M-High CH-OBW-Q16



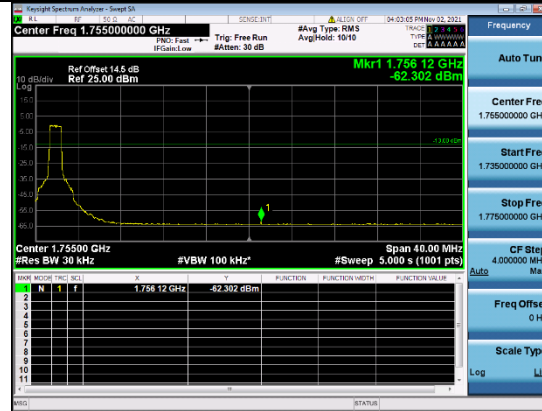
### B4-20M-High CH-OBW-QPSK



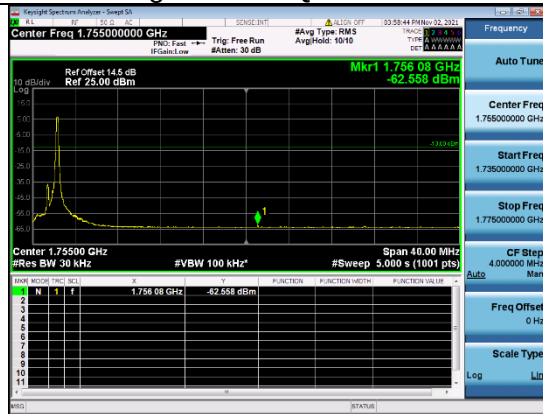
B4-20M-High CH-BE-Q16-1 RB MAX



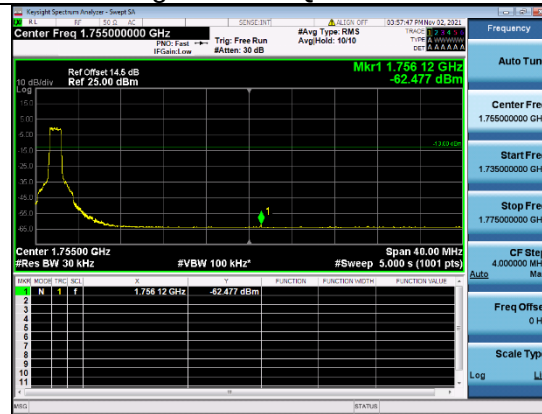
B4-20M-High CH-BE-Q16-Full RB 0



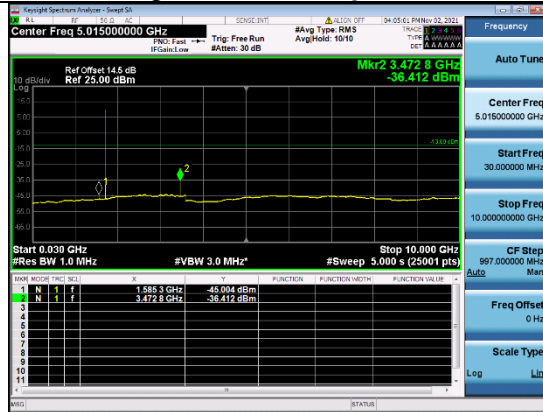
B4-20M-High CH-BE-QPSK-1 RB MAX



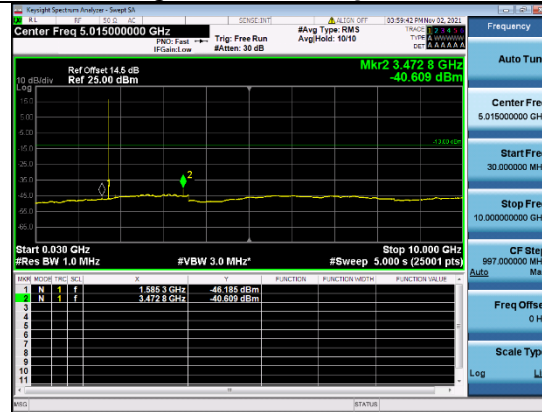
B4-20M-High CH-BE-QPSK-Full RB 0



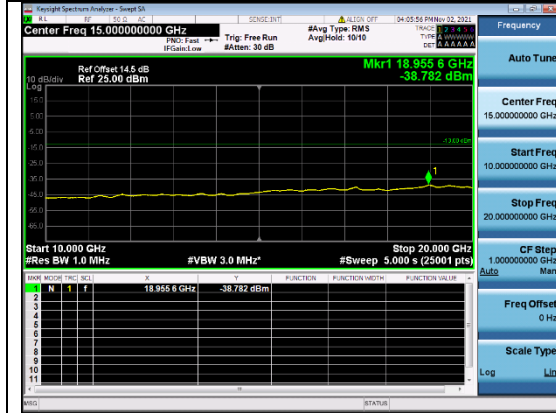
B4-20M-High CH-CSE-1-Q16-1 RB 0



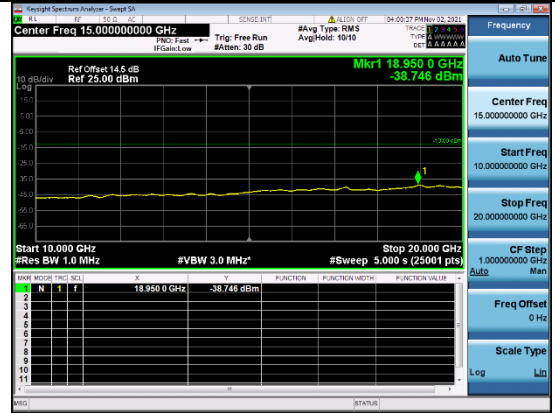
B4-20M-High CH-CSE-1-QPSK-1 RB 0



# B4-20M-High CH-CSE-2-Q16-1 RB 0



# B4-20M-High CH-CSE-2-QPSK-1 RB 0



### 3. Frequency Stability

#### 3.1 B4\_1.4MHz

##### 3.1.1 Test Result

| Band: 4 / Bandwidth: 1.4MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 1710.7          | 6             | 0      | 20         | 5.4           | -23.518          | -0.0137               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 6.0           | -25.477          | -0.0149               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 6.6           | -24.319          | -0.0142               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 6.0           | -21.329          | -0.0125               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 6.0           | -19.398          | -0.0113               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 6.0           | -17.095          | -0.0100               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 6.0           | -15.850          | -0.0093               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 6.0           | -13.375          | -0.0078               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 6.0           | -10.815          | -0.0063               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 6.0           | -9.542           | -0.0056               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 6.0           | -6.752           | -0.0039               | -2.5 to 2.5 | Pass    |
|                             | 1732.5          | 6             | 0      | 20         | 5.4           | -1.245           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 6.0           | -1.616           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 6.6           | 1.473            | 0.0009                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 6.0           | 4.506            | 0.0026                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 6.0           | 7.310            | 0.0042                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 6.0           | 9.842            | 0.0057                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 6.0           | 11.358           | 0.0066                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 6.0           | 13.661           | 0.0079                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 6.0           | 16.823           | 0.0097                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 6.0           | 19.469           | 0.0112                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 6.0           | 22.445           | 0.0130                | -2.5 to 2.5 | Pass    |

|       |        |   |   |     |     |        |         |             |      |
|-------|--------|---|---|-----|-----|--------|---------|-------------|------|
|       | 1754.3 | 6 | 0 | 20  | 5.4 | -1.044 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 6.0 | -0.715 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 6.6 | 1.216  | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 6.0 | 3.920  | 0.0022  | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 6.0 | 5.836  | 0.0033  | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 6.0 | 7.768  | 0.0044  | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 6.0 | 9.785  | 0.0056  | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 6.0 | 13.146 | 0.0075  | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 6.0 | 15.650 | 0.0089  | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 6.0 | 18.740 | 0.0107  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 6.0 | 20.542 | 0.0117  | -2.5 to 2.5 | Pass |
| 16QAM | 1710.7 | 6 | 0 | 20  | 5.4 | -3.834 | -0.0022 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 6.0 | -1.259 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 6.6 | 0.300  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 6.0 | 2.575  | 0.0015  | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 6.0 | 3.920  | 0.0023  | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 6.0 | 5.236  | 0.0031  | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 6.0 | 6.537  | 0.0038  | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 6.0 | 8.283  | 0.0048  | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 6.0 | 9.499  | 0.0056  | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 6.0 | 10.457 | 0.0061  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 6.0 | 11.058 | 0.0065  | -2.5 to 2.5 | Pass |
|       | 1732.5 | 6 | 0 | 20  | 5.4 | 25.563 | 0.0148  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 6.0 | 27.637 | 0.0160  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 6.6 | 29.955 | 0.0173  | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 6.0 | 30.999 | 0.0179  | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 6.0 | 32.001 | 0.0185  | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 6.0 | 33.746 | 0.0195  | -2.5 to 2.5 | Pass |

|  |        |   |   |     |     |        |        |             |      |
|--|--------|---|---|-----|-----|--------|--------|-------------|------|
|  |        |   |   | 0   | 6.0 | 34.733 | 0.0200 | -2.5 to 2.5 | Pass |
|  |        |   |   | 10  | 6.0 | 35.834 | 0.0207 | -2.5 to 2.5 | Pass |
|  |        |   |   | 30  | 6.0 | 36.836 | 0.0213 | -2.5 to 2.5 | Pass |
|  |        |   |   | 40  | 6.0 | 37.179 | 0.0215 | -2.5 to 2.5 | Pass |
|  |        |   |   | 50  | 6.0 | 37.394 | 0.0216 | -2.5 to 2.5 | Pass |
|  | 1754.3 | 6 | 0 | 20  | 5.4 | 22.788 | 0.0130 | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 6.0 | 25.463 | 0.0145 | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 6.6 | 27.208 | 0.0155 | -2.5 to 2.5 | Pass |
|  |        |   |   | -30 | 6.0 | 27.981 | 0.0159 | -2.5 to 2.5 | Pass |
|  |        |   |   | -20 | 6.0 | 29.426 | 0.0168 | -2.5 to 2.5 | Pass |
|  |        |   |   | -10 | 6.0 | 31.071 | 0.0177 | -2.5 to 2.5 | Pass |
|  |        |   |   | 0   | 6.0 | 31.557 | 0.0180 | -2.5 to 2.5 | Pass |
|  |        |   |   | 10  | 6.0 | 33.345 | 0.0190 | -2.5 to 2.5 | Pass |
|  |        |   |   | 30  | 6.0 | 34.132 | 0.0195 | -2.5 to 2.5 | Pass |
|  |        |   |   | 40  | 6.0 | 34.862 | 0.0199 | -2.5 to 2.5 | Pass |
|  |        |   |   | 50  | 6.0 | 35.706 | 0.0204 | -2.5 to 2.5 | Pass |

## 3.2 B4\_3MHz

### 3.2.1 Test Result

| Band: 4 / Bandwidth: 3MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 1711.5          | 6             | 0      | 20         | 5.4           | -18.768          | -0.0110               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 6.0           | -18.024          | -0.0105               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 6.6           | -14.277          | -0.0083               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 6.0           | -11.187          | -0.0065               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 6.0           | -6.952           | -0.0041               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 6.0           | -3.376           | -0.0020               | -2.5 to 2.5 | Pass    |

|  |        |        |   |     |     |         |         |             |             |
|--|--------|--------|---|-----|-----|---------|---------|-------------|-------------|
|  |        |        |   | 0   | 6.0 | -0.329  | -0.0002 | -2.5 to 2.5 | Pass        |
|  |        |        |   | 10  | 6.0 | 3.605   | 0.0021  | -2.5 to 2.5 | Pass        |
|  |        |        |   | 30  | 6.0 | 7.224   | 0.0042  | -2.5 to 2.5 | Pass        |
|  |        |        |   | 40  | 6.0 | 11.086  | 0.0065  | -2.5 to 2.5 | Pass        |
|  |        |        |   | 50  | 6.0 | 13.490  | 0.0079  | -2.5 to 2.5 | Pass        |
|  | 1732.5 | 6      | 0 | 20  | 5.4 | -27.537 | -0.0159 | -2.5 to 2.5 | Pass        |
|  |        |        |   |     | 6.0 | -28.710 | -0.0166 | -2.5 to 2.5 | Pass        |
|  |        |        |   |     | 6.6 | -27.437 | -0.0158 | -2.5 to 2.5 | Pass        |
|  |        |        |   | -30 | 6.0 | -27.752 | -0.0160 | -2.5 to 2.5 | Pass        |
|  |        |        |   | -20 | 6.0 | -26.822 | -0.0155 | -2.5 to 2.5 | Pass        |
|  |        |        |   | -10 | 6.0 | -25.692 | -0.0148 | -2.5 to 2.5 | Pass        |
|  |        |        |   | 0   | 6.0 | -24.233 | -0.0140 | -2.5 to 2.5 | Pass        |
|  |        |        |   | 10  | 6.0 | -23.818 | -0.0137 | -2.5 to 2.5 | Pass        |
|  |        |        |   | 30  | 6.0 | -24.204 | -0.0140 | -2.5 to 2.5 | Pass        |
|  |        |        |   | 40  | 6.0 | -22.860 | -0.0132 | -2.5 to 2.5 | Pass        |
|  |        |        |   | 50  | 6.0 | -21.286 | -0.0123 | -2.5 to 2.5 | Pass        |
|  | 1753.5 | 6      | 0 | 20  | 5.4 | -22.831 | -0.0130 | -2.5 to 2.5 | Pass        |
|  |        |        |   |     | 6.0 | -22.130 | -0.0126 | -2.5 to 2.5 | Pass        |
|  |        |        |   |     | 6.6 | -19.169 | -0.0109 | -2.5 to 2.5 | Pass        |
|  |        |        |   | -30 | 6.0 | -16.351 | -0.0093 | -2.5 to 2.5 | Pass        |
|  |        |        |   | -20 | 6.0 | -12.960 | -0.0074 | -2.5 to 2.5 | Pass        |
|  |        |        |   | -10 | 6.0 | -10.042 | -0.0057 | -2.5 to 2.5 | Pass        |
|  |        |        |   | 0   | 6.0 | -7.010  | -0.0040 | -2.5 to 2.5 | Pass        |
|  |        |        |   | 10  | 6.0 | -4.034  | -0.0023 | -2.5 to 2.5 | Pass        |
|  |        |        |   | 30  | 6.0 | -0.873  | -0.0005 | -2.5 to 2.5 | Pass        |
|  |        |        |   | 40  | 6.0 | 1.845   | 0.0011  | -2.5 to 2.5 | Pass        |
|  |        |        |   | 50  | 6.0 | 4.106   | 0.0023  | -2.5 to 2.5 | Pass        |
|  | 16QAM  | 1711.5 | 6 | 0   | 20  | 5.4     | 17.610  | 0.0103      | -2.5 to 2.5 |

|  |        |   |   |     |     |         |         |             |      |
|--|--------|---|---|-----|-----|---------|---------|-------------|------|
|  |        |   |   |     | 6.0 | 22.402  | 0.0131  | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 6.6 | 24.719  | 0.0144  | -2.5 to 2.5 | Pass |
|  |        |   |   | -30 | 6.0 | 27.366  | 0.0160  | -2.5 to 2.5 | Pass |
|  |        |   |   | -20 | 6.0 | 29.569  | 0.0173  | -2.5 to 2.5 | Pass |
|  |        |   |   | -10 | 6.0 | 31.857  | 0.0186  | -2.5 to 2.5 | Pass |
|  |        |   |   | 0   | 6.0 | -4.091  | -0.0024 | -2.5 to 2.5 | Pass |
|  |        |   |   | 10  | 6.0 | -1.845  | -0.0011 | -2.5 to 2.5 | Pass |
|  |        |   |   | 30  | 6.0 | -0.243  | -0.0001 | -2.5 to 2.5 | Pass |
|  |        |   |   | 40  | 6.0 | 1.502   | 0.0009  | -2.5 to 2.5 | Pass |
|  |        |   |   | 50  | 6.0 | 3.319   | 0.0019  | -2.5 to 2.5 | Pass |
|  | 1732.5 | 6 | 0 | 20  | 5.4 | -19.727 | -0.0114 | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 6.0 | -19.469 | -0.0112 | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 6.6 | -18.382 | -0.0106 | -2.5 to 2.5 | Pass |
|  |        |   |   | -30 | 6.0 | -18.697 | -0.0108 | -2.5 to 2.5 | Pass |
|  |        |   |   | -20 | 6.0 | -19.269 | -0.0111 | -2.5 to 2.5 | Pass |
|  |        |   |   | -10 | 6.0 | -18.597 | -0.0107 | -2.5 to 2.5 | Pass |
|  |        |   |   | 0   | 6.0 | -18.067 | -0.0104 | -2.5 to 2.5 | Pass |
|  |        |   |   | 10  | 6.0 | -16.780 | -0.0097 | -2.5 to 2.5 | Pass |
|  |        |   |   | 30  | 6.0 | -17.266 | -0.0100 | -2.5 to 2.5 | Pass |
|  |        |   |   | 40  | 6.0 | -16.451 | -0.0095 | -2.5 to 2.5 | Pass |
|  |        |   |   | 50  | 6.0 | -17.281 | -0.0100 | -2.5 to 2.5 | Pass |
|  | 1753.5 | 6 | 0 | 20  | 5.4 | 9.570   | 0.0055  | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 6.0 | 14.091  | 0.0080  | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 6.6 | 17.595  | 0.0100  | -2.5 to 2.5 | Pass |
|  |        |   |   | -30 | 6.0 | 20.070  | 0.0114  | -2.5 to 2.5 | Pass |
|  |        |   |   | -20 | 6.0 | 21.944  | 0.0125  | -2.5 to 2.5 | Pass |
|  |        |   |   | -10 | 6.0 | 24.061  | 0.0137  | -2.5 to 2.5 | Pass |
|  |        |   |   | 0   | 6.0 | 26.207  | 0.0149  | -2.5 to 2.5 | Pass |

|  |  |  |  |    |     |        |        |             |      |
|--|--|--|--|----|-----|--------|--------|-------------|------|
|  |  |  |  | 10 | 6.0 | 27.480 | 0.0157 | -2.5 to 2.5 | Pass |
|  |  |  |  | 30 | 6.0 | 29.411 | 0.0168 | -2.5 to 2.5 | Pass |
|  |  |  |  | 40 | 6.0 | 30.899 | 0.0176 | -2.5 to 2.5 | Pass |
|  |  |  |  | 50 | 6.0 | 32.573 | 0.0186 | -2.5 to 2.5 | Pass |

### 3.3 B4\_5MHz

#### 3.3.1 Test Result

| Band: 4 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 1712.5          | 6             | 0      | 20         | 5.4           | -22.116          | -0.0129               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 6.0           | -22.559          | -0.0132               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 6.6           | -21.772          | -0.0127               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 6.0           | -20.413          | -0.0119               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 6.0           | -18.682          | -0.0109               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 6.0           | -15.650          | -0.0091               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 6.0           | -15.45           | -0.0078               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 6.0           | -9.856           | -0.0058               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 6.0           | -6.709           | -0.0039               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 6.0           | -4.306           | -0.0025               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 6.0           | -2.146           | -0.0013               | -2.5 to 2.5 | Pass    |
|                           | 1732.5          | 6             | 0      | 20         | 5.4           | -5.422           | -0.0031               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 6.0           | -6.595           | -0.0038               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 6.6           | -6.480           | -0.0037               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 6.0           | -5.264           | -0.0030               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 6.0           | -5.150           | -0.0030               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 6.0           | -5.250           | -0.0030               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 6.0           | -5.264           | -0.0030               | -2.5 to 2.5 | Pass    |

|  |        |        |   |     |     |         |         |             |      |
|--|--------|--------|---|-----|-----|---------|---------|-------------|------|
|  |        |        |   | 10  | 6.0 | -5.050  | -0.0029 | -2.5 to 2.5 | Pass |
|  |        |        |   | 30  | 6.0 | -4.449  | -0.0026 | -2.5 to 2.5 | Pass |
|  |        |        |   | 40  | 6.0 | -4.063  | -0.0023 | -2.5 to 2.5 | Pass |
|  |        |        |   | 50  | 6.0 | -3.419  | -0.0020 | -2.5 to 2.5 | Pass |
|  | 1752.5 | 6      | 0 | 20  | 5.4 | -13.347 | -0.0076 | -2.5 to 2.5 | Pass |
|  |        |        |   |     | 6.0 | -15.321 | -0.0087 | -2.5 to 2.5 | Pass |
|  |        |        |   |     | 6.6 | -14.906 | -0.0085 | -2.5 to 2.5 | Pass |
|  |        |        |   | -30 | 6.0 | -14.734 | -0.0084 | -2.5 to 2.5 | Pass |
|  |        |        |   | -20 | 6.0 | -13.690 | -0.0078 | -2.5 to 2.5 | Pass |
|  |        |        |   | -10 | 6.0 | -13.561 | -0.0077 | -2.5 to 2.5 | Pass |
|  |        |        |   | 0   | 6.0 | -12.417 | -0.0071 | -2.5 to 2.5 | Pass |
|  |        |        |   | 10  | 6.0 | -12.317 | -0.0070 | -2.5 to 2.5 | Pass |
|  |        |        |   | 30  | 6.0 | -11.973 | -0.0068 | -2.5 to 2.5 | Pass |
|  |        |        |   | 40  | 6.0 | -11.272 | -0.0064 | -2.5 to 2.5 | Pass |
|  |        |        |   | 50  | 6.0 | -10.815 | -0.0062 | -2.5 to 2.5 | Pass |
|  | 16QAM  | 1712.5 | 6 | 20  | 5.4 | -0.544  | -0.0003 | -2.5 to 2.5 | Pass |
|  |        |        |   |     | 6.0 | 2.689   | 0.0016  | -2.5 to 2.5 | Pass |
|  |        |        |   |     | 6.6 | 6.566   | 0.0038  | -2.5 to 2.5 | Pass |
|  |        |        |   | -30 | 6.0 | 7.782   | 0.0045  | -2.5 to 2.5 | Pass |
|  |        |        |   | -20 | 6.0 | 10.085  | 0.0059  | -2.5 to 2.5 | Pass |
|  |        |        |   | -10 | 6.0 | 11.659  | 0.0068  | -2.5 to 2.5 | Pass |
|  |        |        |   | 0   | 6.0 | 12.159  | 0.0071  | -2.5 to 2.5 | Pass |
|  |        |        |   | 10  | 6.0 | 14.577  | 0.0085  | -2.5 to 2.5 | Pass |
|  |        |        |   | 30  | 6.0 | 15.635  | 0.0091  | -2.5 to 2.5 | Pass |
|  |        |        |   | 40  | 6.0 | 16.422  | 0.0096  | -2.5 to 2.5 | Pass |
|  |        |        |   | 50  | 6.0 | 17.538  | 0.0102  | -2.5 to 2.5 | Pass |
|  |        | 1732.5 | 6 | 20  | 5.4 | -2.189  | -0.0013 | -2.5 to 2.5 | Pass |
|  |        |        |   |     | 6.0 | -1.745  | -0.0010 | -2.5 to 2.5 | Pass |

|  |        |   |   |     |     |         |         |             |      |
|--|--------|---|---|-----|-----|---------|---------|-------------|------|
|  |        |   |   |     | 6.6 | -1.731  | -0.0010 | -2.5 to 2.5 | Pass |
|  |        |   |   | -30 | 6.0 | -1.945  | -0.0011 | -2.5 to 2.5 | Pass |
|  |        |   |   | -20 | 6.0 | -1.473  | -0.0009 | -2.5 to 2.5 | Pass |
|  |        |   |   | -10 | 6.0 | -1.316  | -0.0008 | -2.5 to 2.5 | Pass |
|  |        |   |   | 0   | 6.0 | -1.345  | -0.0008 | -2.5 to 2.5 | Pass |
|  |        |   |   | 10  | 6.0 | -1.316  | -0.0008 | -2.5 to 2.5 | Pass |
|  |        |   |   | 30  | 6.0 | -1.602  | -0.0009 | -2.5 to 2.5 | Pass |
|  |        |   |   | 40  | 6.0 | -0.129  | -0.0001 | -2.5 to 2.5 | Pass |
|  |        |   |   | 50  | 6.0 | 0.243   | 0.0001  | -2.5 to 2.5 | Pass |
|  | 1752.5 | 6 | 0 | 20  | 5.4 | -10.700 | -0.0061 | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 6.0 | -9.313  | -0.0053 | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 6.6 | -9.770  | -0.0056 | -2.5 to 2.5 | Pass |
|  |        |   |   | -30 | 6.0 | -8.383  | -0.0048 | -2.5 to 2.5 | Pass |
|  |        |   |   | -20 | 6.0 | -7.854  | -0.0045 | -2.5 to 2.5 | Pass |
|  |        |   |   | -10 | 6.0 | -7.410  | -0.0042 | -2.5 to 2.5 | Pass |
|  |        |   |   | 0   | 6.0 | -7.296  | -0.0042 | -2.5 to 2.5 | Pass |
|  |        |   |   | 10  | 6.0 | -6.652  | -0.0038 | -2.5 to 2.5 | Pass |
|  |        |   |   | 30  | 6.0 | -6.266  | -0.0036 | -2.5 to 2.5 | Pass |
|  |        |   |   | 40  | 6.0 | -5.808  | -0.0033 | -2.5 to 2.5 | Pass |
|  |        |   |   | 50  | 6.0 | -6.123  | -0.0035 | -2.5 to 2.5 | Pass |

### 3.4 B4\_10MHz

#### 3.4.1 Test Result

| Band: 4 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1715            | 6             | 0      | 20         | 5.4           | -20.328          | -0.0119               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 6.0           | -18.954          | -0.0111               | -2.5 to 2.5 | Pass    |

|  |        |   |   |     |     |         |         |             |      |
|--|--------|---|---|-----|-----|---------|---------|-------------|------|
|  |        |   |   |     | 6.6 | -13.676 | -0.0080 | -2.5 to 2.5 | Pass |
|  |        |   |   | -30 | 6.0 | -8.998  | -0.0052 | -2.5 to 2.5 | Pass |
|  |        |   |   | -20 | 6.0 | -2.604  | -0.0015 | -2.5 to 2.5 | Pass |
|  |        |   |   | -10 | 6.0 | 2.818   | 0.0016  | -2.5 to 2.5 | Pass |
|  |        |   |   | 0   | 6.0 | 7.782   | 0.0045  | -2.5 to 2.5 | Pass |
|  |        |   |   | 10  | 6.0 | 11.330  | 0.0066  | -2.5 to 2.5 | Pass |
|  |        |   |   | 30  | 6.0 | 16.479  | 0.0096  | -2.5 to 2.5 | Pass |
|  |        |   |   | 40  | 6.0 | 21.043  | 0.0123  | -2.5 to 2.5 | Pass |
|  |        |   |   | 50  | 6.0 | 25.935  | 0.0151  | -2.5 to 2.5 | Pass |
|  | 1732.5 | 6 | 0 | 20  | 5.4 | -35.748 | -0.0206 | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 6.0 | -37.479 | -0.0216 | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 6.6 | -36.607 | -0.0211 | -2.5 to 2.5 | Pass |
|  |        |   |   | -30 | 6.0 | -36.821 | -0.0213 | -2.5 to 2.5 | Pass |
|  |        |   |   | -20 | 6.0 | -36.235 | -0.0209 | -2.5 to 2.5 | Pass |
|  |        |   |   | -10 | 6.0 | -36.135 | -0.0209 | -2.5 to 2.5 | Pass |
|  |        |   |   | 0   | 6.0 | -35.563 | -0.0205 | -2.5 to 2.5 | Pass |
|  |        |   |   | 10  | 6.0 | -35.462 | -0.0205 | -2.5 to 2.5 | Pass |
|  |        |   |   | 30  | 6.0 | -35.377 | -0.0204 | -2.5 to 2.5 | Pass |
|  |        |   |   | 40  | 6.0 | -34.647 | -0.0200 | -2.5 to 2.5 | Pass |
|  |        |   |   | 50  | 6.0 | -35.033 | -0.0202 | -2.5 to 2.5 | Pass |
|  | 1750   | 6 | 0 | 20  | 5.4 | -1.030  | -0.0006 | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 6.0 | -1.931  | -0.0011 | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 6.6 | -1.359  | -0.0008 | -2.5 to 2.5 | Pass |
|  |        |   |   | -30 | 6.0 | -0.429  | -0.0002 | -2.5 to 2.5 | Pass |
|  |        |   |   | -20 | 6.0 | 0.072   | 0.0000  | -2.5 to 2.5 | Pass |
|  |        |   |   | -10 | 6.0 | 1.373   | 0.0008  | -2.5 to 2.5 | Pass |
|  |        |   |   | 0   | 6.0 | 2.618   | 0.0015  | -2.5 to 2.5 | Pass |
|  |        |   |   | 10  | 6.0 | 3.362   | 0.0019  | -2.5 to 2.5 | Pass |

|       |        |   |   |     |     |         |         |             |      |
|-------|--------|---|---|-----|-----|---------|---------|-------------|------|
| 16QAM |        |   |   | 30  | 6.0 | 4.048   | 0.0023  | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 6.0 | 5.035   | 0.0029  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 6.0 | 6.065   | 0.0035  | -2.5 to 2.5 | Pass |
|       | 1715   | 6 | 0 | 20  | 5.4 | 29.140  | 0.0170  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 6.0 | 18.296  | 0.0107  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 6.6 | -2.503  | -0.0015 | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 6.0 | -0.215  | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 6.0 | 2.031   | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 6.0 | 2.990   | 0.0017  | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 6.0 | 4.821   | 0.0028  | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 6.0 | 6.166   | 0.0036  | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 6.0 | 7.038   | 0.0041  | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 6.0 | 8.154   | 0.0048  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 6.0 | 9.599   | 0.0056  | -2.5 to 2.5 | Pass |
|       | 1732.5 | 6 | 0 | 20  | 5.4 | -33.917 | -0.0196 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 6.0 | -33.088 | -0.0191 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 6.6 | -33.202 | -0.0192 | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 6.0 | -32.816 | -0.0189 | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 6.0 | -32.129 | -0.0185 | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 6.0 | -30.899 | -0.0178 | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 6.0 | -30.999 | -0.0179 | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 6.0 | -30.642 | -0.0177 | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 6.0 | -29.197 | -0.0169 | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 6.0 | -28.453 | -0.0164 | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 6.0 | -27.924 | -0.0161 | -2.5 to 2.5 | Pass |
|       | 1750   | 6 | 0 | 20  | 5.4 | 7.796   | 0.0045  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 6.0 | 8.283   | 0.0047  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 6.6 | 8.726   | 0.0050  | -2.5 to 2.5 | Pass |