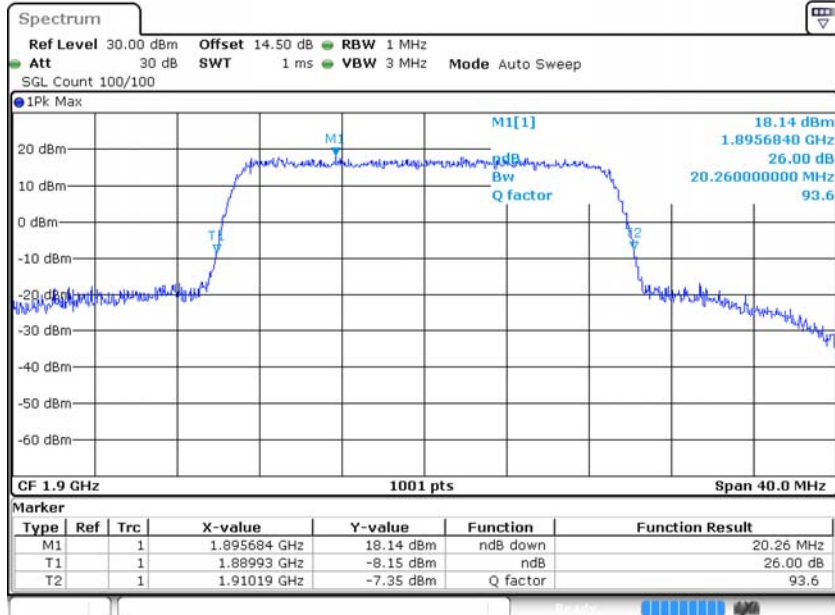
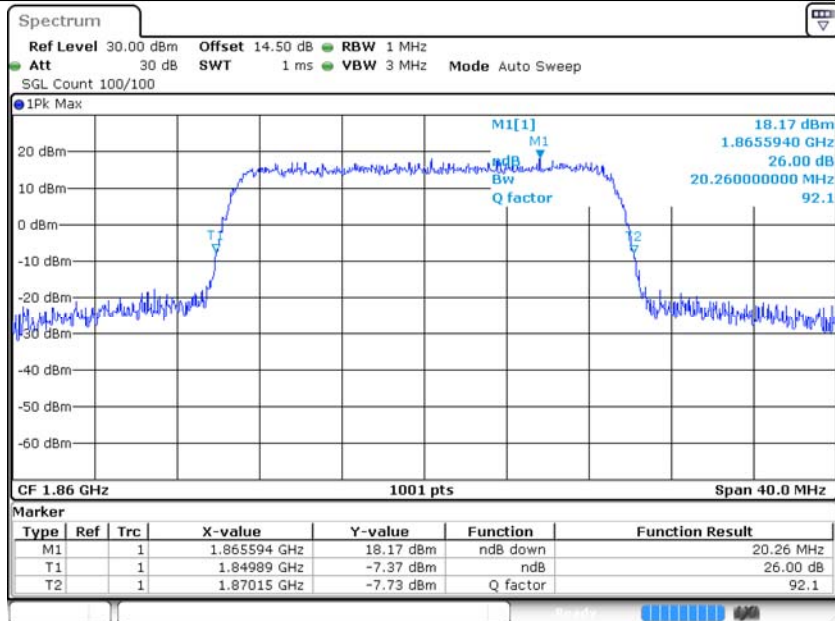


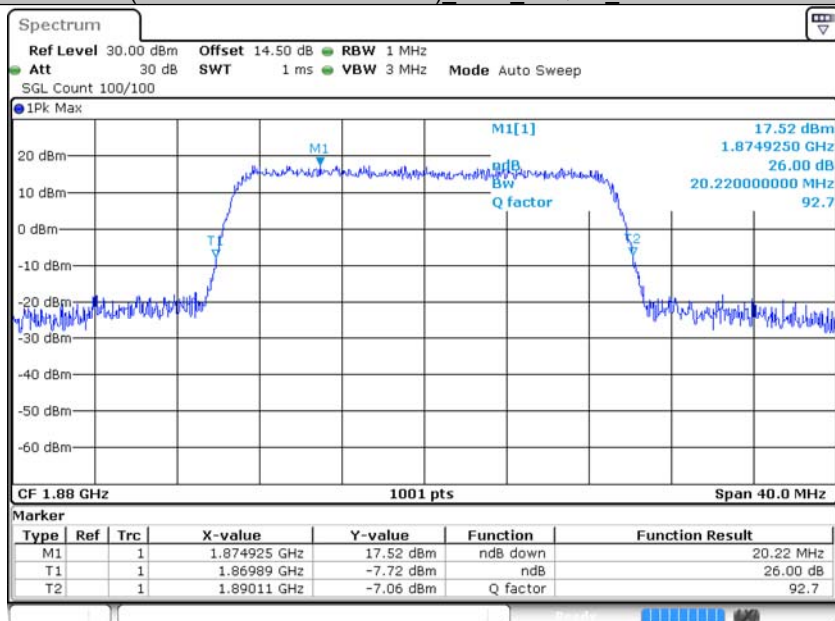
(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_100RB#0



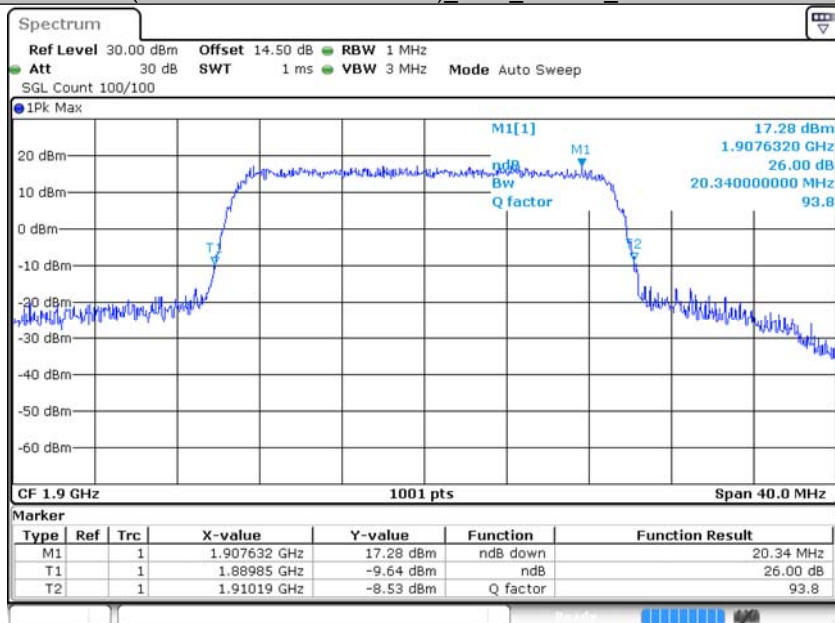
(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_100RB#0



(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_100RB#0



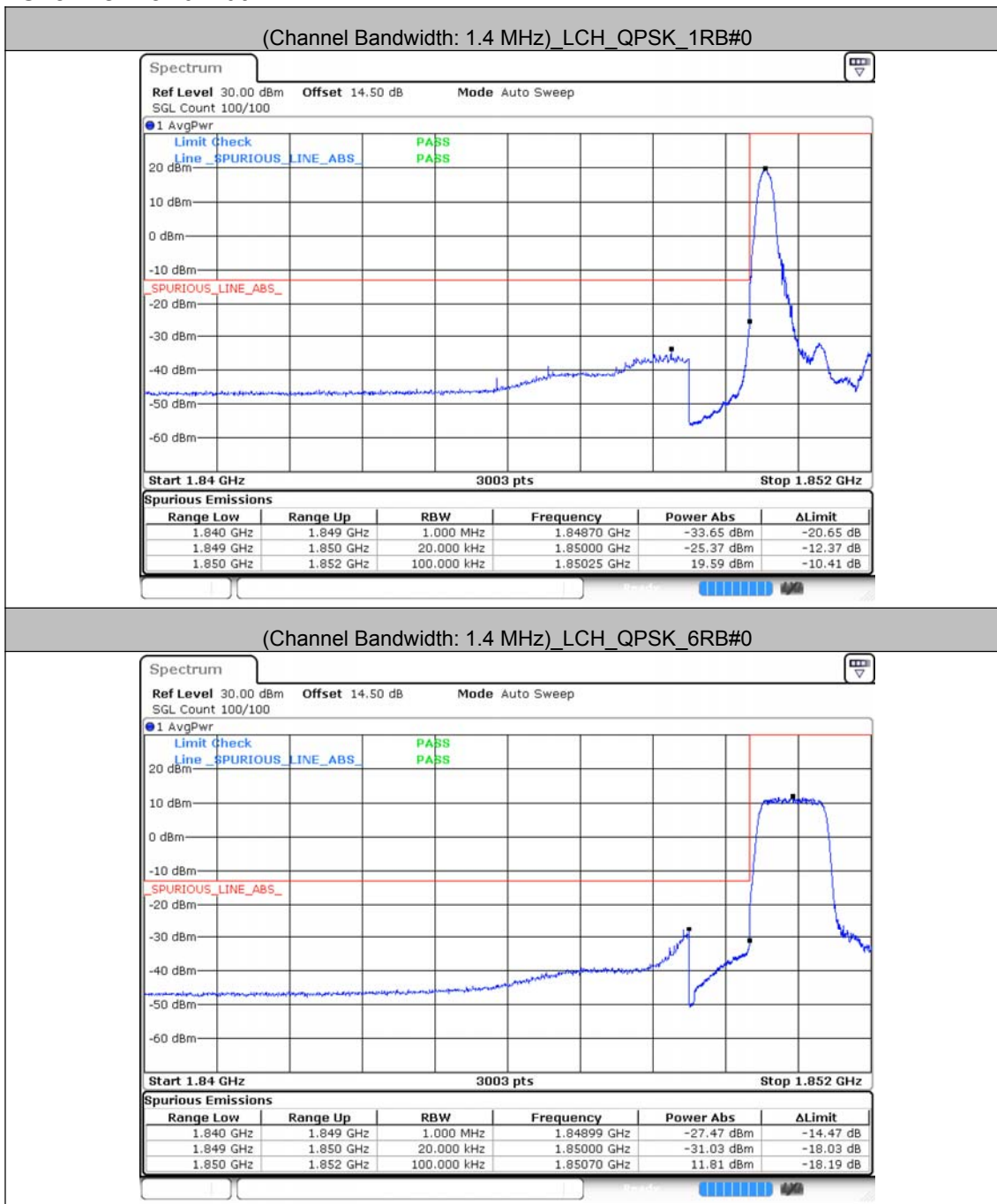
(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_100RB#0



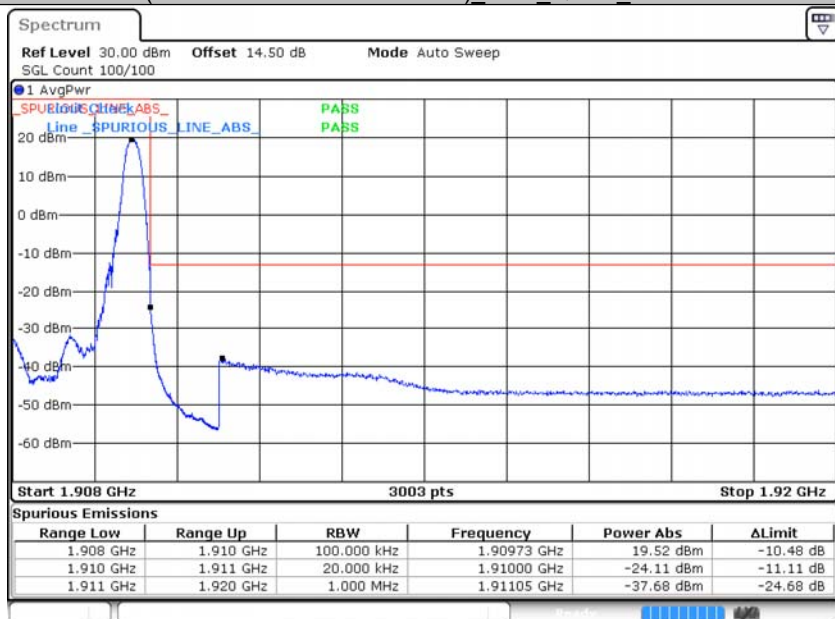
## Band Edge at Antenna Terminals

Test Graphs:

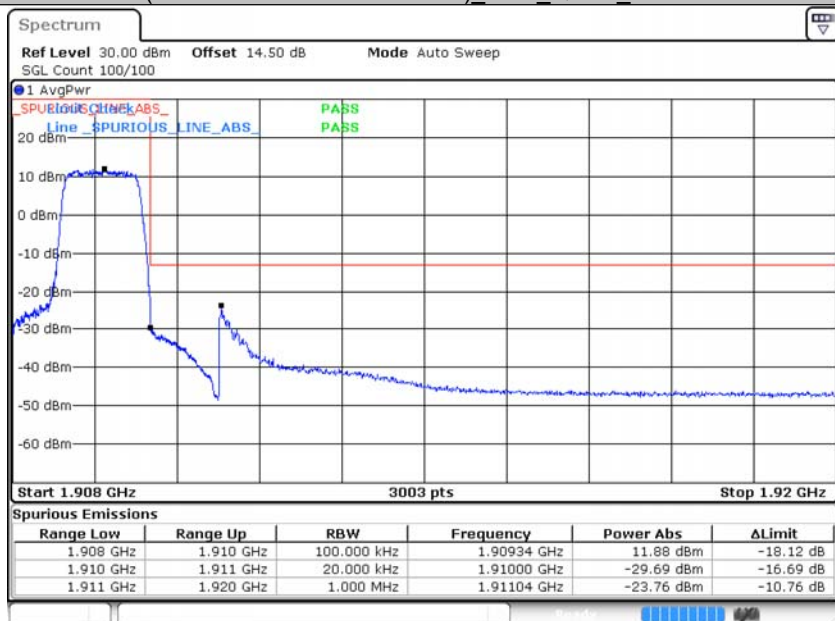
Channel Bandwidth: 1.4 MHz



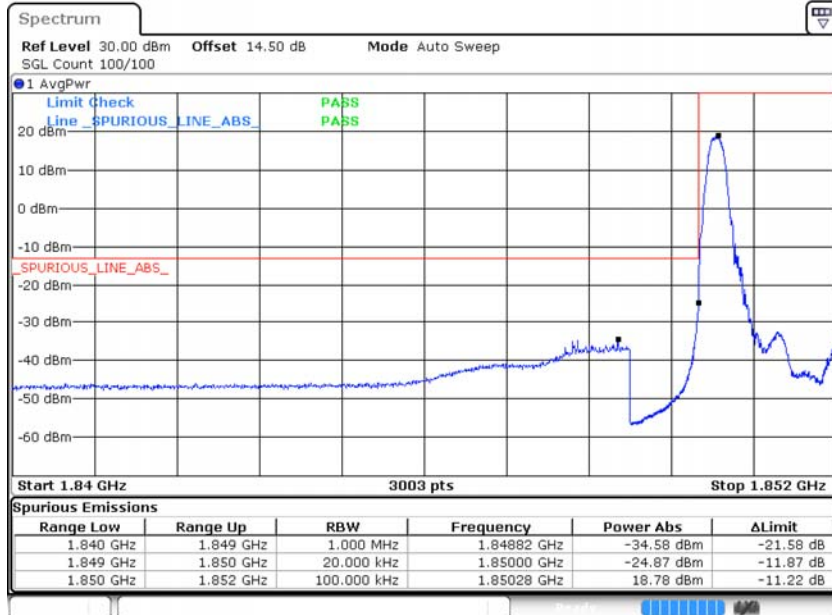
(Channel Bandwidth: 1.4 MHz) HCH\_QPSK\_1RB#5



(Channel Bandwidth: 1.4 MHz) HCH\_QPSK\_6RB#0



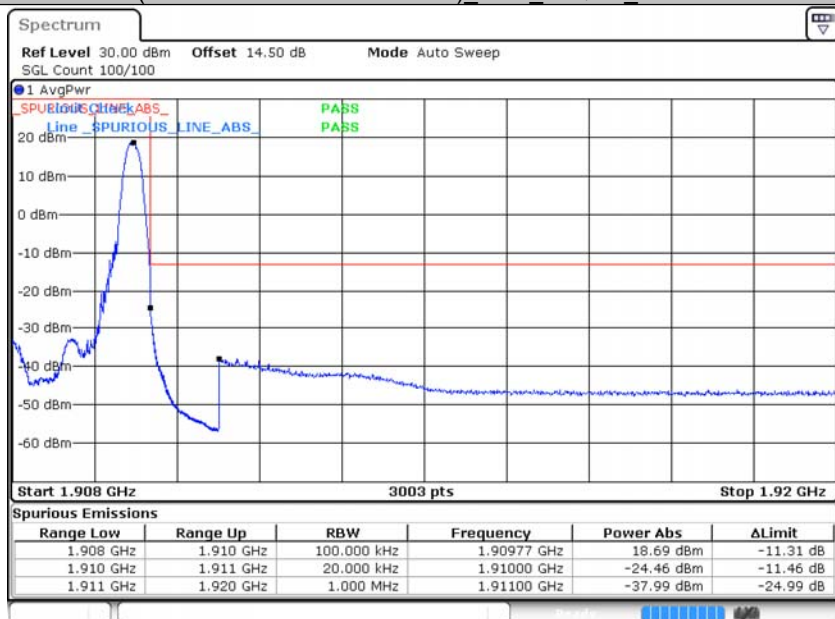
(Channel Bandwidth: 1.4 MHz) LCH\_16QAM\_1RB#0



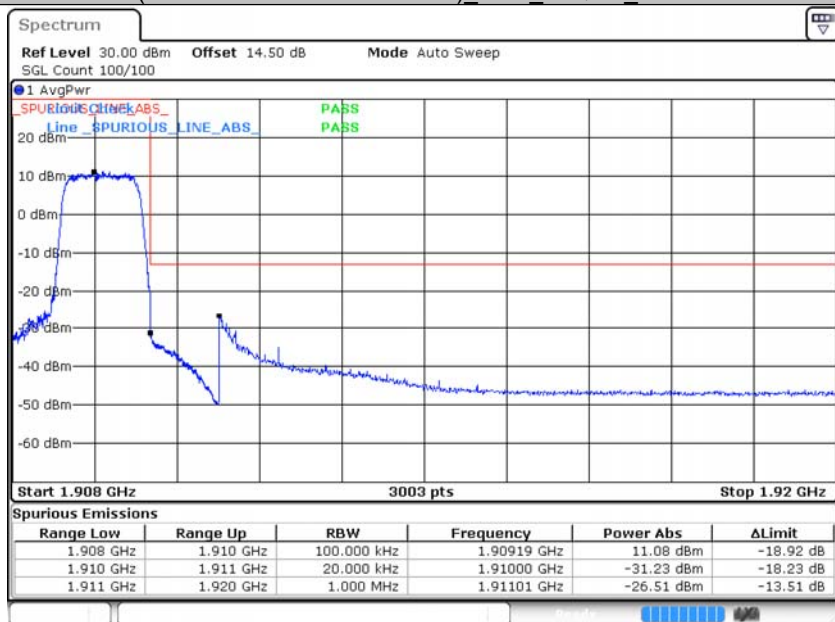
(Channel Bandwidth: 1.4 MHz) LCH\_16QAM\_6RB#0



(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#5

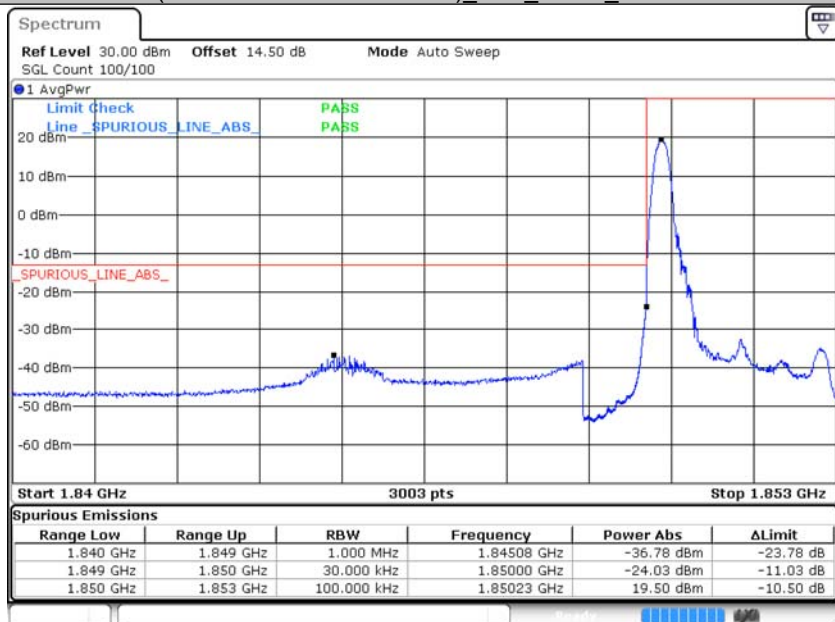


(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_6RB#0



Channel Bandwidth: 3 MHz

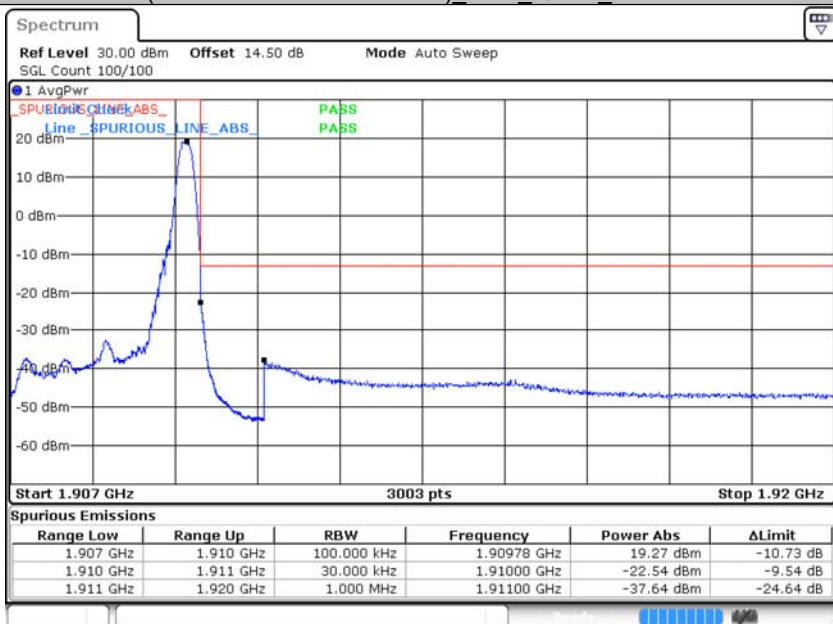
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_1RB#0



(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_15RB#0



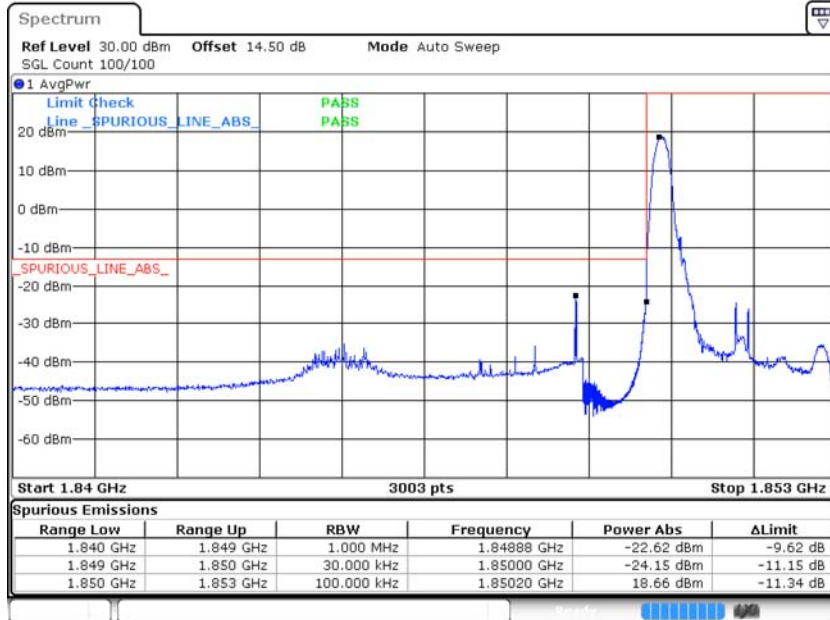
(Channel Bandwidth: 3 MHz) HCH\_QPSK\_1RB#14



(Channel Bandwidth: 3 MHz) HCH\_QPSK\_15RB#0



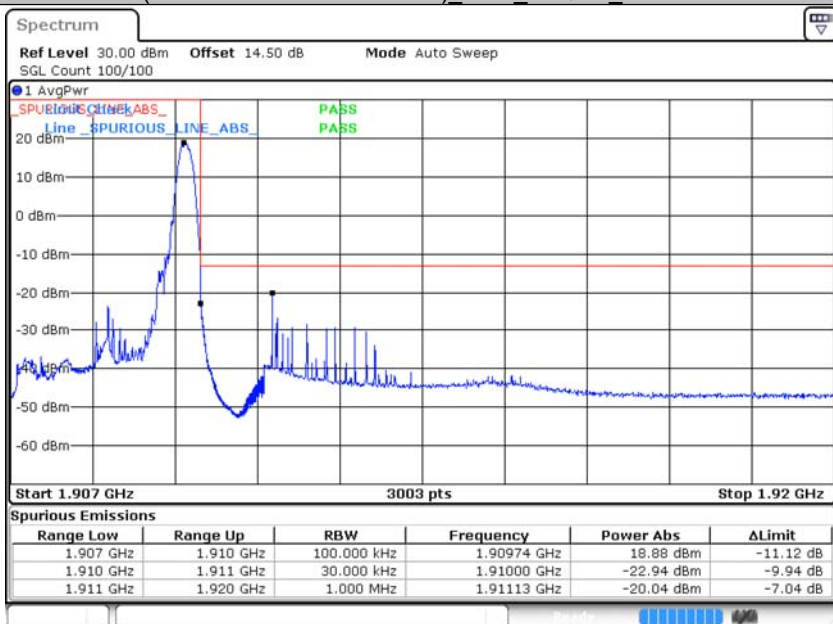
(Channel Bandwidth: 3 MHz) LCH\_16QAM\_1RB#0



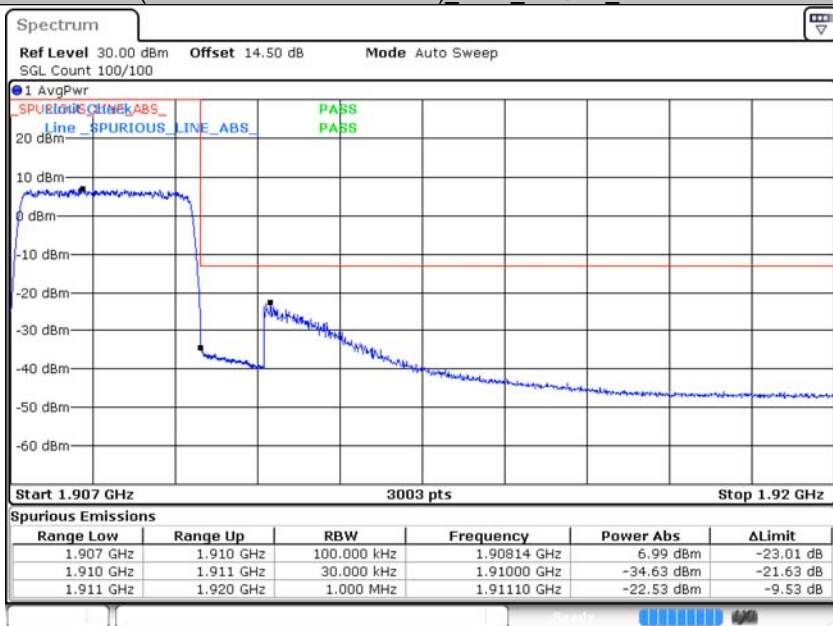
(Channel Bandwidth: 3 MHz) LCH\_16QAM\_15RB#0



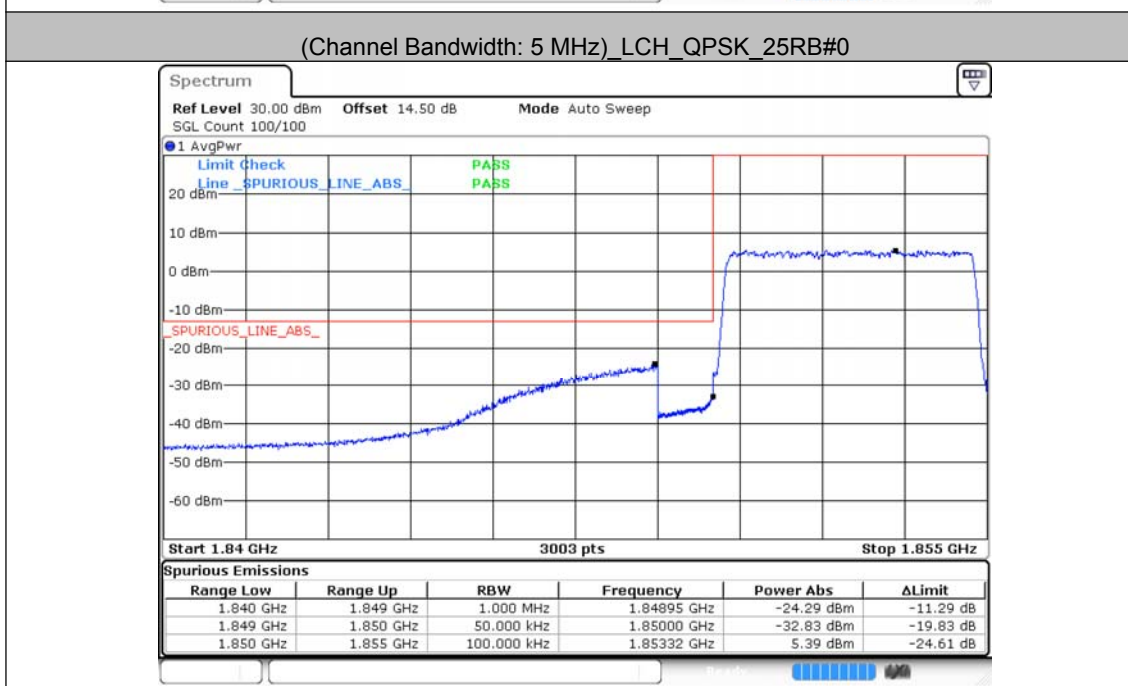
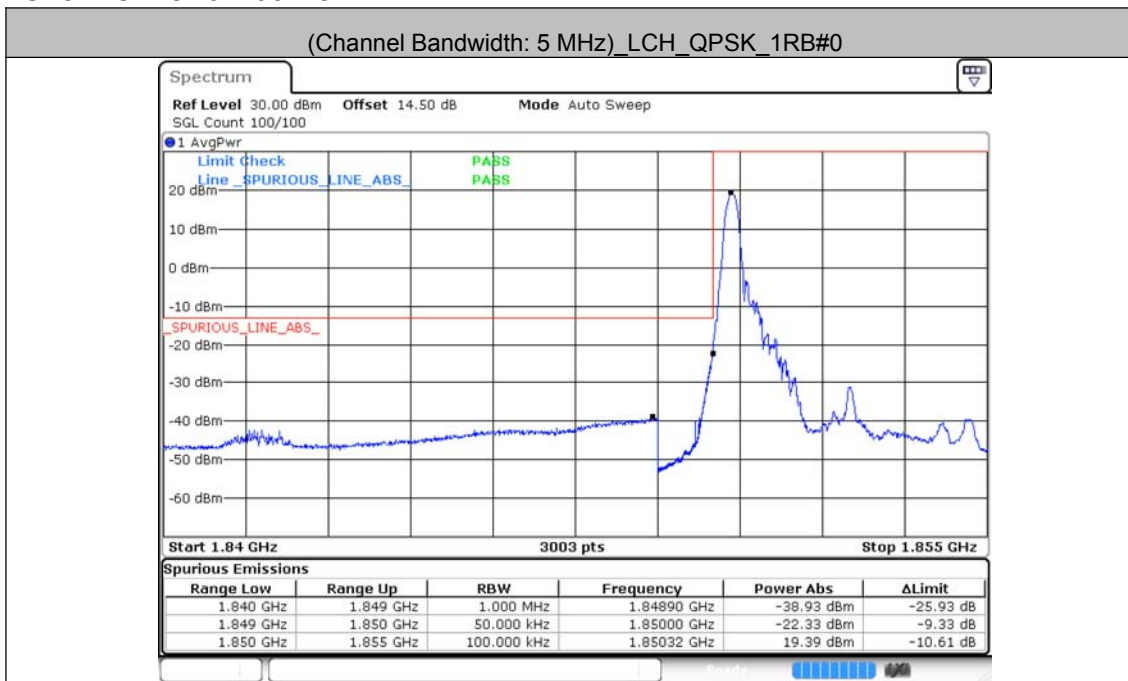
(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_1RB#14



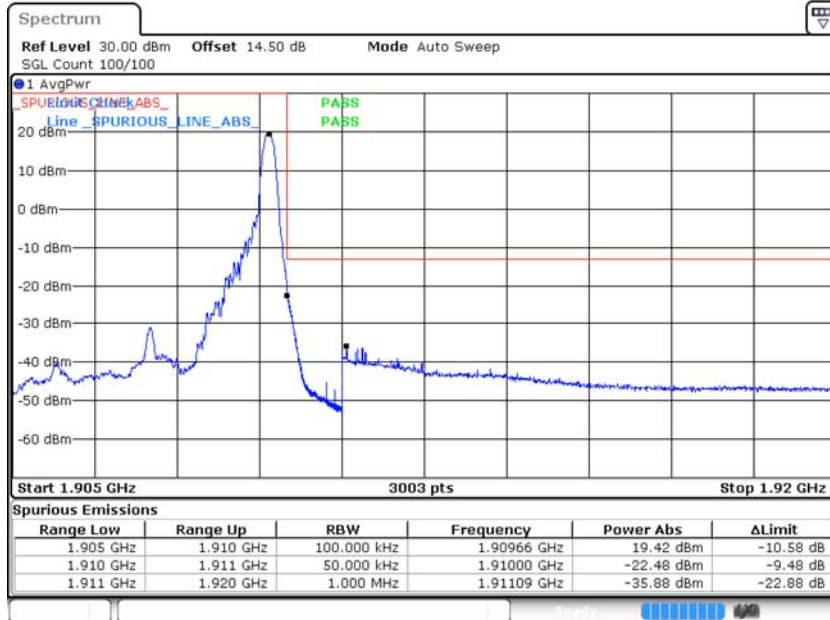
(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_15RB#0



Channel Bandwidth: 5 MHz



(Channel Bandwidth: 5 MHz) HCH\_QPSK\_1RB#24



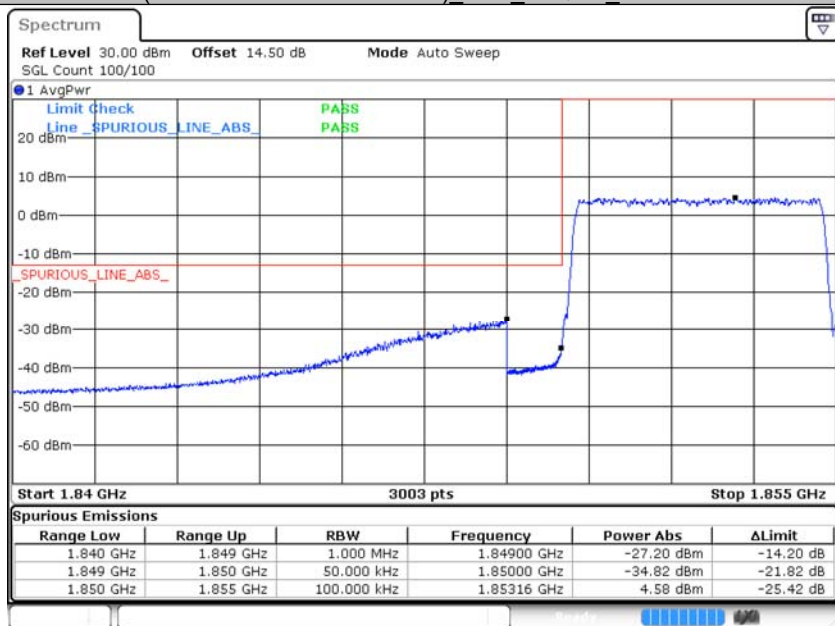
(Channel Bandwidth: 5 MHz) HCH\_QPSK\_25RB#0



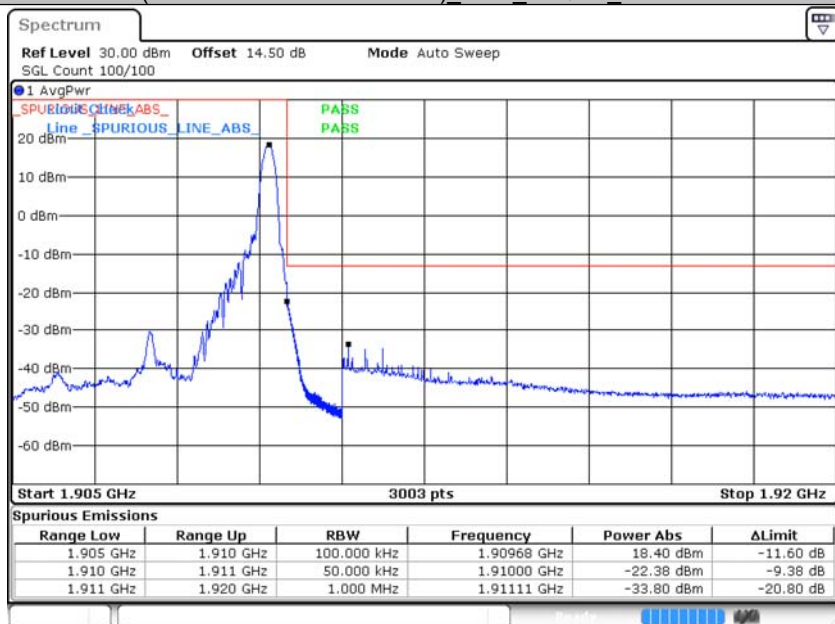
(Channel Bandwidth: 5 MHz) LCH\_16QAM\_1RB#0



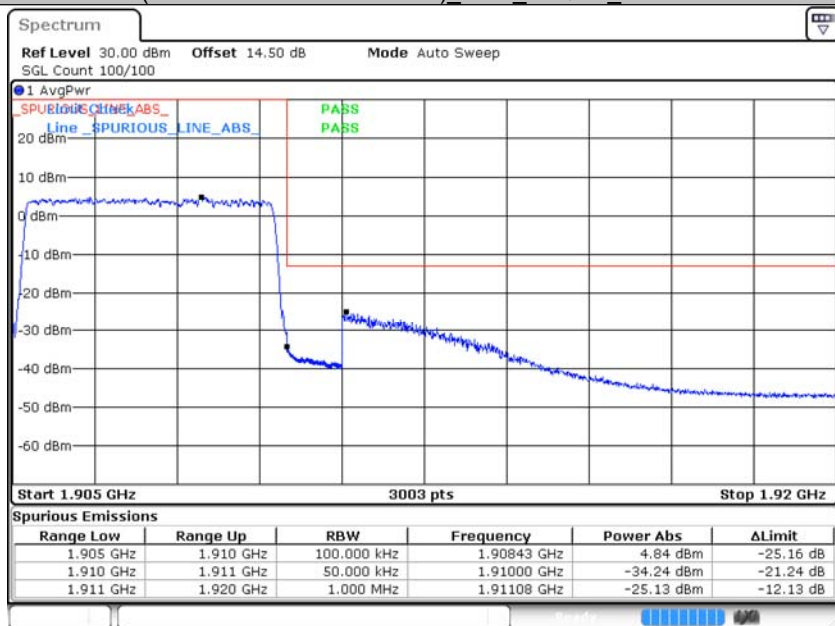
(Channel Bandwidth: 5 MHz) LCH\_16QAM\_25RB#0



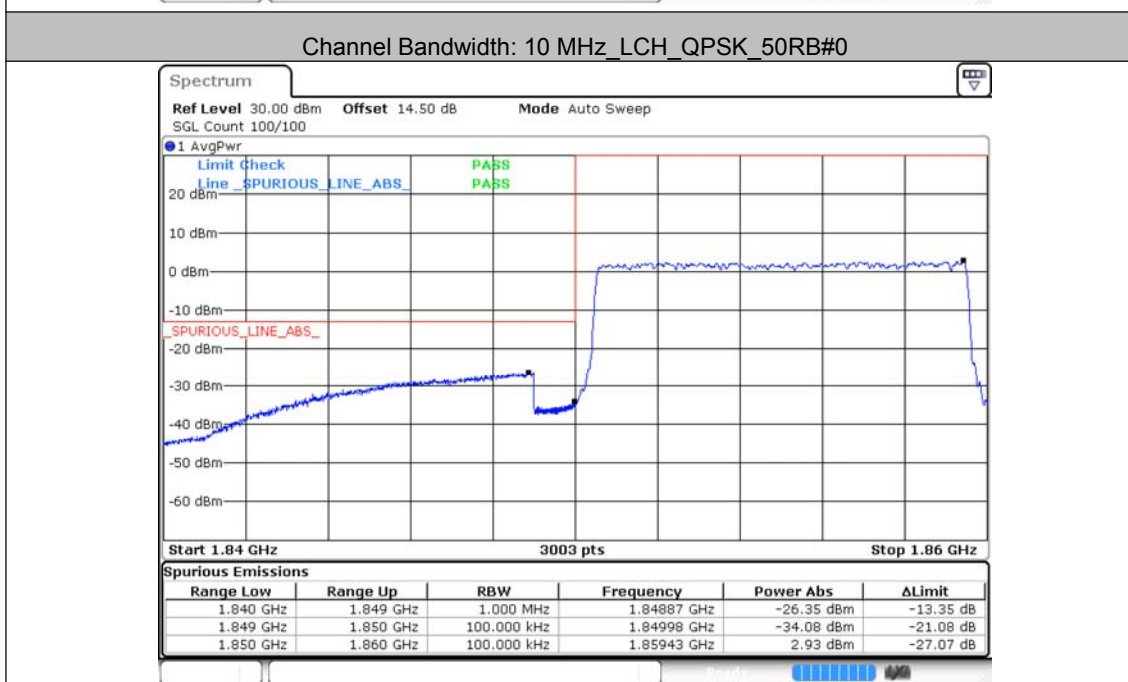
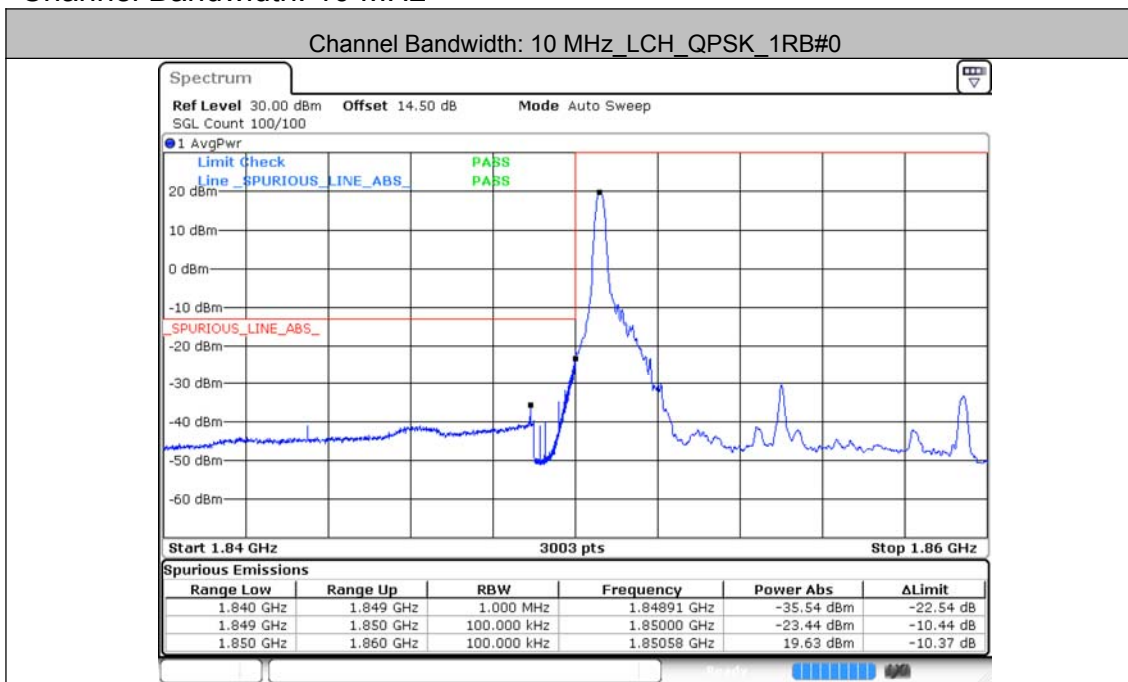
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#24



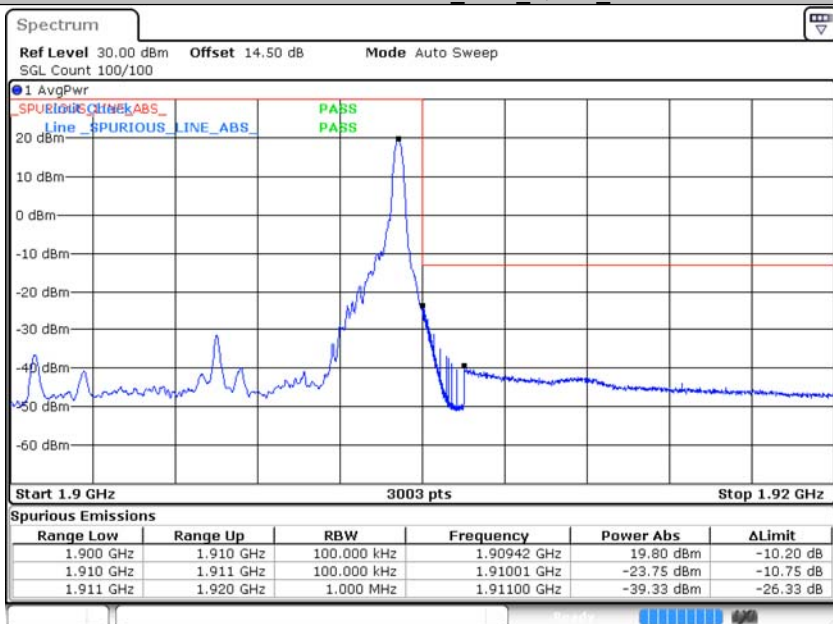
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_25RB#0



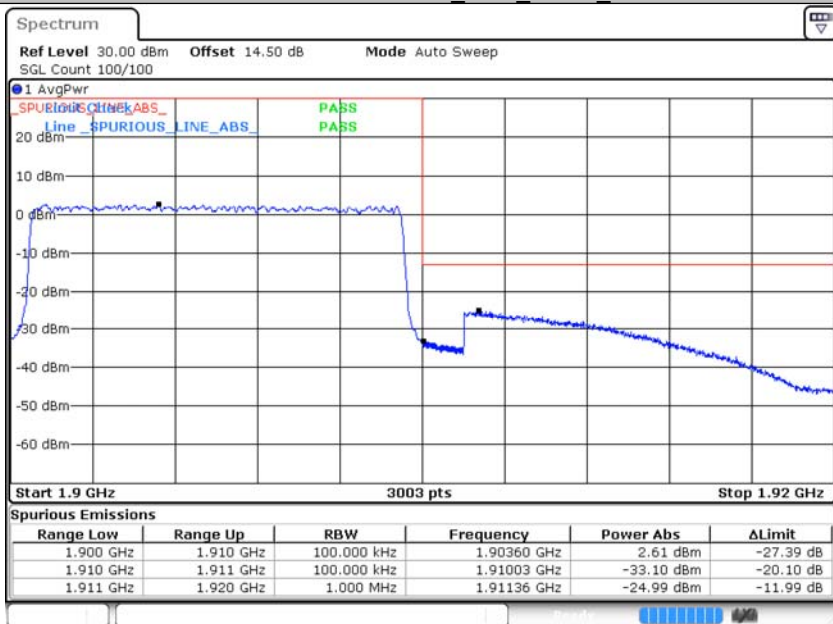
Channel Bandwidth: 10 MHz



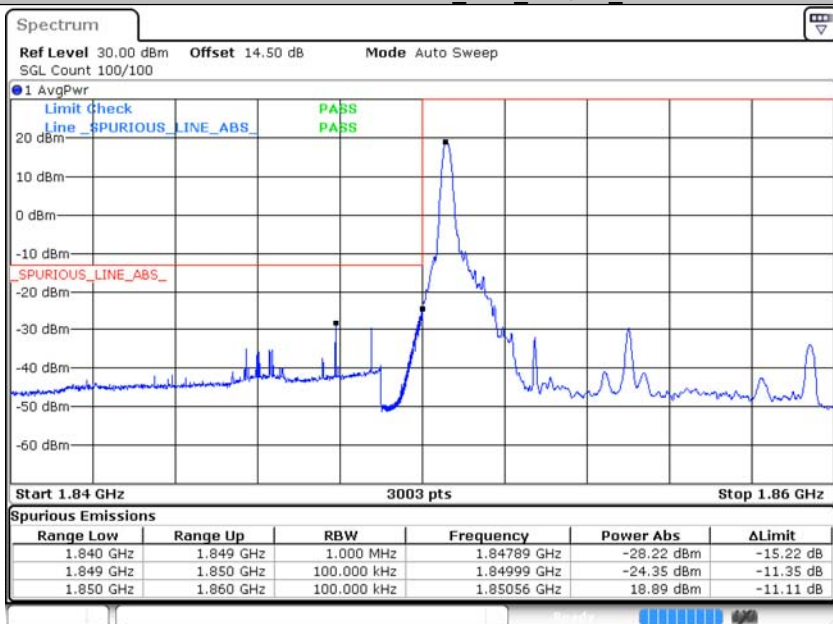
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#49



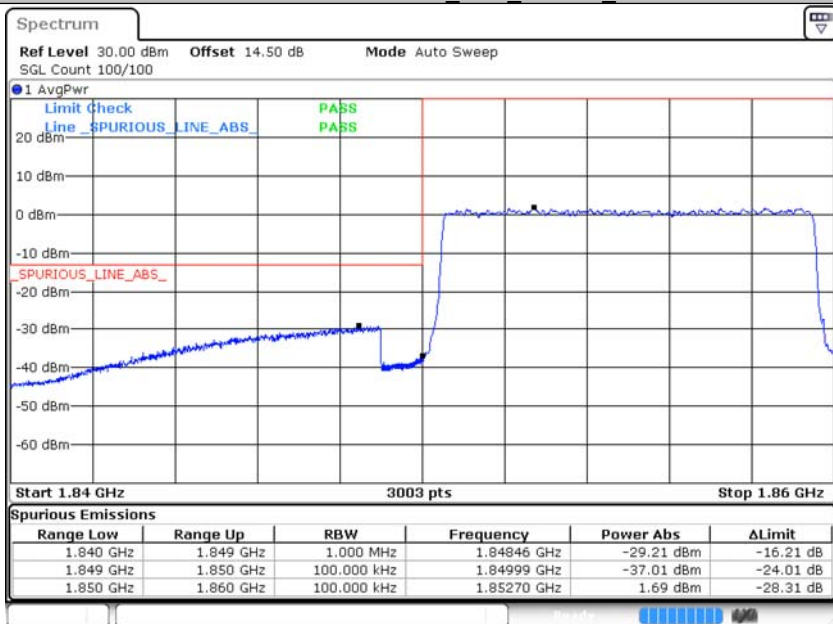
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_50RB#0



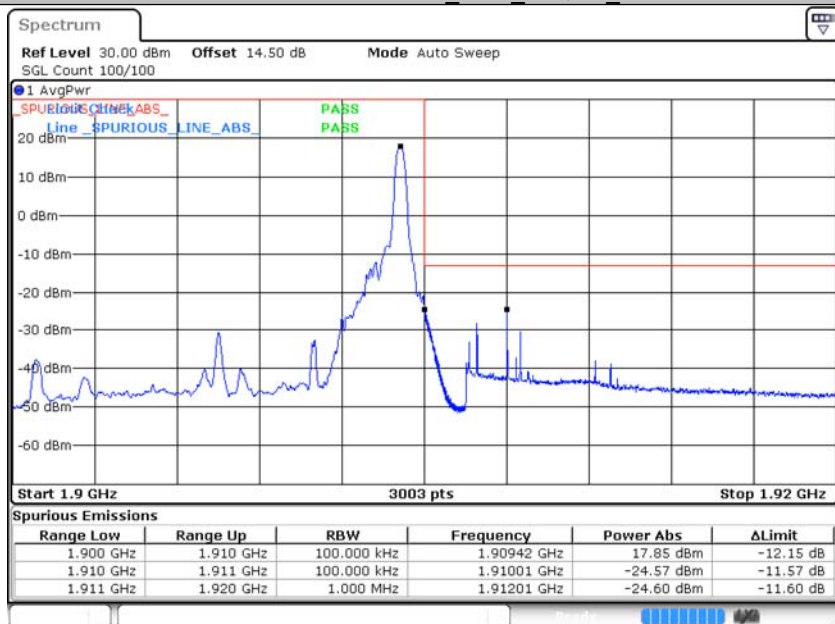
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0



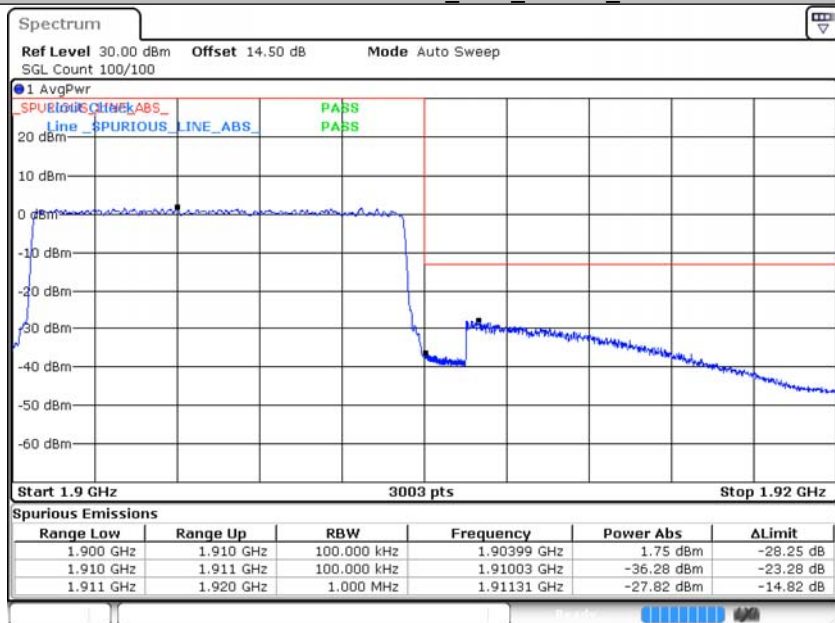
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_50RB#0



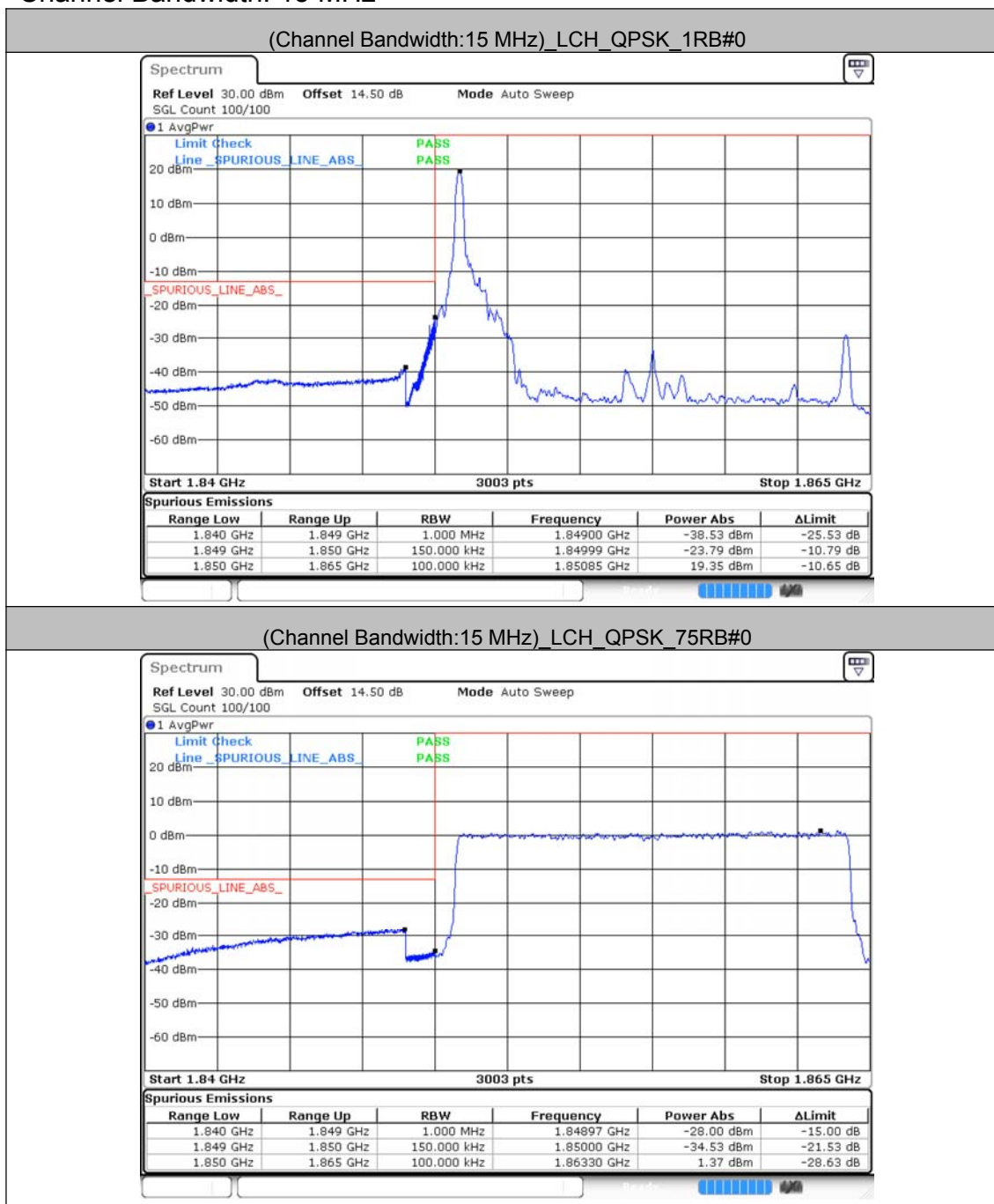
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#49



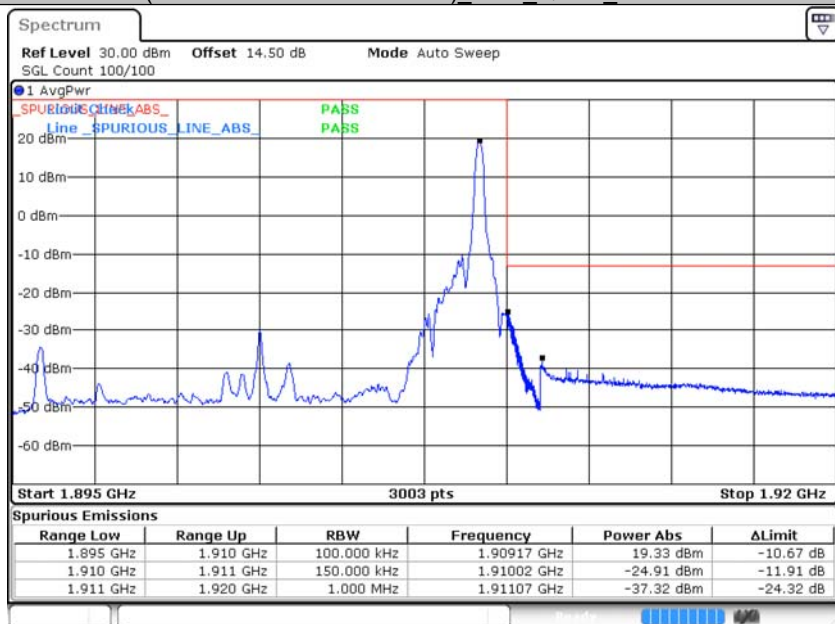
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_50RB#0



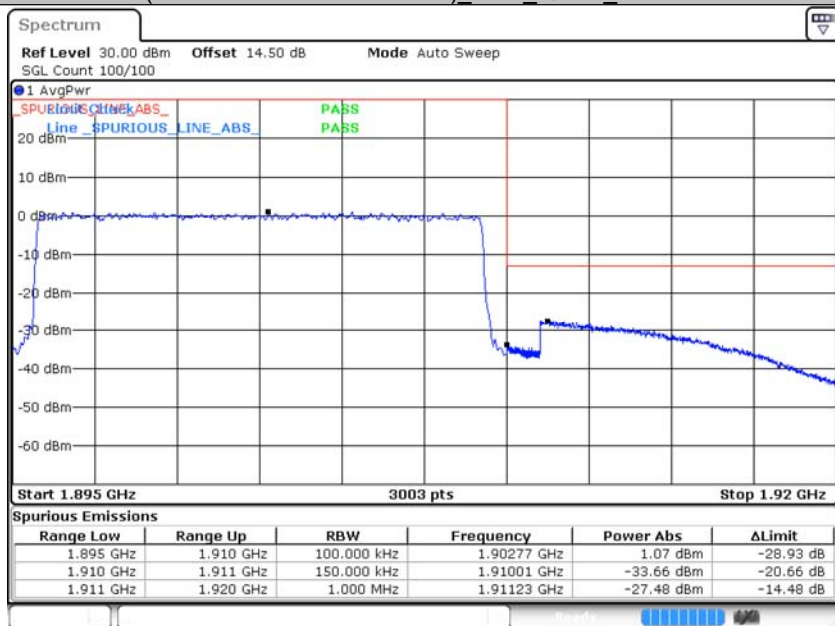
Channel Bandwidth: 15 MHz



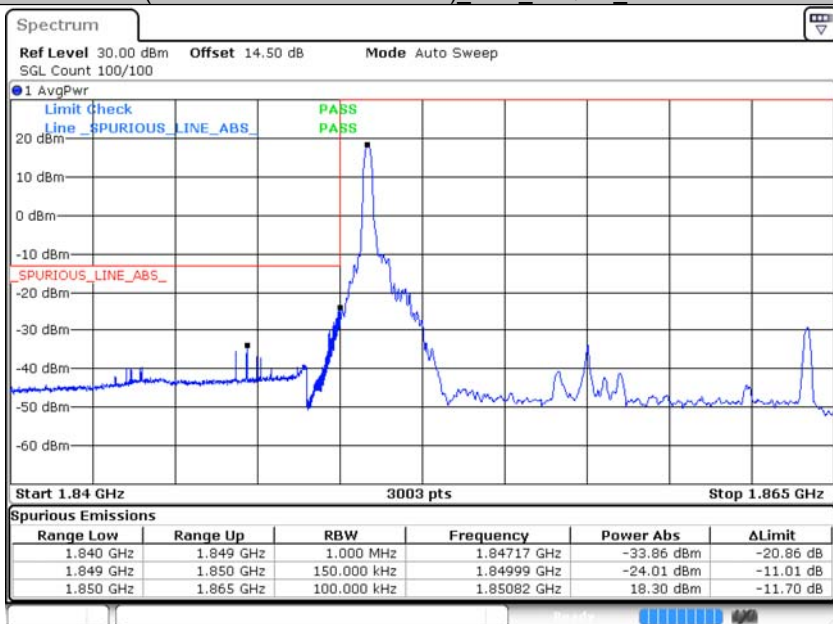
(Channel Bandwidth:15 MHz) \_HCH\_QPSK\_1RB#74



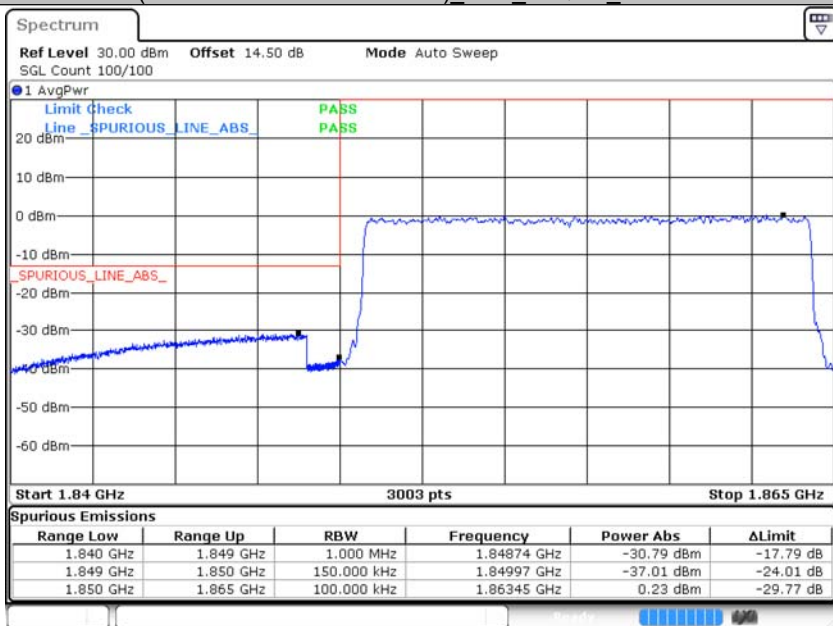
(Channel Bandwidth:15 MHz) \_HCH\_QPSK\_75RB#0



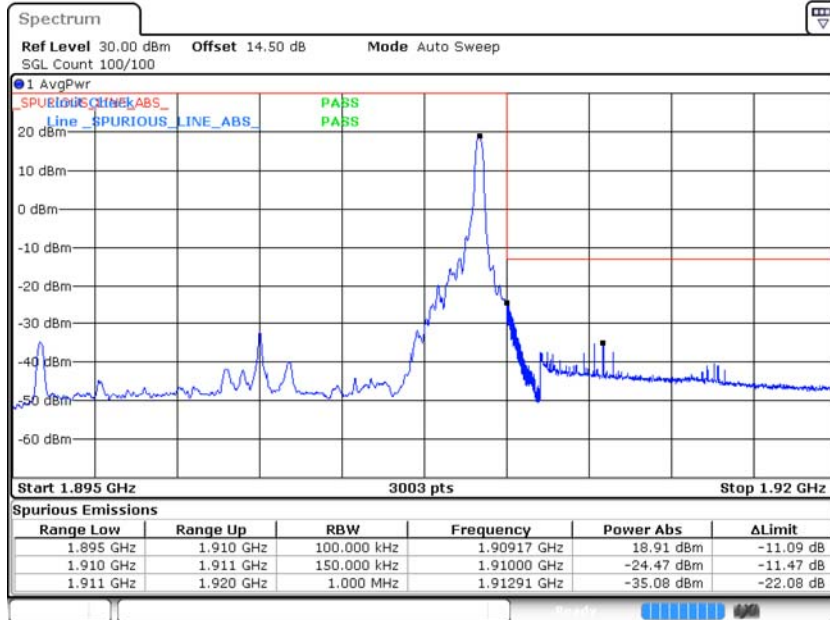
(Channel Bandwidth:15 MHz) LCH\_16QAM\_1RB#0



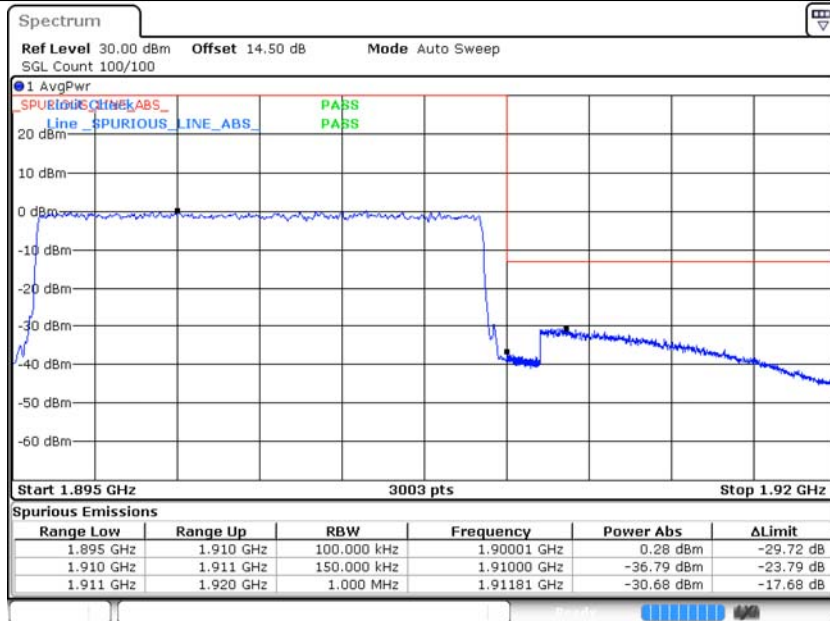
(Channel Bandwidth:15 MHz) LCH\_16QAM\_75RB#0



(Channel Bandwidth:15 MHz)\_HCH\_16QAM\_1RB#74

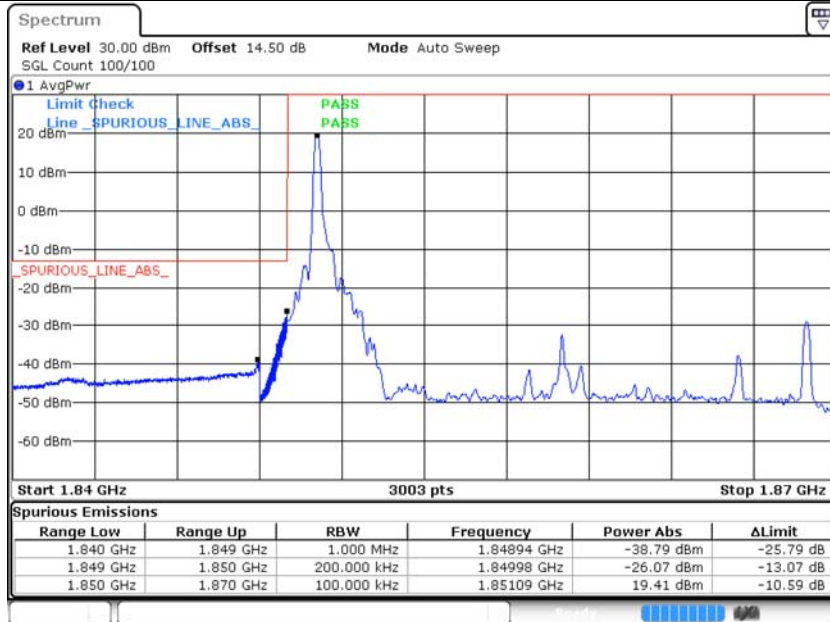


(Channel Bandwidth:15 MHz)\_HCH\_16QAM\_75RB#0

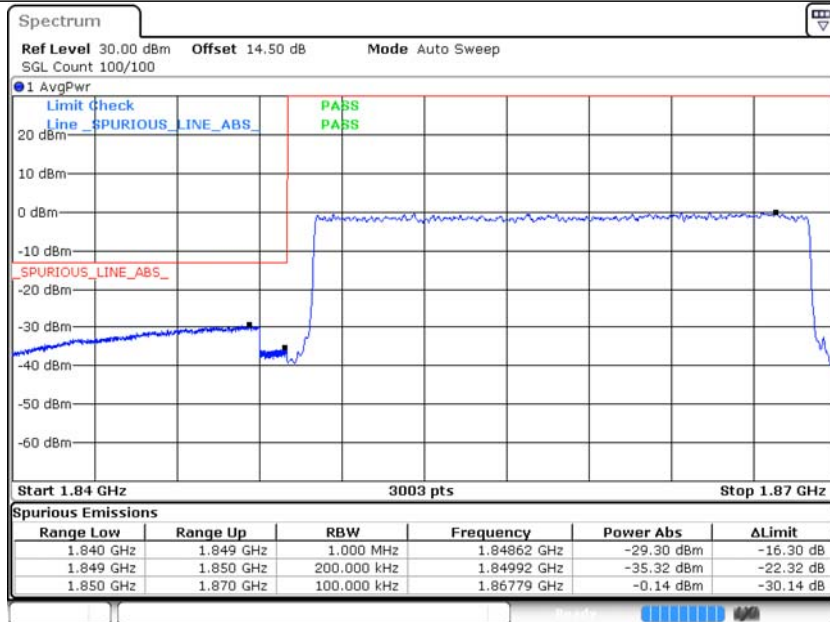


Channel Bandwidth: 20 MHz

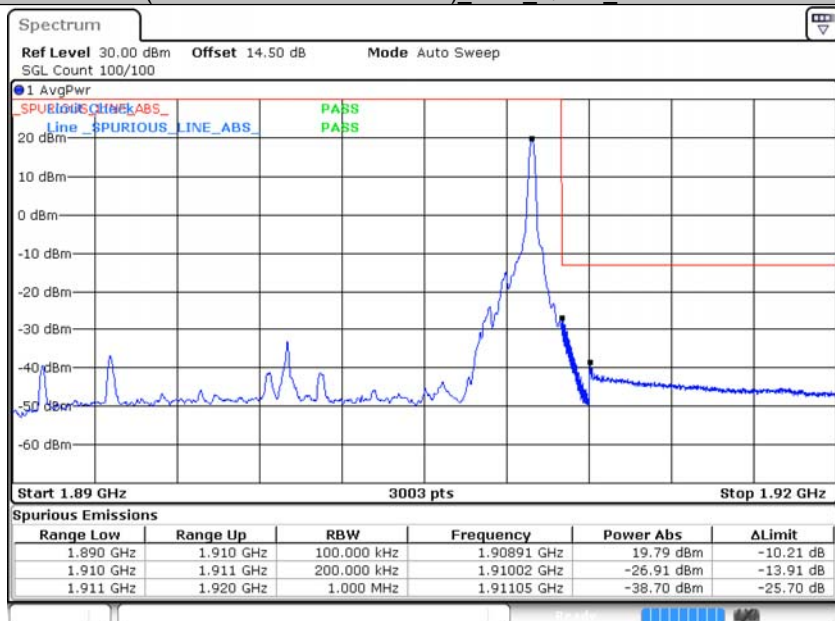
(Channel Bandwidth:20 MHz)\_LCH\_QPSK\_1RB#0



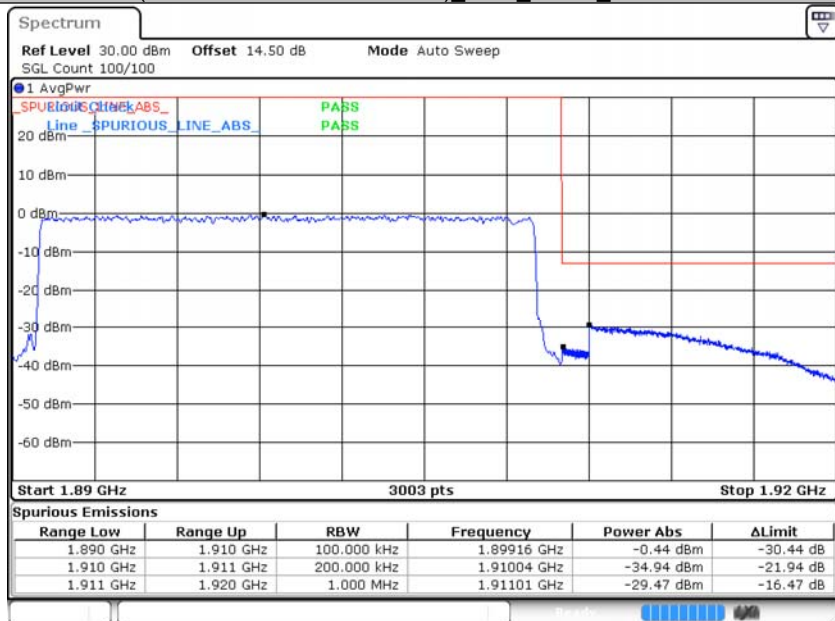
(Channel Bandwidth:20 MHz)\_LCH\_QPSK\_100RB#0



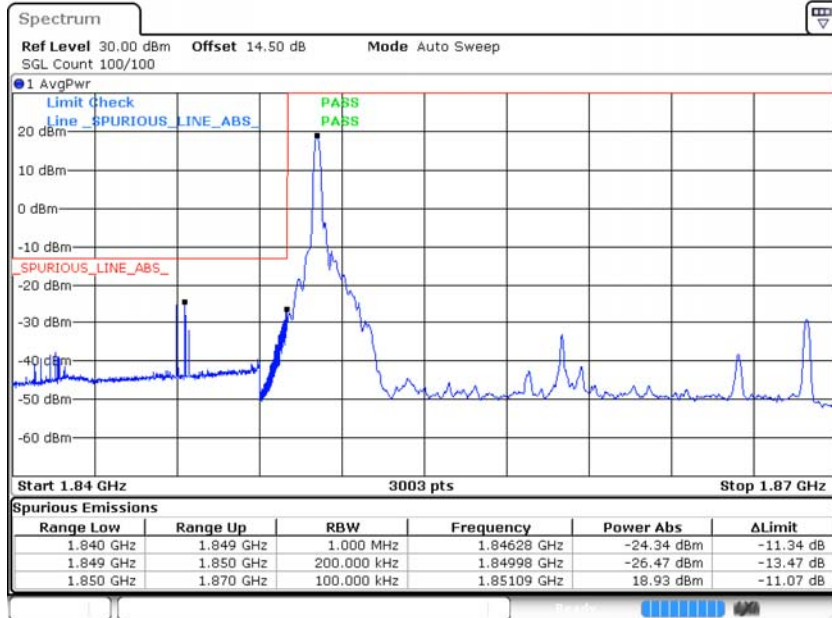
(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#99



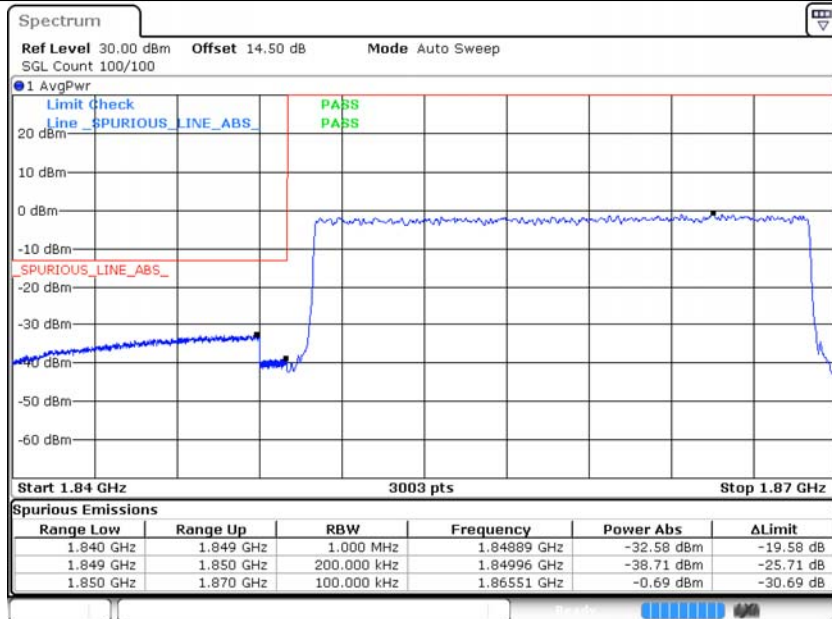
(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_100RB#0



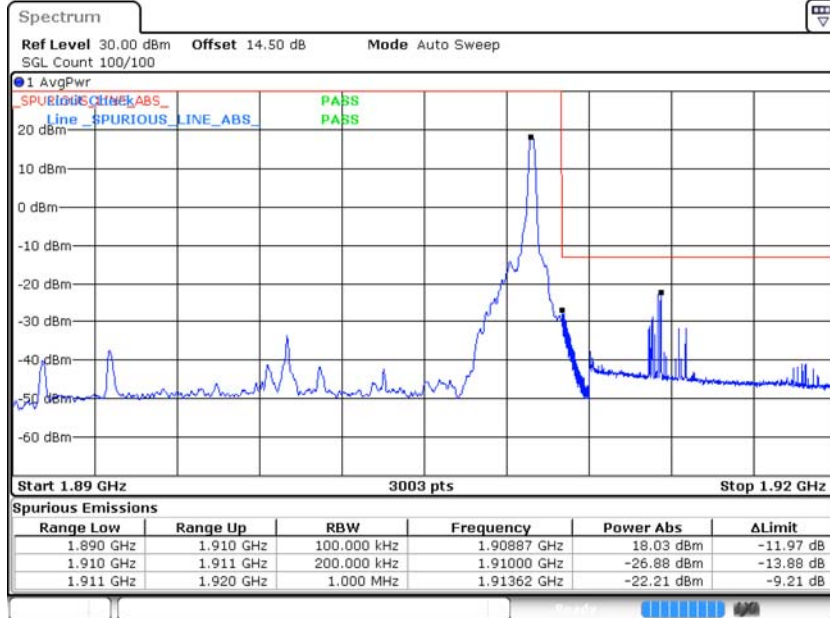
(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#0



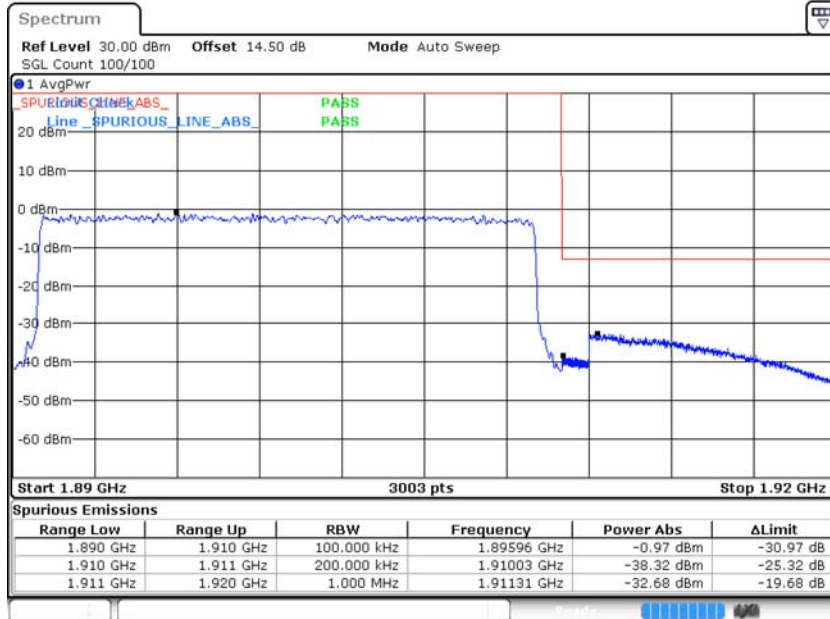
(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_100RB#0



(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_1RB#99



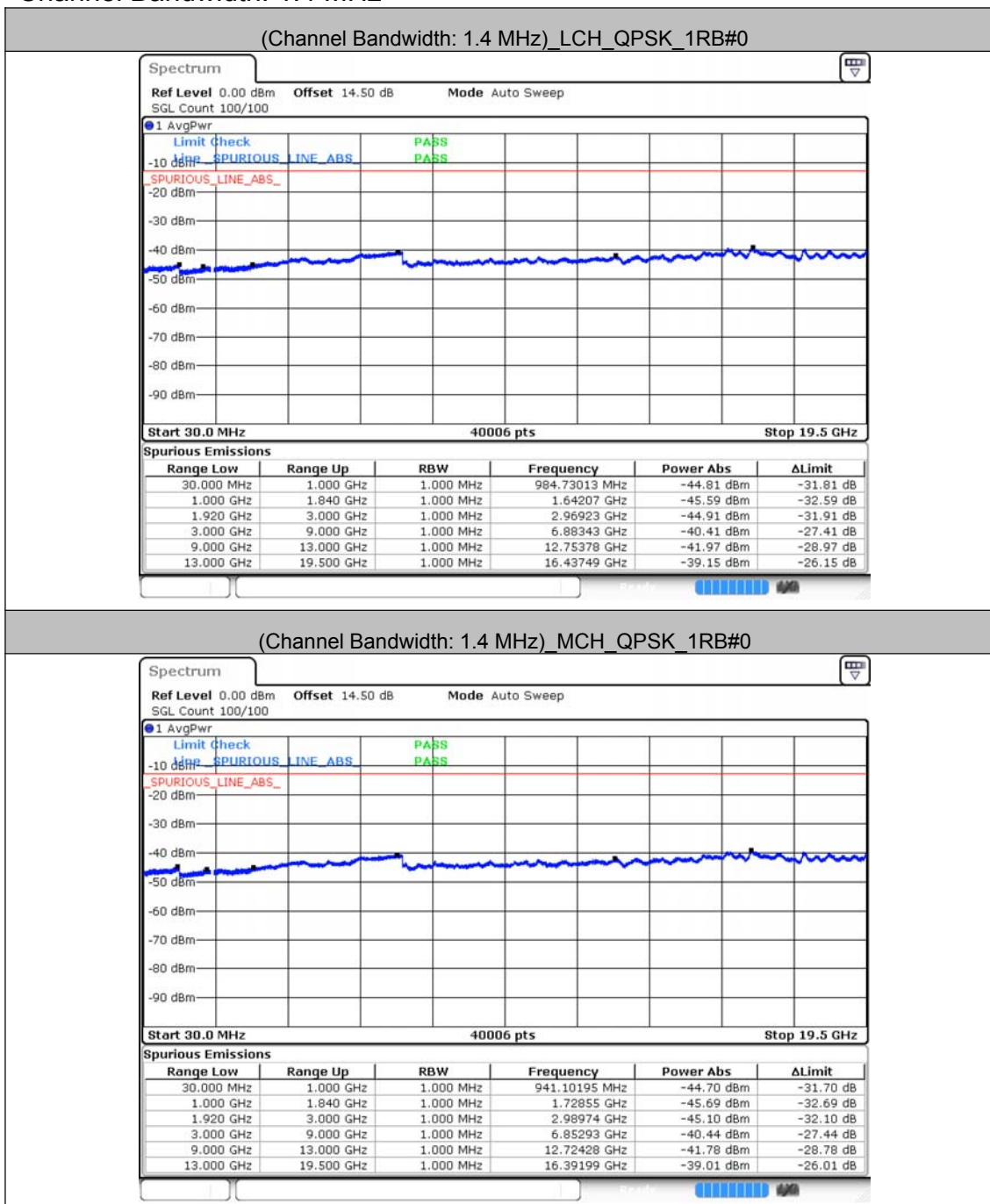
(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_100RB#0



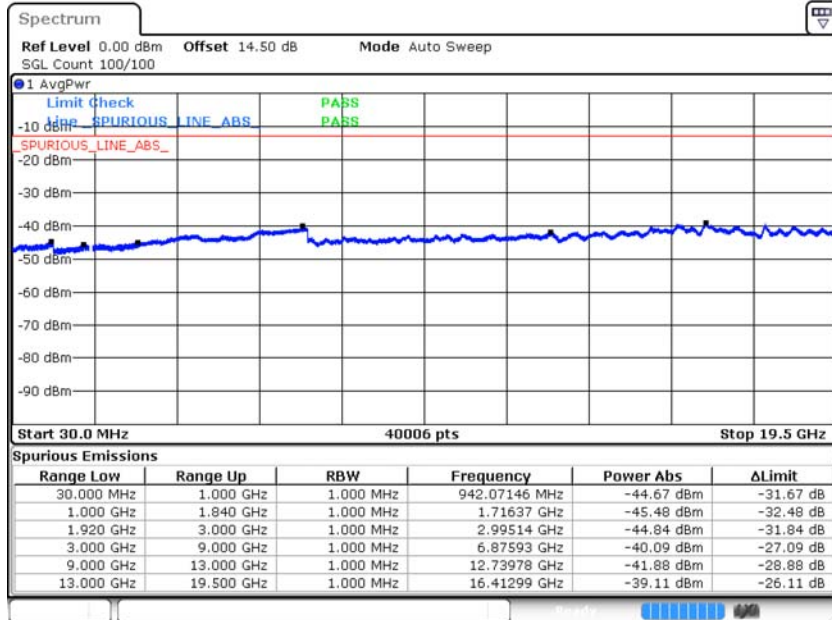
## Spurious And Harmonic Emissions at Antenna Terminal

Test Graphs:

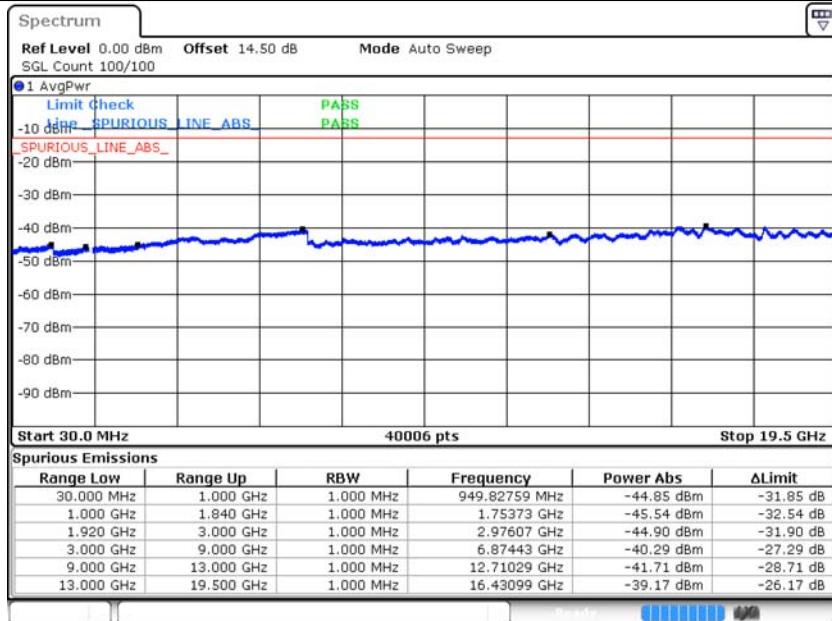
Channel Bandwidth: 1.4 MHz



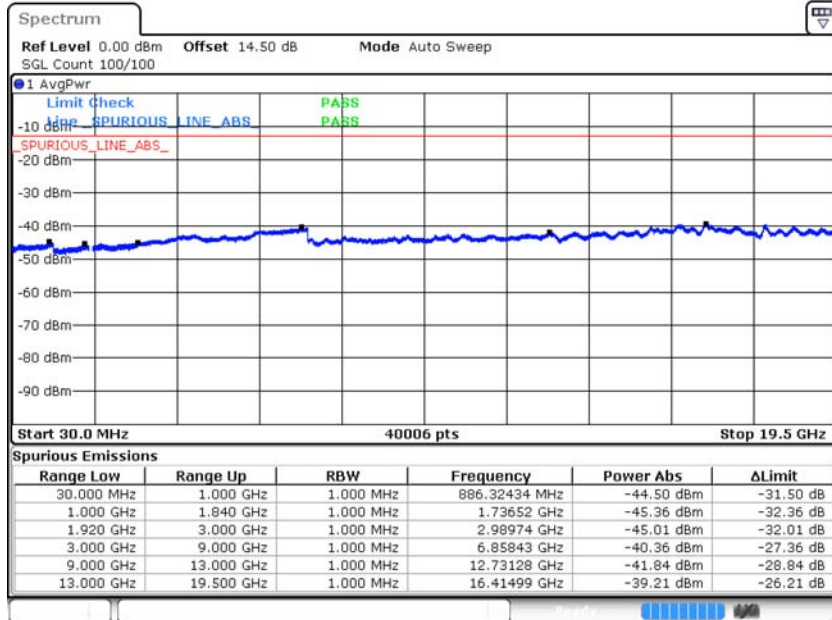
(Channel Bandwidth: 1.4 MHz) HCH\_QPSK\_1RB#0



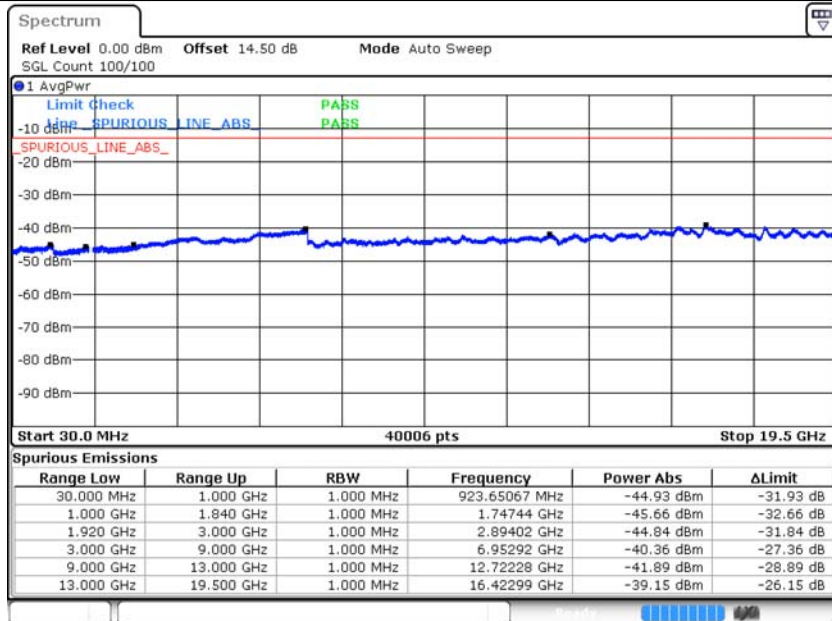
(Channel Bandwidth: 1.4 MHz) LCH\_16QAM\_1RB#0



(Channel Bandwidth: 1.4 MHz) MCH\_16QAM\_1RB#0

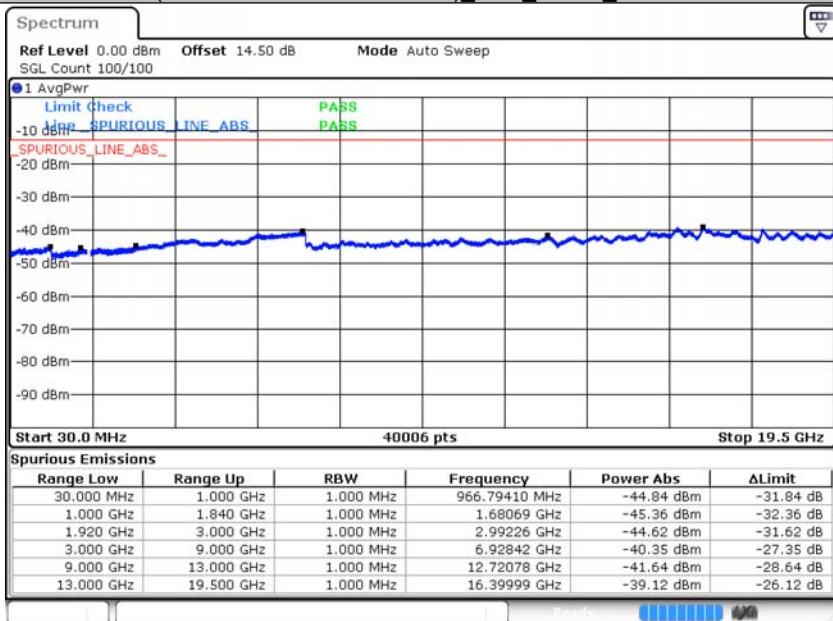


(Channel Bandwidth: 1.4 MHz) HCH\_16QAM\_1RB#0

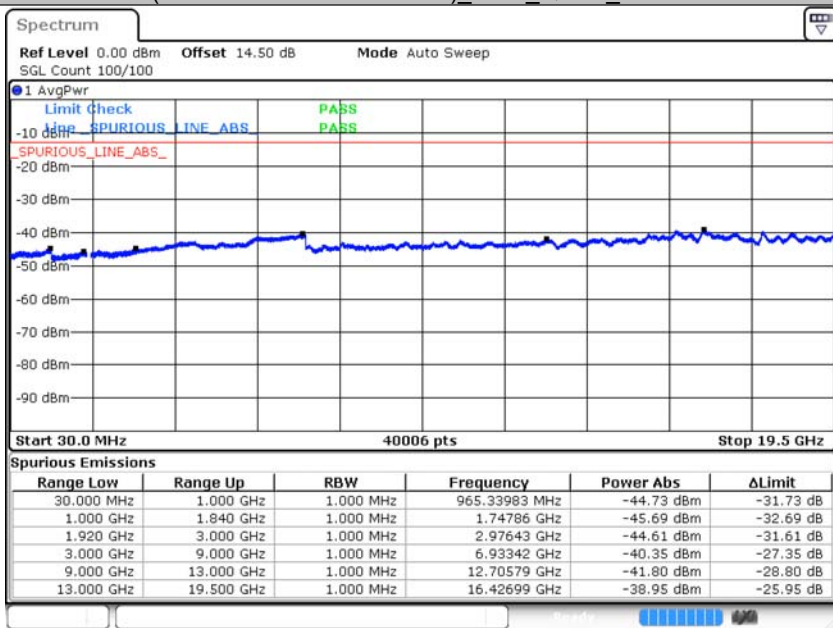


Channel Bandwidth: 3 MHz

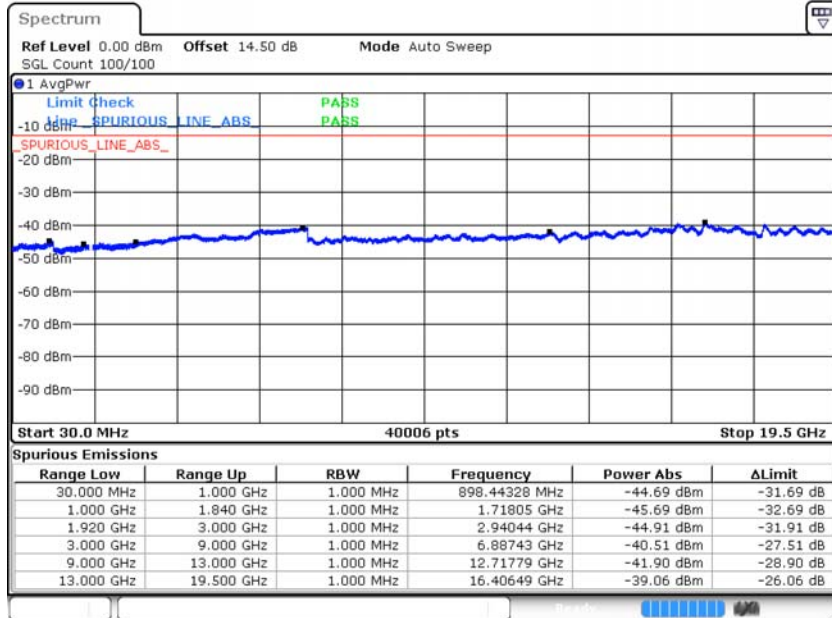
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_1RB#0



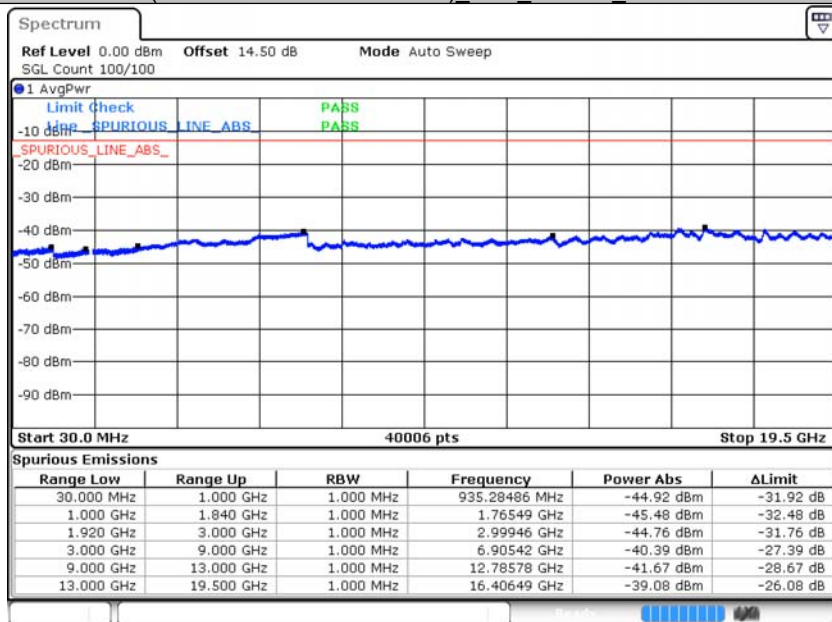
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#0

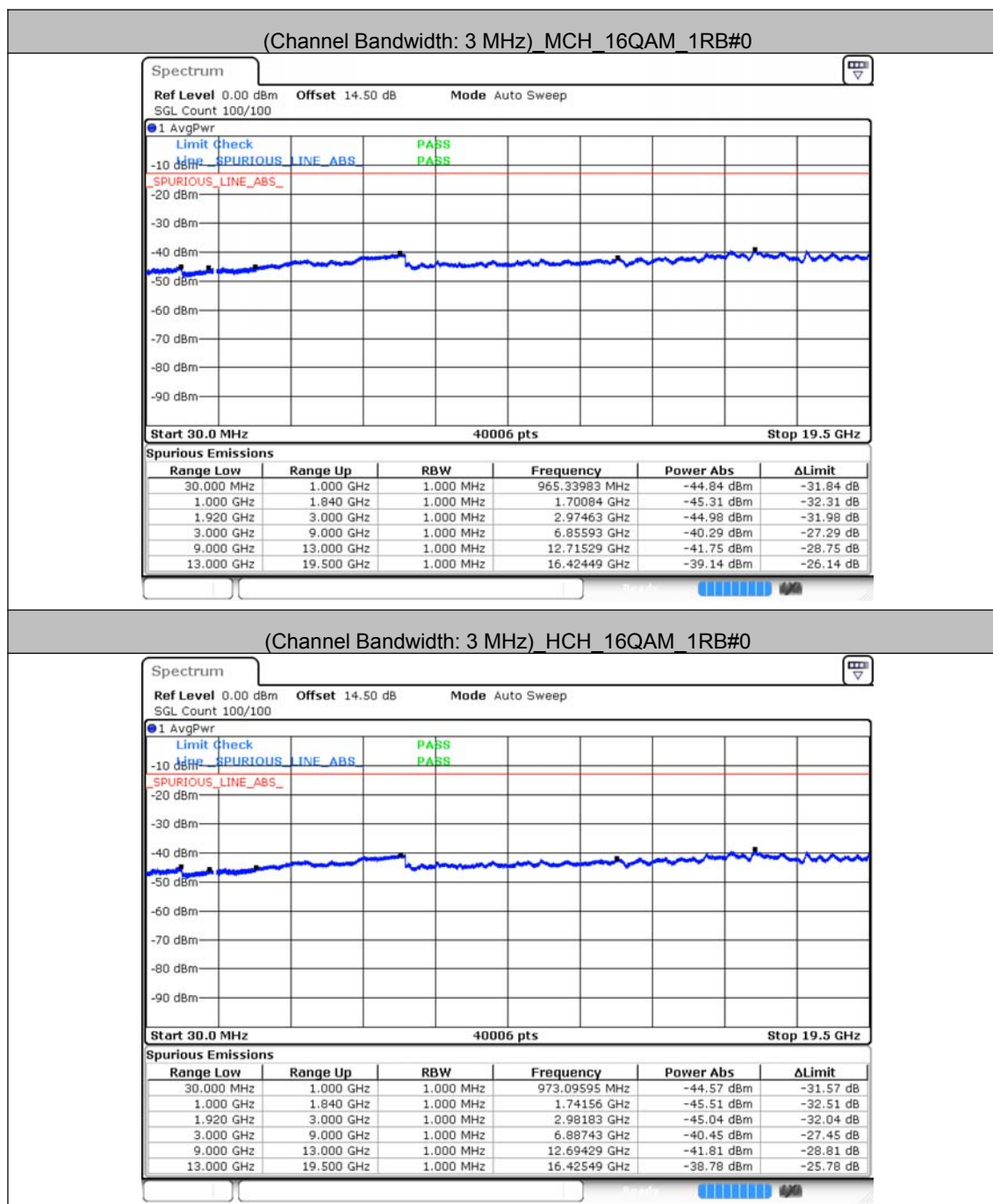


(Channel Bandwidth: 3 MHz) HCH\_QPSK\_1RB#0



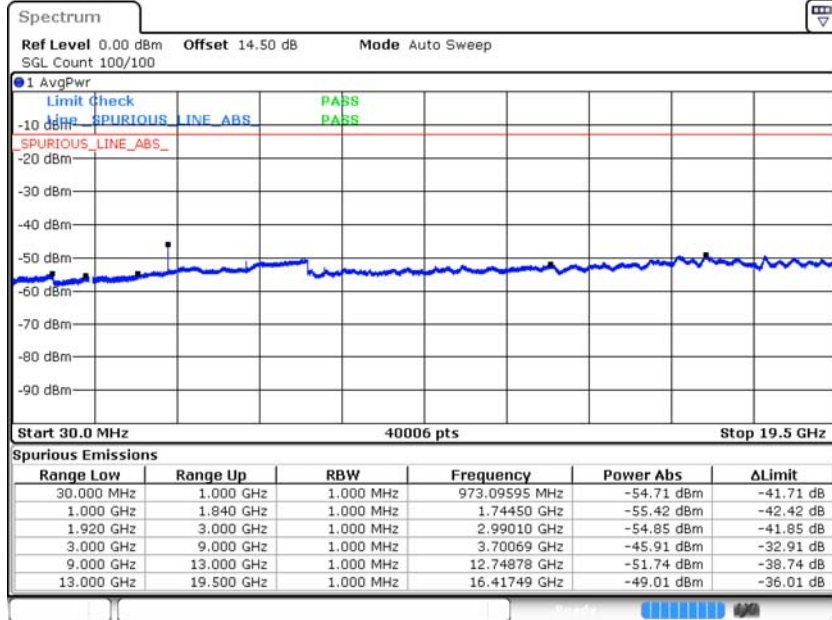
(Channel Bandwidth: 3 MHz) LCH\_16QAM\_1RB#0



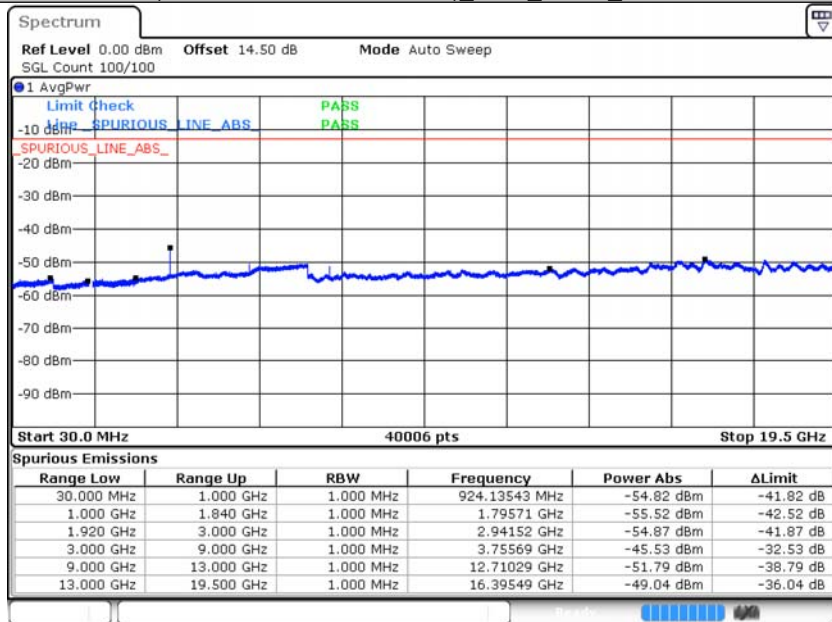


Channel Bandwidth: 5 MHz

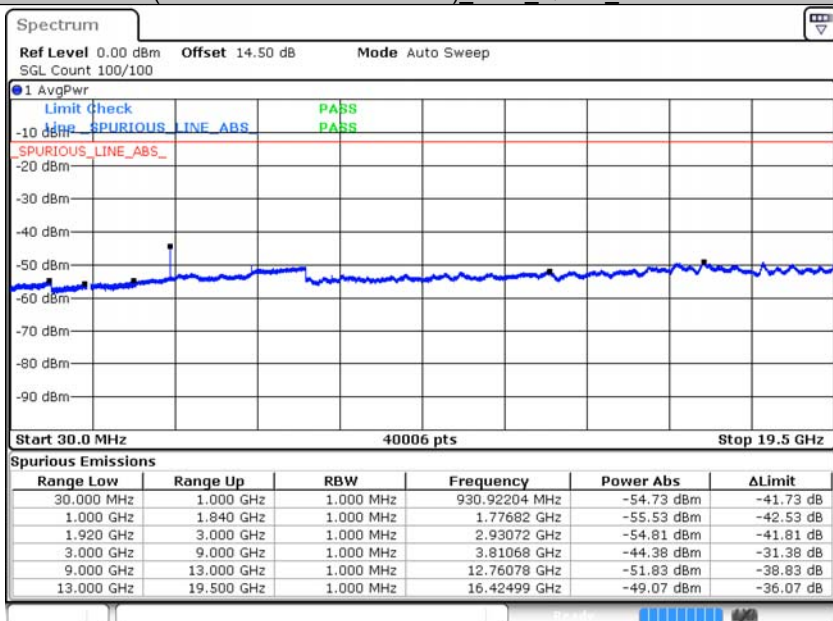
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#0



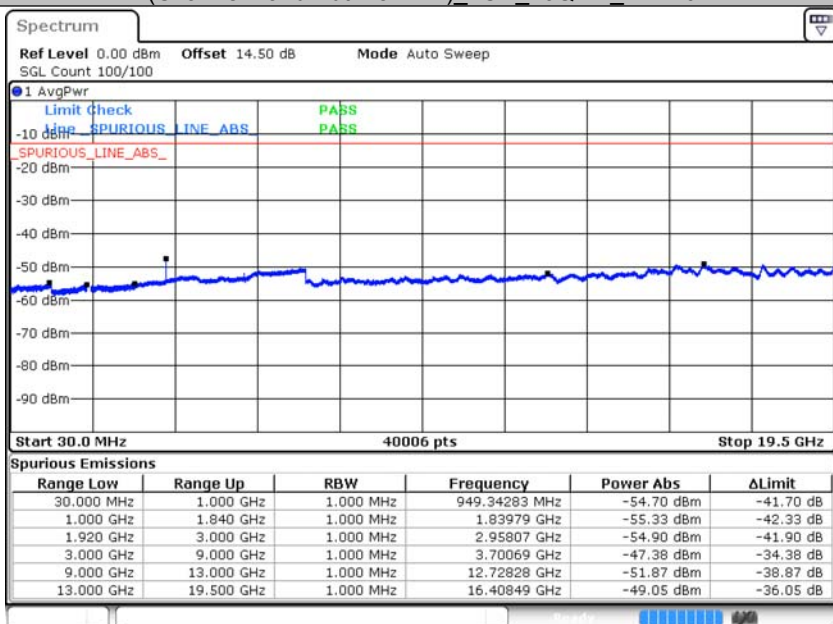
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0

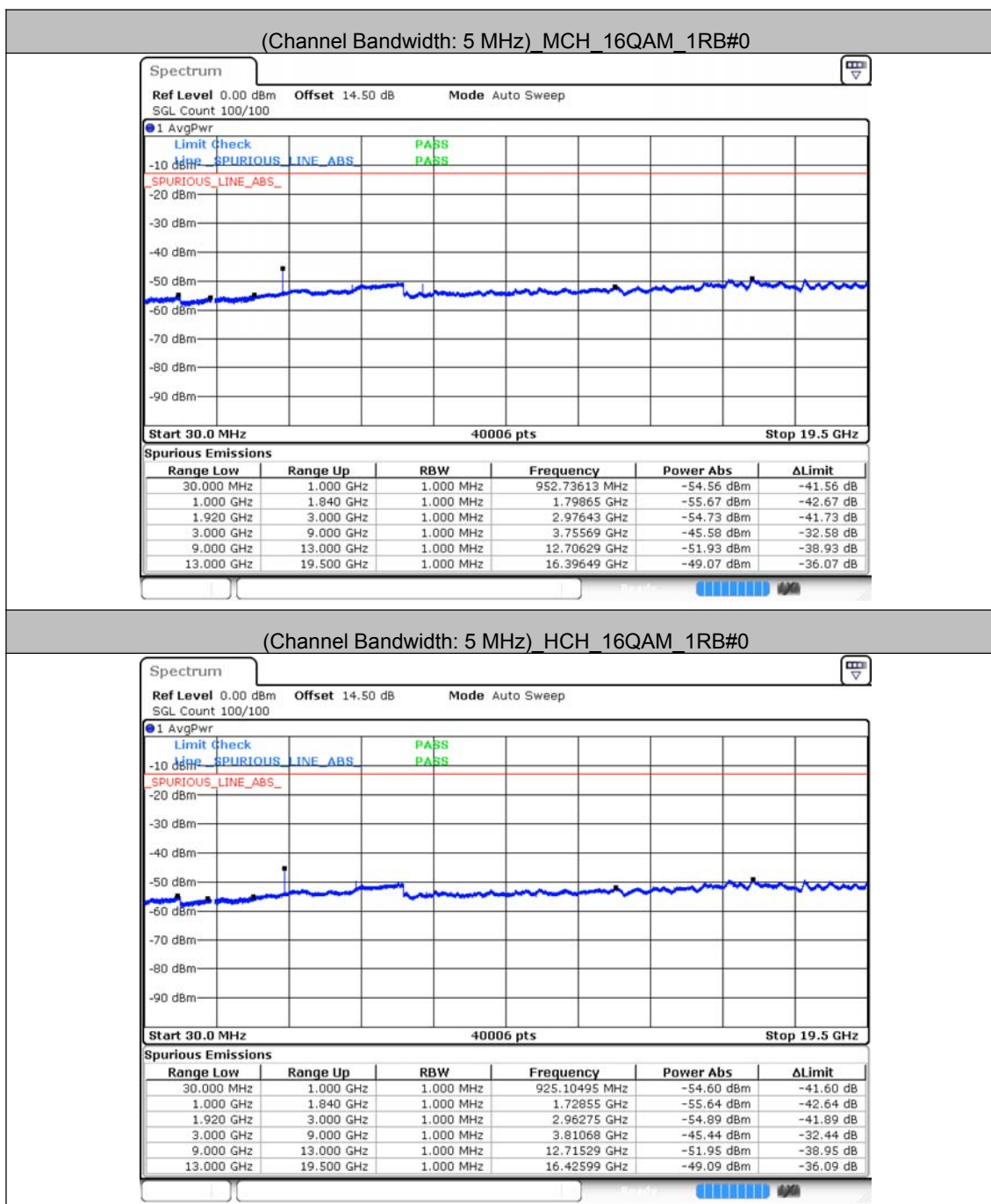


(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0

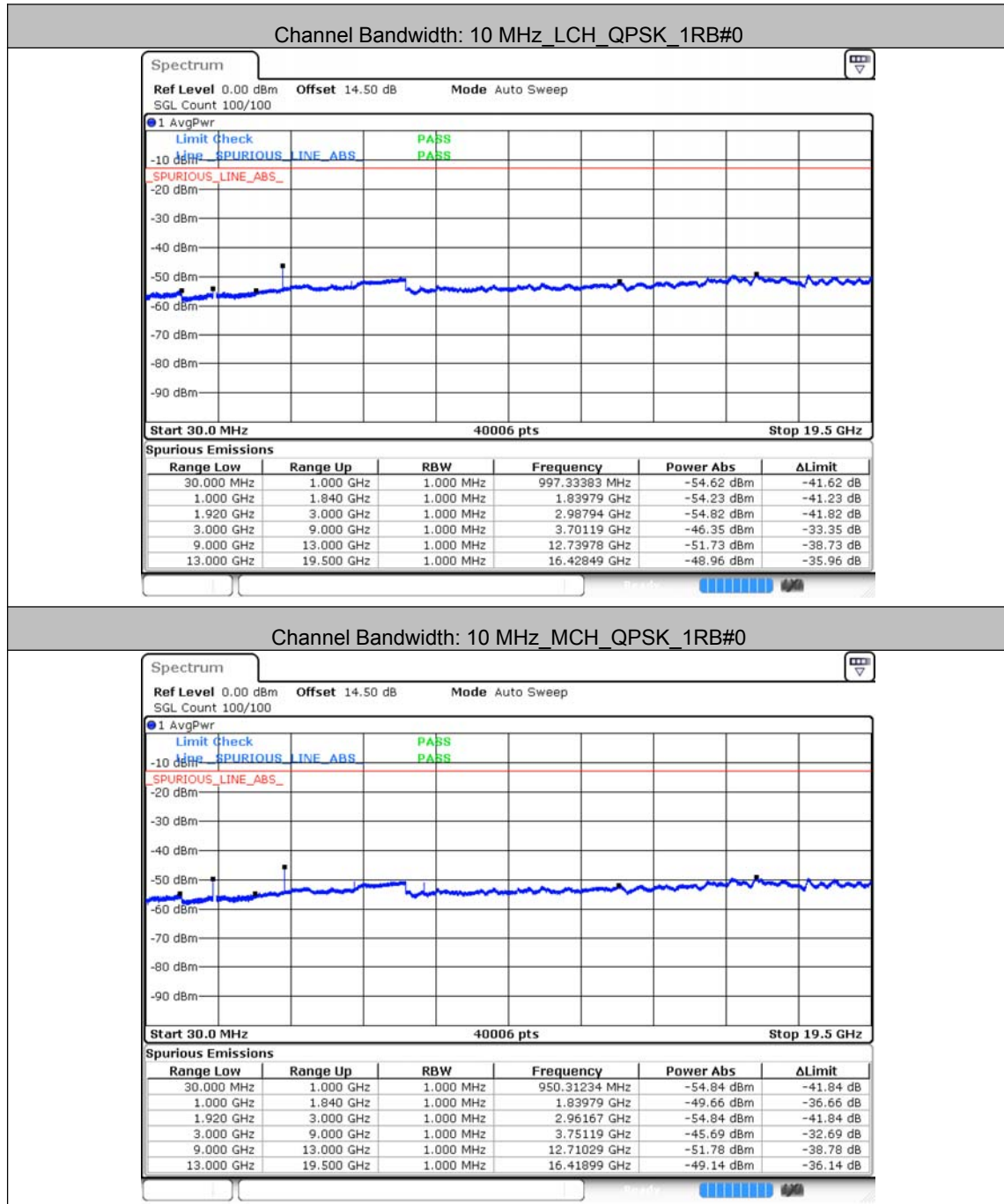


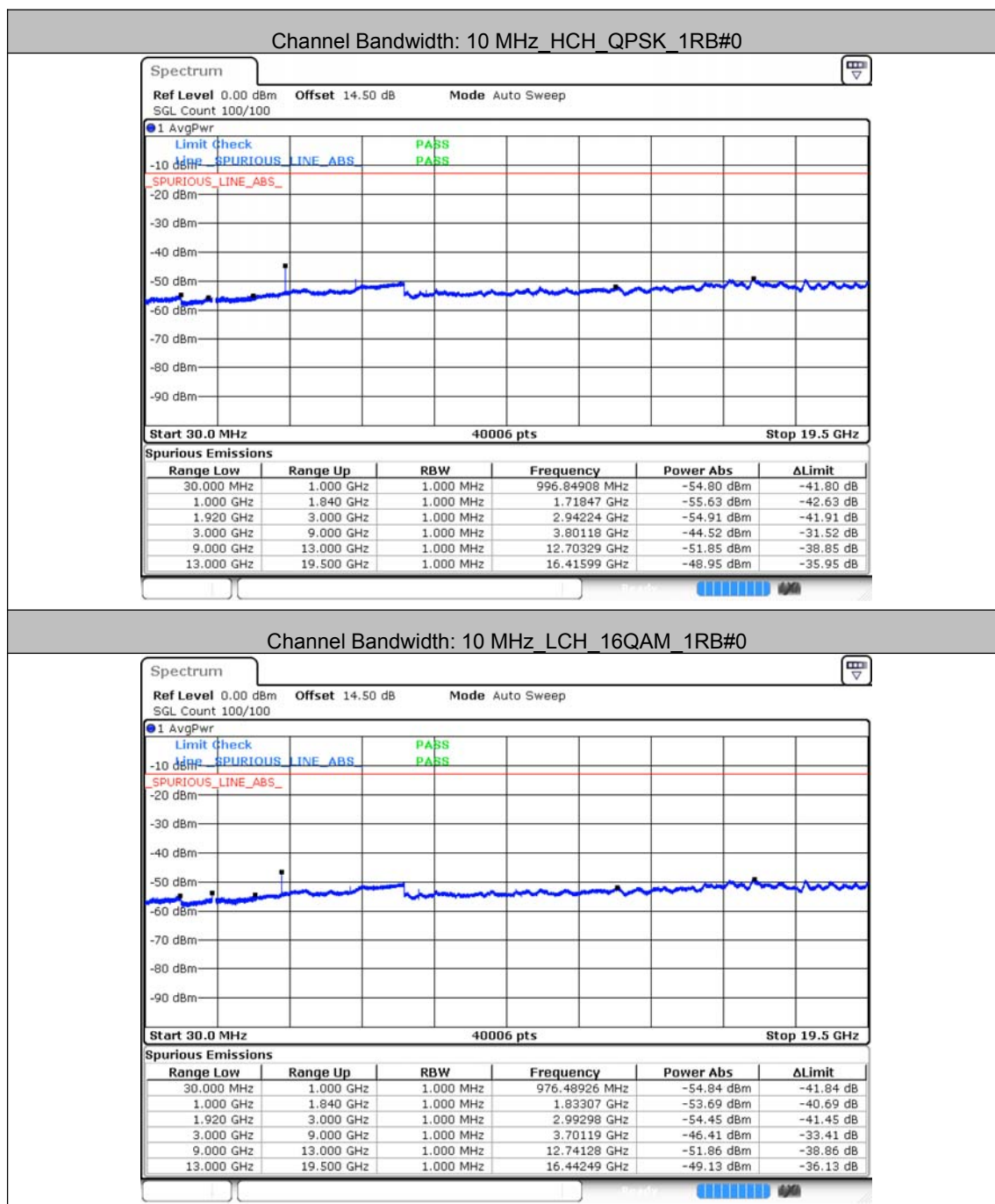
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0



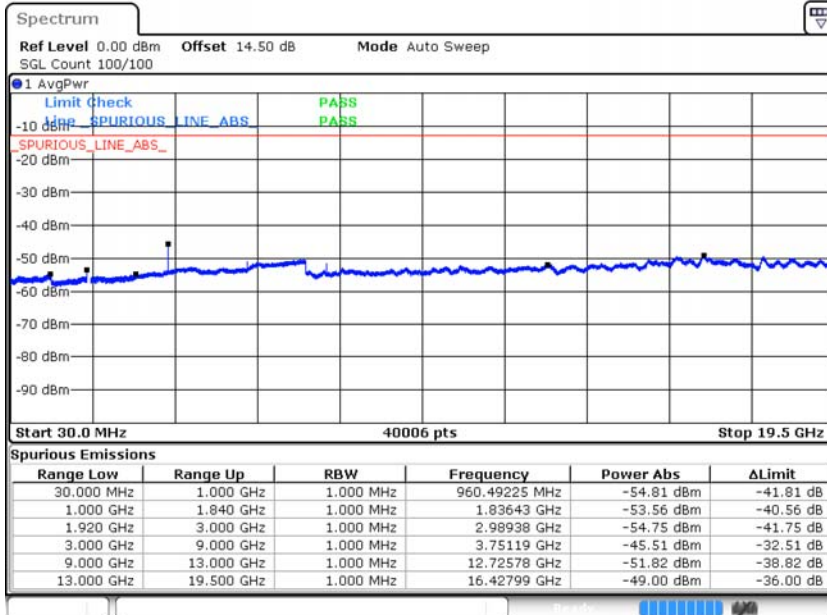


Channel Bandwidth: 10 MHz

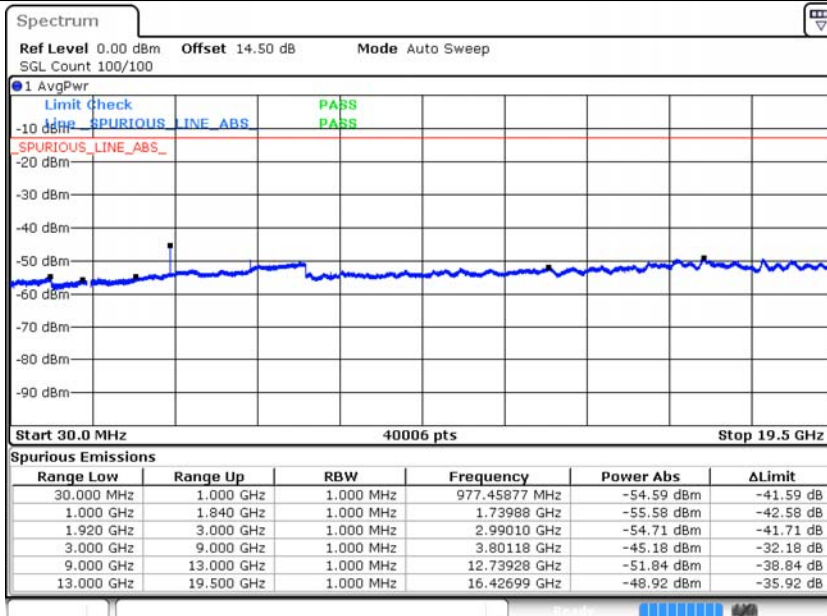




Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0

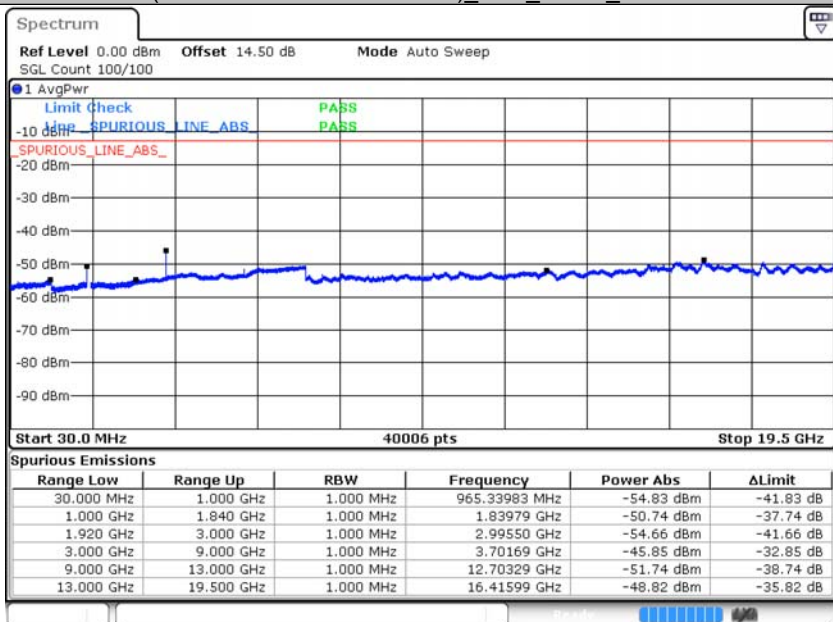


Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0

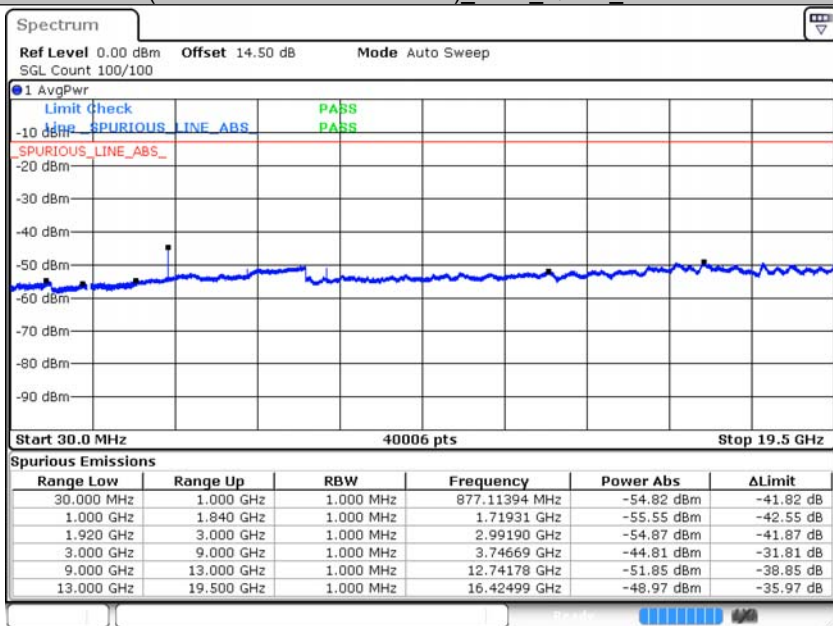


Channel Bandwidth: 15 MHz

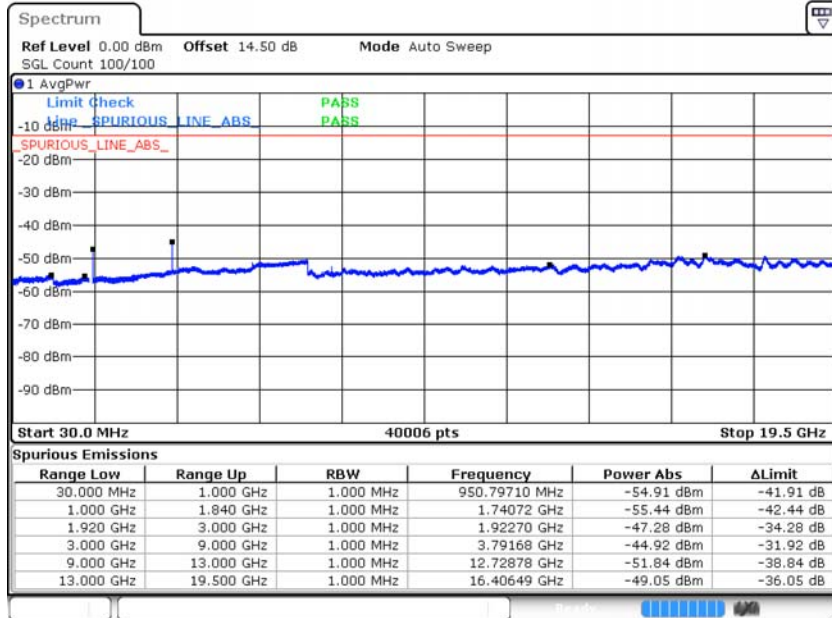
(Channel Bandwidth:15 MHz)\_LCH\_QPSK\_1RB#0



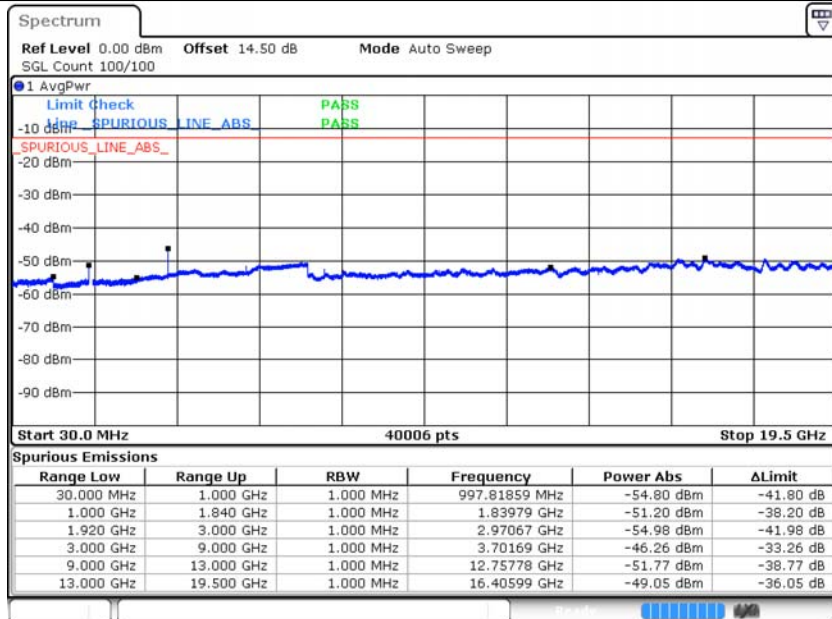
(Channel Bandwidth:15 MHz)\_MCH\_QPSK\_1RB#0



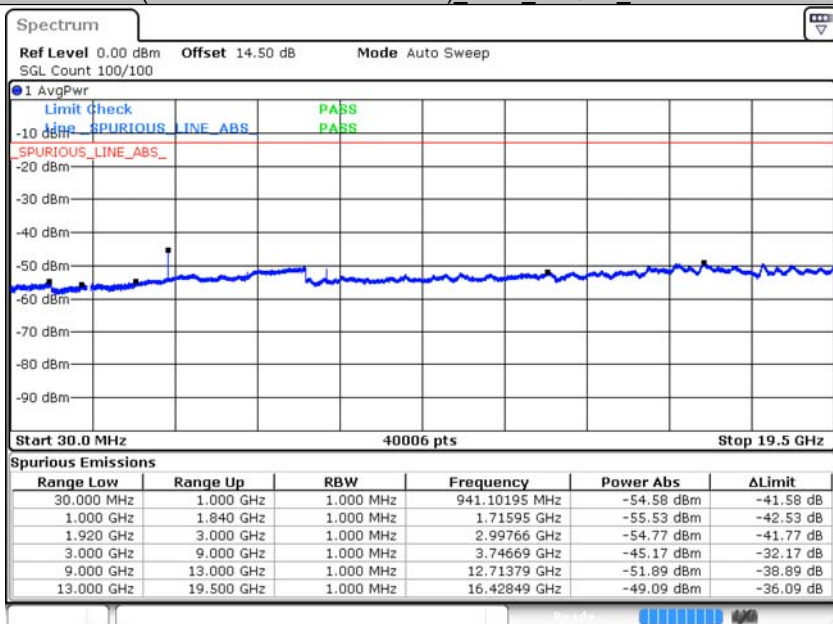
(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#0



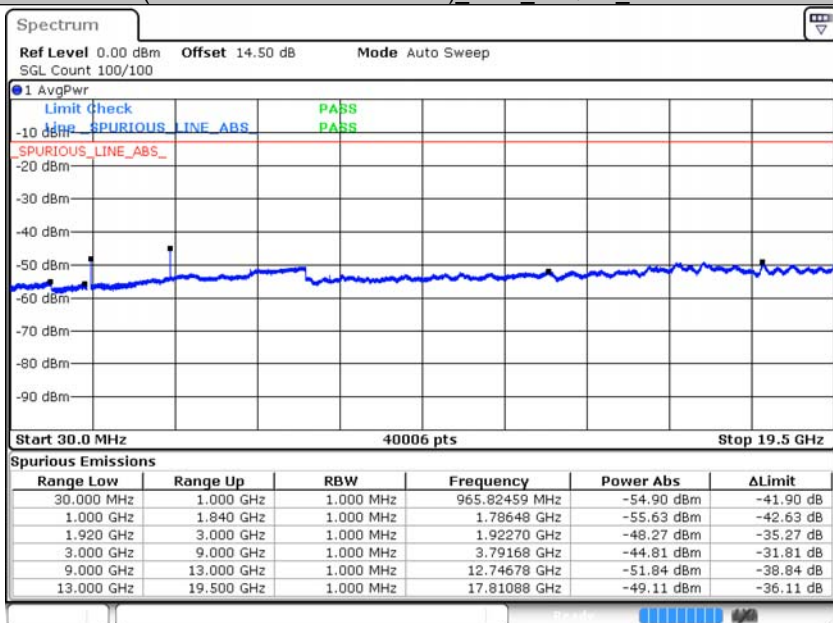
(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_1RB#0



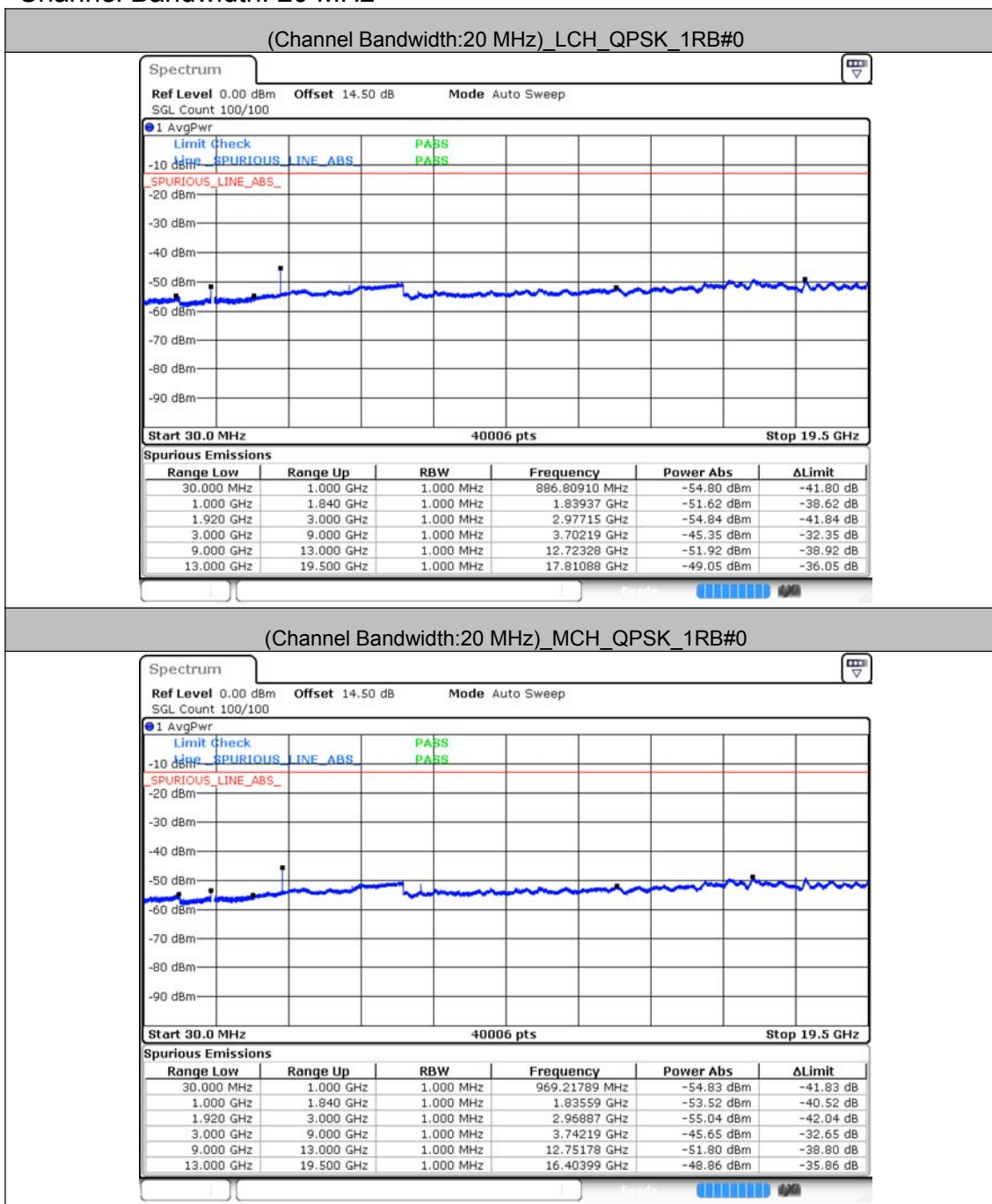
(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#0

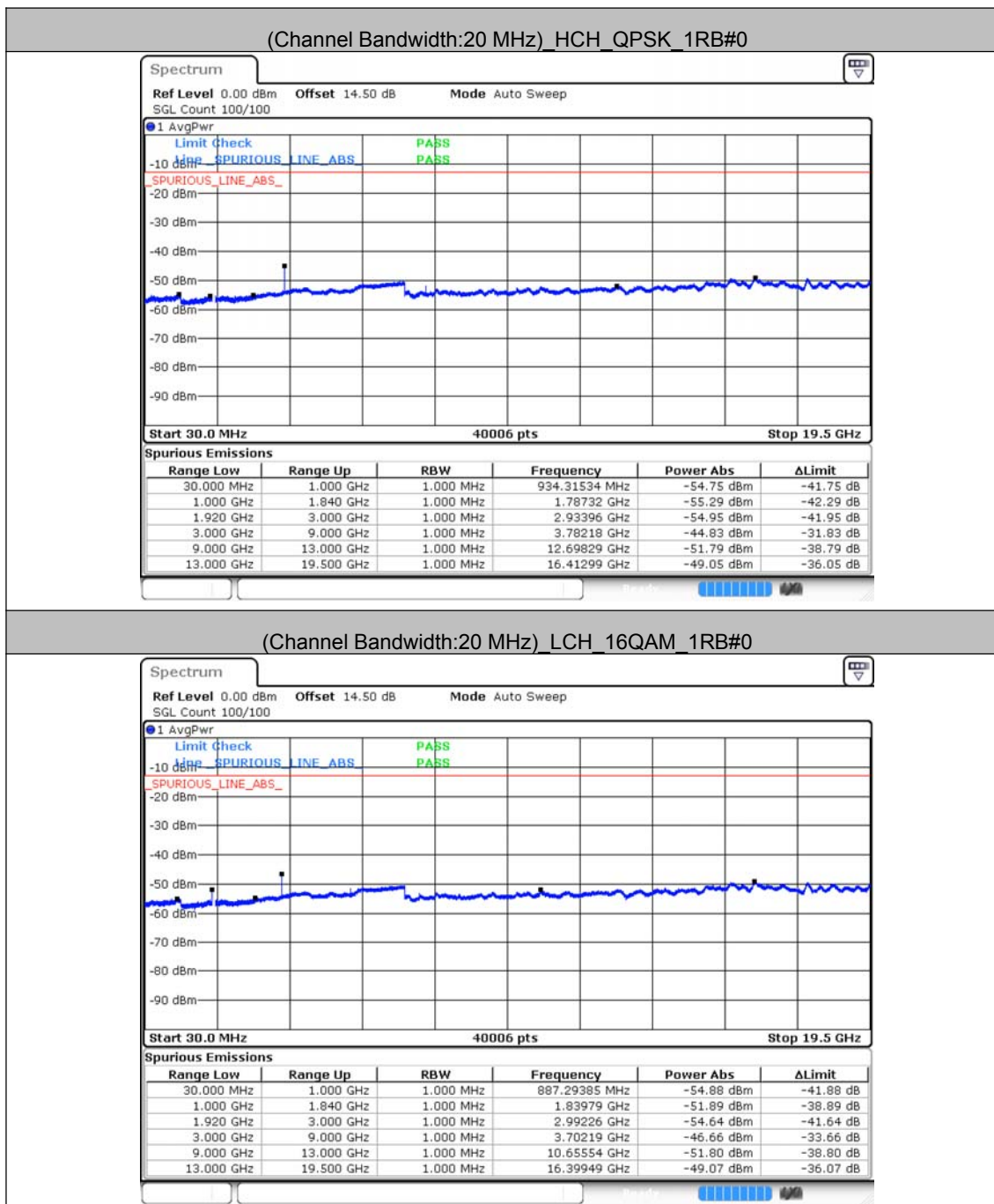


(Channel Bandwidth:15 MHz)\_HCH\_16QAM\_1RB#0

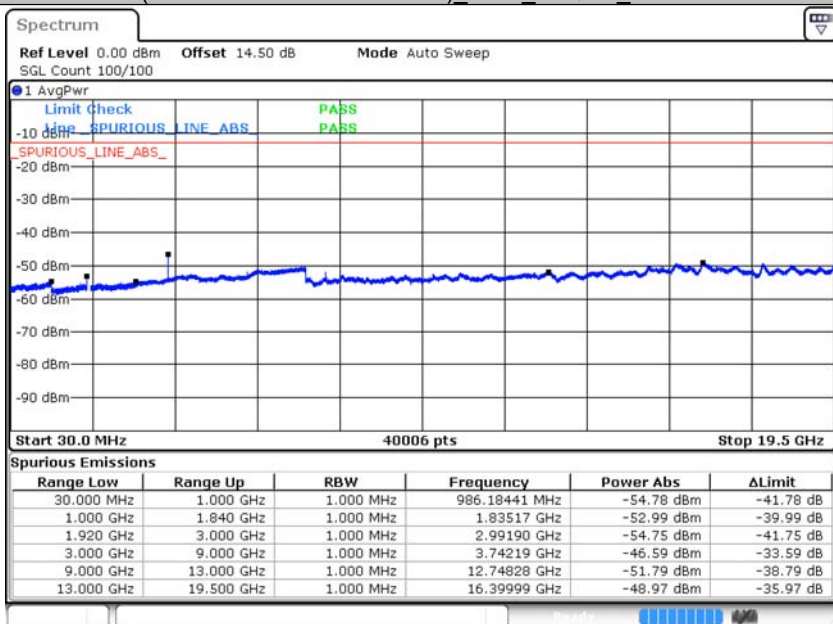


Channel Bandwidth: 20 MHz

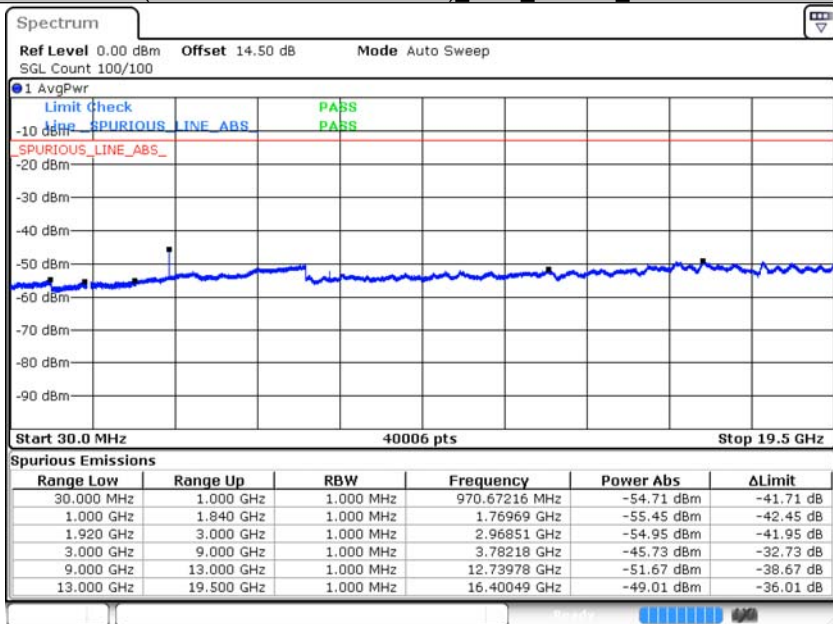




(Channel Bandwidth:20 MHz) \_MCH\_ 16QAM\_ 1RB#0



(Channel Bandwidth:20 MHz) \_HCH\_ 16QAM\_ 1RB#0



## Field Strength of Spurious Radiation

### Test Data:

Through Pre-scan, find the 1RB#0 of data type and QPSK modulation is the worst case.

Channel Bandwidth: 1.4 MHz

LCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 492.75          | -41.90      | -13              | -28.90          | Vertical     |
| 696.856         | -42.08      | -13              | -29.08          | Vertical     |
| 3701.400        | -40.78      | -13              | -27.78          | Vertical     |
| 5552.100        | -43.16      | -13              | -30.16          | Vertical     |
| 7402.800        | -49.48      | -13              | -36.48          | Vertical     |
| 488.25          | -40.30      | -13              | -27.30          | Horizontal   |
| 689.334         | -42.96      | -13              | -29.96          | Horizontal   |
| 3701.400        | -43.60      | -13              | -30.60          | Horizontal   |
| 5552.100        | -45.23      | -13              | -32.23          | Horizontal   |
| 7402.800        | -50.84      | -13              | -37.84          | Horizontal   |

MCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 490.123         | -40.78      | -13              | -27.78          | Vertical     |
| 696.135         | -42.09      | -13              | -29.09          | Vertical     |
| 3760.000        | -41.25      | -13              | -28.25          | Vertical     |
| 5640.000        | -42.15      | -13              | -29.15          | Vertical     |
| 7520.000        | -50.54      | -13              | -37.54          | Vertical     |
| 496.627         | -39.31      | -13              | -26.31          | Horizontal   |
| 693.837         | -42.52      | -13              | -29.52          | Horizontal   |
| 3760.000        | -42.88      | -13              | -29.88          | Horizontal   |
| 5640.000        | -46.44      | -13              | -33.44          | Horizontal   |
| 7520.000        | -49.88      | -13              | -36.88          | Horizontal   |

HCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 493.204         | -41.81      | -13              | -28.81          | Vertical     |
| 692.123         | -43.11      | -13              | -30.11          | Vertical     |
| 3818.600        | -40.16      | -13              | -27.16          | Vertical     |
| 5727.900        | -43.30      | -13              | -30.30          | Vertical     |
| 7637.200        | -50.43      | -13              | -37.43          | Vertical     |
| 489.339         | -42.02      | -13              | -29.02          | Horizontal   |
| 688.43          | -43.08      | -13              | -30.08          | Horizontal   |
| 3818.600        | -43.38      | -13              | -30.38          | Horizontal   |
| 5727.900        | -45.85      | -13              | -32.85          | Horizontal   |
| 7637.200        | -50.67      | -13              | -37.67          | Horizontal   |

Channel Bandwidth: 3 MHz

LCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 490.221         | -39.70      | -13              | -26.70          | Vertical     |
| 693.991         | -41.81      | -13              | -28.81          | Vertical     |
| 3703.000        | -40.39      | -13              | -27.39          | Vertical     |
| 5554.500        | -43.39      | -13              | -30.39          | Vertical     |
| 7406.000        | -49.55      | -13              | -36.55          | Vertical     |
| 487.058         | -40.22      | -13              | -27.22          | Horizontal   |
| 689.038         | -43.26      | -13              | -30.26          | Horizontal   |
| 3703.000        | -42.52      | -13              | -29.52          | Horizontal   |
| 5554.500        | -45.97      | -13              | -32.97          | Horizontal   |
| 7406.000        | -50.71      | -13              | -37.71          | Horizontal   |

## MCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 493.478         | -39.15      | -13              | -26.15          | Vertical     |
| 686.185         | -41.84      | -13              | -28.84          | Vertical     |
| 3760.000        | -39.74      | -13              | -26.74          | Vertical     |
| 5640.000        | -43.21      | -13              | -30.21          | Vertical     |
| 7520.000        | -49.55      | -13              | -36.55          | Vertical     |
| 495.323         | -39.00      | -13              | -26.00          | Horizontal   |
| 692.865         | -42.11      | -13              | -29.11          | Horizontal   |
| 3760.000        | -42.88      | -13              | -29.88          | Horizontal   |
| 5640.000        | -45.07      | -13              | -32.07          | Horizontal   |
| 7520.000        | -51.06      | -13              | -38.06          | Horizontal   |

## HCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 496.075         | -40.65      | -13              | -27.65          | Vertical     |
| 685.953         | -42.97      | -13              | -29.97          | Vertical     |
| 3817.000        | -39.32      | -13              | -26.32          | Vertical     |
| 5725.500        | -41.84      | -13              | -28.84          | Vertical     |
| 7634.000        | -49.17      | -13              | -36.17          | Vertical     |
| 491.978         | -41.76      | -13              | -28.76          | Horizontal   |
| 696.629         | -42.35      | -13              | -29.35          | Horizontal   |
| 3817.000        | -42.45      | -13              | -29.45          | Horizontal   |
| 5725.500        | -45.79      | -13              | -32.79          | Horizontal   |
| 7634.000        | -49.84      | -13              | -36.84          | Horizontal   |

Channel Bandwidth: 5 MHz

LCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 492.066         | -41.53      | -13              | -28.53          | Vertical     |
| 686.733         | -43.59      | -13              | -30.59          | Vertical     |
| 3705.000        | -40.52      | -13              | -27.52          | Vertical     |
| 5557.500        | -42.35      | -13              | -29.35          | Vertical     |
| 7410.000        | -48.84      | -13              | -35.84          | Vertical     |
| 492.847         | -42.19      | -13              | -29.19          | Horizontal   |
| 686.991         | -41.65      | -13              | -28.65          | Horizontal   |
| 3705.000        | -42.47      | -13              | -29.47          | Horizontal   |
| 5557.500        | -45.73      | -13              | -32.73          | Horizontal   |
| 7410.000        | -50.37      | -13              | -37.37          | Horizontal   |

MCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 495.035         | -40.96      | -13              | -27.96          | Vertical     |
| 688.694         | -43.35      | -13              | -30.35          | Vertical     |
| 3760.000        | -40.39      | -13              | -27.39          | Vertical     |
| 5640.000        | -42.88      | -13              | -29.88          | Vertical     |
| 7520.000        | -48.93      | -13              | -35.93          | Vertical     |
| 492.479         | -39.61      | -13              | -26.61          | Horizontal   |
| 692.907         | -43.28      | -13              | -30.28          | Horizontal   |
| 3760.000        | -42.48      | -13              | -29.48          | Horizontal   |
| 5640.000        | -45.62      | -13              | -32.62          | Horizontal   |
| 7520.000        | -51.38      | -13              | -38.38          | Horizontal   |

HCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 490.876         | -39.36      | -13              | -26.36          | Vertical     |
| 686.444         | -42.25      | -13              | -29.25          | Vertical     |
| 3815.000        | -39.14      | -13              | -26.14          | Vertical     |
| 5722.500        | -42.51      | -13              | -29.51          | Vertical     |
| 7630.000        | -49.49      | -13              | -36.49          | Vertical     |
| 495.925         | -39.21      | -13              | -26.21          | Horizontal   |
| 695.284         | -42.92      | -13              | -29.92          | Horizontal   |
| 3815.000        | -42.14      | -13              | -29.14          | Horizontal   |
| 5722.500        | -45.16      | -13              | -32.16          | Horizontal   |
| 7630.000        | -50.20      | -13              | -37.20          | Horizontal   |

Channel Bandwidth: 10 MHz

LCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 487.603         | -41.45      | -13              | -28.45          | Vertical     |
| 693.327         | -42.32      | -13              | -29.32          | Vertical     |
| 3710.000        | -39.75      | -13              | -26.75          | Vertical     |
| 5565.000        | -42.24      | -13              | -29.24          | Vertical     |
| 7420.000        | -48.70      | -13              | -35.70          | Vertical     |
| 493.457         | -39.26      | -13              | -26.26          | Horizontal   |
| 685.941         | -42.47      | -13              | -29.47          | Horizontal   |
| 3710.000        | -42.00      | -13              | -29.00          | Horizontal   |
| 5565.000        | -46.59      | -13              | -33.59          | Horizontal   |
| 7420.000        | -49.96      | -13              | -36.96          | Horizontal   |

## MCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 489.885         | -41.60      | -13              | -28.60          | Vertical     |
| 694.991         | -42.66      | -13              | -29.66          | Vertical     |
| 3760.000        | -40.26      | -13              | -27.26          | Vertical     |
| 5640.000        | -42.20      | -13              | -29.20          | Vertical     |
| 7520.000        | -49.56      | -13              | -36.56          | Vertical     |
| 488.838         | -41.92      | -13              | -28.92          | Horizontal   |
| 687.391         | -43.19      | -13              | -30.19          | Horizontal   |
| 3760.000        | -42.85      | -13              | -29.85          | Horizontal   |
| 5640.000        | -44.70      | -13              | -31.70          | Horizontal   |
| 7520.000        | -50.01      | -13              | -37.01          | Horizontal   |

## HCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 491.944         | -39.82      | -13              | -26.82          | Vertical     |
| 687.357         | -42.17      | -13              | -29.17          | Vertical     |
| 3810.000        | -41.65      | -13              | -28.65          | Vertical     |
| 5715.000        | -42.95      | -13              | -29.95          | Vertical     |
| 7620.000        | -50.09      | -13              | -37.09          | Vertical     |
| 496.945         | -41.96      | -13              | -28.96          | Horizontal   |
| 694.257         | -42.81      | -13              | -29.81          | Horizontal   |
| 3810.000        | -43.09      | -13              | -30.09          | Horizontal   |
| 5715.000        | -45.00      | -13              | -32.00          | Horizontal   |
| 7620.000        | -49.92      | -13              | -36.92          | Horizontal   |

Channel Bandwidth: 15 MHz

LCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 486.795         | -38.70      | -13              | -25.70          | Vertical     |
| 696.442         | -42.30      | -13              | -29.30          | Vertical     |
| 3715.000        | -40.74      | -13              | -27.74          | Vertical     |
| 5572.500        | -41.97      | -13              | -28.97          | Vertical     |
| 7430.000        | -49.86      | -13              | -36.86          | Vertical     |
| 490.593         | -38.83      | -13              | -25.83          | Horizontal   |
| 691.793         | -42.17      | -13              | -29.17          | Horizontal   |
| 3715.000        | -43.21      | -13              | -30.21          | Horizontal   |
| 5572.500        | -45.80      | -13              | -32.80          | Horizontal   |
| 7430.000        | -49.87      | -13              | -36.87          | Horizontal   |

MCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 491.438         | -42.09      | -13              | -29.09          | Vertical     |
| 686.394         | -42.99      | -13              | -29.99          | Vertical     |
| 3760.000        | -41.37      | -13              | -28.37          | Vertical     |
| 5640.000        | -42.67      | -13              | -29.67          | Vertical     |
| 7520.000        | -49.76      | -13              | -36.76          | Vertical     |
| 488.621         | -42.13      | -13              | -29.13          | Horizontal   |
| 694.836         | -42.14      | -13              | -29.14          | Horizontal   |
| 3760.000        | -42.48      | -13              | -29.48          | Horizontal   |
| 5640.000        | -46.26      | -13              | -33.26          | Horizontal   |
| 7520.000        | -51.35      | -13              | -38.35          | Horizontal   |

HCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 491.408         | -42.12      | -13              | -29.12          | Vertical     |
| 689.934         | -43.28      | -13              | -30.28          | Vertical     |
| 3805.000        | -40.42      | -13              | -27.42          | Vertical     |
| 5707.500        | -43.55      | -13              | -30.55          | Vertical     |
| 7610.000        | -48.77      | -13              | -35.77          | Vertical     |
| 492.124         | -39.74      | -13              | -26.74          | Horizontal   |
| 695.858         | -41.80      | -13              | -28.80          | Horizontal   |
| 3805.000        | -41.95      | -13              | -28.95          | Horizontal   |
| 5707.500        | -46.33      | -13              | -33.33          | Horizontal   |
| 7610.000        | -49.89      | -13              | -36.89          | Horizontal   |

Channel Bandwidth: 20 MHz

LCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 487.018         | -39.20      | -13              | -26.20          | Vertical     |
| 689.763         | -42.55      | -13              | -29.55          | Vertical     |
| 3920.000        | -39.02      | -13              | -26.02          | Vertical     |
| 5880.000        | -42.13      | -13              | -29.13          | Vertical     |
| 7840.000        | -50.59      | -13              | -37.59          | Vertical     |
| 488.709         | -38.78      | -13              | -25.78          | Horizontal   |
| 686.899         | -43.25      | -13              | -30.25          | Horizontal   |
| 3920.000        | -42.52      | -13              | -29.52          | Horizontal   |
| 5880.000        | -44.73      | -13              | -31.73          | Horizontal   |
| 7840.000        | -49.93      | -13              | -36.93          | Horizontal   |

MCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 495.679         | -42.11      | -13              | -29.11          | Vertical     |
| 694.893         | -42.81      | -13              | -29.81          | Vertical     |
| 3760.000        | -40.02      | -13              | -27.02          | Vertical     |
| 5640.000        | -41.64      | -13              | -28.64          | Vertical     |
| 7520.000        | -50.19      | -13              | -37.19          | Vertical     |
| 489.377         | -40.39      | -13              | -27.39          | Horizontal   |
| 696.629         | -43.20      | -13              | -30.20          | Horizontal   |
| 3760.000        | -42.23      | -13              | -29.23          | Horizontal   |
| 5640.000        | -45.56      | -13              | -32.56          | Horizontal   |
| 7520.000        | -49.72      | -13              | -36.72          | Horizontal   |

HCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 489.551         | -41.87      | -13              | -28.87          | Vertical     |
| 696.304         | -43.15      | -13              | -30.15          | Vertical     |
| 3800.000        | -40.95      | -13              | -27.95          | Vertical     |
| 5700.000        | -42.72      | -13              | -29.72          | Vertical     |
| 7600.000        | -50.08      | -13              | -37.08          | Vertical     |
| 489.384         | -41.78      | -13              | -28.78          | Horizontal   |
| 686.543         | -43.30      | -13              | -30.30          | Horizontal   |
| 3800.000        | -43.27      | -13              | -30.27          | Horizontal   |
| 5700.000        | -45.40      | -13              | -32.40          | Horizontal   |
| 7600.000        | -51.19      | -13              | -38.19          | Horizontal   |

## Frequency Stability

### Test Data:

Channel Bandwidth: 10 MHz

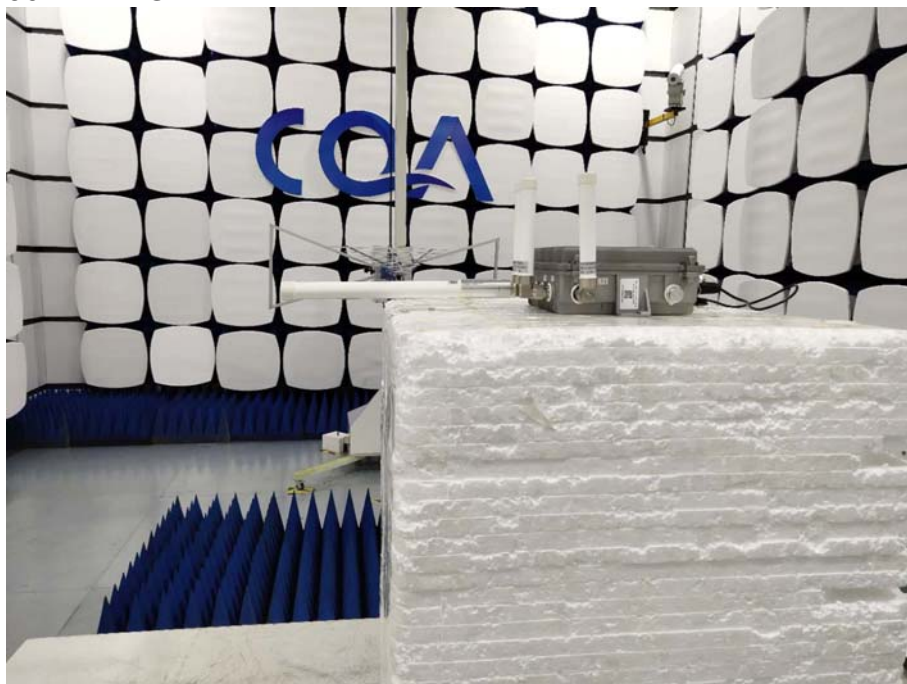
| Channel Bandwidth: 10 MHz |         |               |                  |                |                 |             |         |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage                   |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VL            | TN               | -8.27          | -0.004458       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -6.51          | -0.003509       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -8.24          | -0.004442       | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | -5.99          | -0.003186       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -8.94          | -0.004755       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -6.15          | -0.003271       | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | -7.02          | -0.003685       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -9.57          | -0.005024       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -9.2           | -0.004829       | ± 2.5       | PASS    |
| 16QAM                     | LCH     | VL            | TN               | -1.96          | -0.001057       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -7.99          | -0.004307       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -13.47         | -0.007261       | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | -9.27          | -0.004931       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -4.41          | -0.002346       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -5.8           | -0.003085       | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | -7.3           | -0.003832       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -8.4           | -0.004409       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -5.99          | -0.003144       | ± 2.5       | PASS    |
| Temperature               |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VN            | -30              | -5.55          | -0.002992       | ± 2.5       | PASS    |
|                           |         | VN            | -20              | -6.72          | -0.003623       | ± 2.5       | PASS    |
|                           |         | VN            | -10              | -4.23          | -0.002280       | ± 2.5       | PASS    |
|                           |         | VN            | 0                | -4.69          | -0.002528       | ± 2.5       | PASS    |
|                           |         | VN            | 10               | -11.2          | -0.006038       | ± 2.5       | PASS    |
|                           |         | VN            | 20               | -12.82         | -0.006911       | ± 2.5       | PASS    |
|                           |         | VN            | 30               | -5.49          | -0.002960       | ± 2.5       | PASS    |
|                           |         | VN            | 40               | -8.01          | -0.004318       | ± 2.5       | PASS    |
|                           |         | VN            | 50               | -7.09          | -0.003822       | ± 2.5       | PASS    |
|                           | MCH     | VN            | -30              | -12.26         | -0.006521       | ± 2.5       | PASS    |
|                           |         | VN            | -20              | -9.38          | -0.004989       | ± 2.5       | PASS    |
|                           |         | VN            | -10              | -9.48          | -0.005043       | ± 2.5       | PASS    |
|                           |         | VN            | 0                | -5.69          | -0.003027       | ± 2.5       | PASS    |
|                           |         | VN            | 10               | -7.99          | -0.004250       | ± 2.5       | PASS    |
|                           |         | VN            | 20               | -11.94         | -0.006351       | ± 2.5       | PASS    |
|                           |         | VN            | 30               | -5.11          | -0.002718       | ± 2.5       | PASS    |
|                           |         | VN            | 40               | -5.8           | -0.003085       | ± 2.5       | PASS    |
|                           |         | VN            | 50               | -7.86          | -0.004181       | ± 2.5       | PASS    |
|                           | HCH     | VN            | -30              | -6.36          | -0.003339       | ± 2.5       | PASS    |

|       |     |    |     |        |           |       |      |
|-------|-----|----|-----|--------|-----------|-------|------|
|       |     | VN | -20 | -3.21  | -0.001685 | ± 2.5 | PASS |
|       |     | VN | -10 | -11    | -0.005774 | ± 2.5 | PASS |
|       |     | VN | 0   | -5.5   | -0.002887 | ± 2.5 | PASS |
|       |     | VN | 10  | -5.66  | -0.002971 | ± 2.5 | PASS |
|       |     | VN | 20  | -9.58  | -0.005029 | ± 2.5 | PASS |
|       |     | VN | 30  | -8.03  | -0.004215 | ± 2.5 | PASS |
|       |     | VN | 40  | -10.16 | -0.005333 | ± 2.5 | PASS |
|       |     | VN | 50  | -6.29  | -0.003302 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -9.54  | -0.005143 | ± 2.5 | PASS |
|       |     | VN | -20 | -4.62  | -0.002491 | ± 2.5 | PASS |
|       |     | VN | -10 | -7.45  | -0.004016 | ± 2.5 | PASS |
|       |     | VN | 0   | -8.46  | -0.004561 | ± 2.5 | PASS |
|       |     | VN | 10  | -7.85  | -0.004232 | ± 2.5 | PASS |
|       |     | VN | 20  | -3.48  | -0.001876 | ± 2.5 | PASS |
|       |     | VN | 30  | -6.65  | -0.003585 | ± 2.5 | PASS |
|       |     | VN | 40  | -7.38  | -0.003978 | ± 2.5 | PASS |
|       | MCH | VN | 50  | -5.48  | -0.002954 | ± 2.5 | PASS |
|       |     | VN | -30 | -6.46  | -0.003436 | ± 2.5 | PASS |
|       |     | VN | -20 | -3.29  | -0.001750 | ± 2.5 | PASS |
|       |     | VN | -10 | -3.83  | -0.002037 | ± 2.5 | PASS |
|       |     | VN | 0   | -13.43 | -0.007144 | ± 2.5 | PASS |
|       |     | VN | 10  | -3.82  | -0.002032 | ± 2.5 | PASS |
|       |     | VN | 20  | -4.76  | -0.002532 | ± 2.5 | PASS |
|       |     | VN | 30  | -8.83  | -0.004697 | ± 2.5 | PASS |
|       | HCH | VN | 40  | -12.12 | -0.006447 | ± 2.5 | PASS |
|       |     | VN | 50  | -11.15 | -0.005931 | ± 2.5 | PASS |
|       |     | VN | -30 | -12.56 | -0.006593 | ± 2.5 | PASS |
|       |     | VN | -20 | -10.56 | -0.005543 | ± 2.5 | PASS |
|       |     | VN | -10 | -4.07  | -0.002136 | ± 2.5 | PASS |
|       |     | VN | 0   | -7.84  | -0.004115 | ± 2.5 | PASS |
|       |     | VN | 10  | -5.79  | -0.003039 | ± 2.5 | PASS |
|       |     | VN | 20  | -12.95 | -0.006798 | ± 2.5 | PASS |
|       |     | VN | 30  | -14.87 | -0.007806 | ± 2.5 | PASS |
|       |     | VN | 40  | -2.42  | -0.001270 | ± 2.5 | PASS |
|       |     | VN | 50  | 5.59   | 0.002934  | ± 2.5 | PASS |

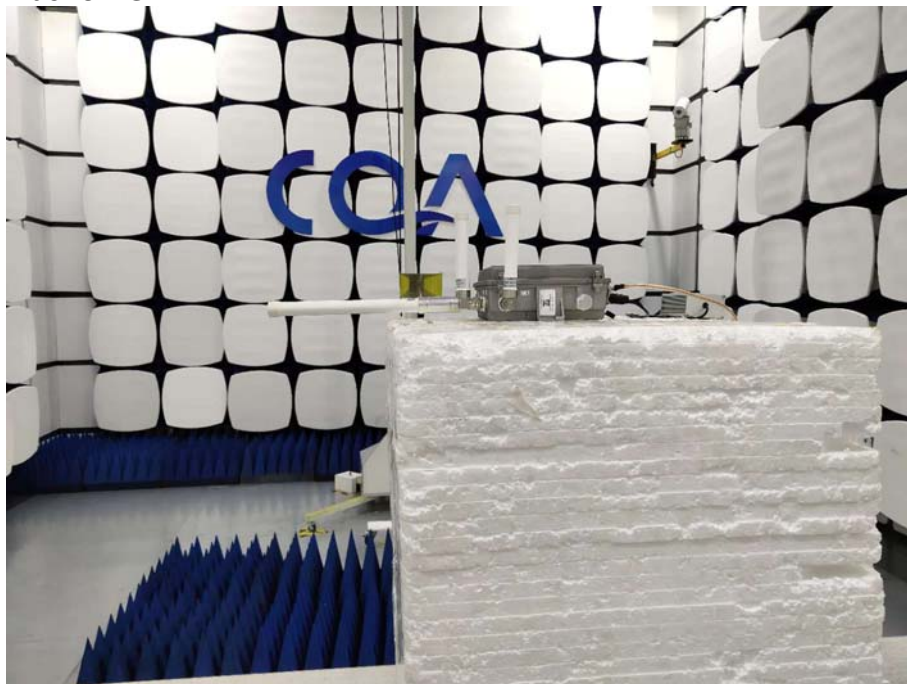
## Photographs - EUT Test Setup

### Radiated Spurious Emission

30MHz~1GHz:



Above 1GHz:



---

## Photographs - EUT Constructional Details

Refer to Photographs - EUT Constructional Details for CQASZ20200500350E-01.

---

The End