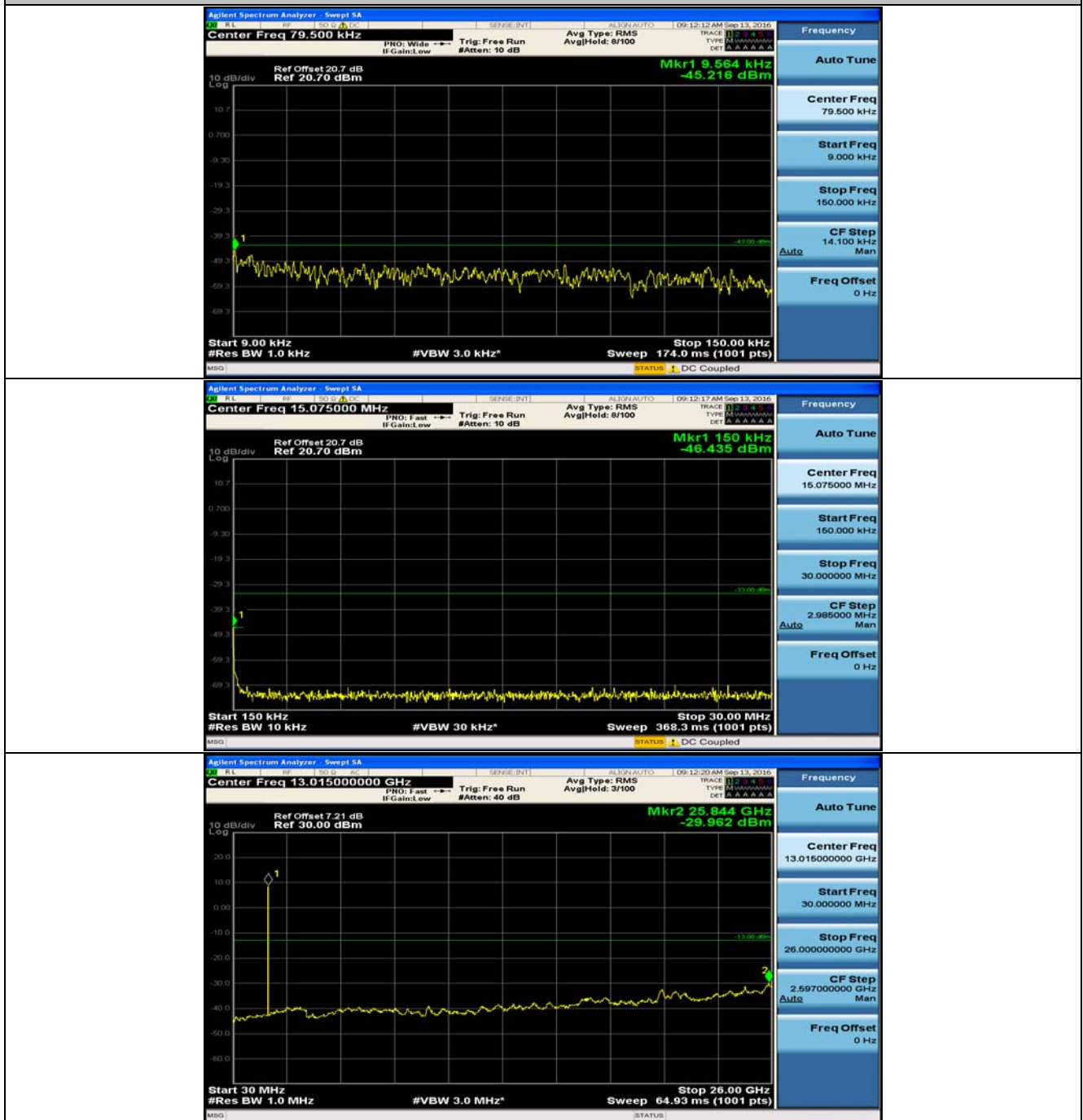
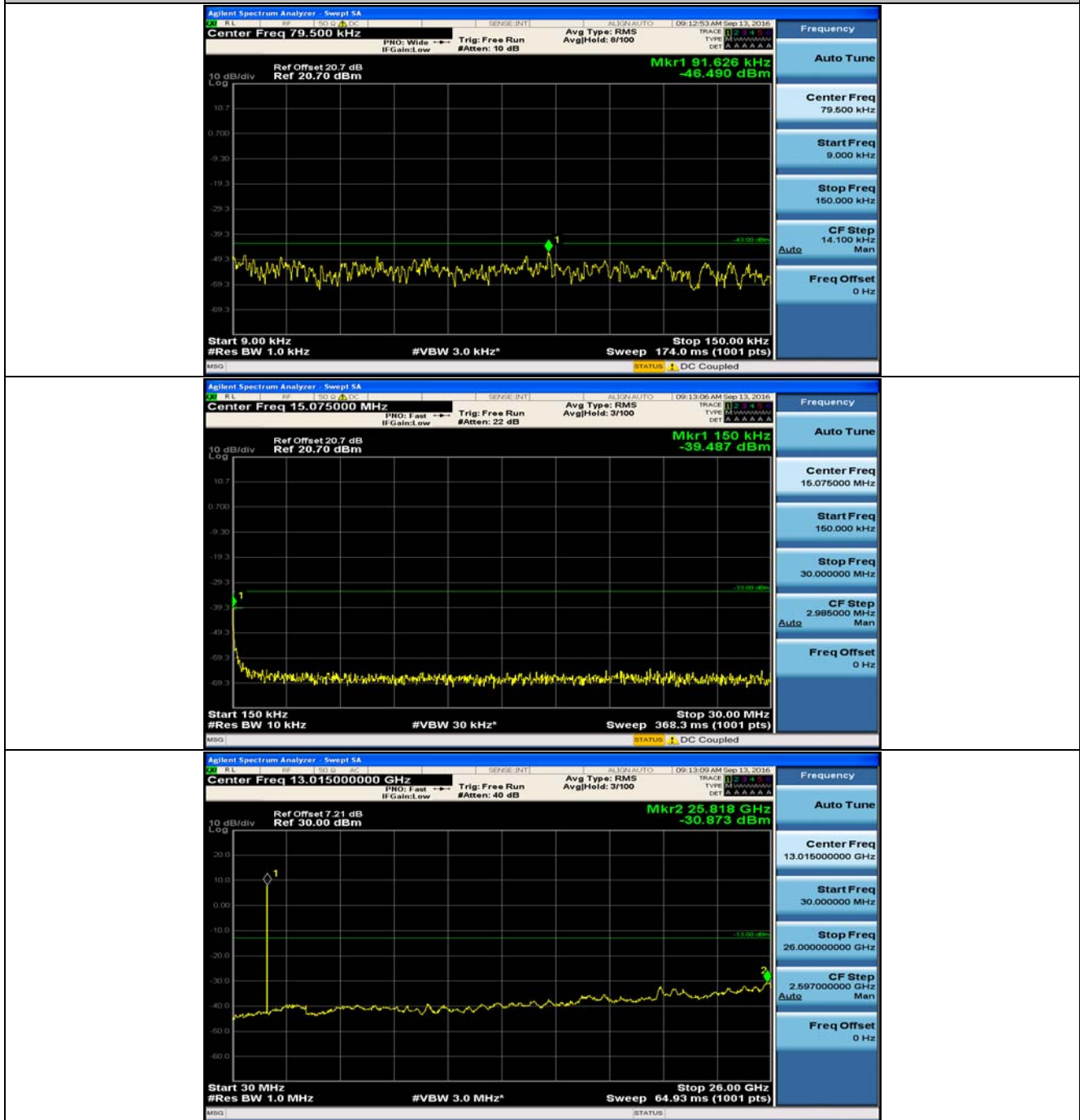


(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#0

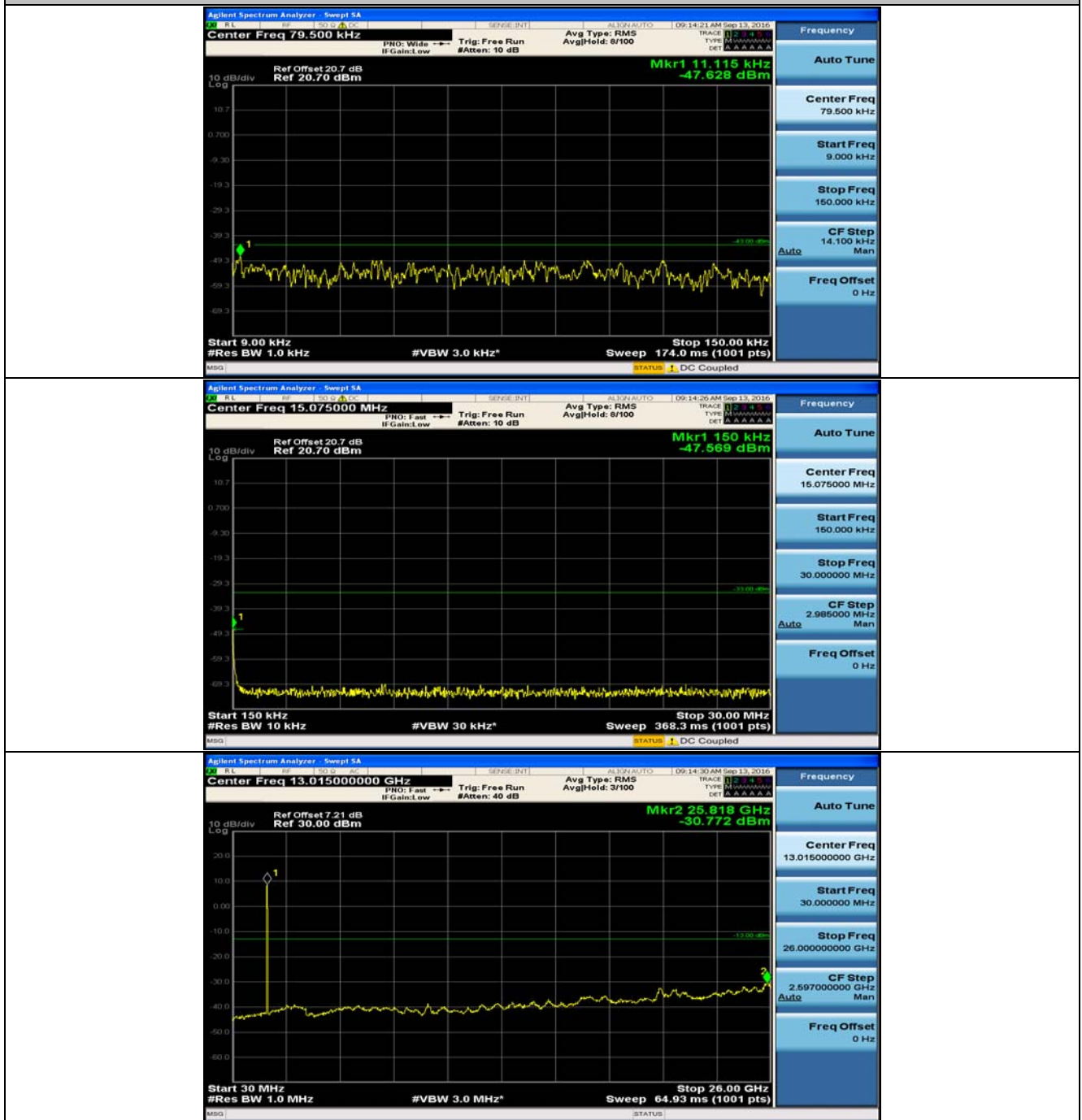


## Channel Bandwidth: 3 MHz

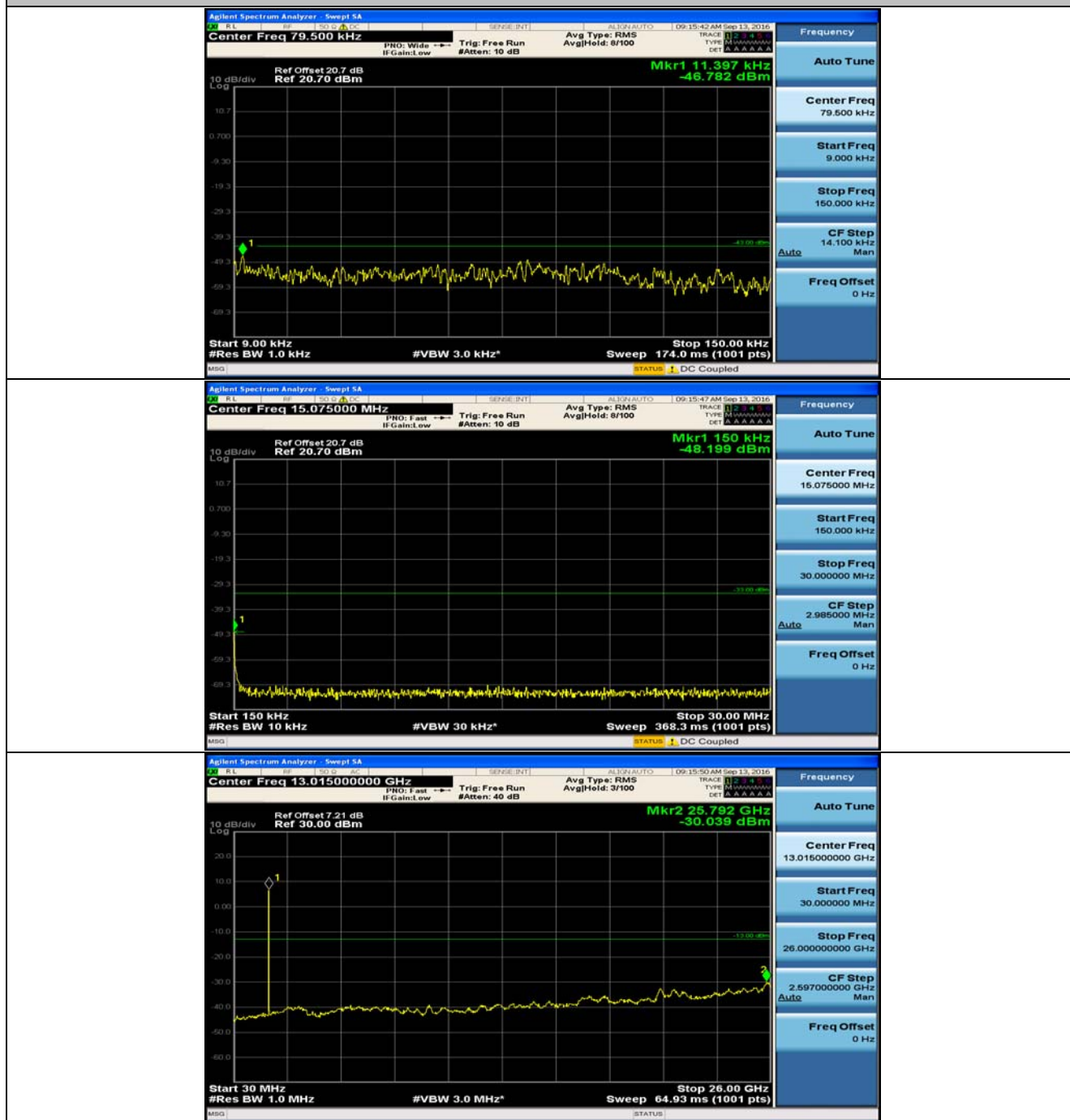
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_1RB#0



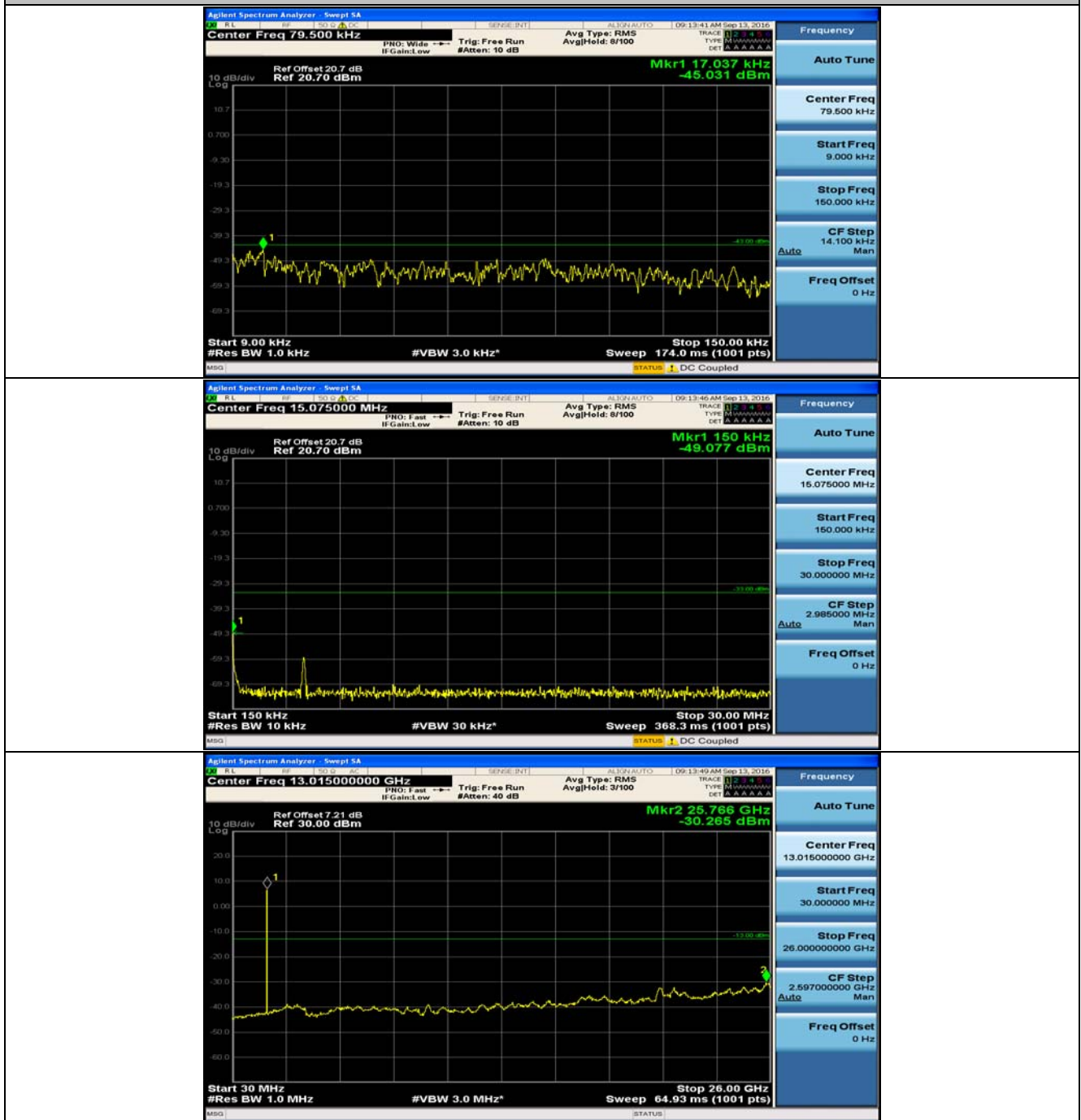
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#0



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

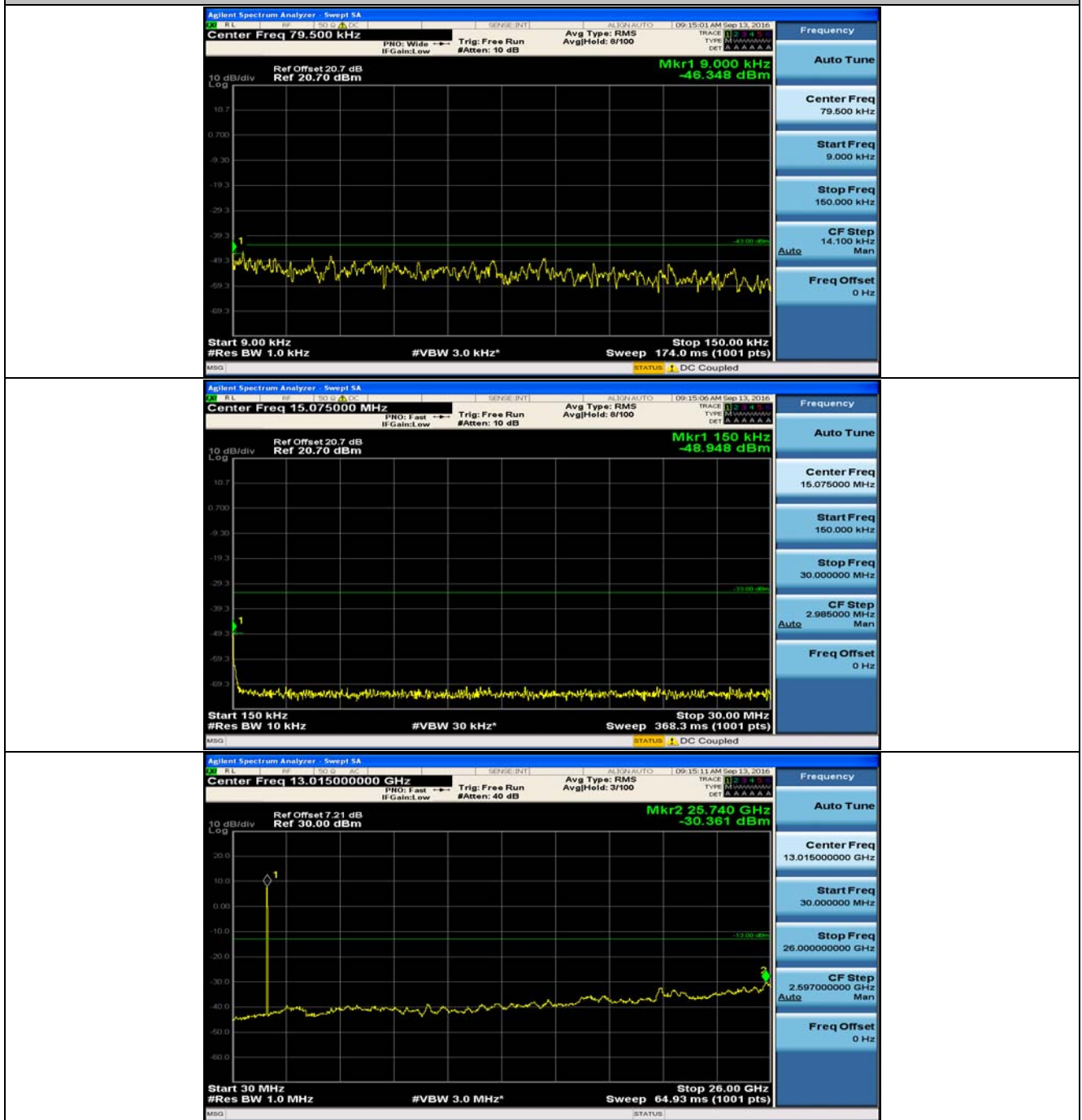


(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#0

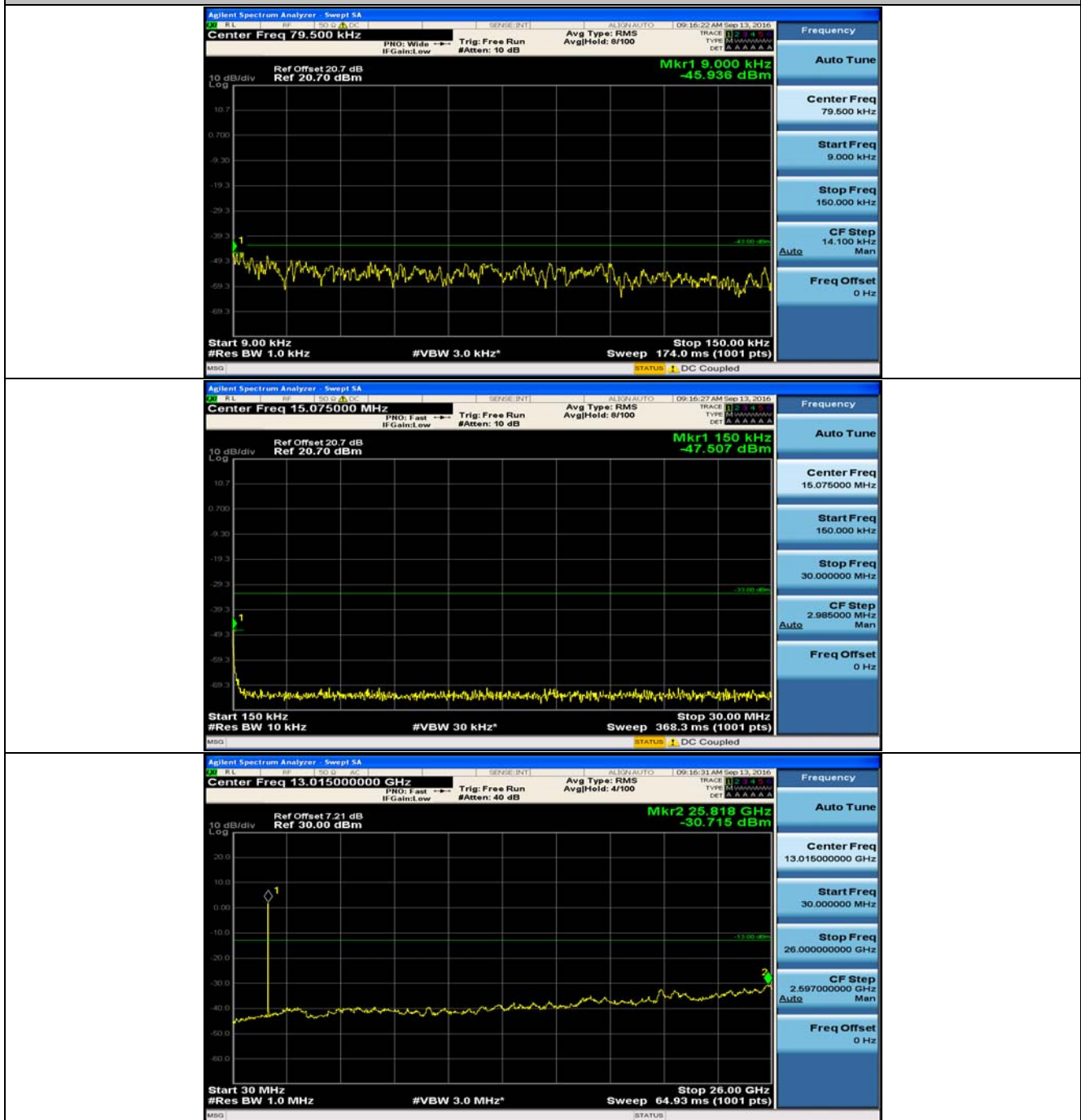




(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#0

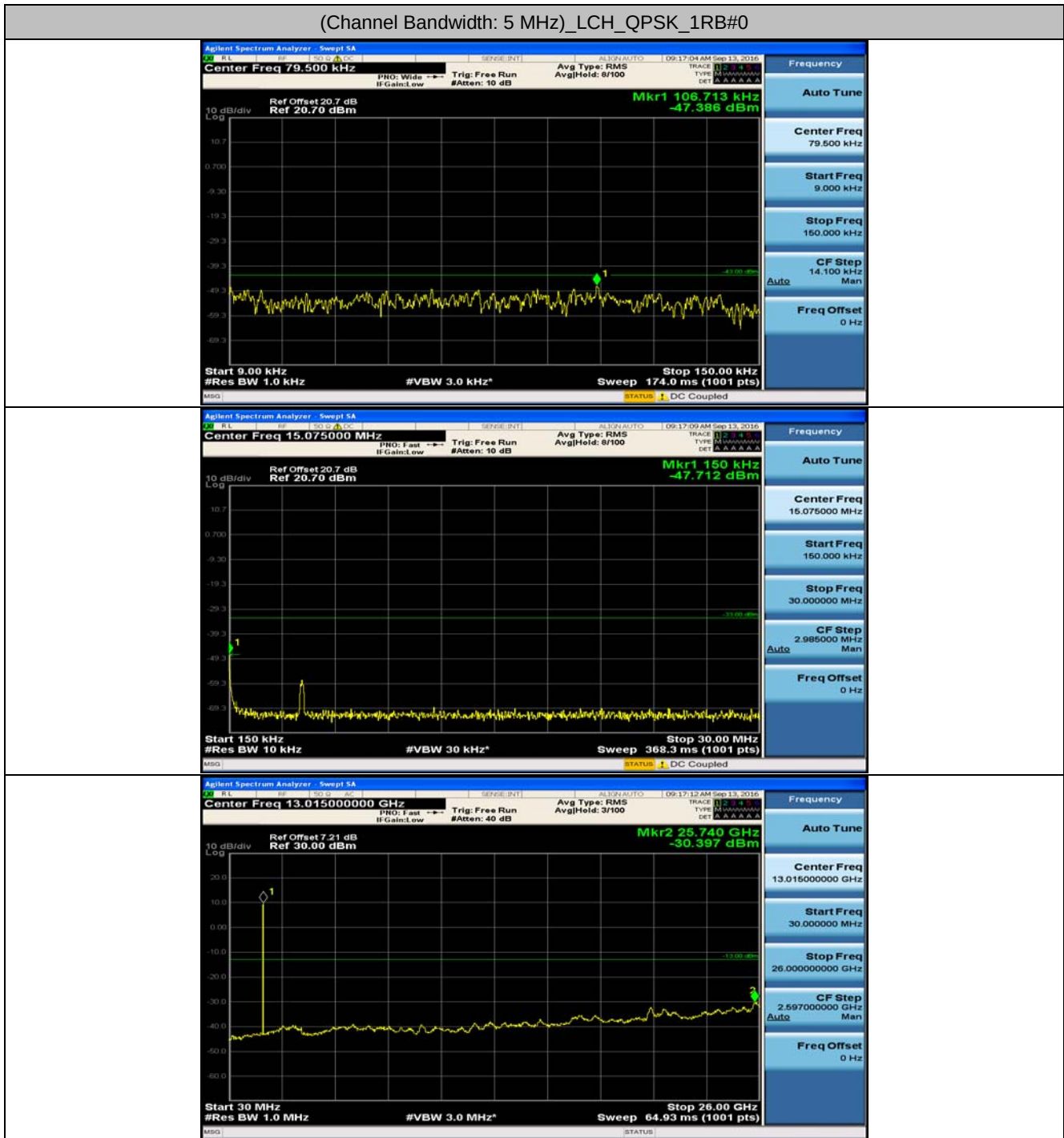


(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_1RB#0



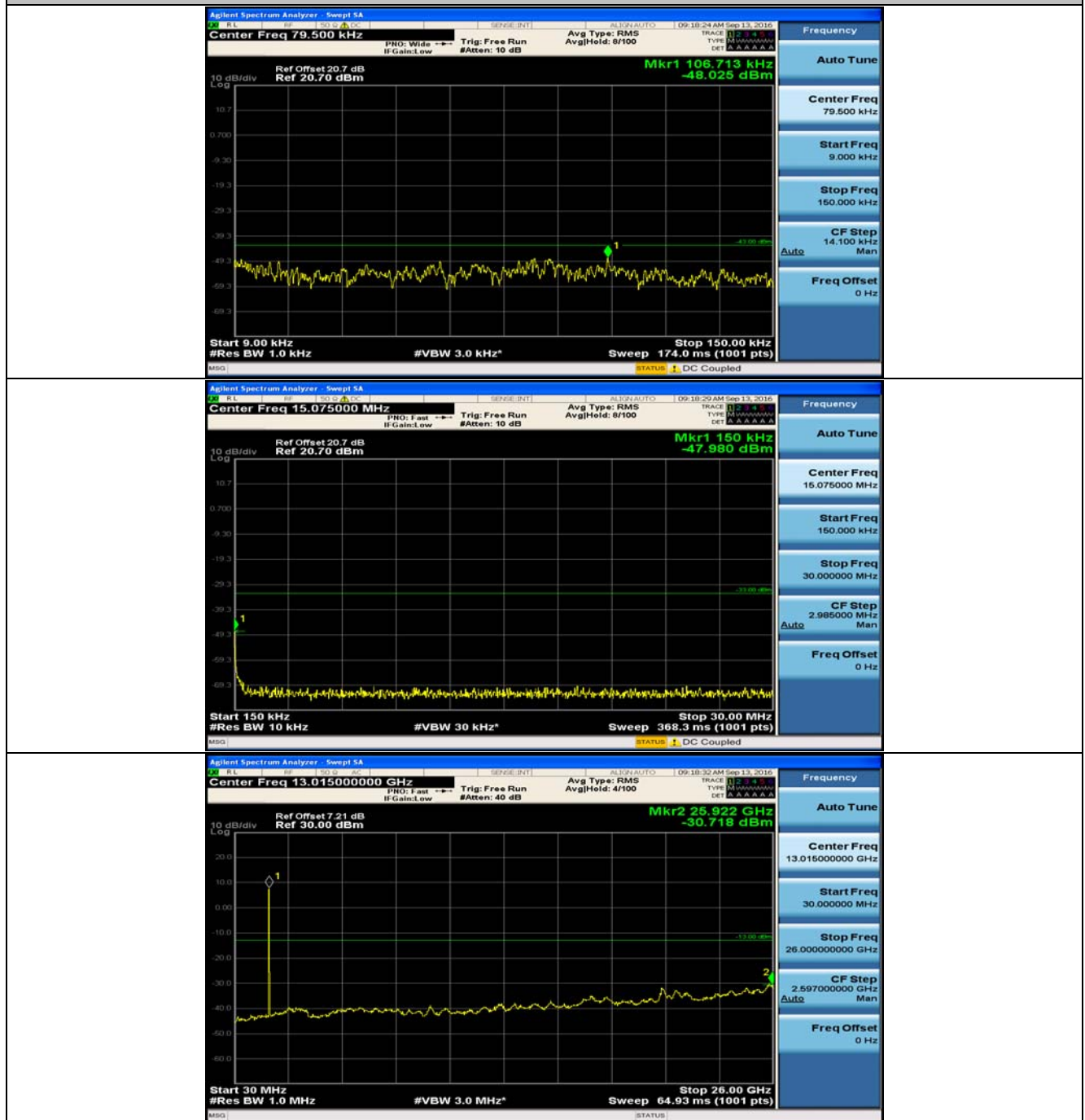
Channel Bandwidth: 5 MHz

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

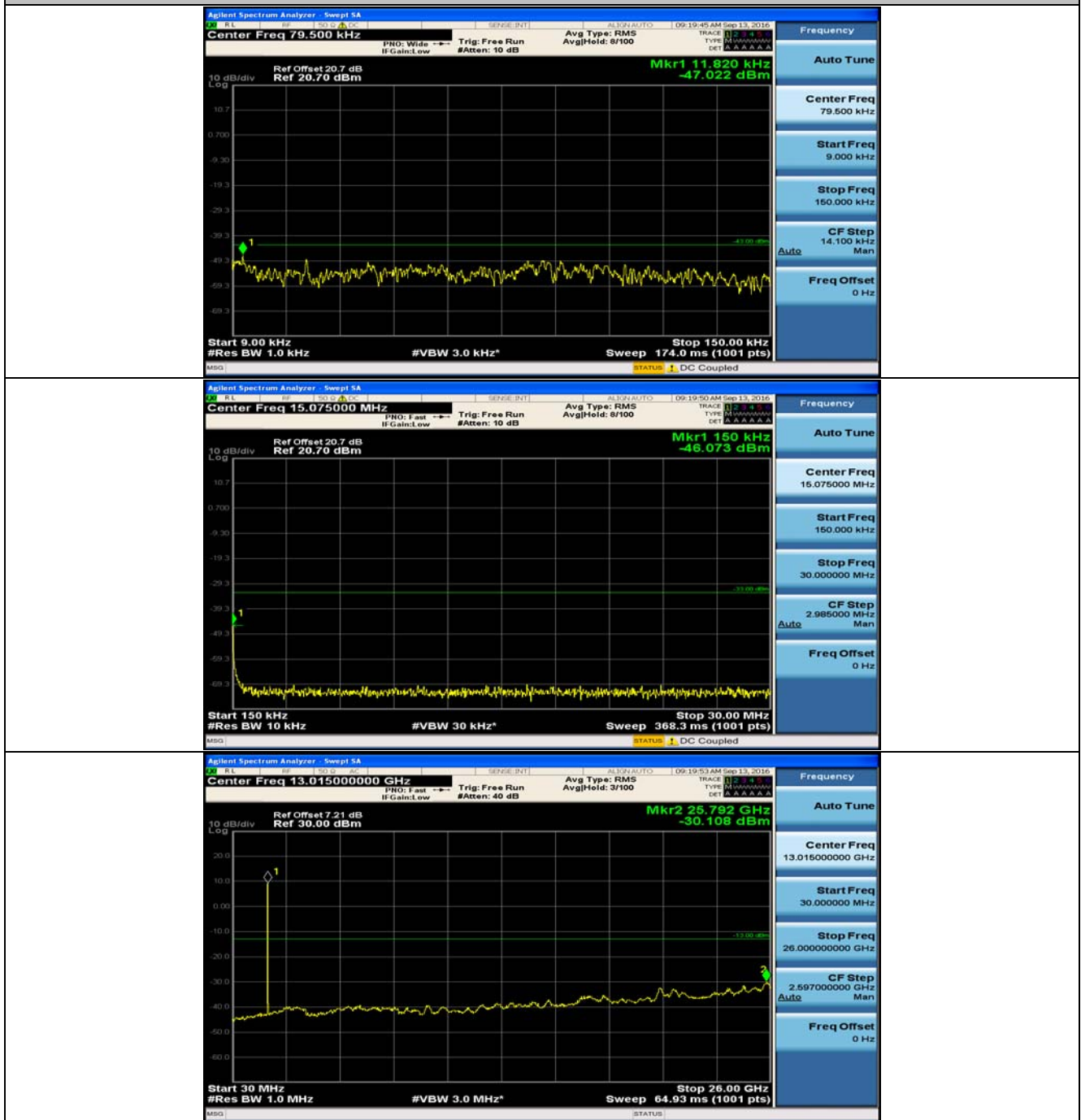




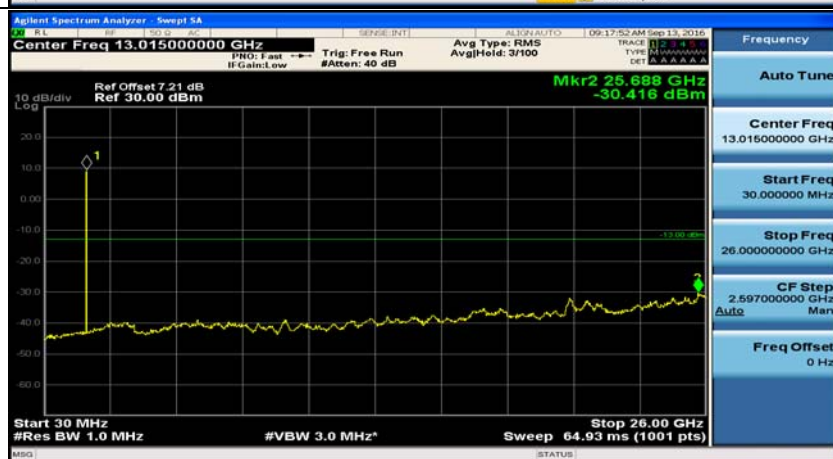
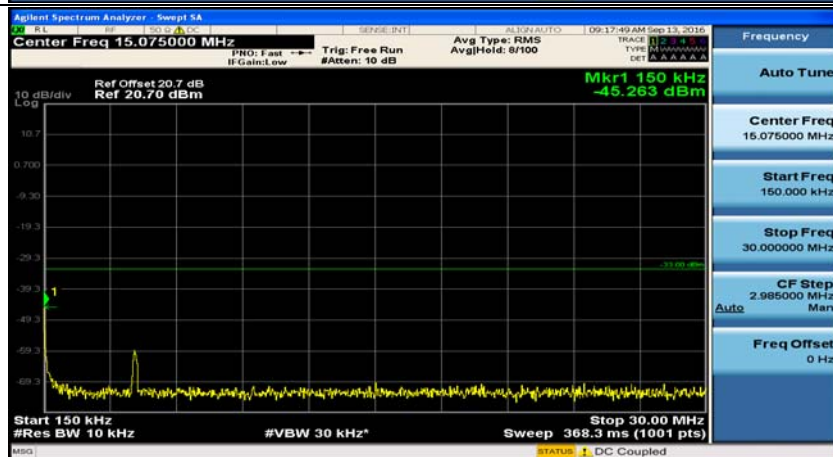
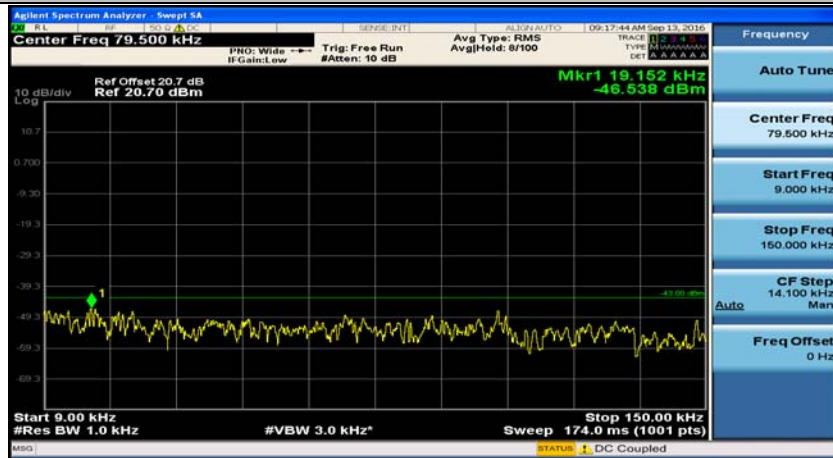
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0



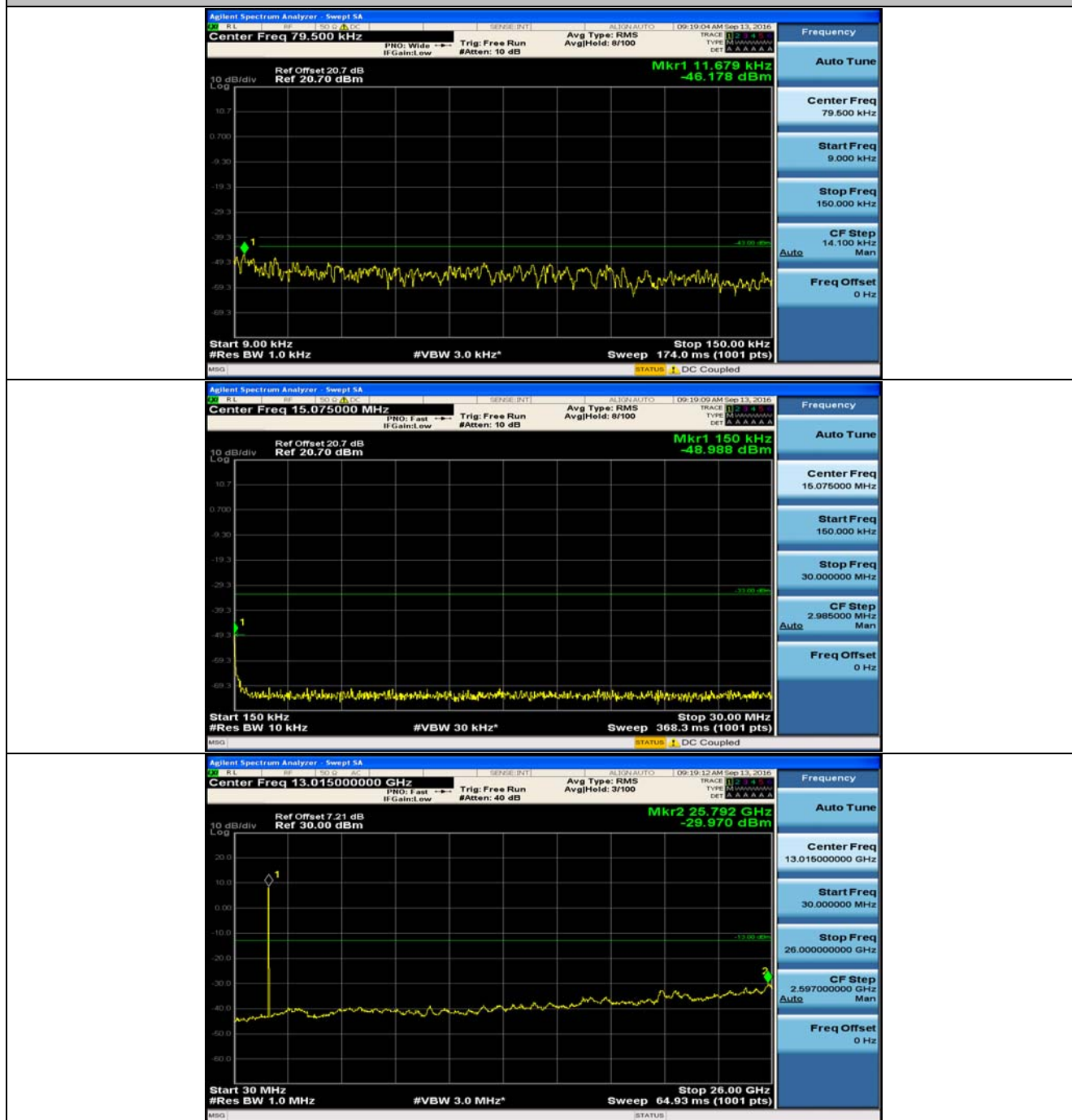
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0



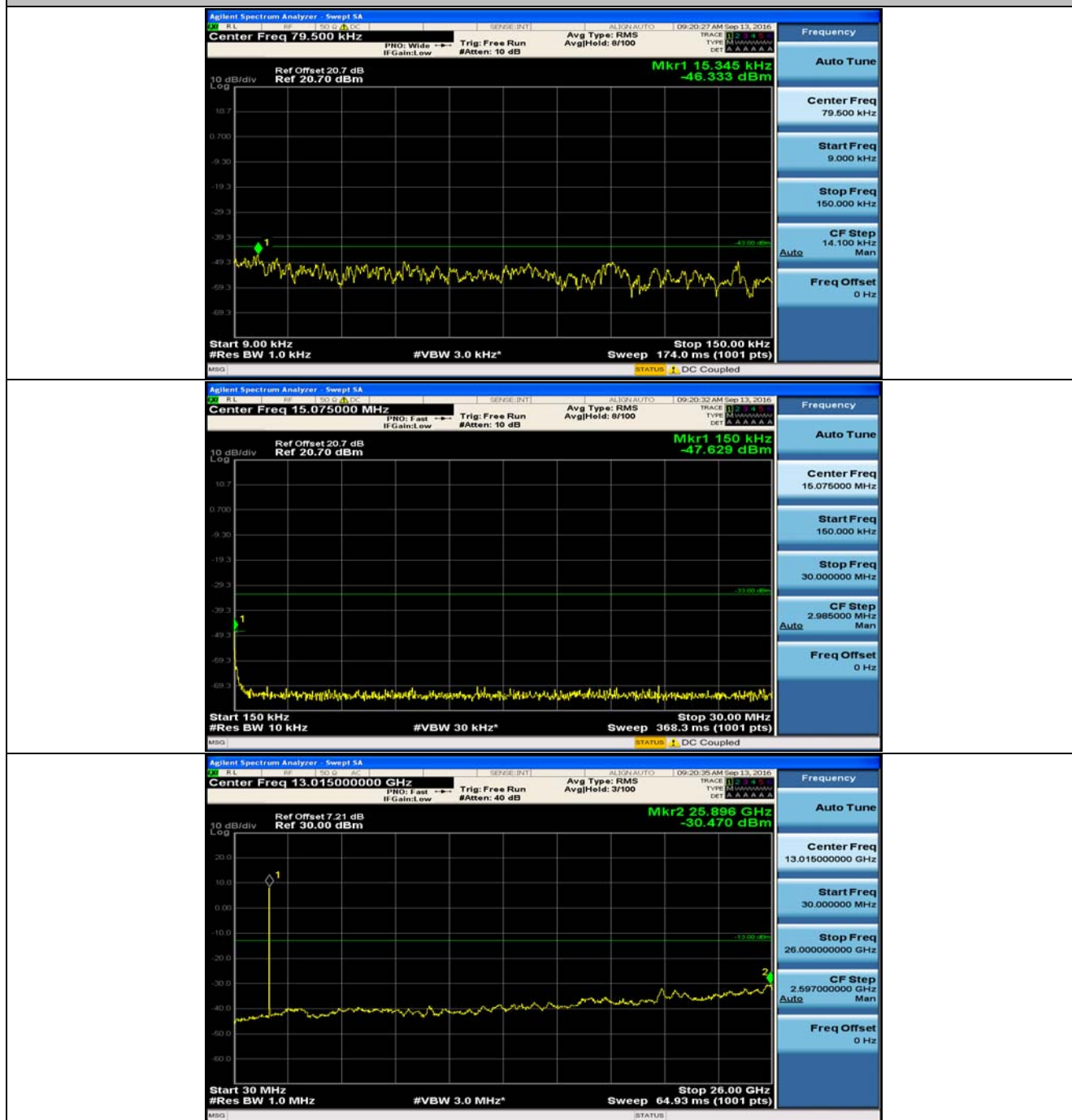
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0



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

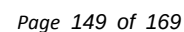


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0

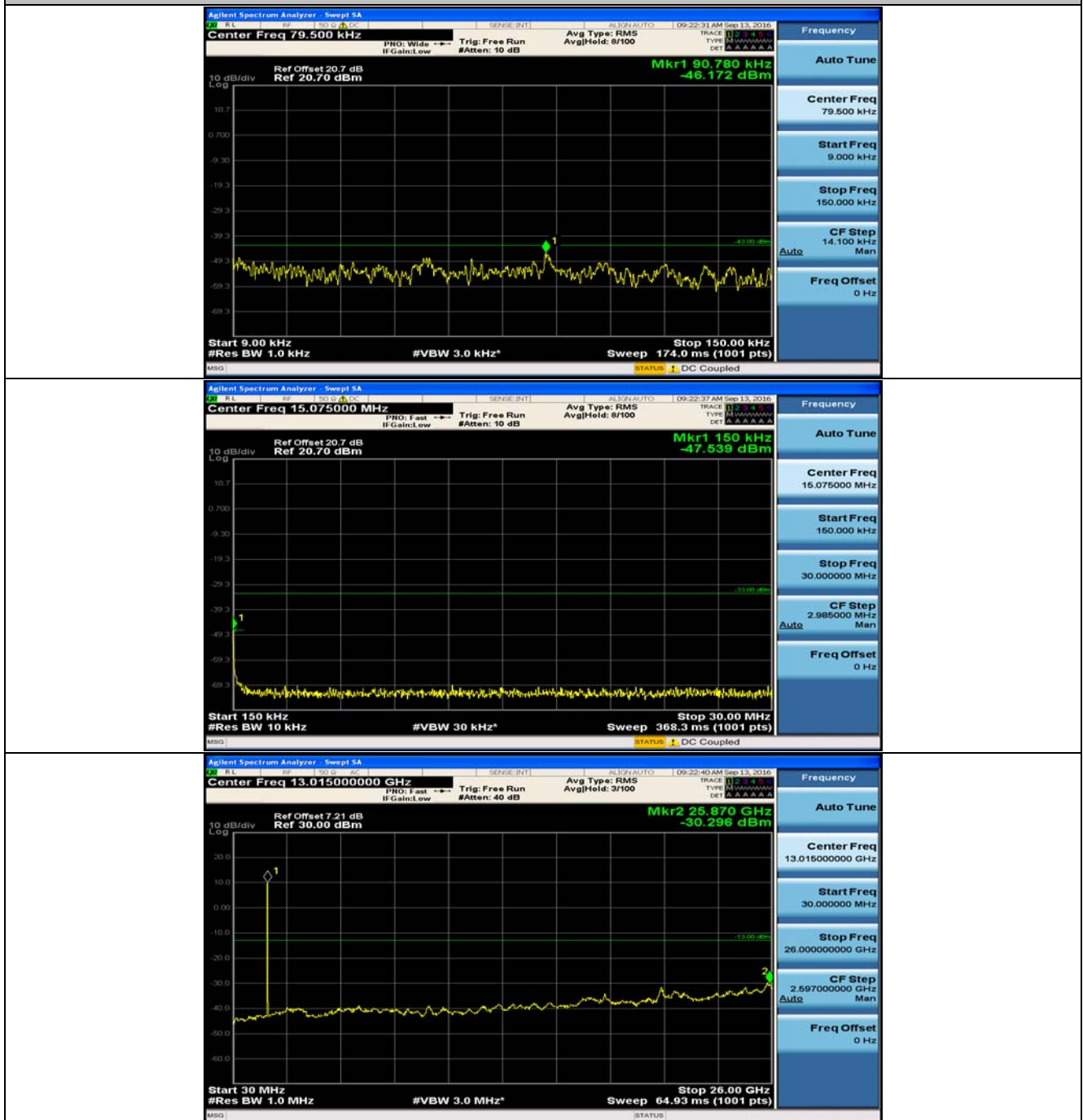




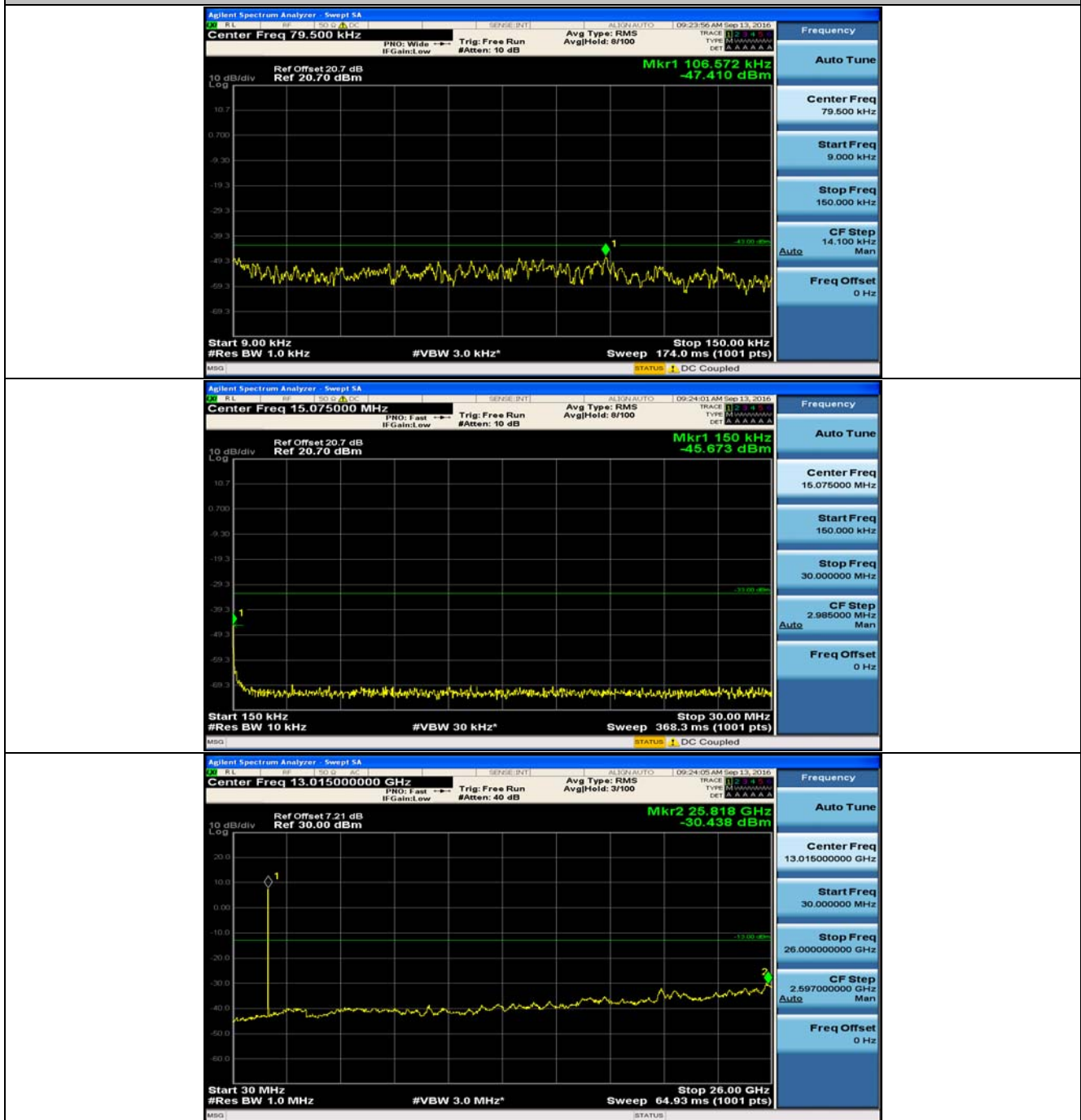
Channel Bandwidth: 10 MHz LCH QPSK 1RB#0



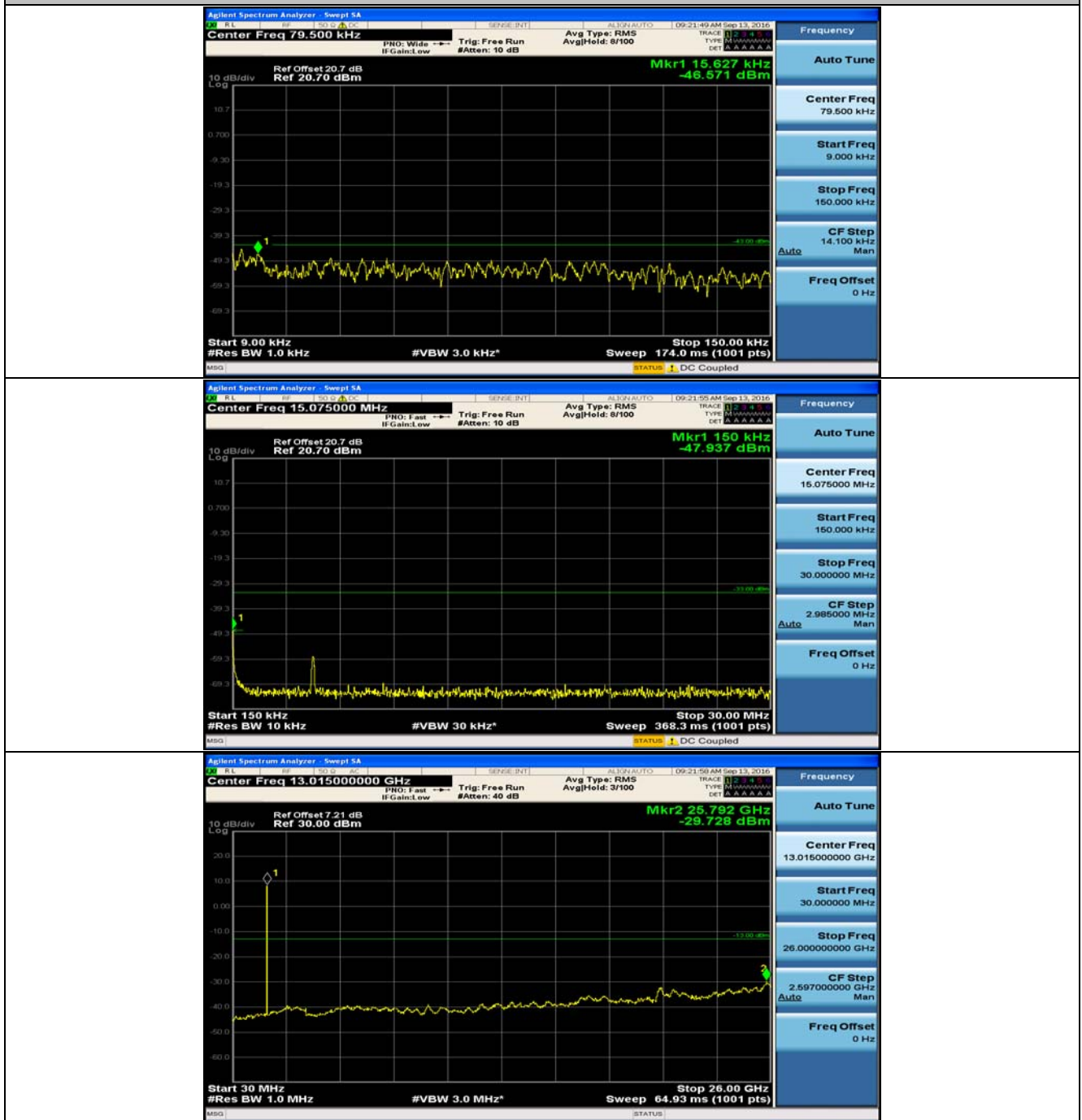
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#0



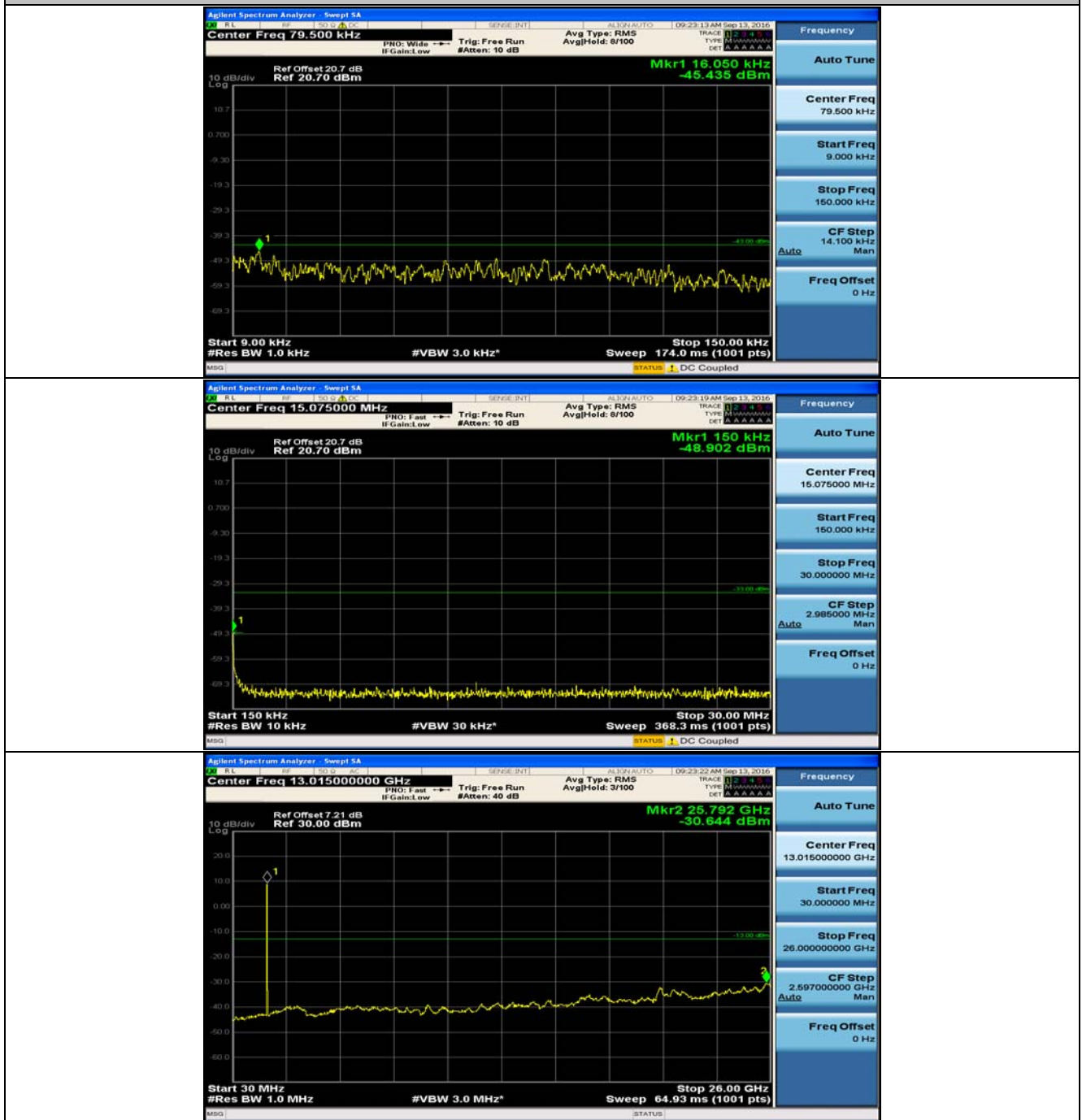
## Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#0



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

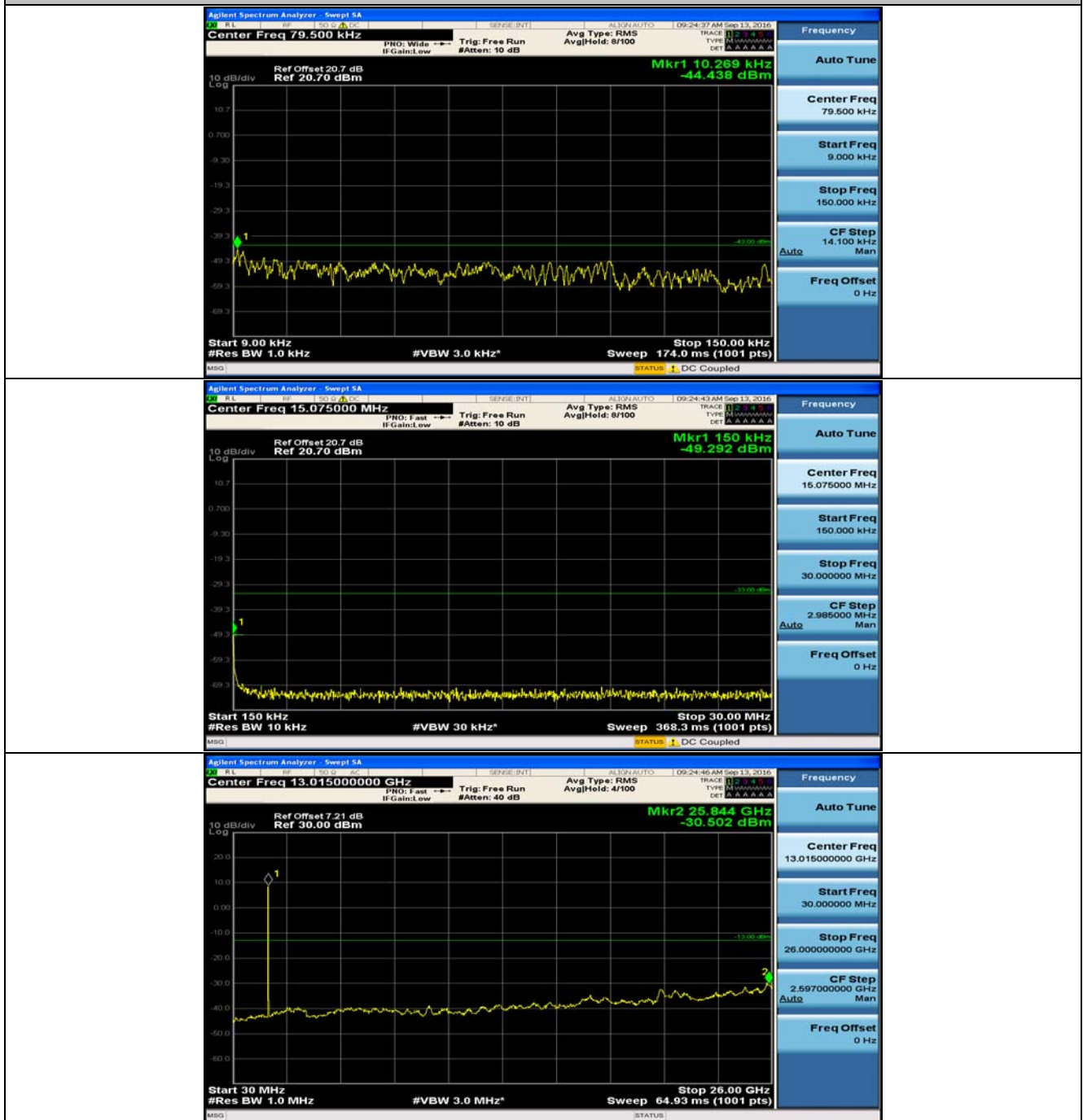


Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0



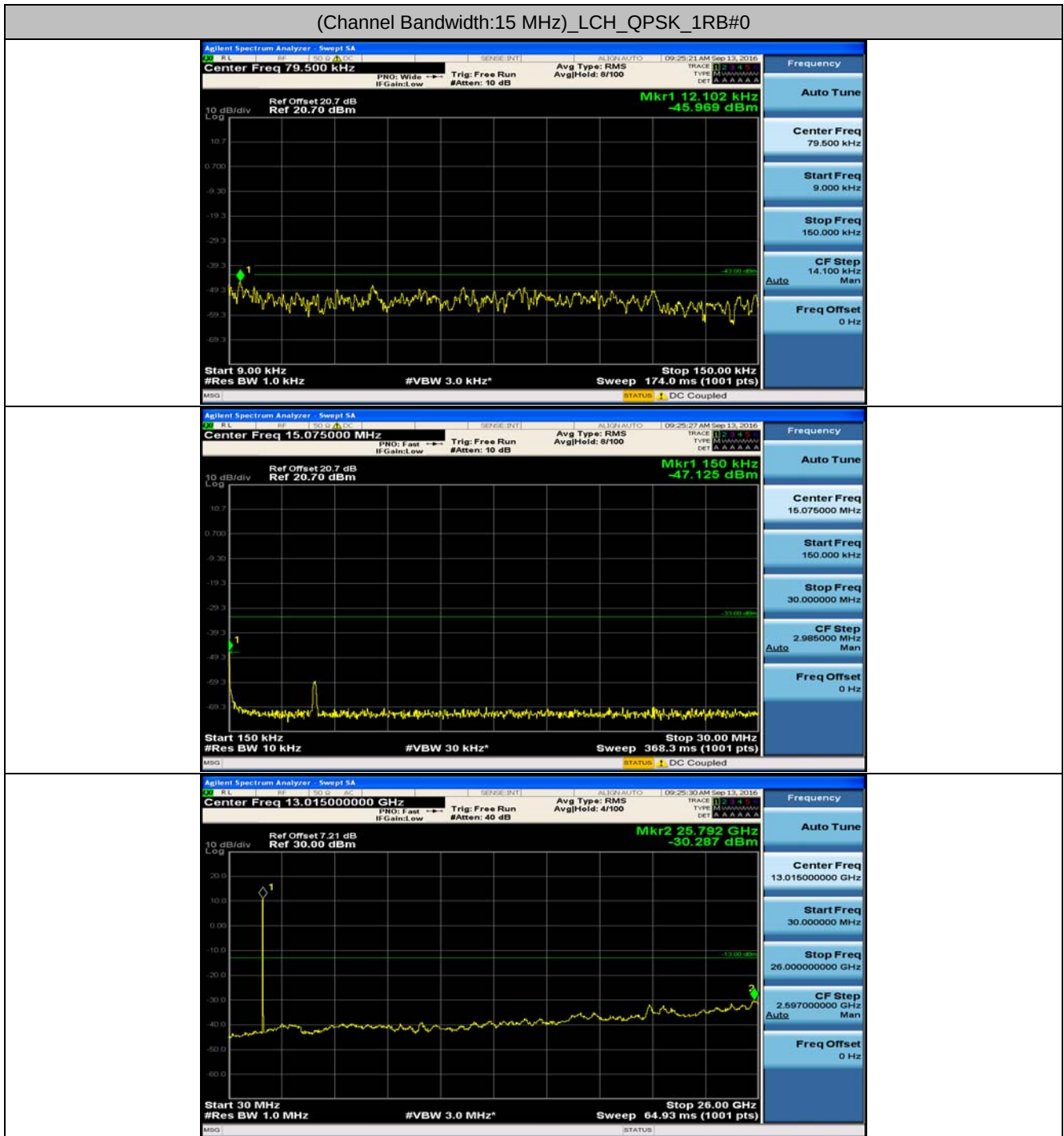


## Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0

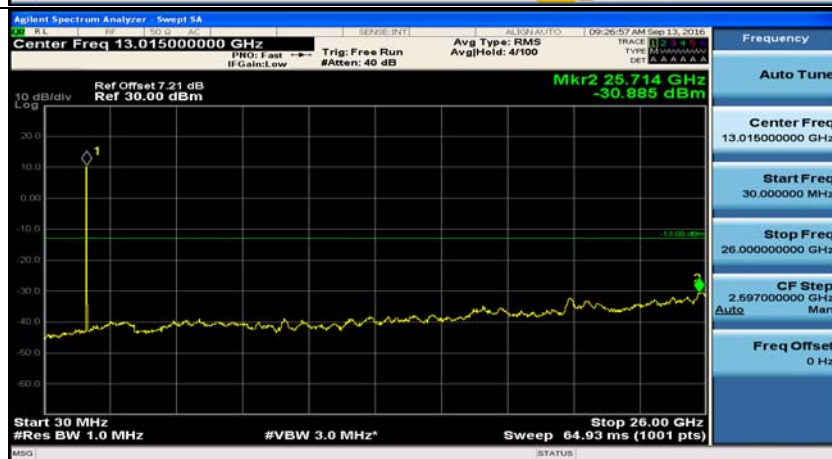
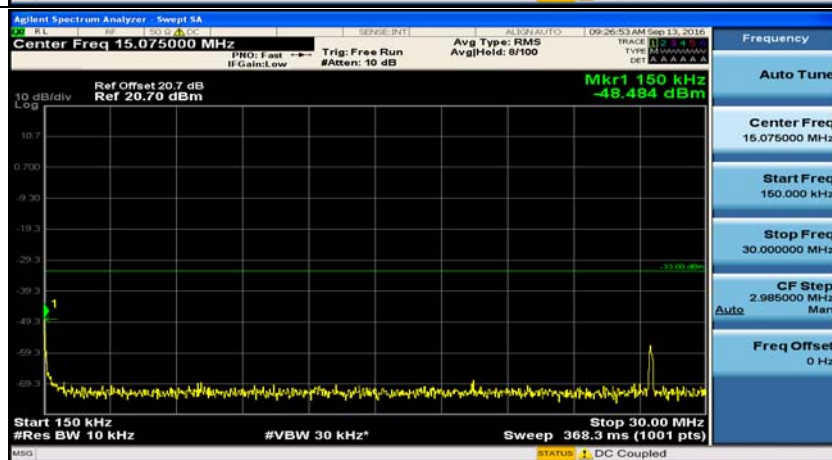
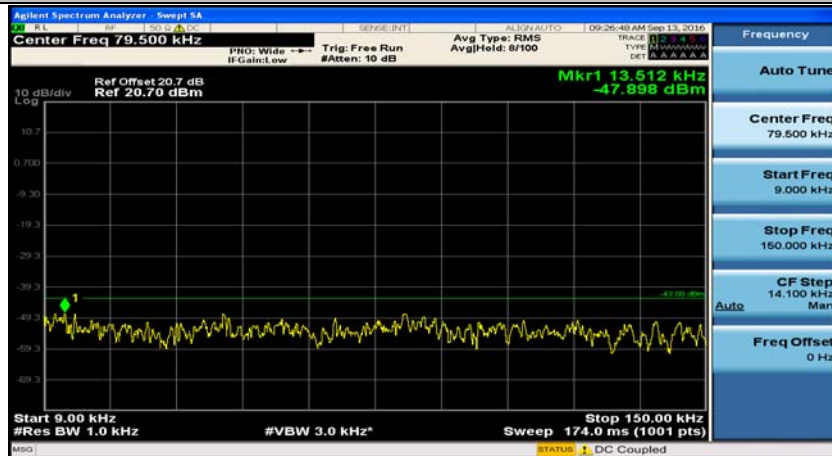


## Channel Bandwidth: 15 MHz

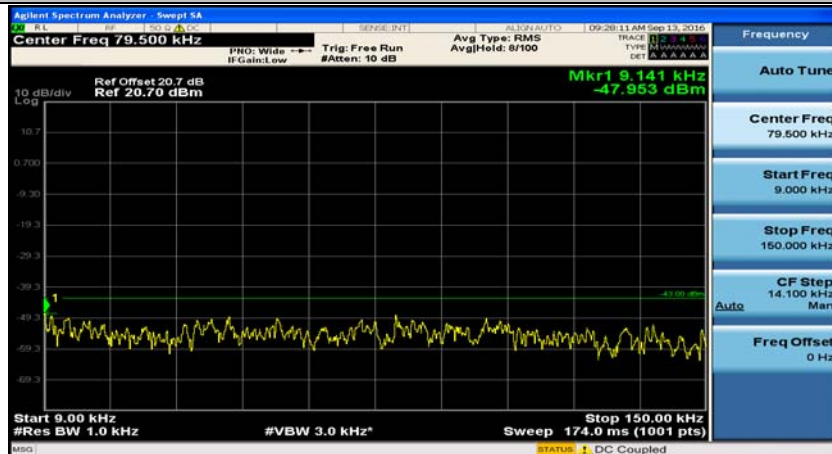
(Channel Bandwidth:15 MHz)\_LCH\_QPSK\_1RB#0



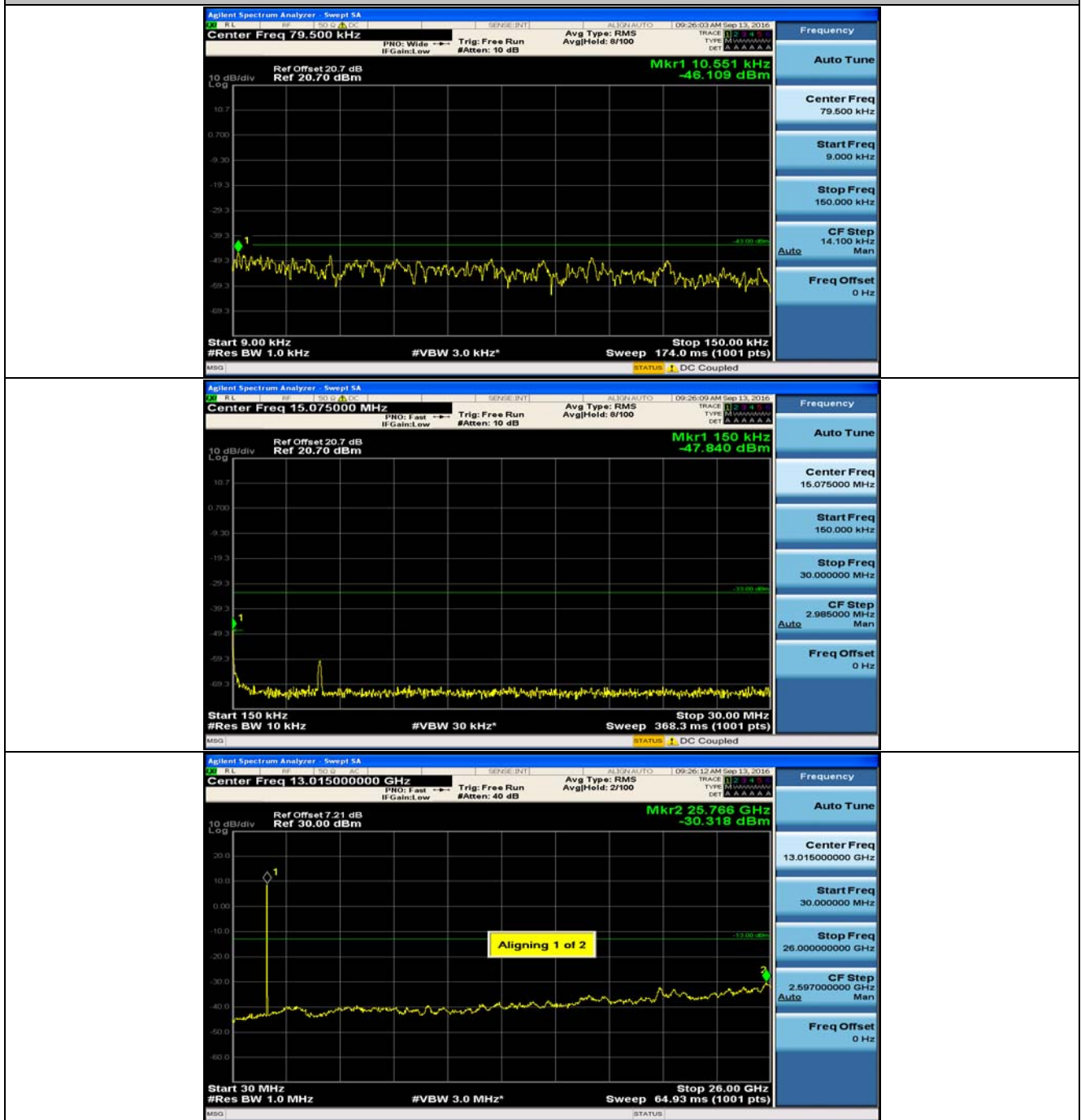
(Channel Bandwidth:15 MHz)\_MCH\_QPSK\_1RB#0



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

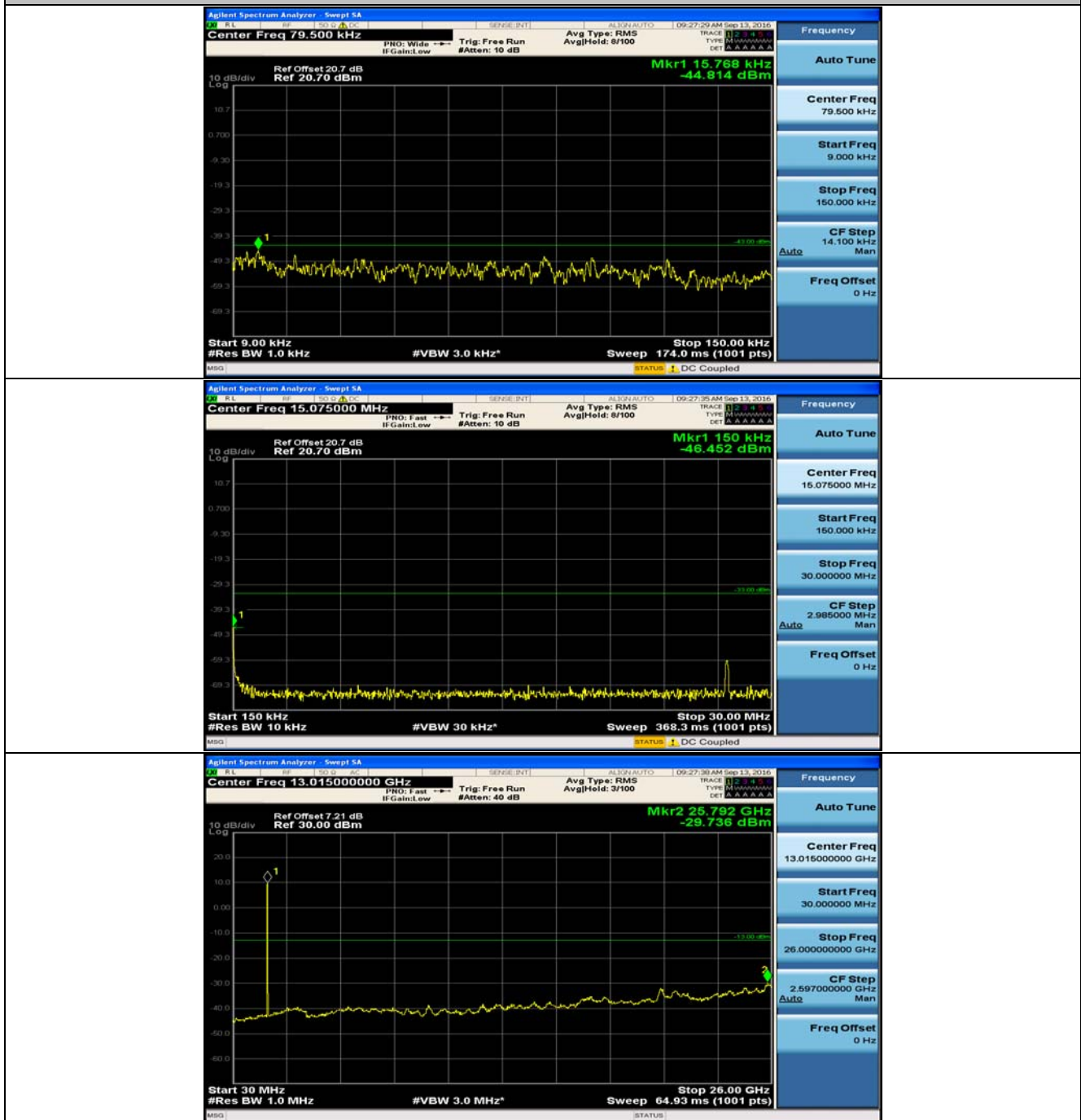


(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_1RB#0

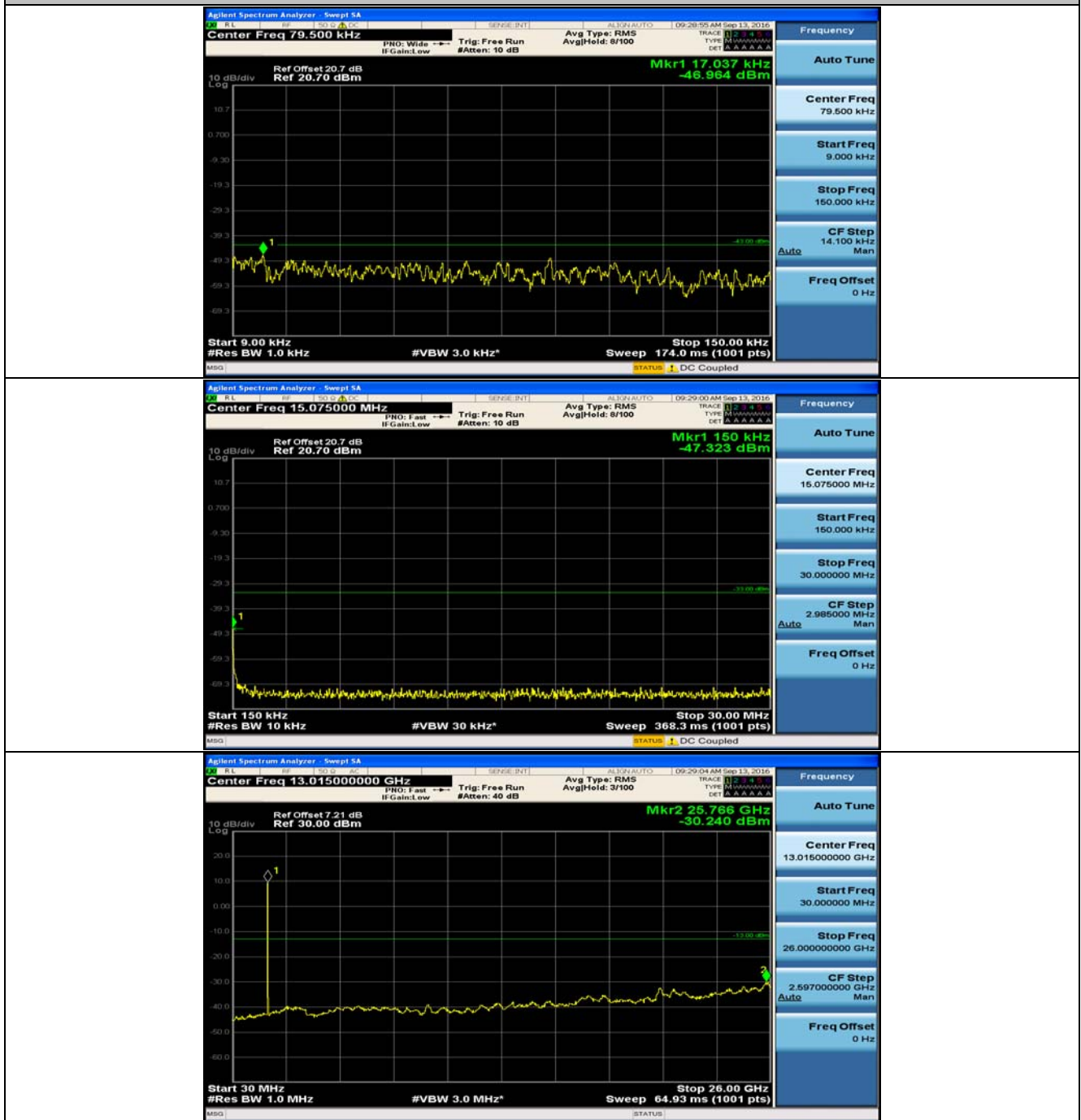




(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#0

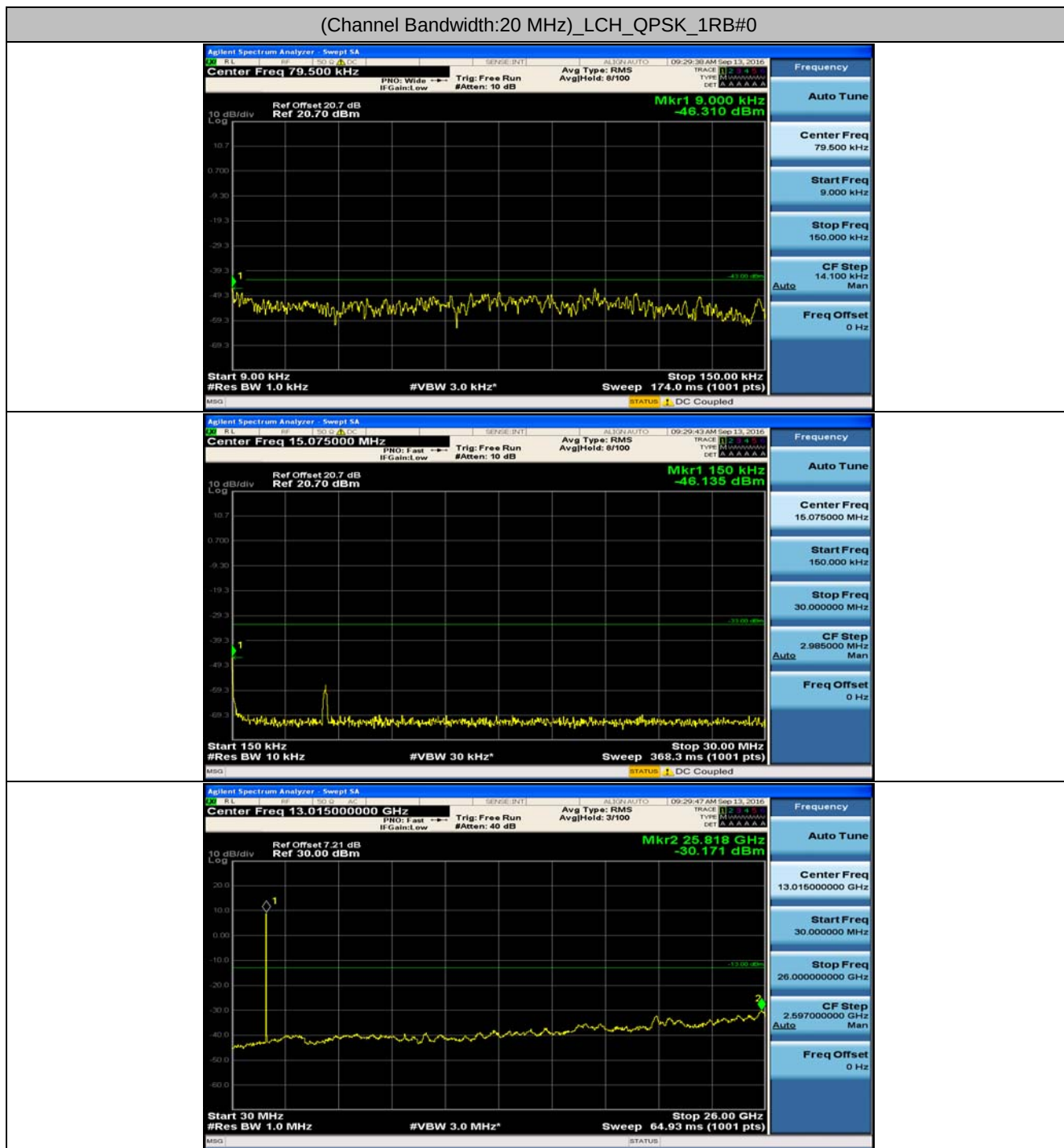


(Channel Bandwidth:15 MHz)\_HCH\_16QAM\_1RB#0

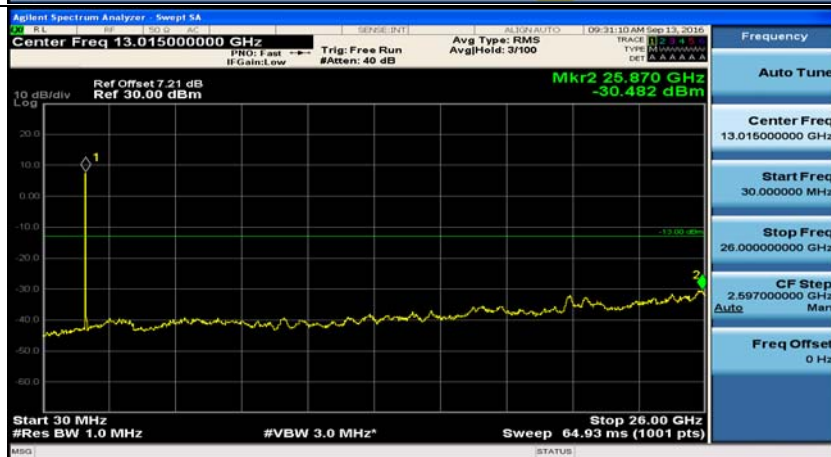
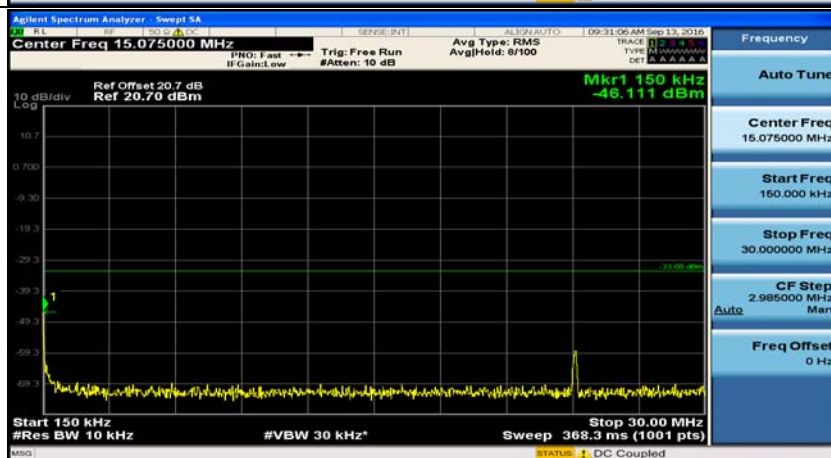
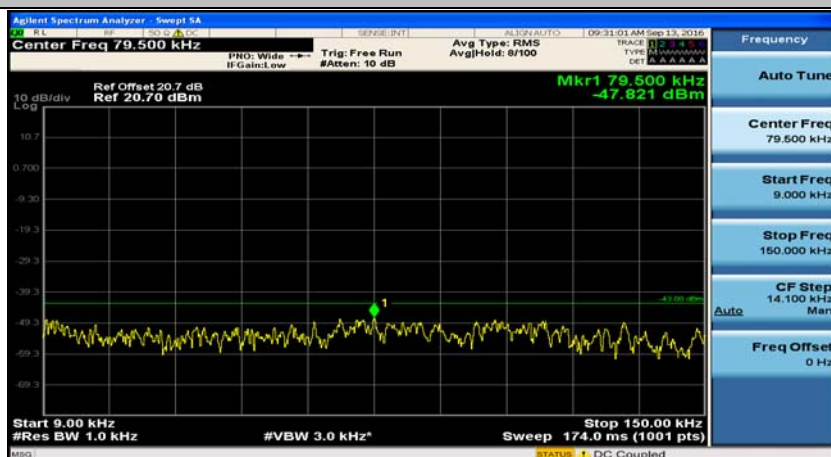


## Channel Bandwidth: 20 MHz

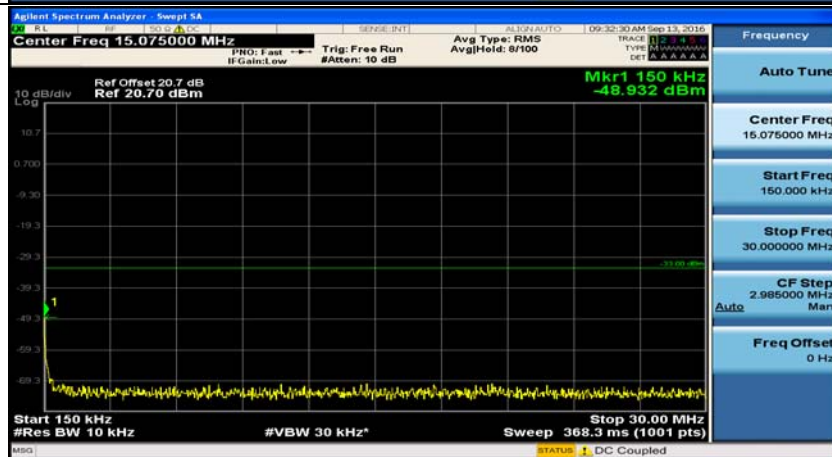
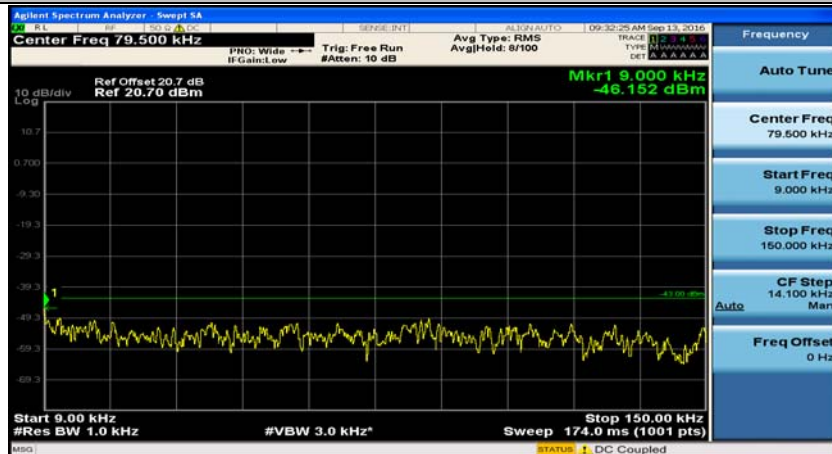
(Channel Bandwidth:20 MHz)\_LCH\_QPSK\_1RB#0



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

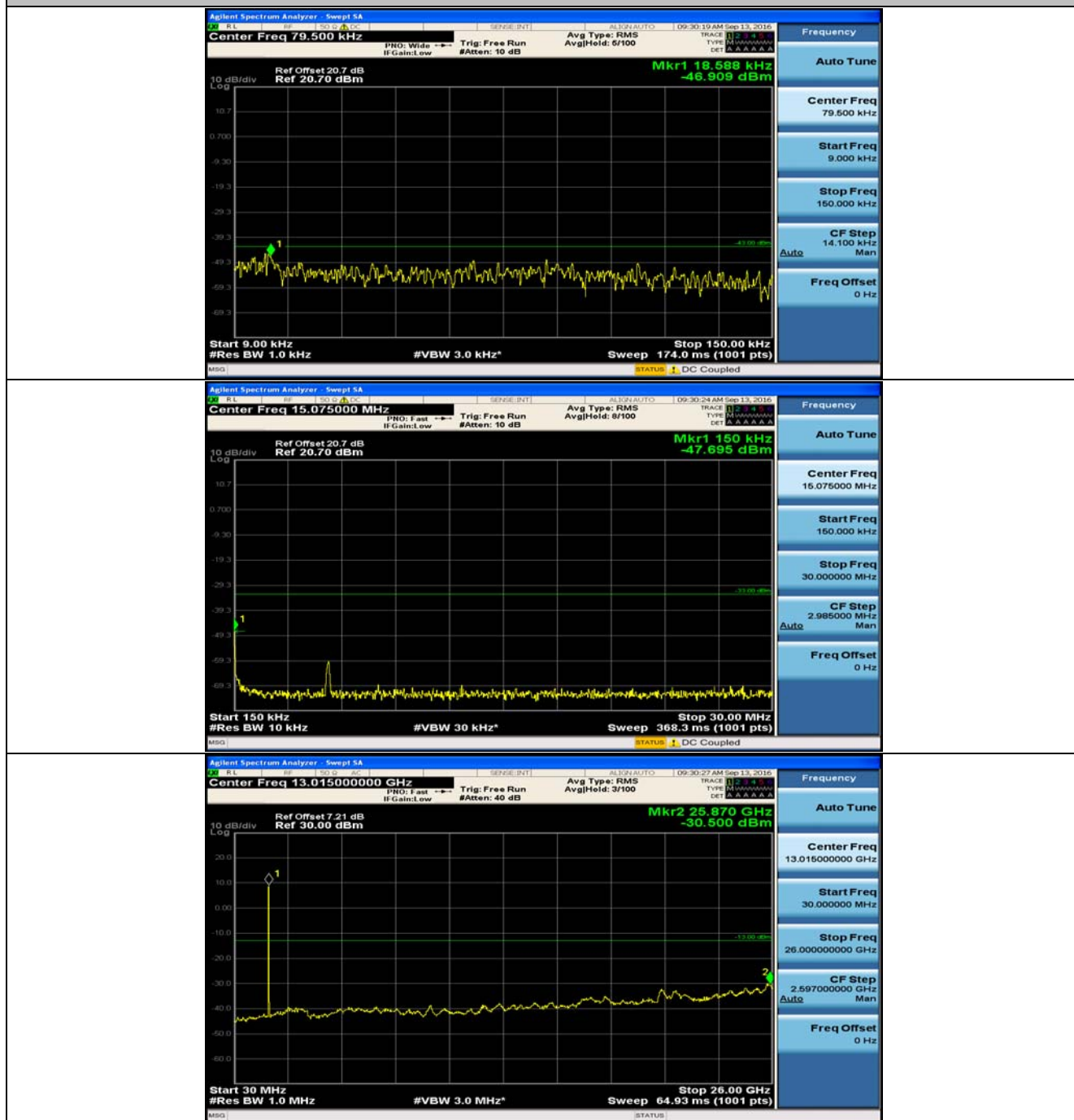


(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#0

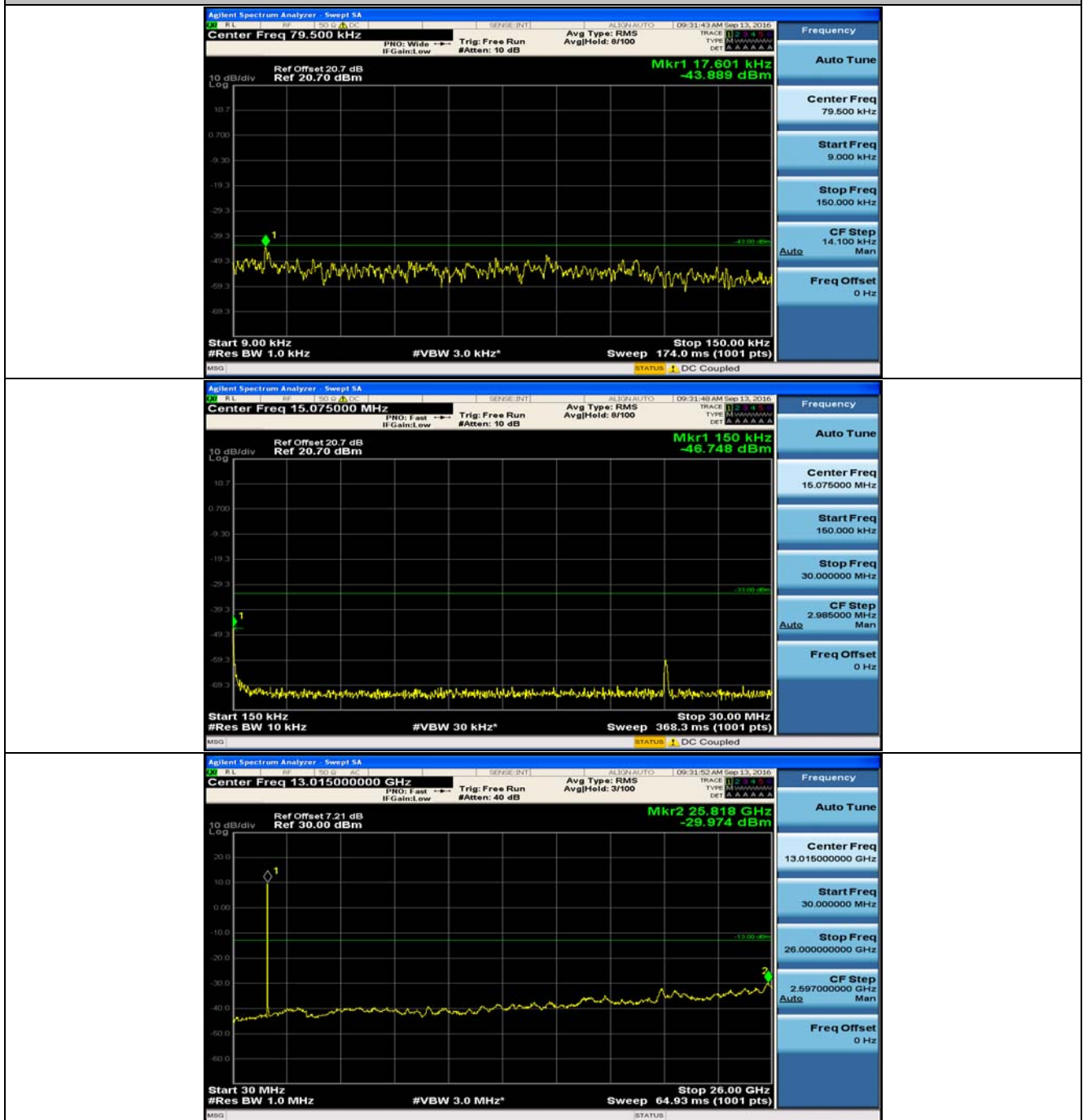




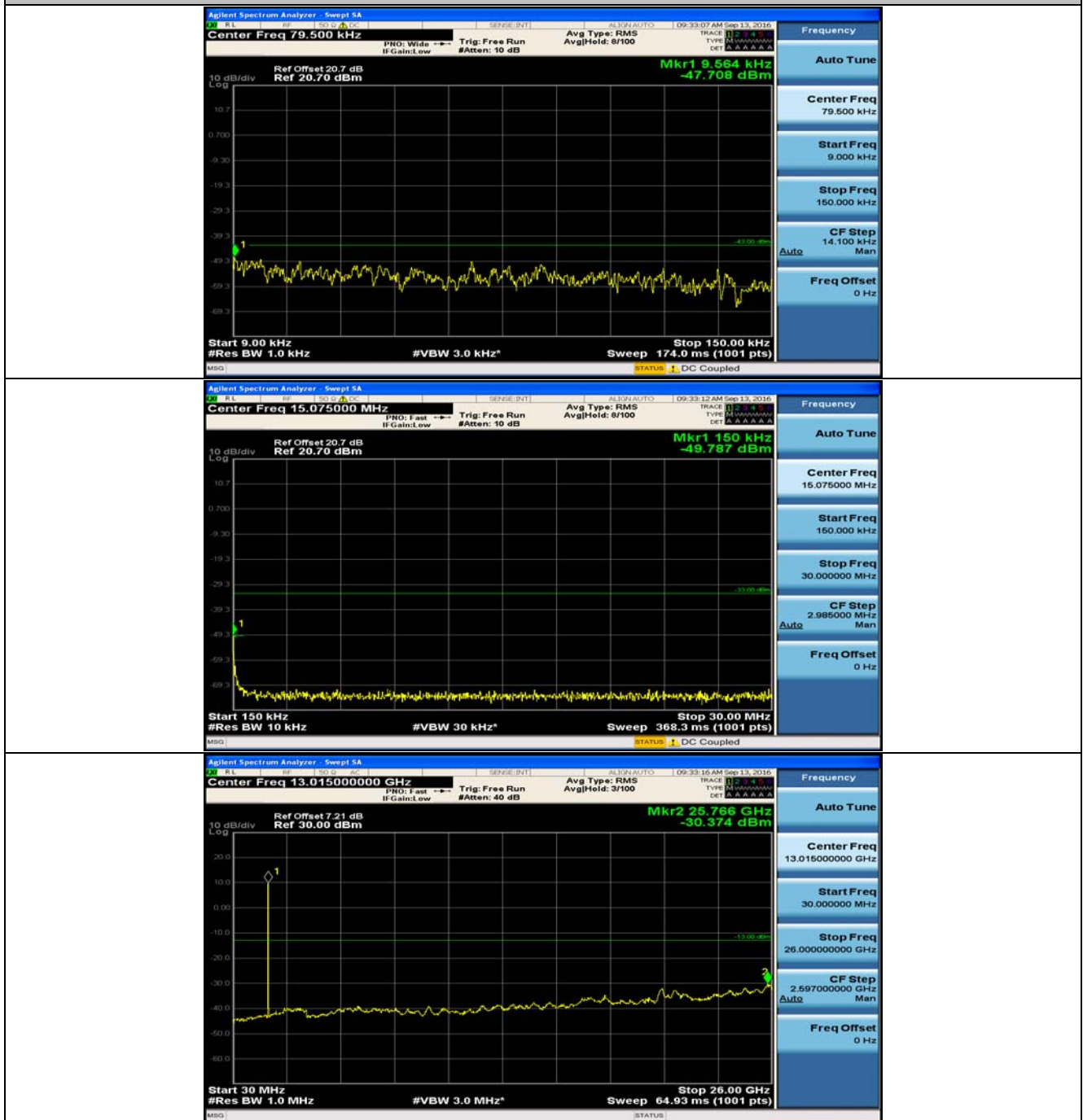
(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#0



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



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



## Frequency Stability

### Test Result

| Bandwidth (MHz) : |             | 10MHz           |                 | RB #:    | Full |
|-------------------|-------------|-----------------|-----------------|----------|------|
| Limit (ppm) :     |             | 2.5ppm          |                 | Channel: | MCH  |
| Temperature (°C)  | Voltage (V) | Modulation      |                 | Result   |      |
|                   |             | QPSK            | 16QAM           |          |      |
|                   |             | Deviation (ppm) | Deviation (ppm) |          |      |
| 50                | 3.7         | -0.024          | -0.030          | PASS     |      |
| 40                | 3.7         | +0.019          | +0.028          |          |      |
| 30                | 3.7         | +0.015          | +0.019          |          |      |
| 20                | 3.7         | +0.011          | +0.014          |          |      |
| 10                | 3.7         | +0.017          | +0.021          |          |      |
| 0                 | 3.7         | +0.022          | +0.027          |          |      |
| -10               | 3.7         | -0.026          | -0.022          |          |      |
| -20               | 3.7         | -0.033          | -0.029          |          |      |
| -30               | 3.7         | +0.031          | +0.035          |          |      |
| 20                | 4.2         | +0.018          | +0.022          | PASS     |      |
| 20                | 3.5         | -0.016          | -0.019          | PASS     |      |

Note: All bandwidth and modulation are tested, only the worst result is reported.

## Field Strength of Spurious Radiation Measurement

### Test Result

| <b>Bandwidth:</b>  | <b>1.4M</b>                                                                      |             | <b>Test channel:</b>      | <b>Lowest</b>  |
|--------------------|----------------------------------------------------------------------------------|-------------|---------------------------|----------------|
| <b>Modulation:</b> | <b>QPSK</b>                                                                      |             | <b>Temperature :</b>      | <b>23~24°C</b> |
| <b>RB #:</b>       | <b>1</b>                                                                         |             | <b>Relative Humidity:</b> | <b>46~48%</b>  |
| <b>Note:</b>       | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |             |                           |                |
| Frequency (MHz)    | Spurious Emission                                                                |             | Limit (dBm)               | Result         |
|                    | Polarization                                                                     | Level (dBm) |                           |                |
| 3421.4             | Vertical                                                                         | -49.19      | -13.00                    | PASS           |
| 5132.1             | V                                                                                | -54.55      |                           |                |
| -                  | V                                                                                | -           |                           |                |
| 3421.4             | Horizontal                                                                       | -50.27      |                           |                |
| 5132.1             | H                                                                                | -53.46      |                           |                |
| -                  | H                                                                                | -           |                           |                |
| <b>Bandwidth:</b>  | <b>1.4M</b>                                                                      |             | <b>Test channel:</b>      | <b>Middle</b>  |
| <b>Modulation:</b> | <b>QPSK</b>                                                                      |             | <b>Temperature :</b>      | <b>23~24°C</b> |
| <b>RB #:</b>       | <b>1</b>                                                                         |             | <b>Relative Humidity:</b> | <b>46~48%</b>  |
| <b>Note:</b>       | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |             |                           |                |
| Frequency (MHz)    | Spurious Emission                                                                |             | Limit (dBm)               | Result         |
|                    | Polarization                                                                     | Level (dBm) |                           |                |
| 3465.0             | Vertical                                                                         | -51.01      | -13.00                    | PASS           |
| 5197.5             | V                                                                                | -55.28      |                           |                |
| -                  | V                                                                                | -           |                           |                |
| 3465.0             | Horizontal                                                                       | -49.37      |                           |                |
| 5197.5             | H                                                                                | -54.46      |                           |                |
| -                  | H                                                                                | -           |                           |                |
| <b>Bandwidth:</b>  | <b>1.4M</b>                                                                      |             | <b>Test channel:</b>      | <b>Highest</b> |
| <b>Modulation:</b> | <b>QPSK</b>                                                                      |             | <b>Temperature :</b>      | <b>23~24°C</b> |
| <b>RB #:</b>       | <b>1</b>                                                                         |             | <b>Relative Humidity:</b> | <b>46~48%</b>  |
| <b>Note:</b>       | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |             |                           |                |
| Frequency (MHz)    | Spurious Emission                                                                |             | Limit (dBm)               | Result         |
|                    | Polarization                                                                     | Level (dBm) |                           |                |
| 3508.6             | Vertical                                                                         | -51.15      | -13.00                    | PASS           |
| 5262.9             | V                                                                                | -54.72      |                           |                |
| -                  | V                                                                                | -           |                           |                |
| 3508.6             | Horizontal                                                                       | -52.28      |                           |                |
| 5262.9             | H                                                                                | -55.41      |                           |                |
| -                  | H                                                                                | -           |                           |                |



| <b>Bandwidth:</b>  | <b>1.4M</b>                                                                      |             | <b>Test channel:</b>      | <b>Lowest</b>  |
|--------------------|----------------------------------------------------------------------------------|-------------|---------------------------|----------------|
| <b>Modulation:</b> | <b>16QAM</b>                                                                     |             | <b>Temperature :</b>      | <b>23~24°C</b> |
| <b>RB #:</b>       | <b>1</b>                                                                         |             | <b>Relative Humidity:</b> | <b>46~48%</b>  |
| <b>Note:</b>       | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |             |                           |                |
| Frequency (MHz)    | Spurious Emission                                                                |             | Limit (dBm)               | Result         |
|                    | Polarization                                                                     | Level (dBm) |                           |                |
| 3465.0             | Vertical                                                                         | -51.77      | -13.00                    | PASS           |
| 5197.5             | V                                                                                | -55.05      |                           |                |
| -                  | V                                                                                | -           |                           |                |
| 3465.0             | Horizontal                                                                       | -52.31      |                           |                |
| 5197.5             | H                                                                                | -56.69      |                           |                |
| -                  | H                                                                                | -           |                           |                |
| <b>Bandwidth:</b>  | <b>1.4M</b>                                                                      |             | <b>Test channel:</b>      | <b>Middle</b>  |
| <b>Modulation:</b> | <b>QPSK</b>                                                                      |             | <b>Temperature :</b>      | <b>23~24°C</b> |
| <b>RB #:</b>       | <b>1</b>                                                                         |             | <b>Relative Humidity:</b> | <b>46~48%</b>  |
| <b>Note:</b>       | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |             |                           |                |
| Frequency (MHz)    | Spurious Emission                                                                |             | Limit (dBm)               | Result         |
|                    | Polarization                                                                     | Level (dBm) |                           |                |
| 3465.0             | Vertical                                                                         | -51.44      | -13.00                    | PASS           |
| 5197.5             | V                                                                                | -55.30      |                           |                |
| -                  | V                                                                                | -           |                           |                |
| 3465.0             | Horizontal                                                                       | -52.58      |                           |                |
| 5197.5             | H                                                                                | -55.11      |                           |                |
| -                  | H                                                                                | -           |                           |                |
| <b>Bandwidth:</b>  | <b>1.4M</b>                                                                      |             | <b>Test channel:</b>      | <b>Highest</b> |
| <b>Modulation:</b> | <b>QPSK</b>                                                                      |             | <b>Temperature :</b>      | <b>23~24°C</b> |
| <b>RB #:</b>       | <b>1</b>                                                                         |             | <b>Relative Humidity:</b> | <b>46~48%</b>  |
| <b>Note:</b>       | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |             |                           |                |
| Frequency (MHz)    | Spurious Emission                                                                |             | Limit (dBm)               | Result         |
|                    | Polarization                                                                     | Level (dBm) |                           |                |
| 3508.6             | Vertical                                                                         | -50.90      | -13.00                    | PASS           |
| 5262.9             | V                                                                                | -55.72      |                           |                |
| -                  | V                                                                                | -           |                           |                |
| 3508.6             | Horizontal                                                                       | -51.85      |                           |                |
| 5262.9             | H                                                                                | -56.37      |                           |                |
| -                  | H                                                                                | -           |                           |                |

Note: All bandwidth and modulation are tested, only the worst result is reported.