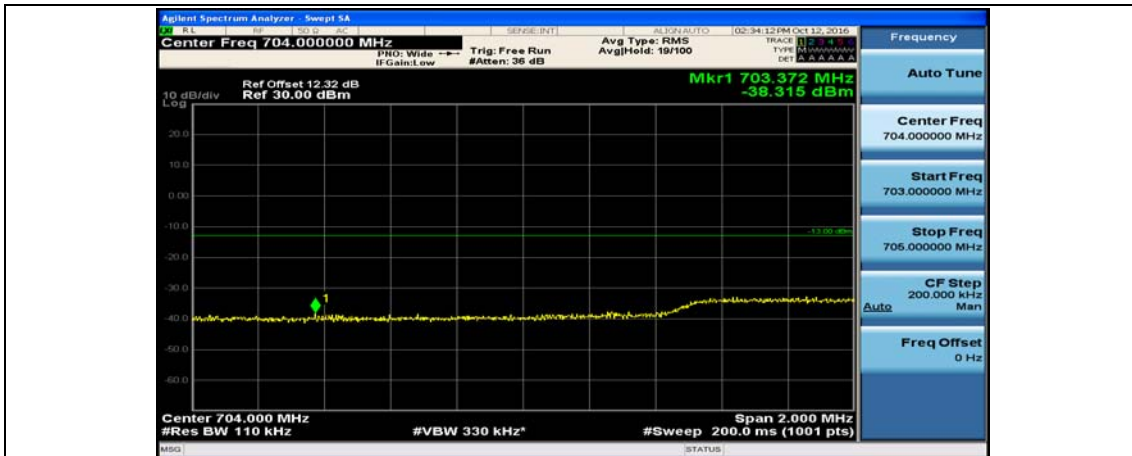
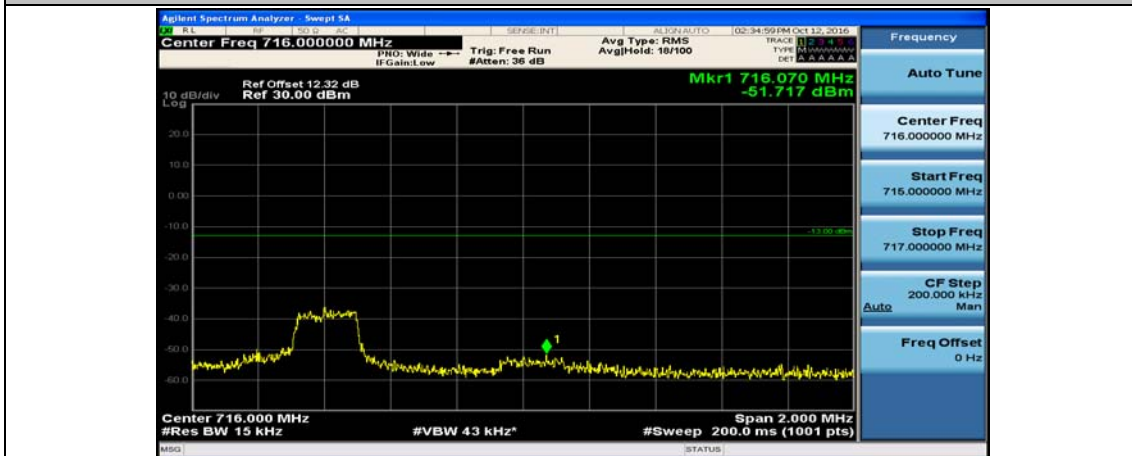




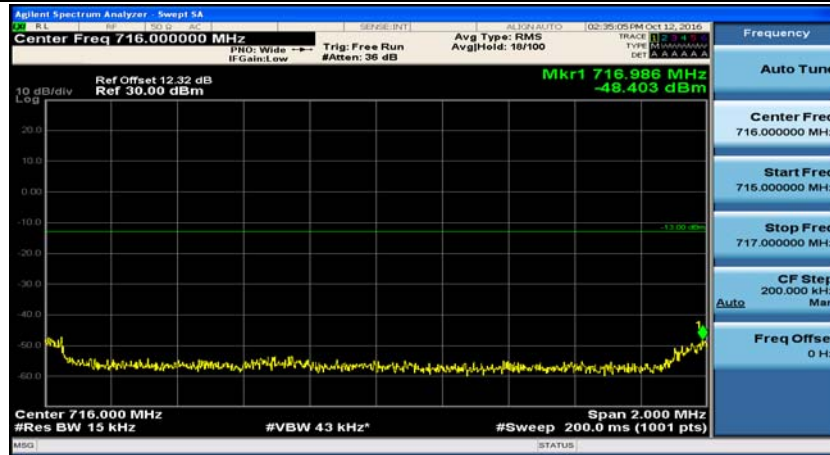
Channel Bandwidth: 10 MHz\_LCH\_QPSK\_50RB#0



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



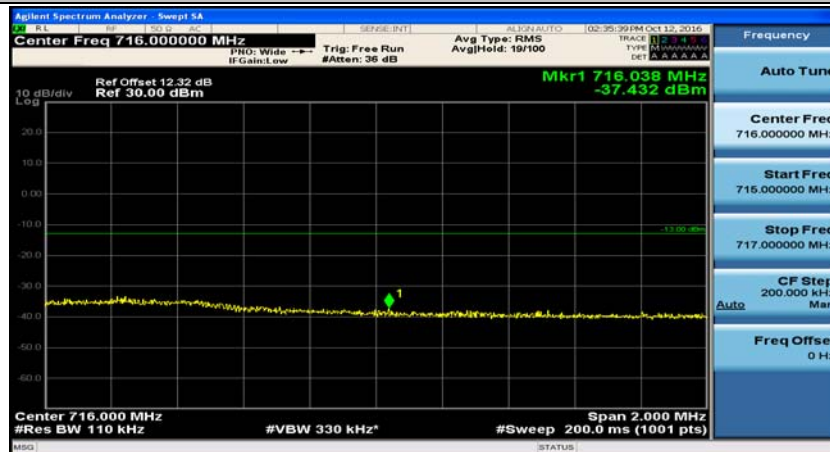
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#24



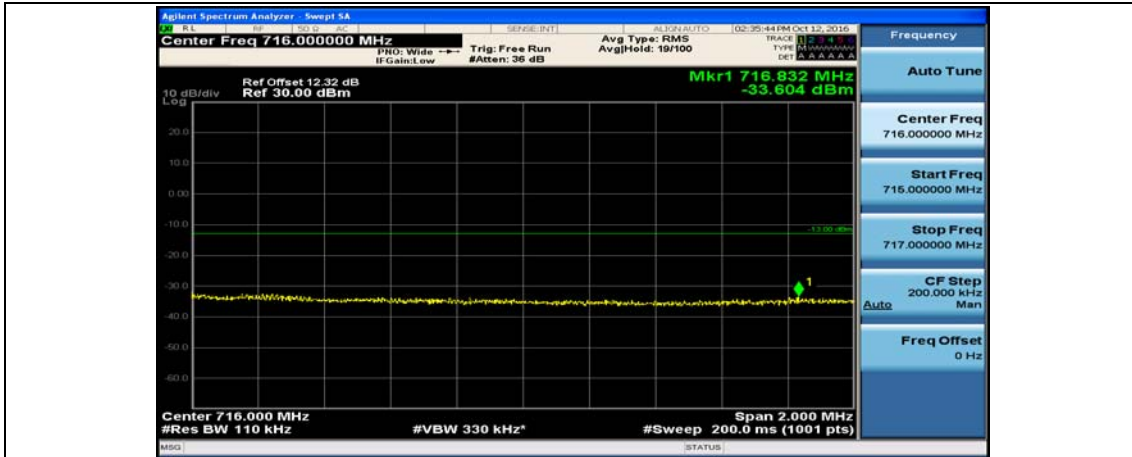
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#49



Channel Bandwidth: 10 MHz\_HCH\_QPSK\_25RB#0



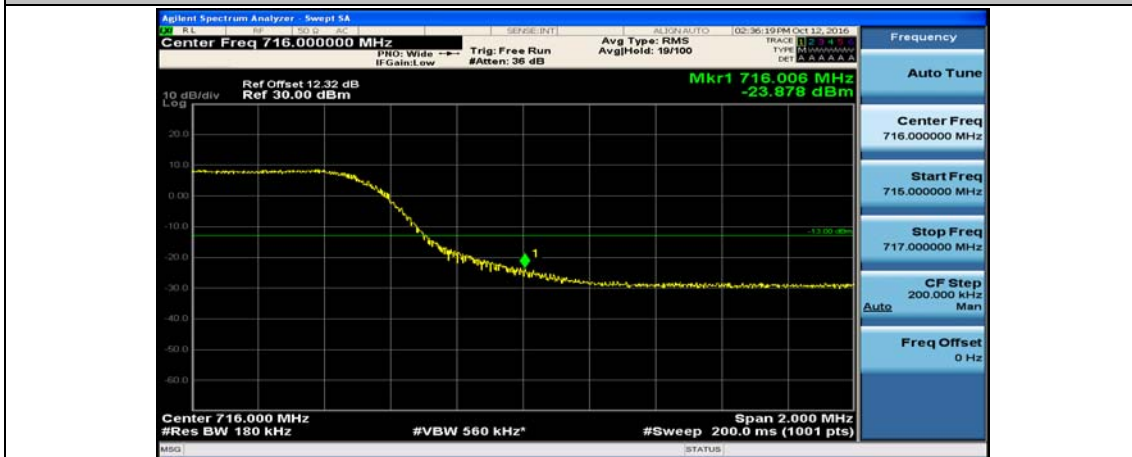
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_25RB#12



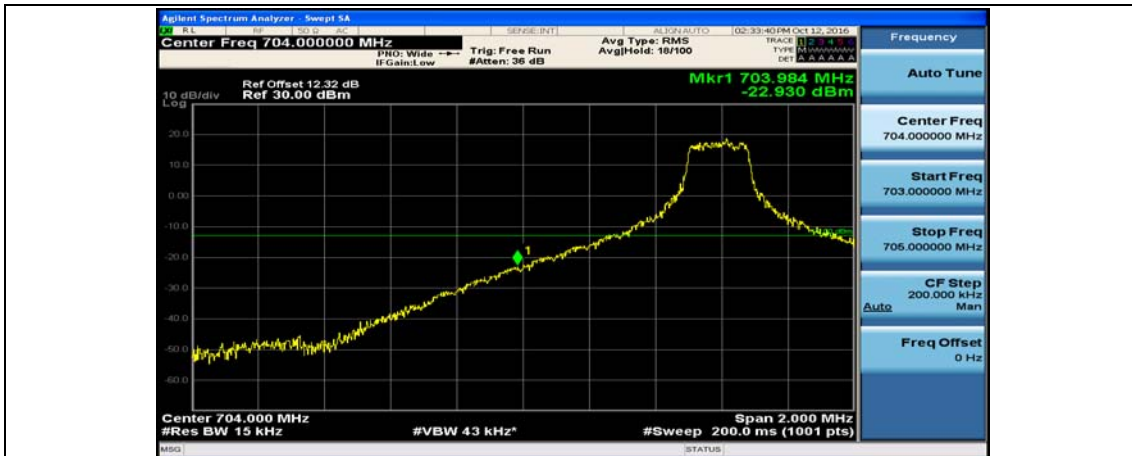
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_25RB#25



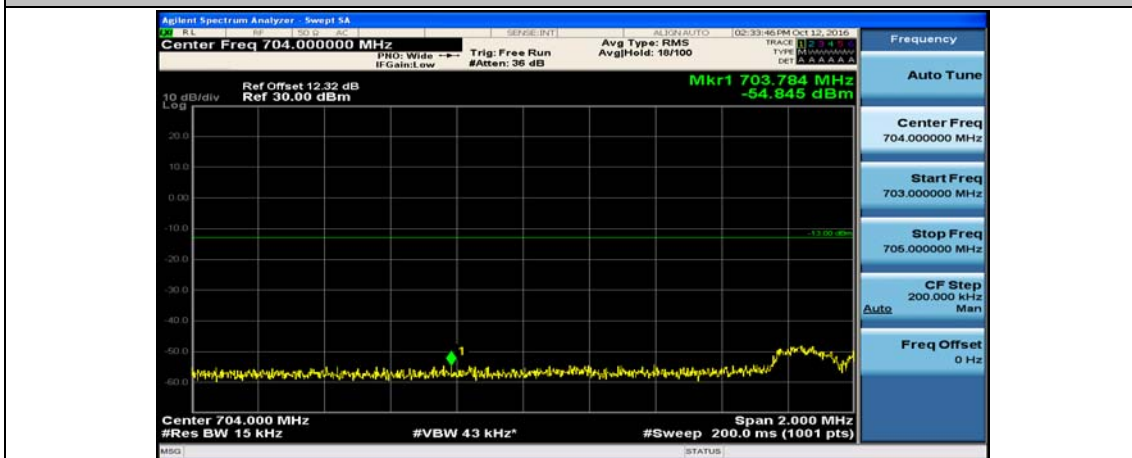
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_50RB#0



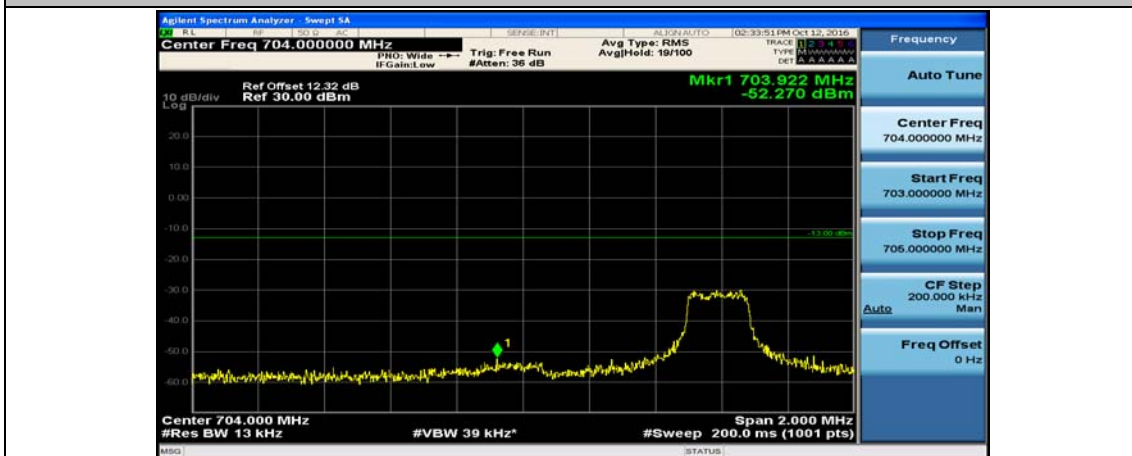
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0



Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#24



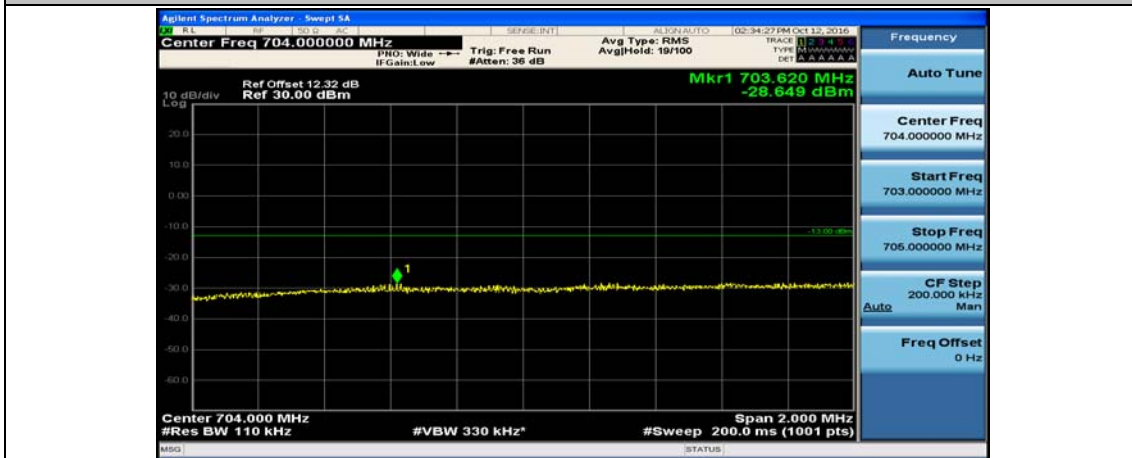
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#49



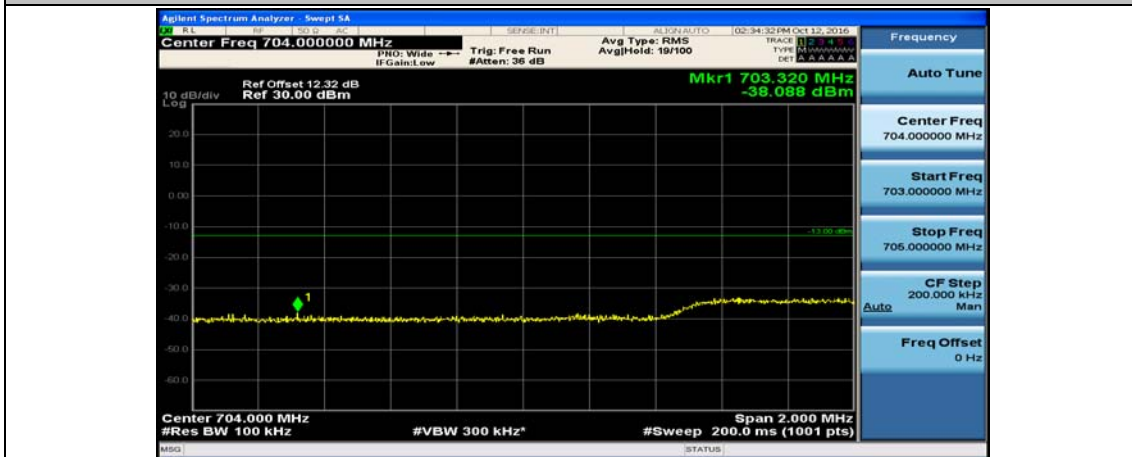
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_25RB#0



Channel Bandwidth: 10 MHz\_LCH\_16QAM\_25RB#12



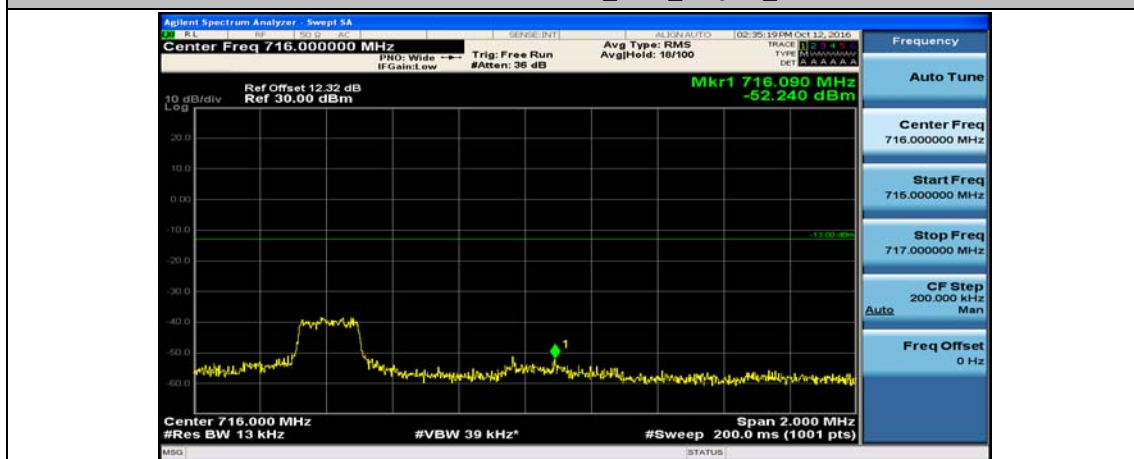
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_25RB#25



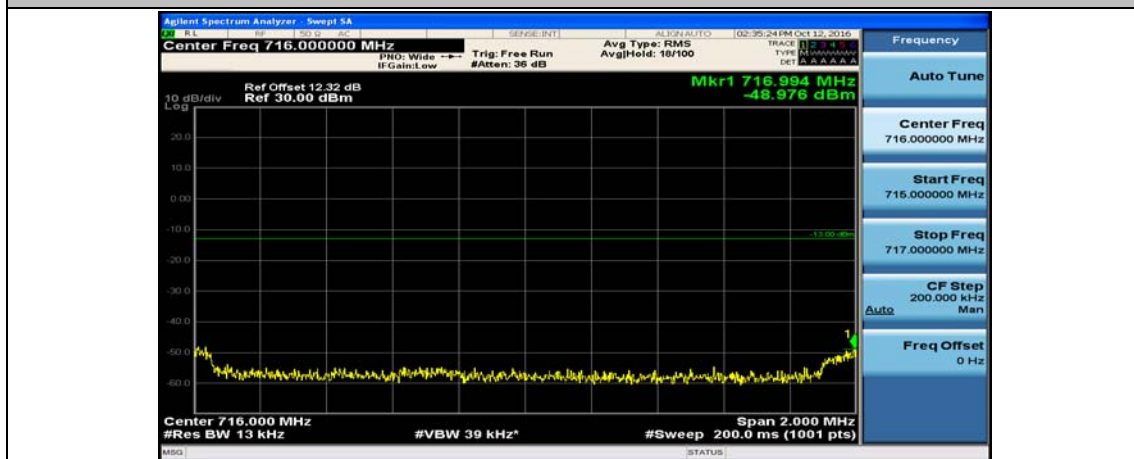
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_50RB#0



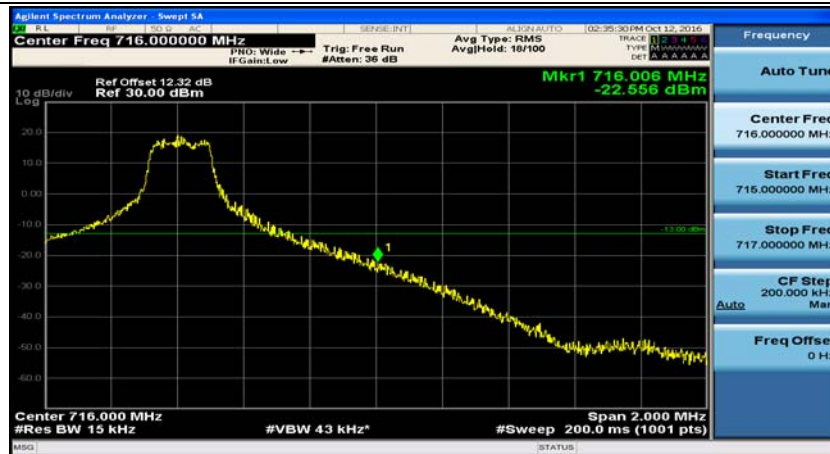
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0



Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#24



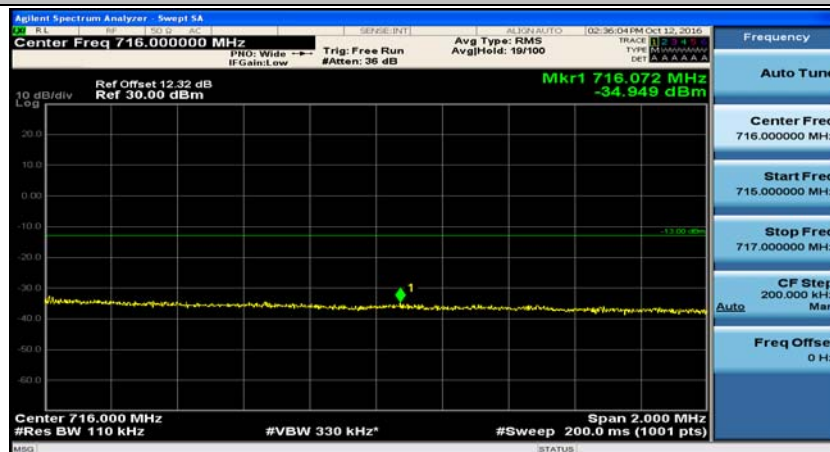
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#49



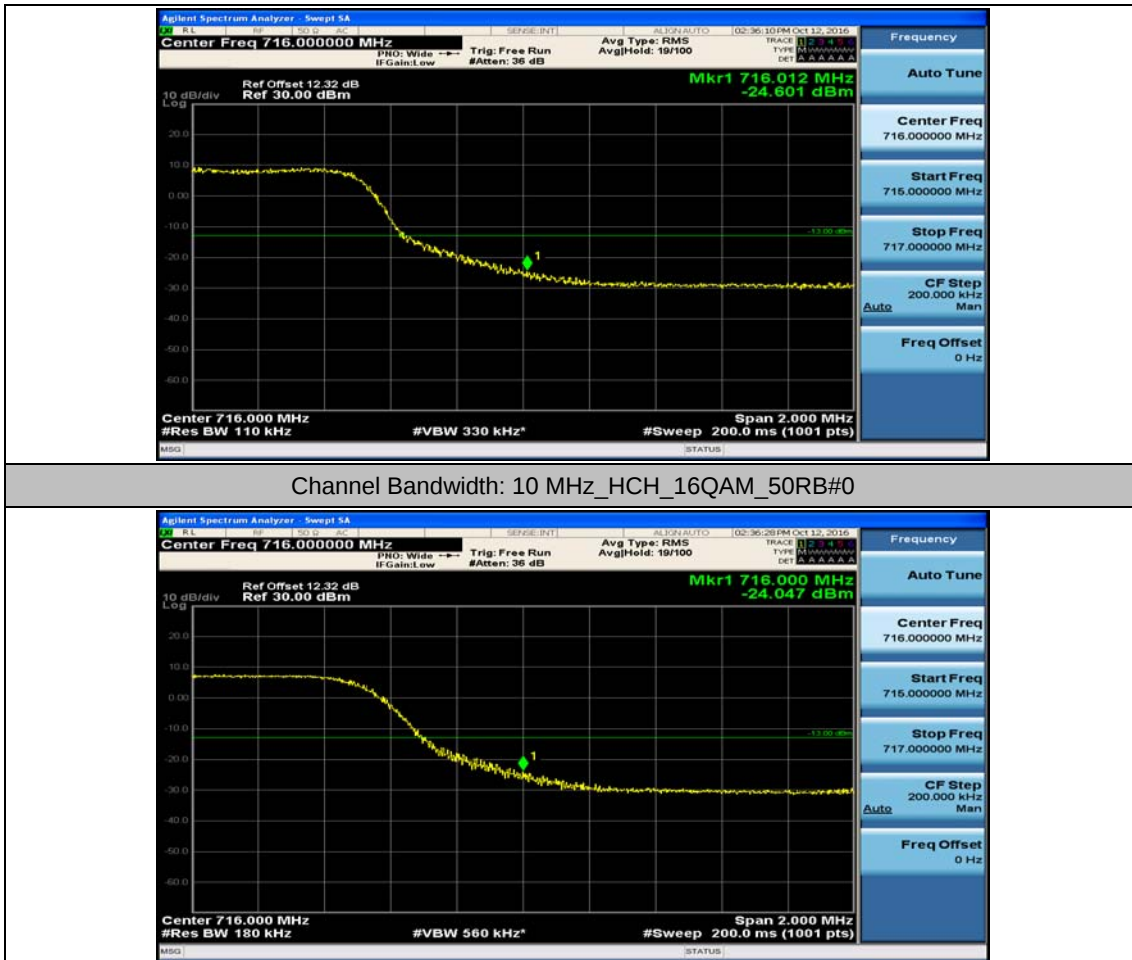
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_25RB#0



Channel Bandwidth: 10 MHz\_HCH\_16QAM\_25RB#12



Channel Bandwidth: 10 MHz\_HCH\_16QAM\_25RB#25

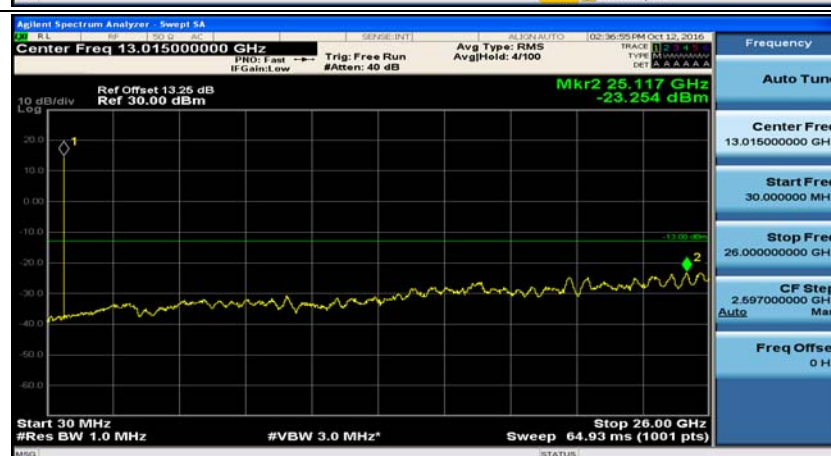
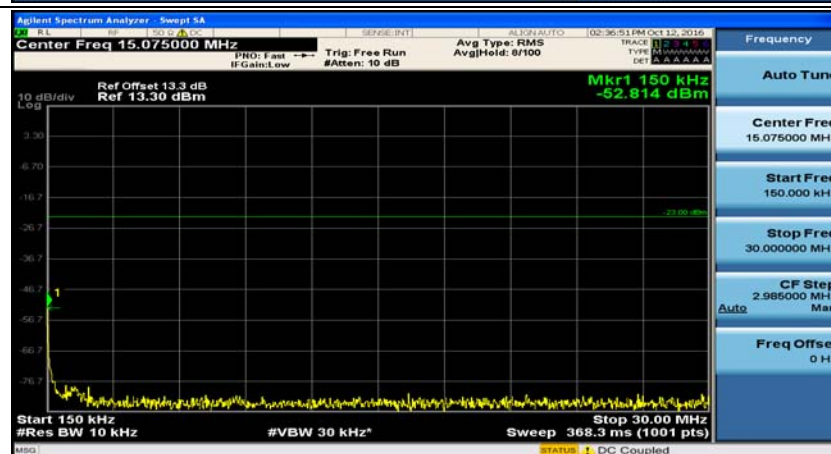
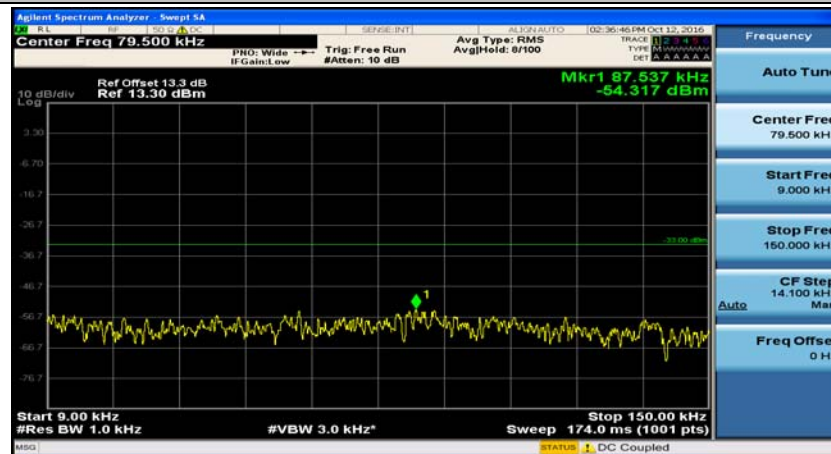


## Appendix E: Conducted Spurious Emission

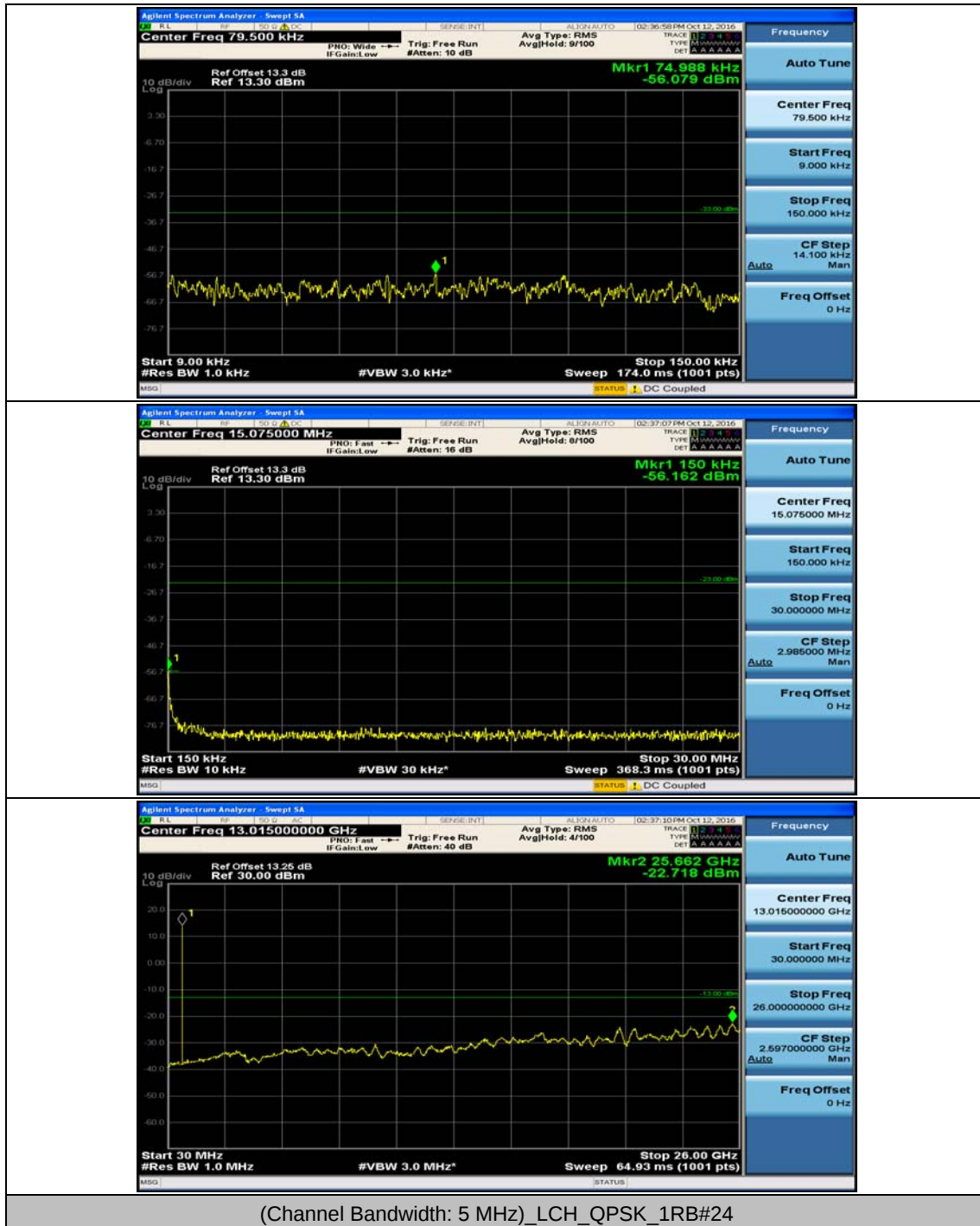
### Test Graphs

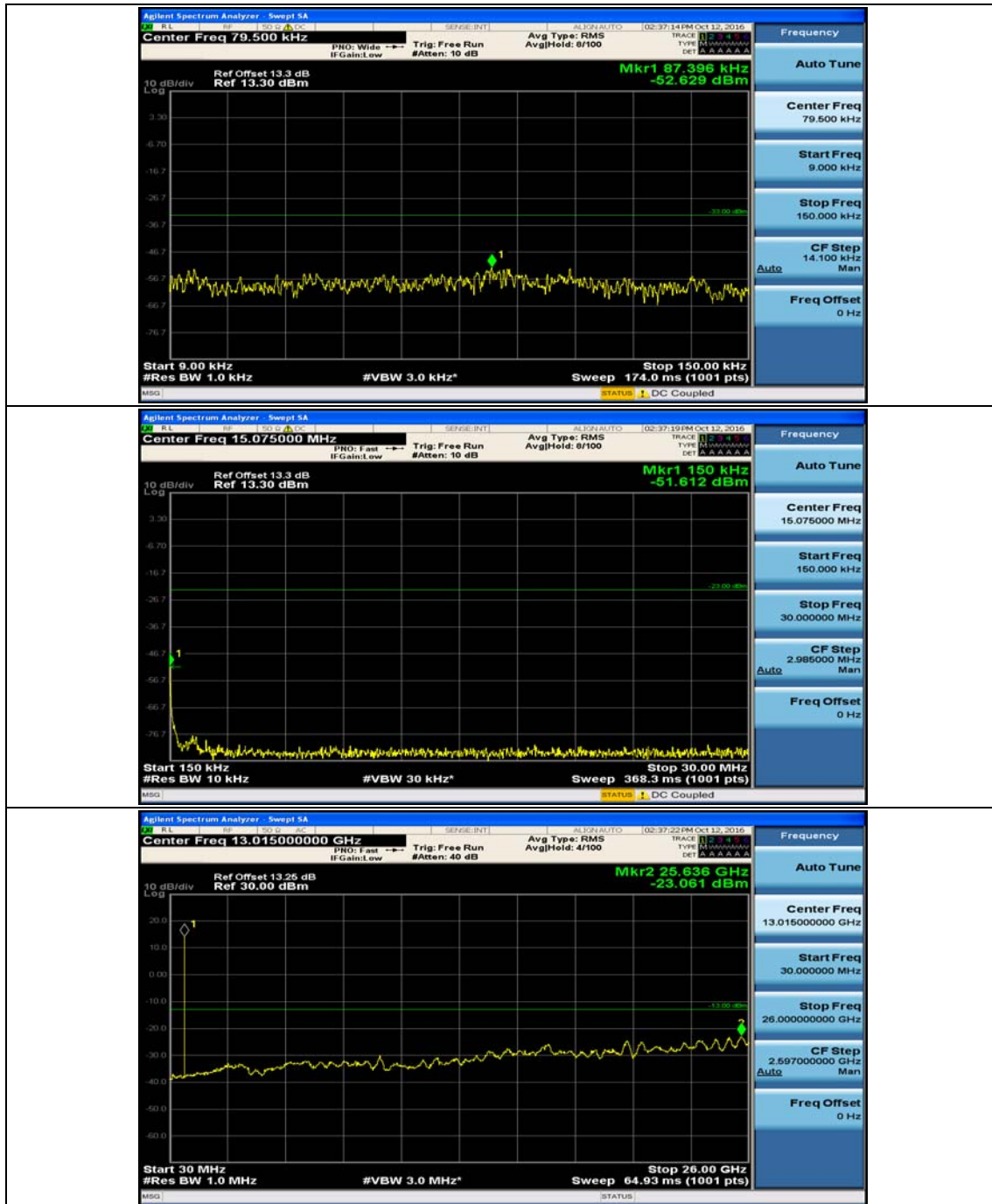
Channel Bandwidth: 5 MHz

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

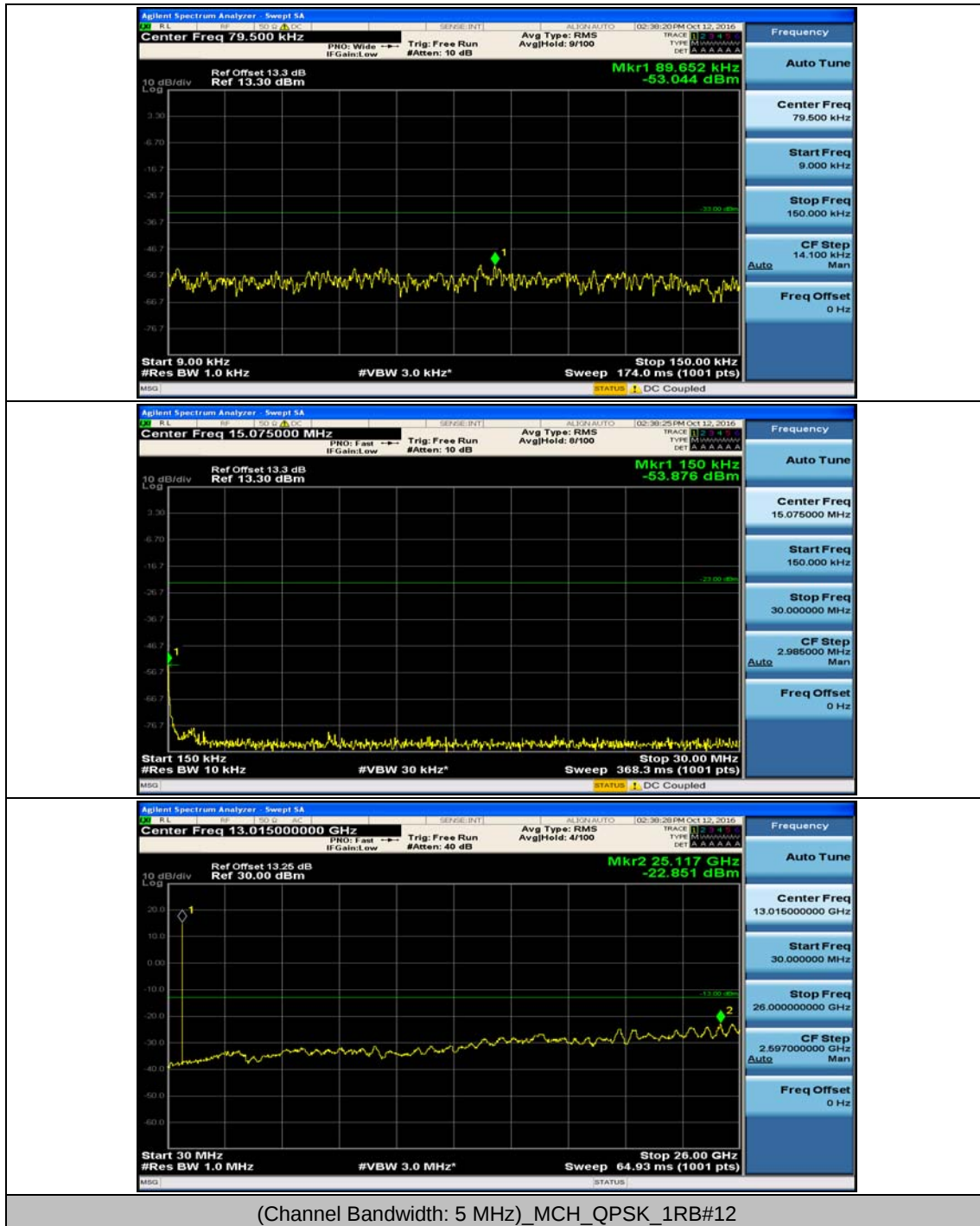


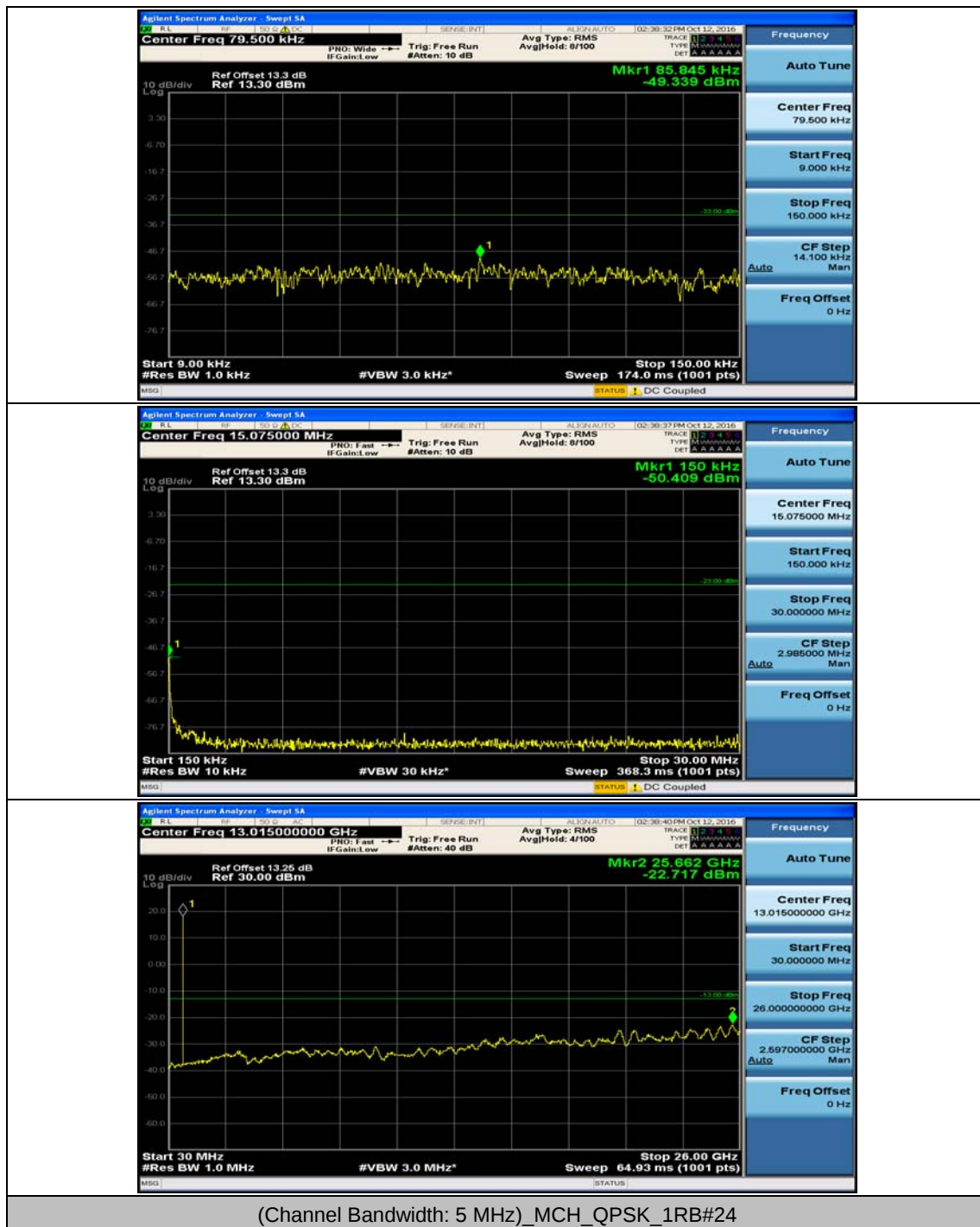
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#12

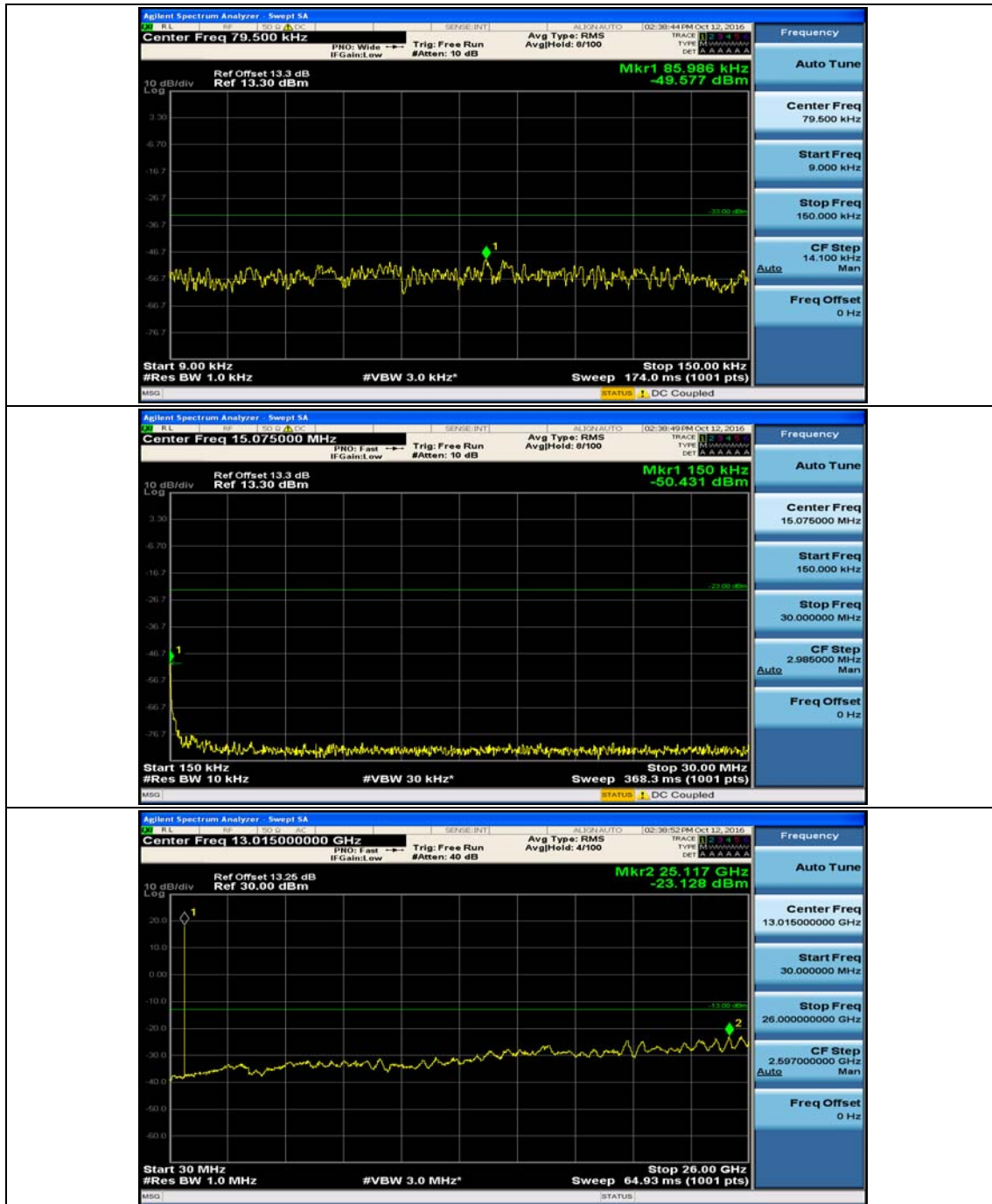




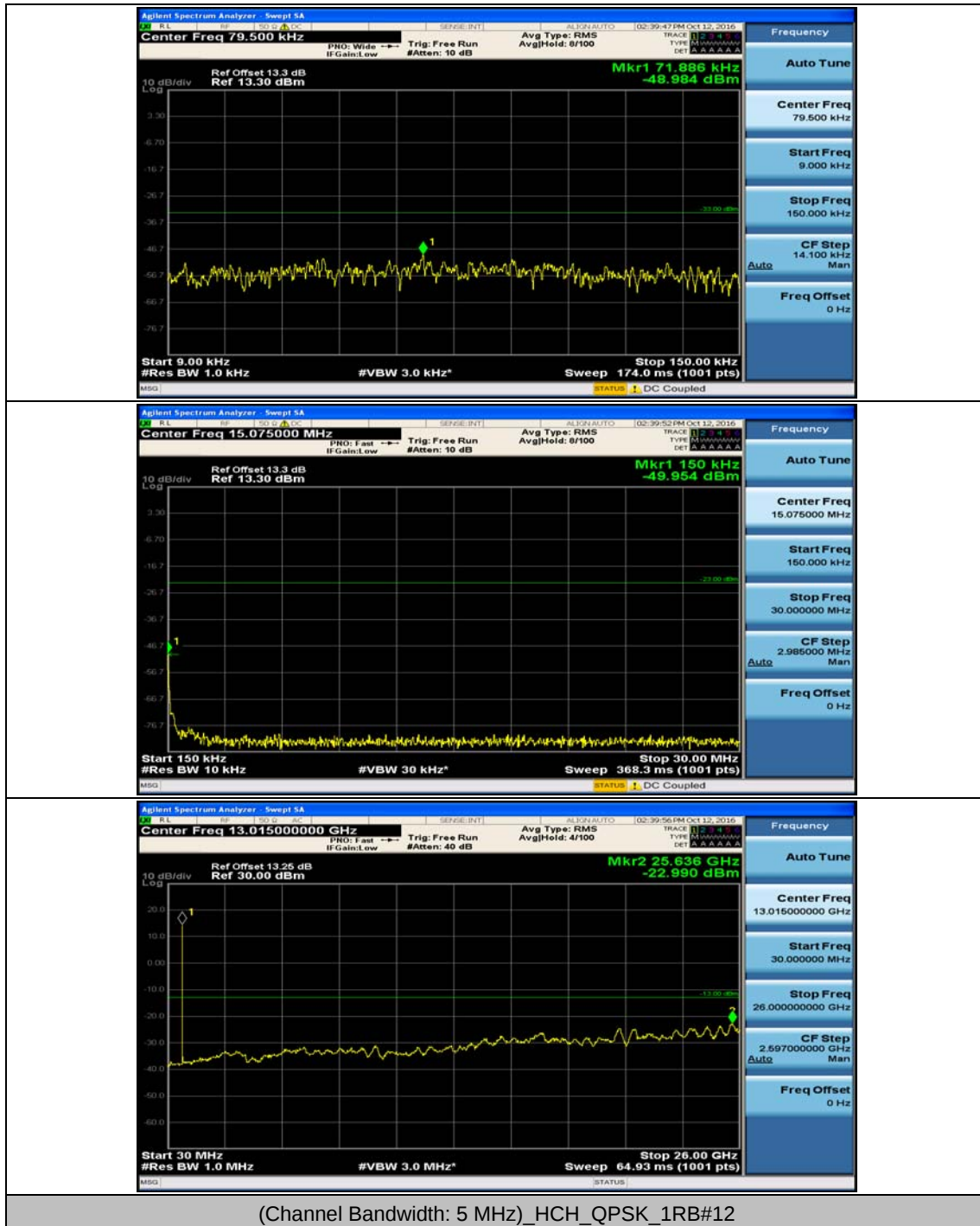
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0

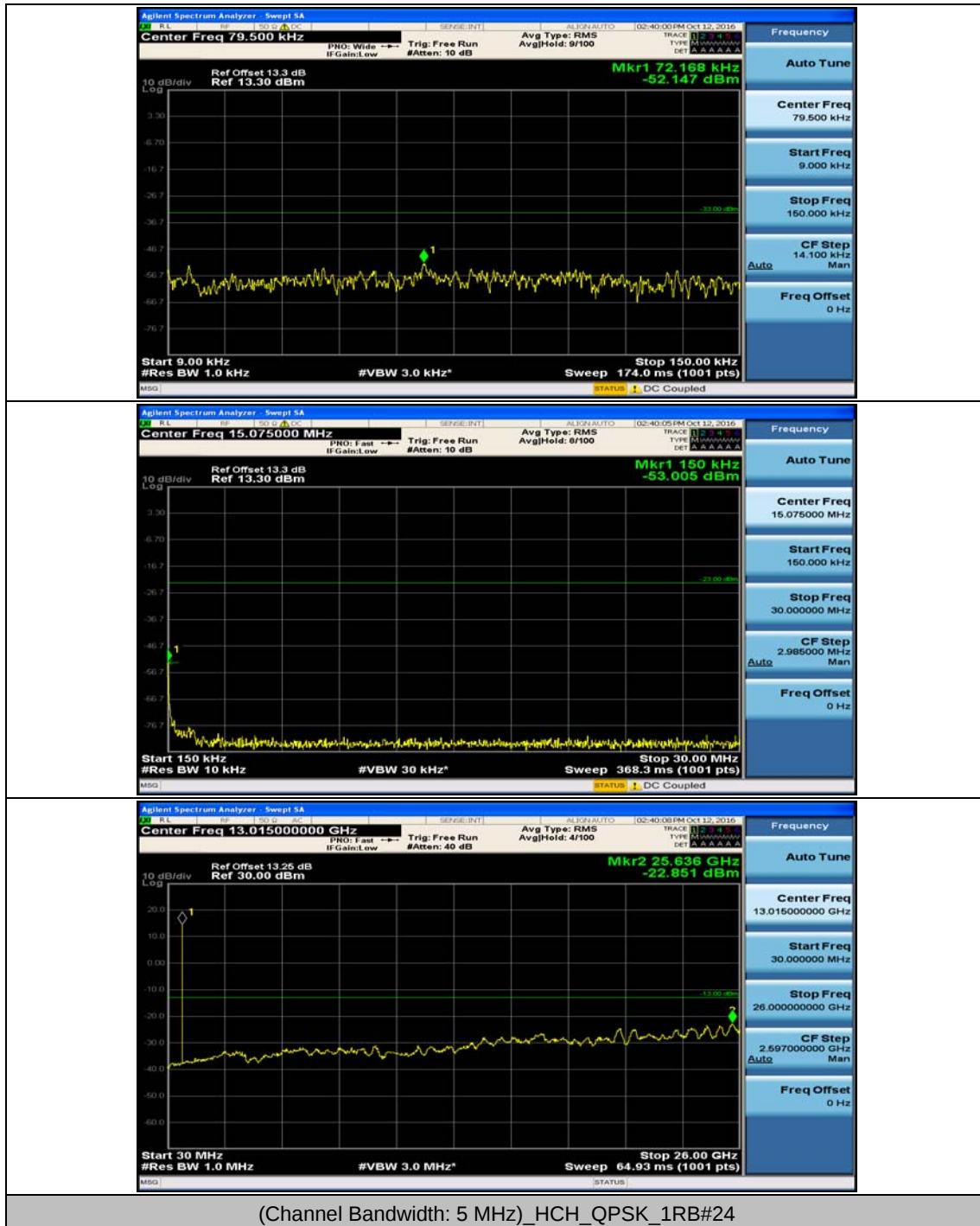


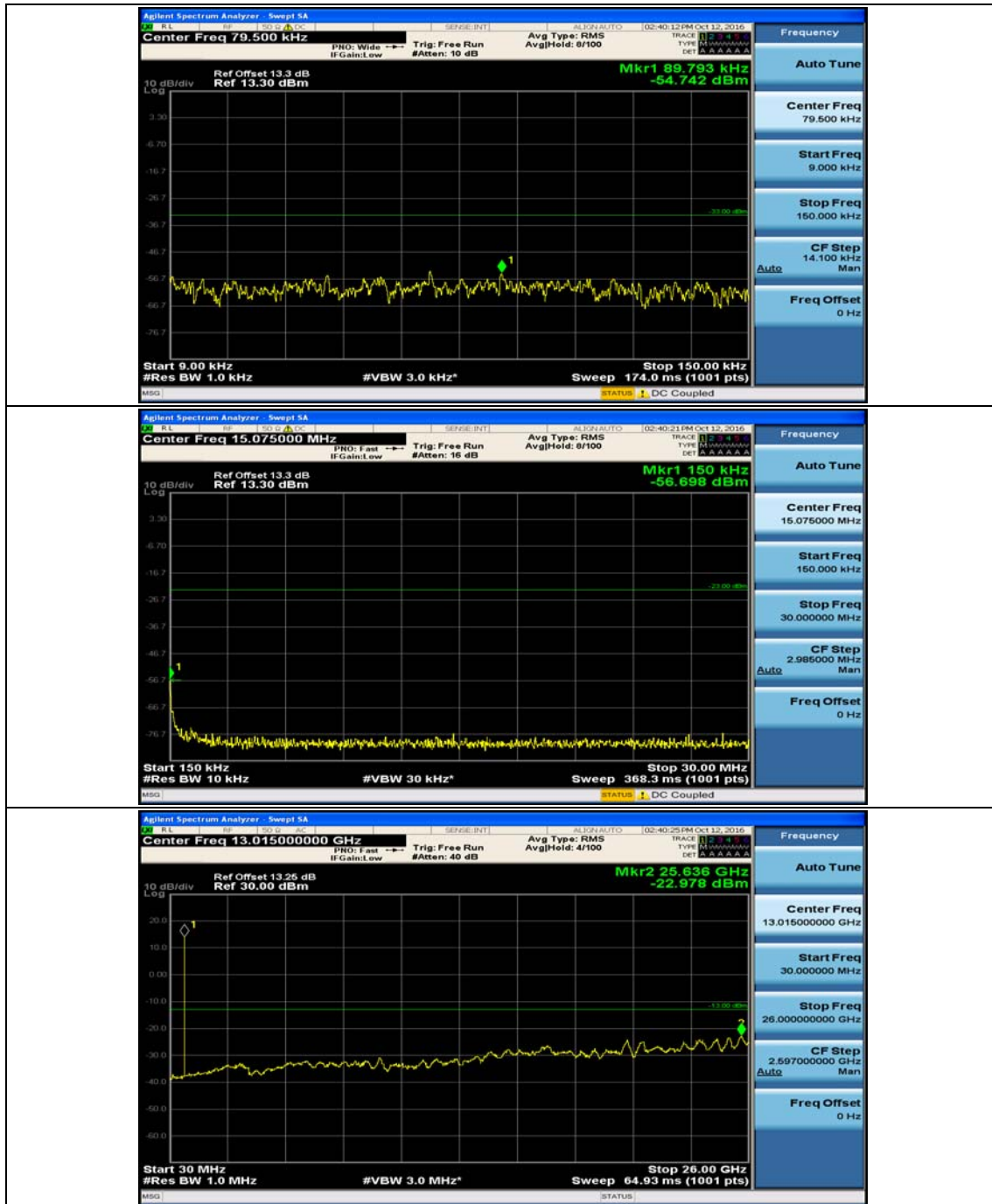




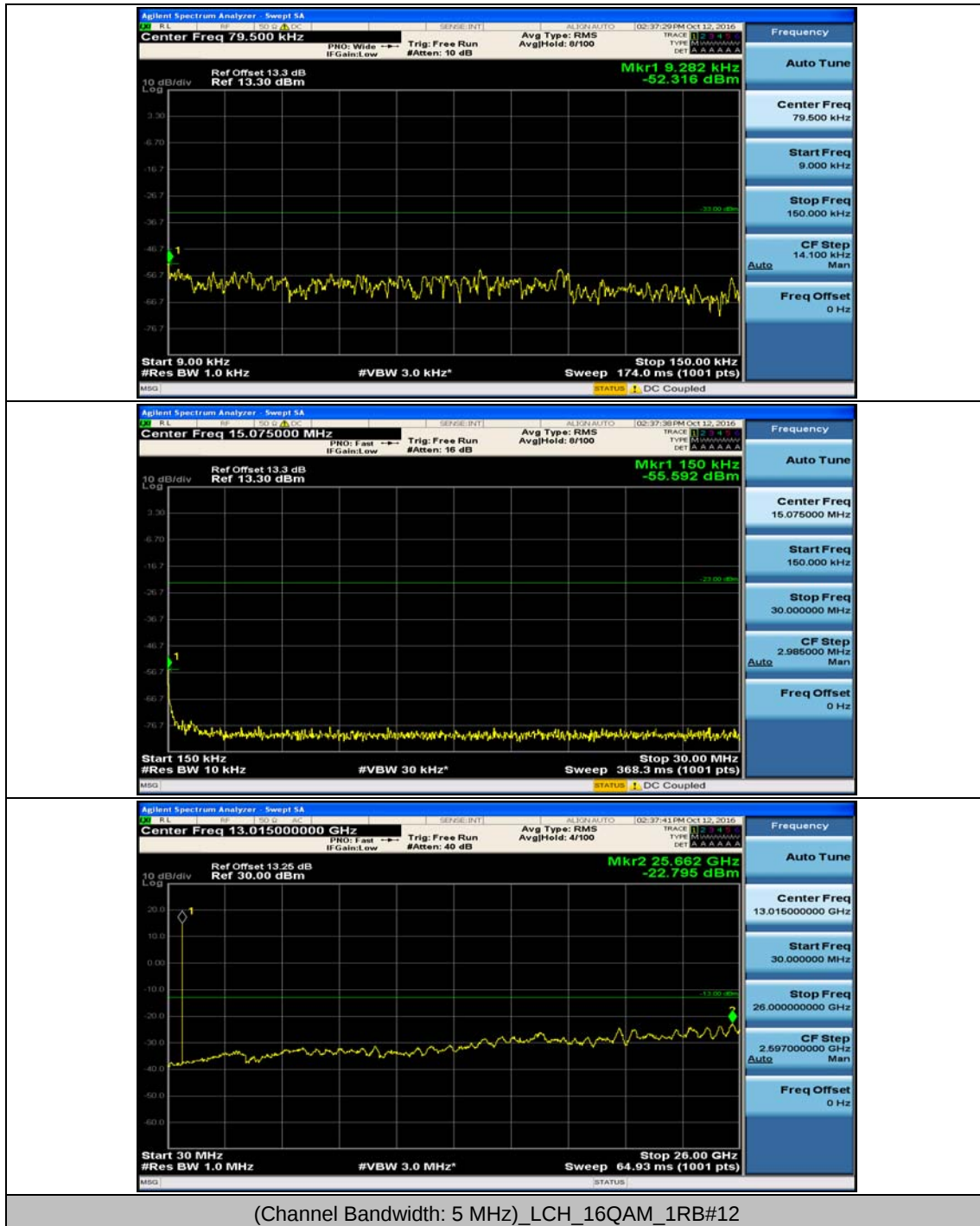
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0

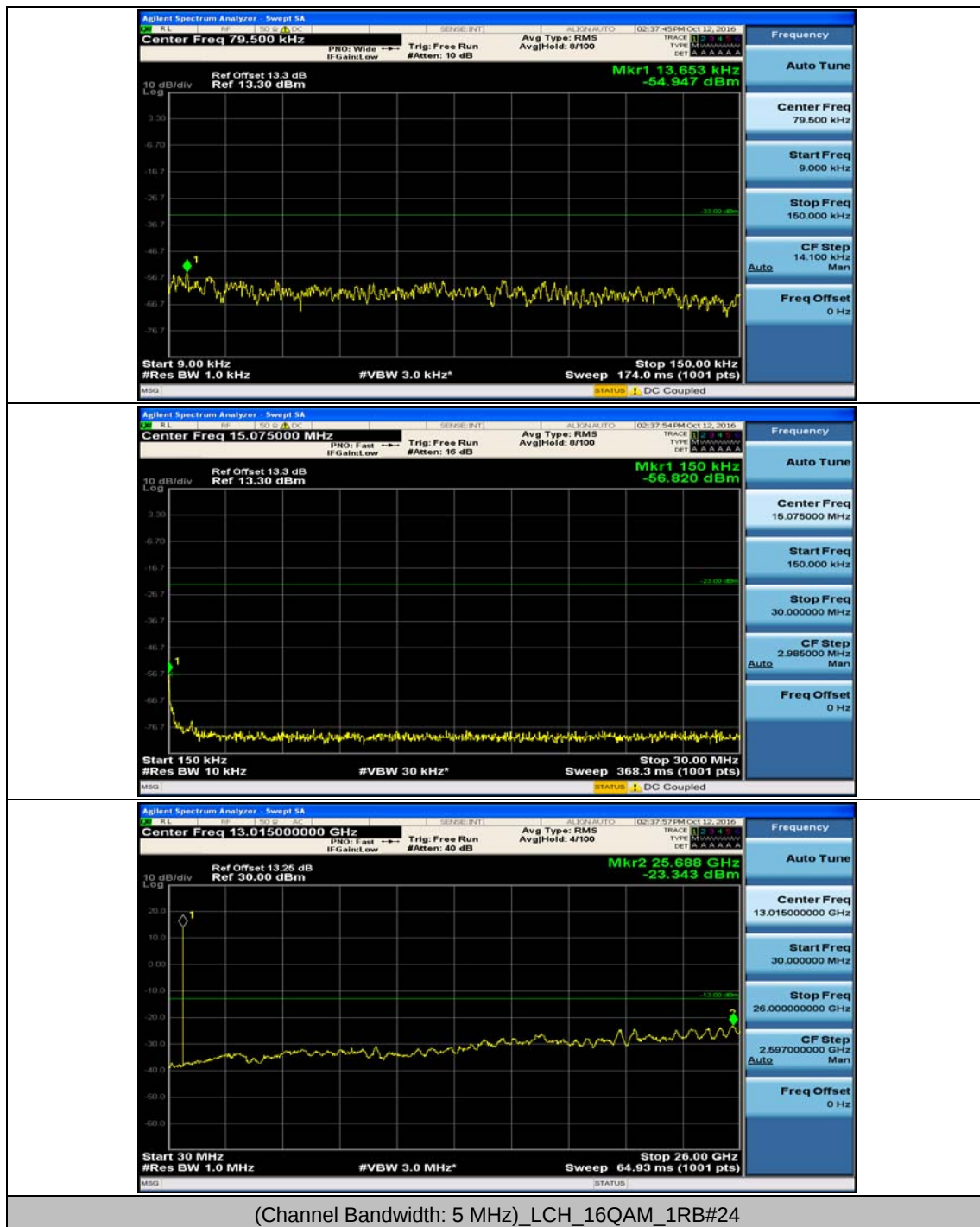


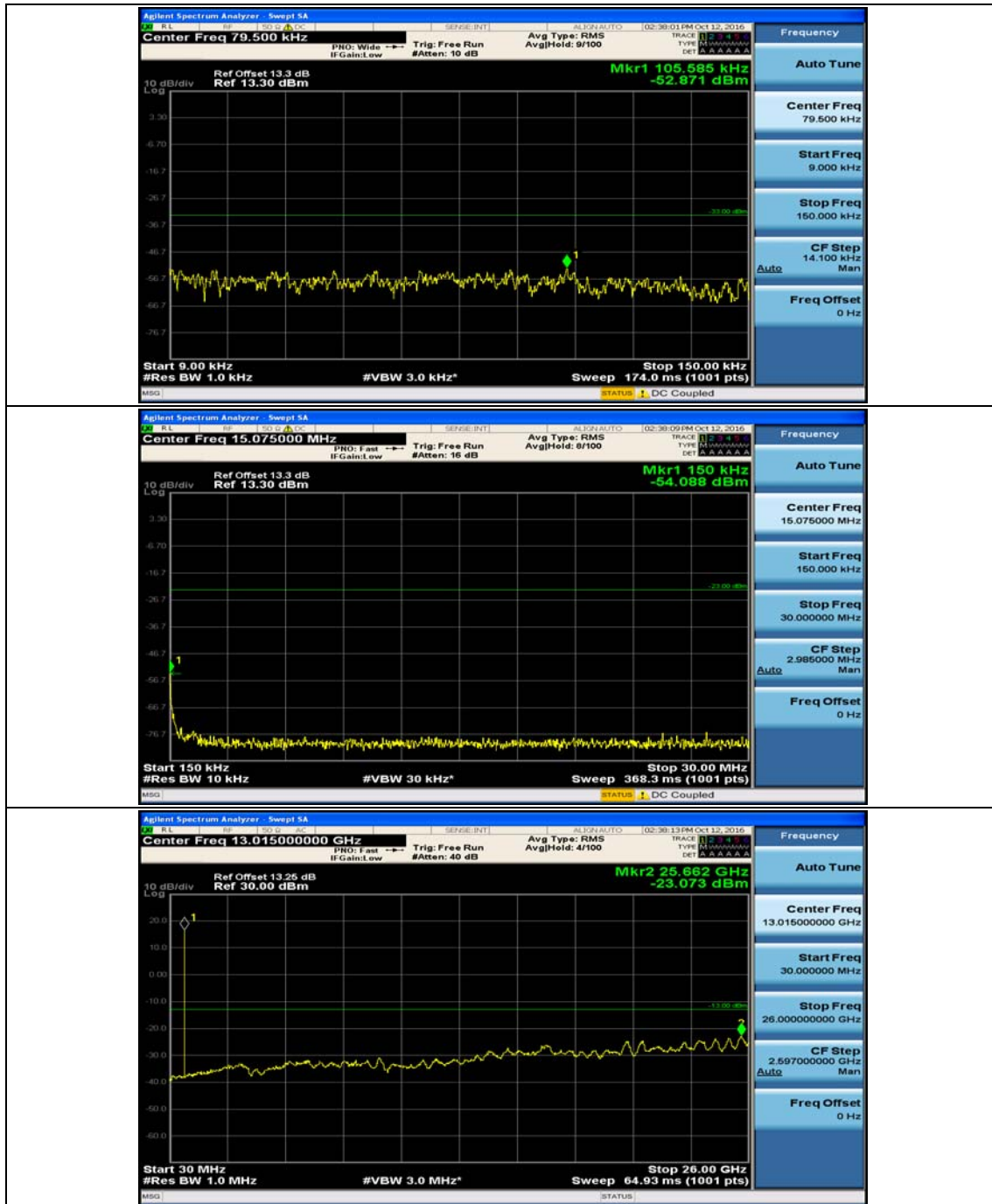




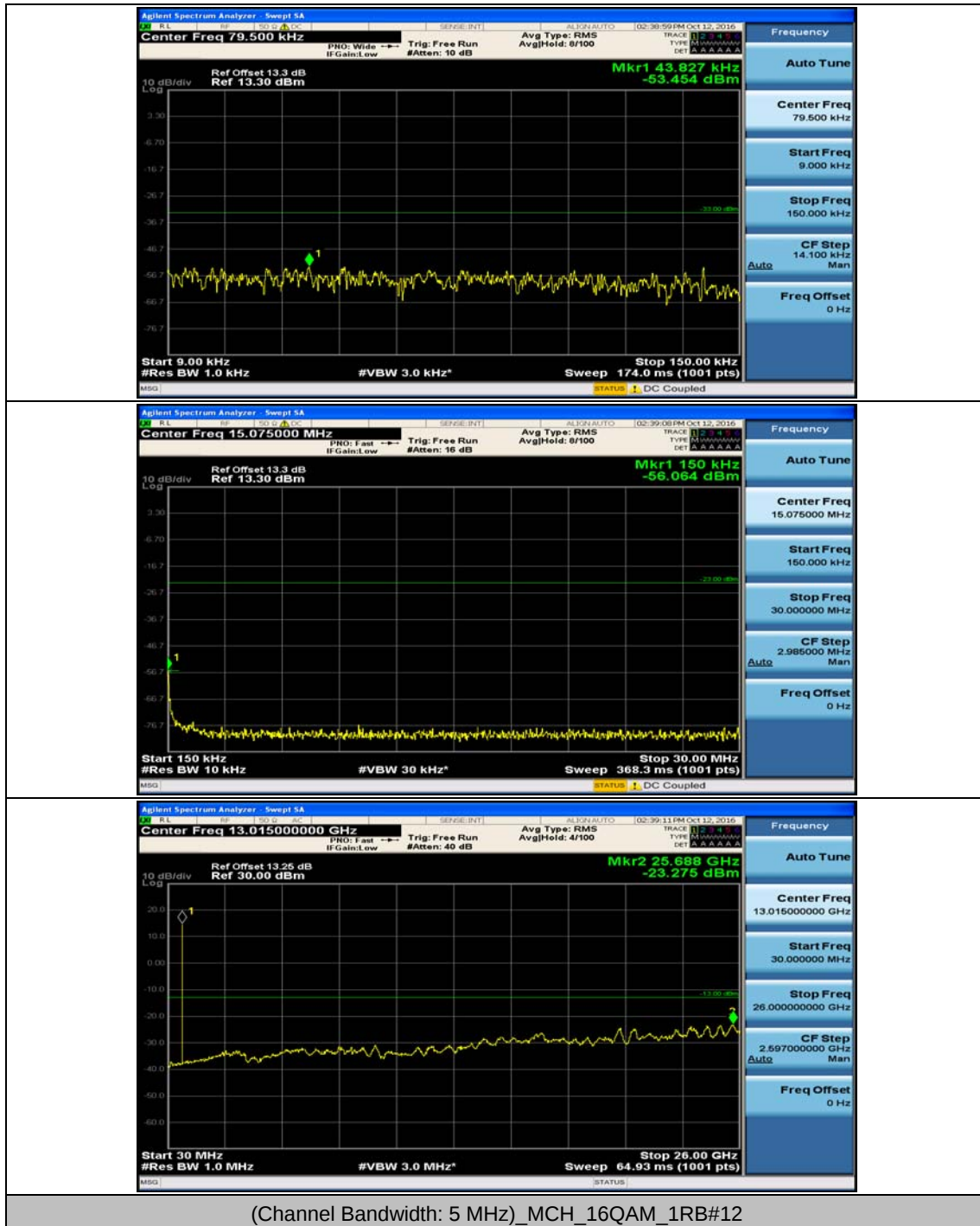
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0

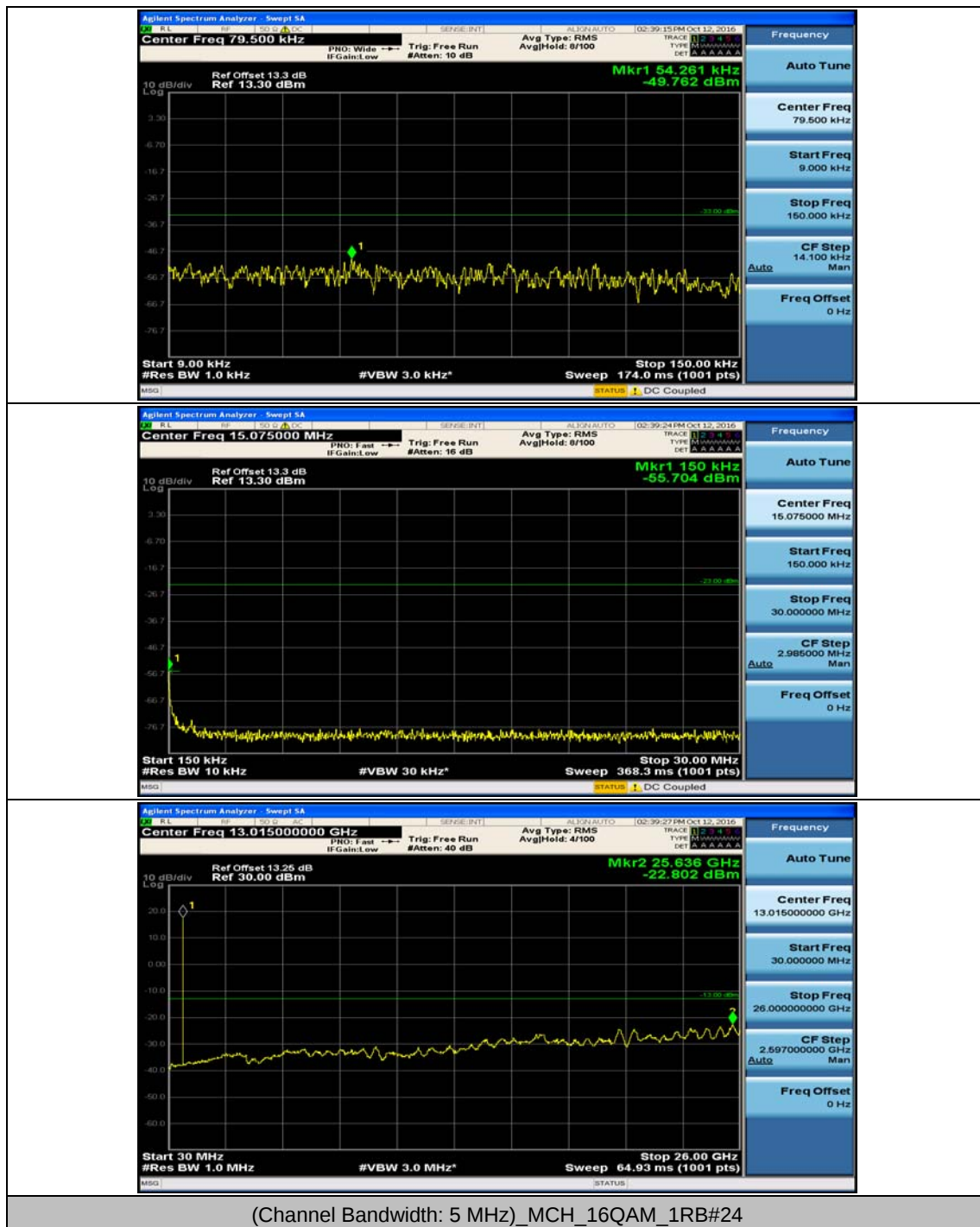


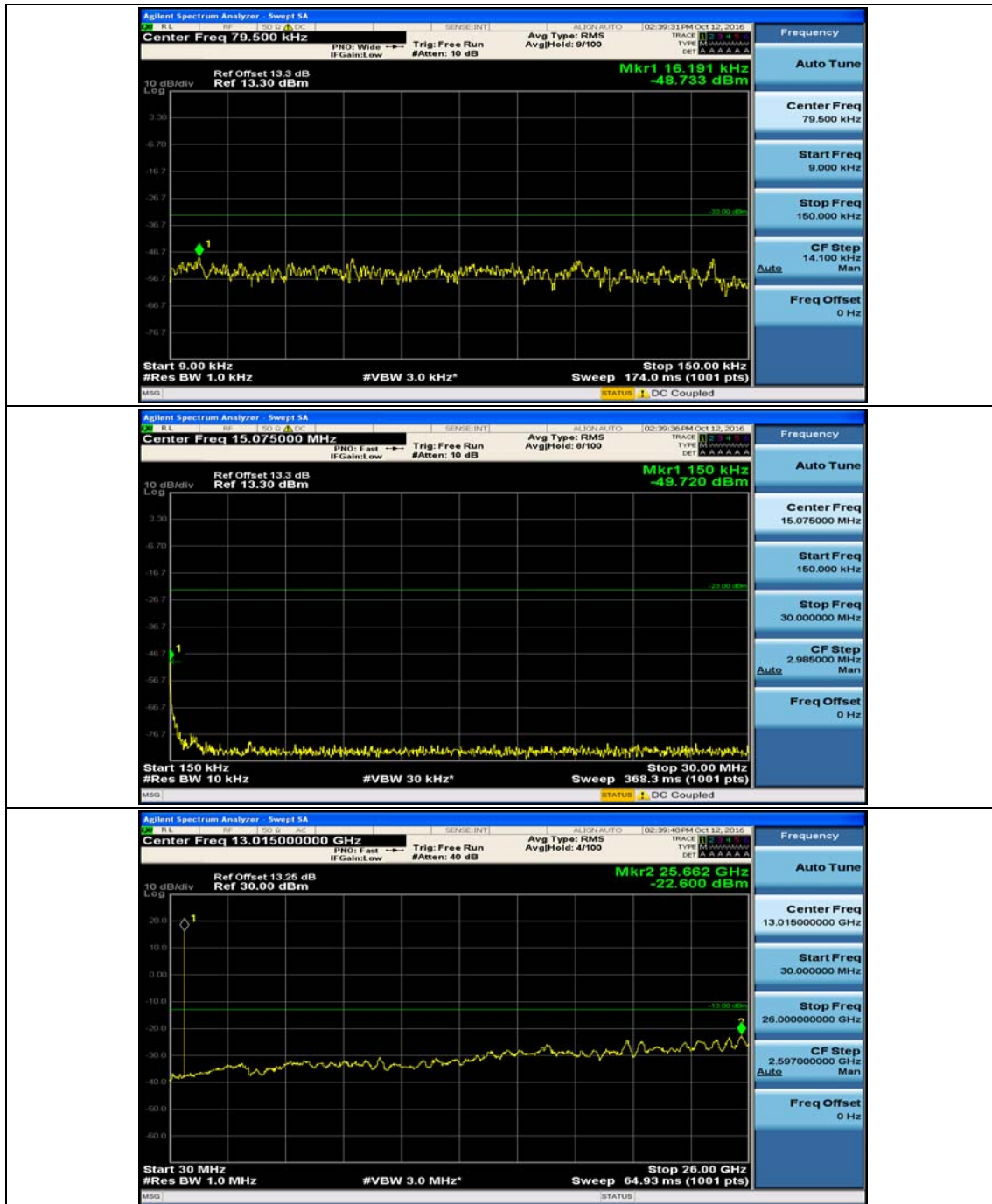




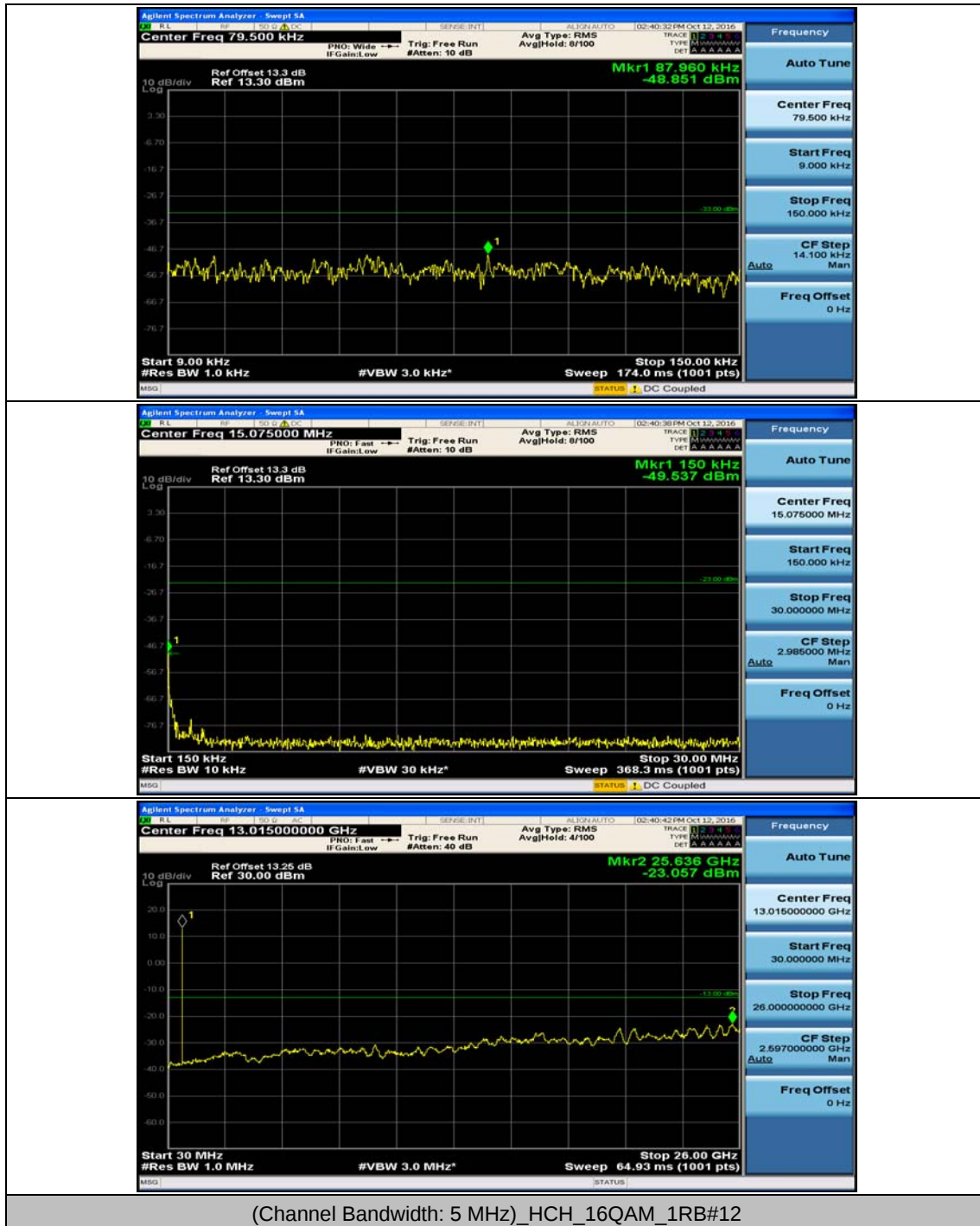
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0

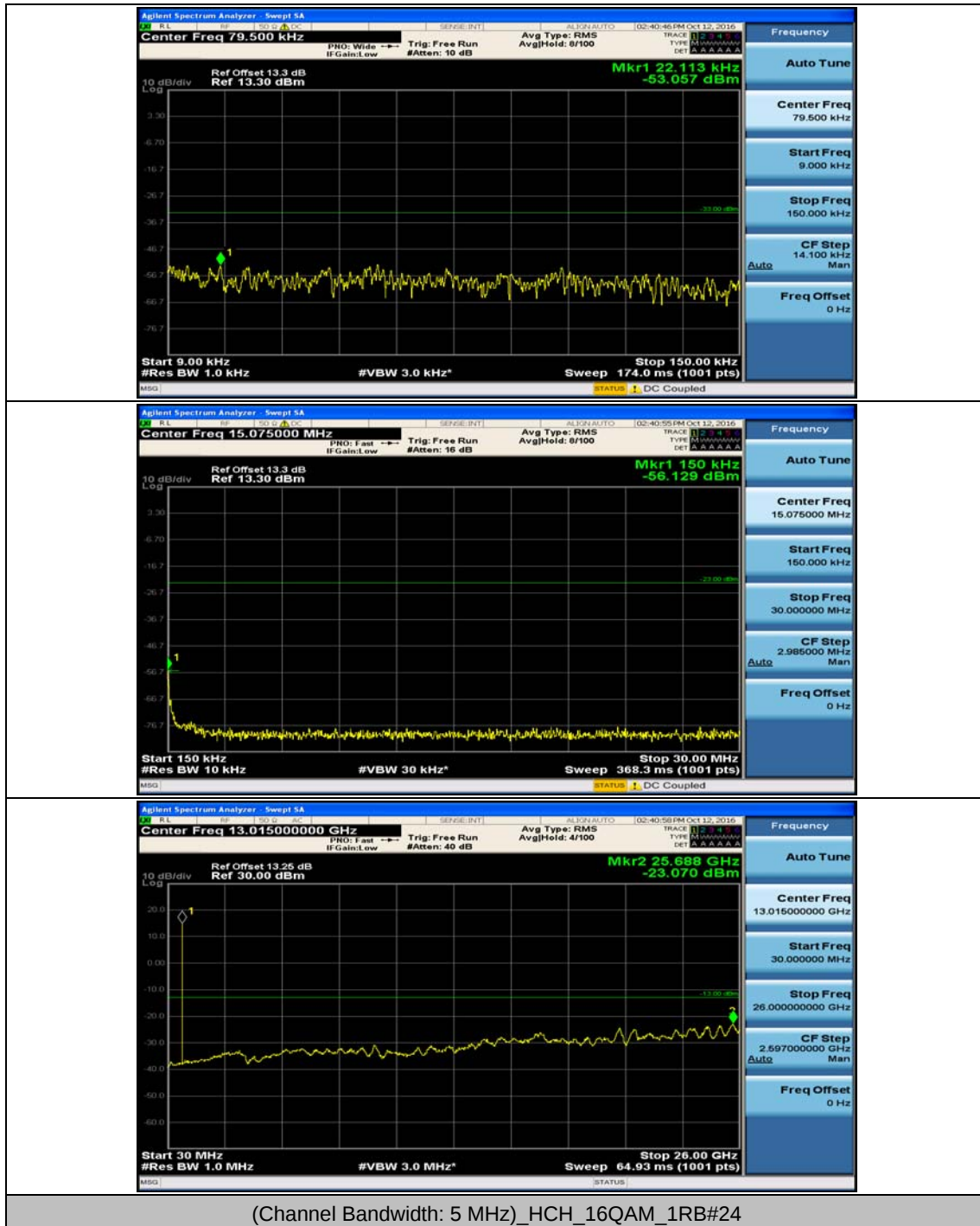


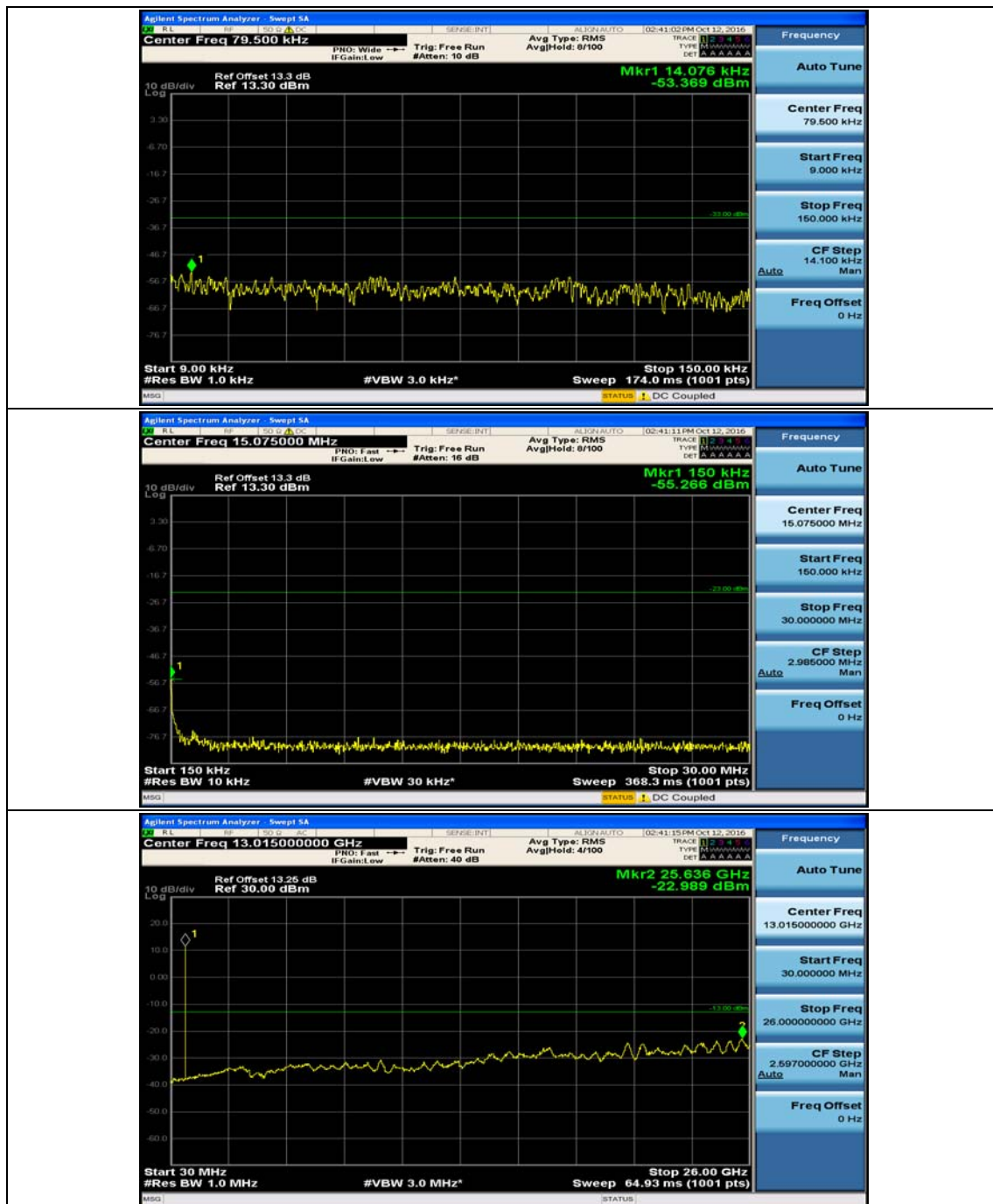




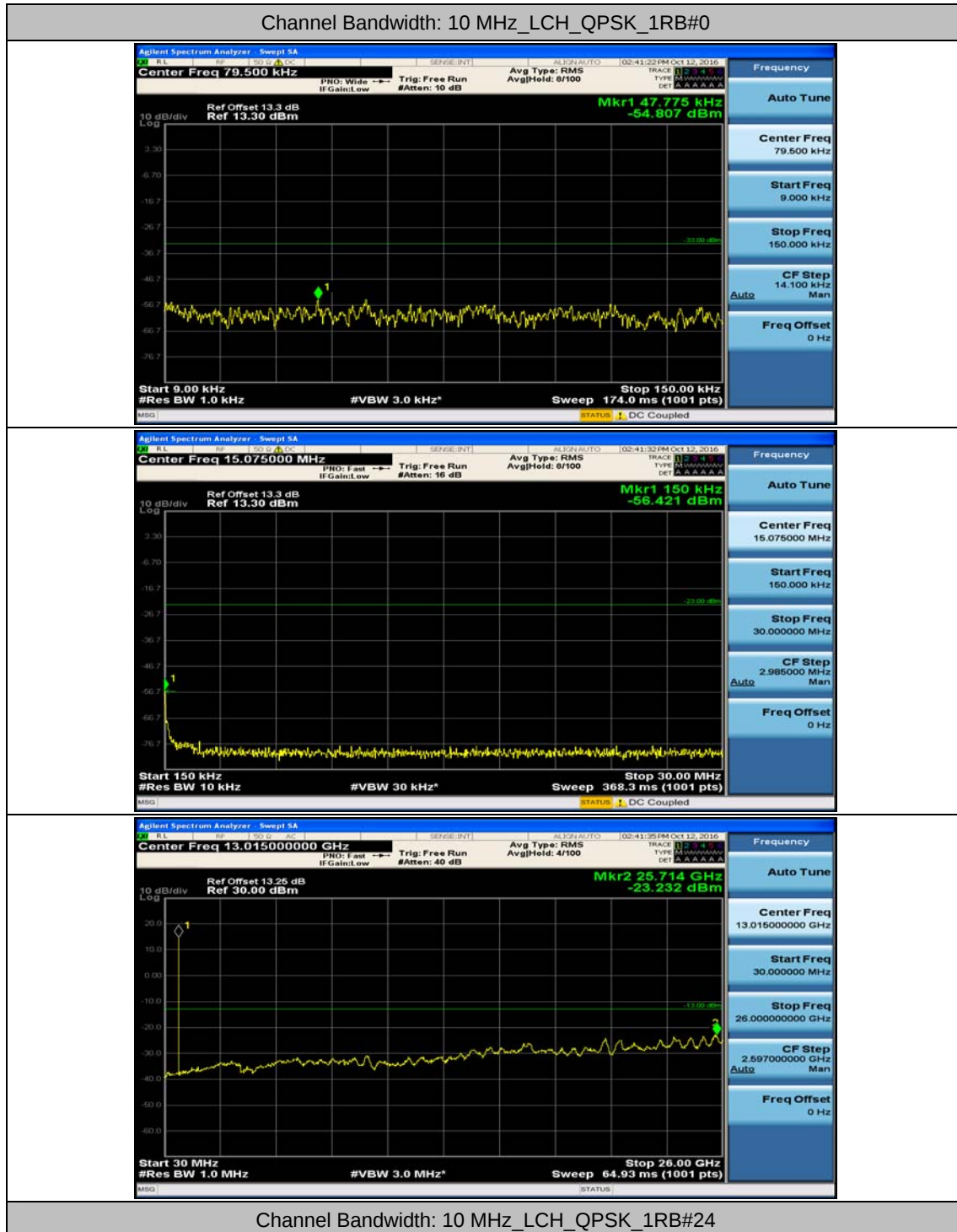
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0

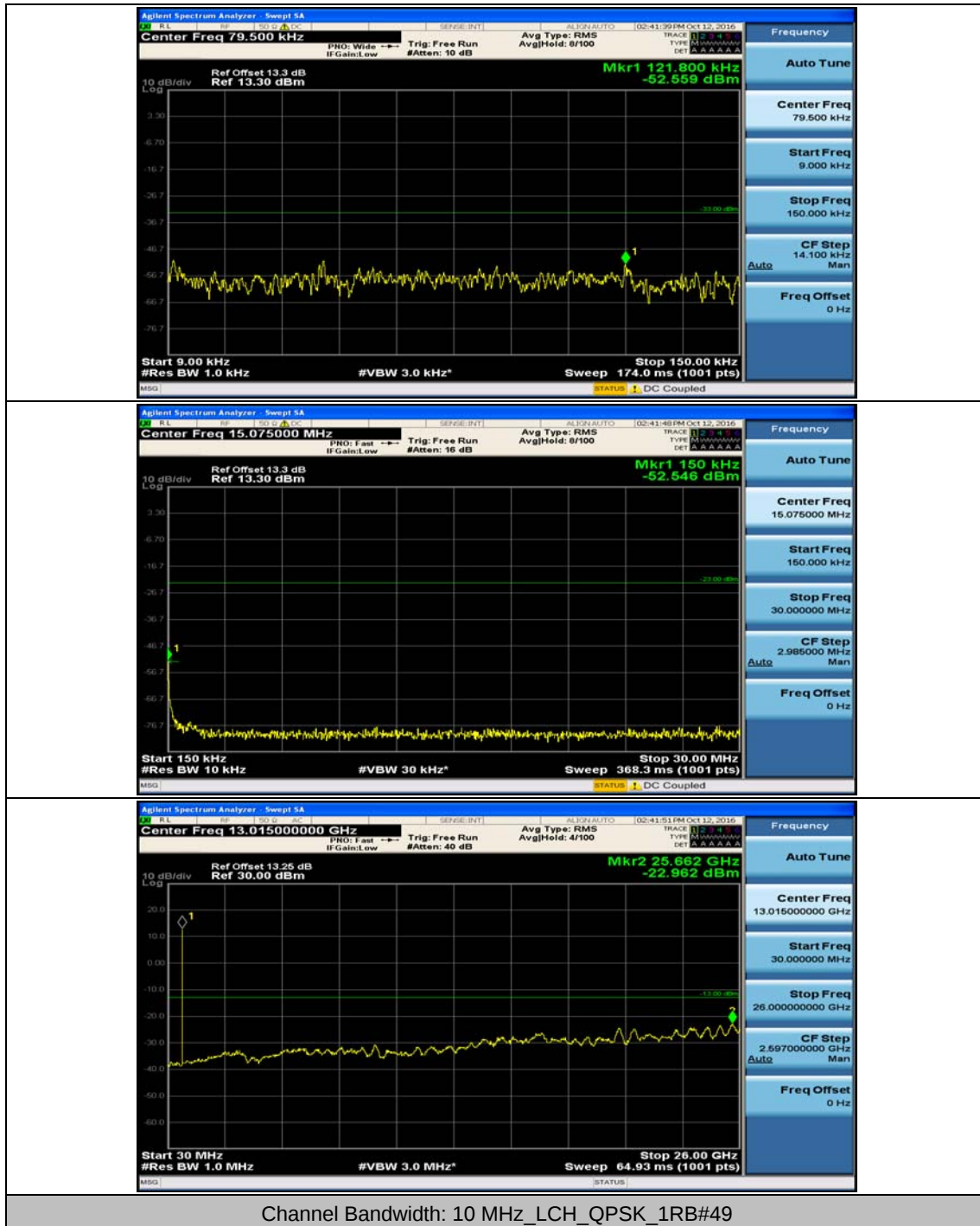


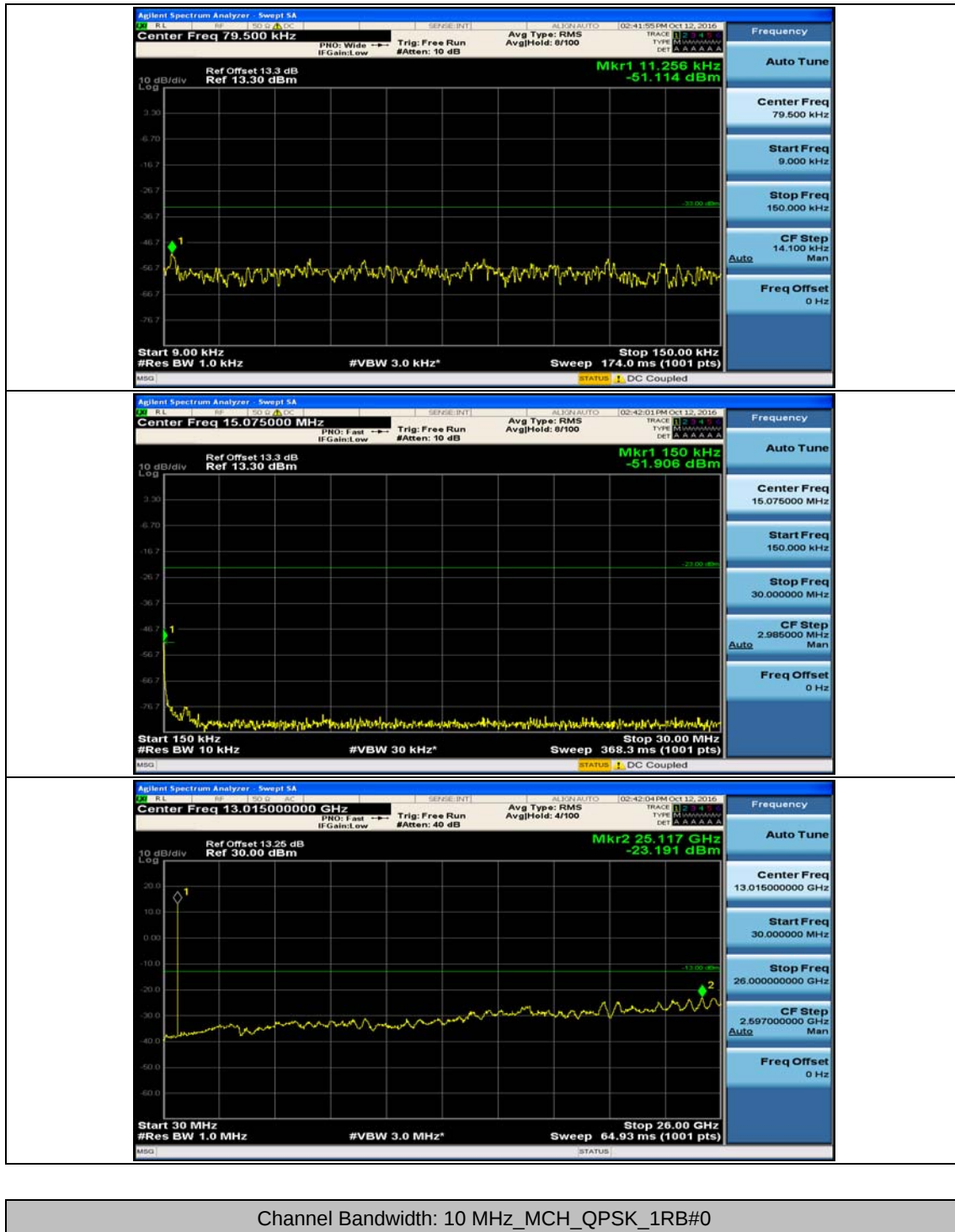


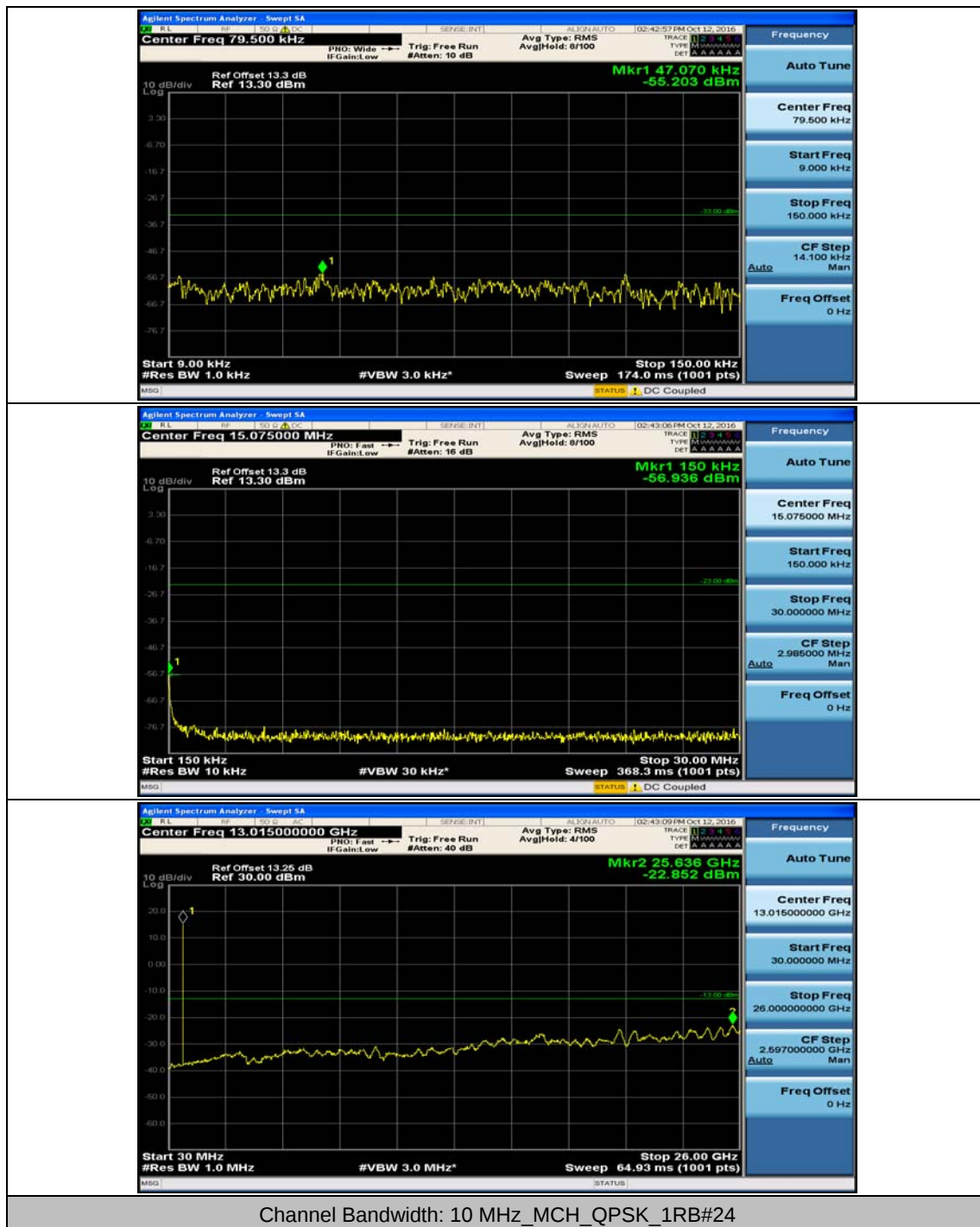


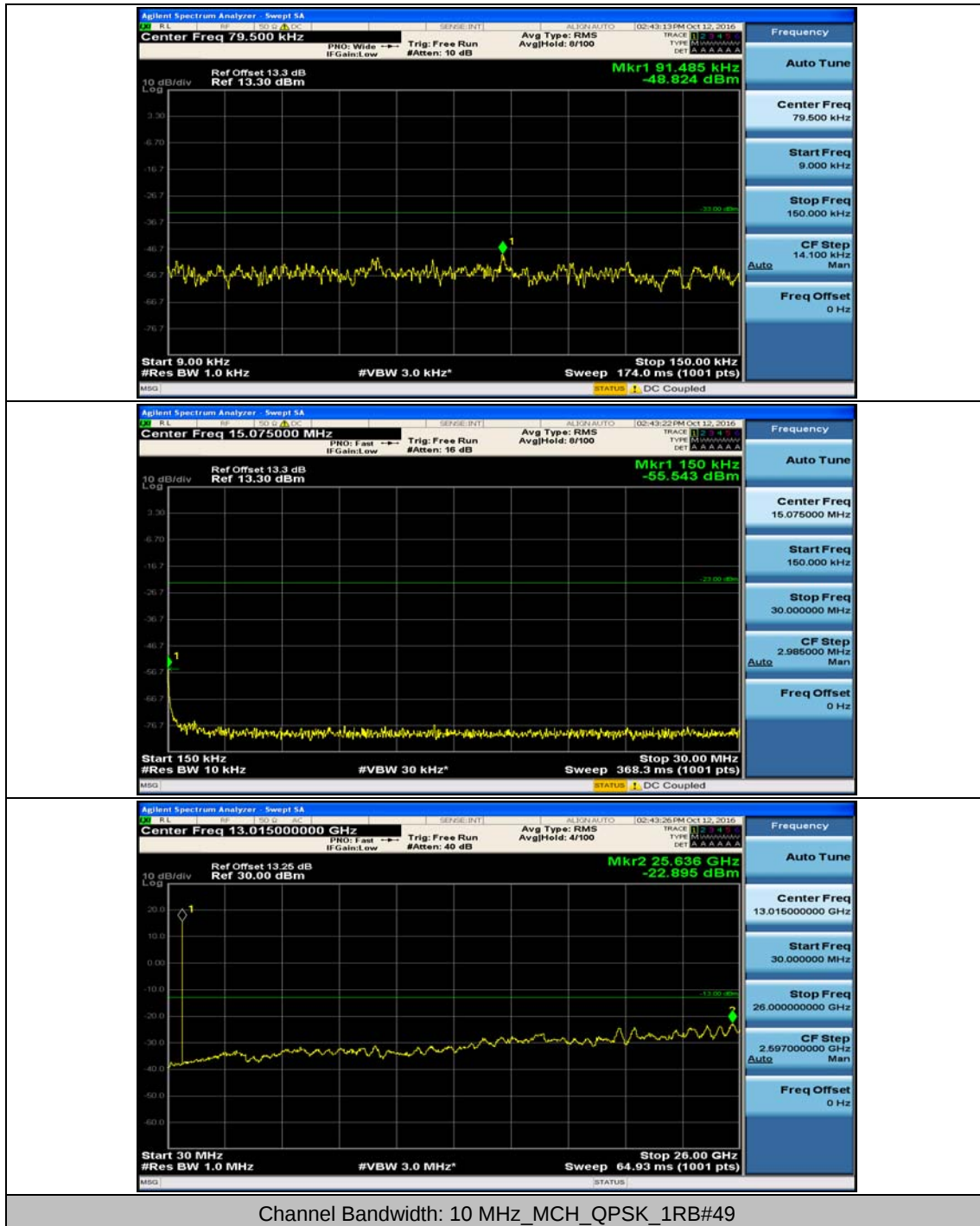
## Channel Bandwidth: 10 MHz

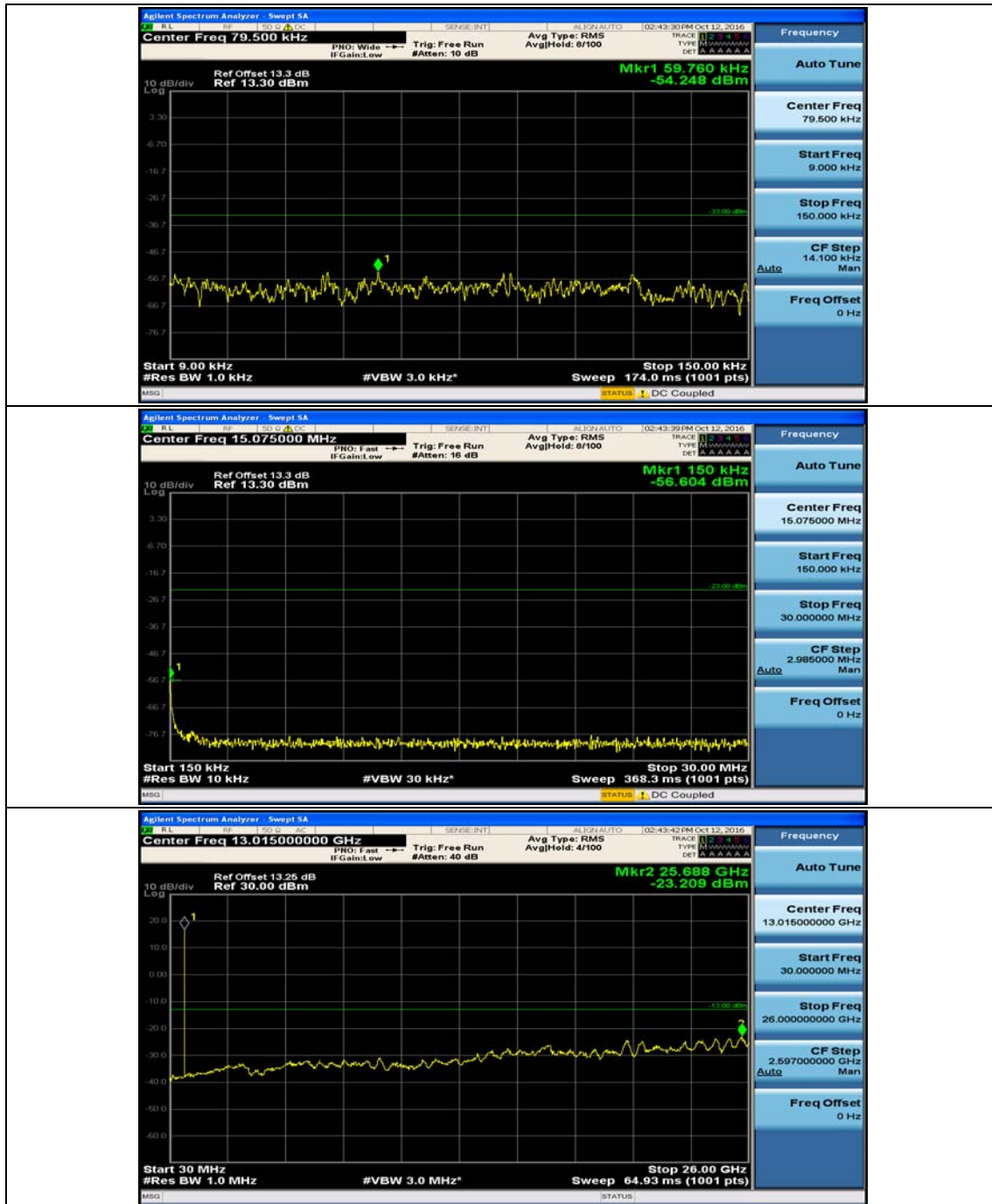




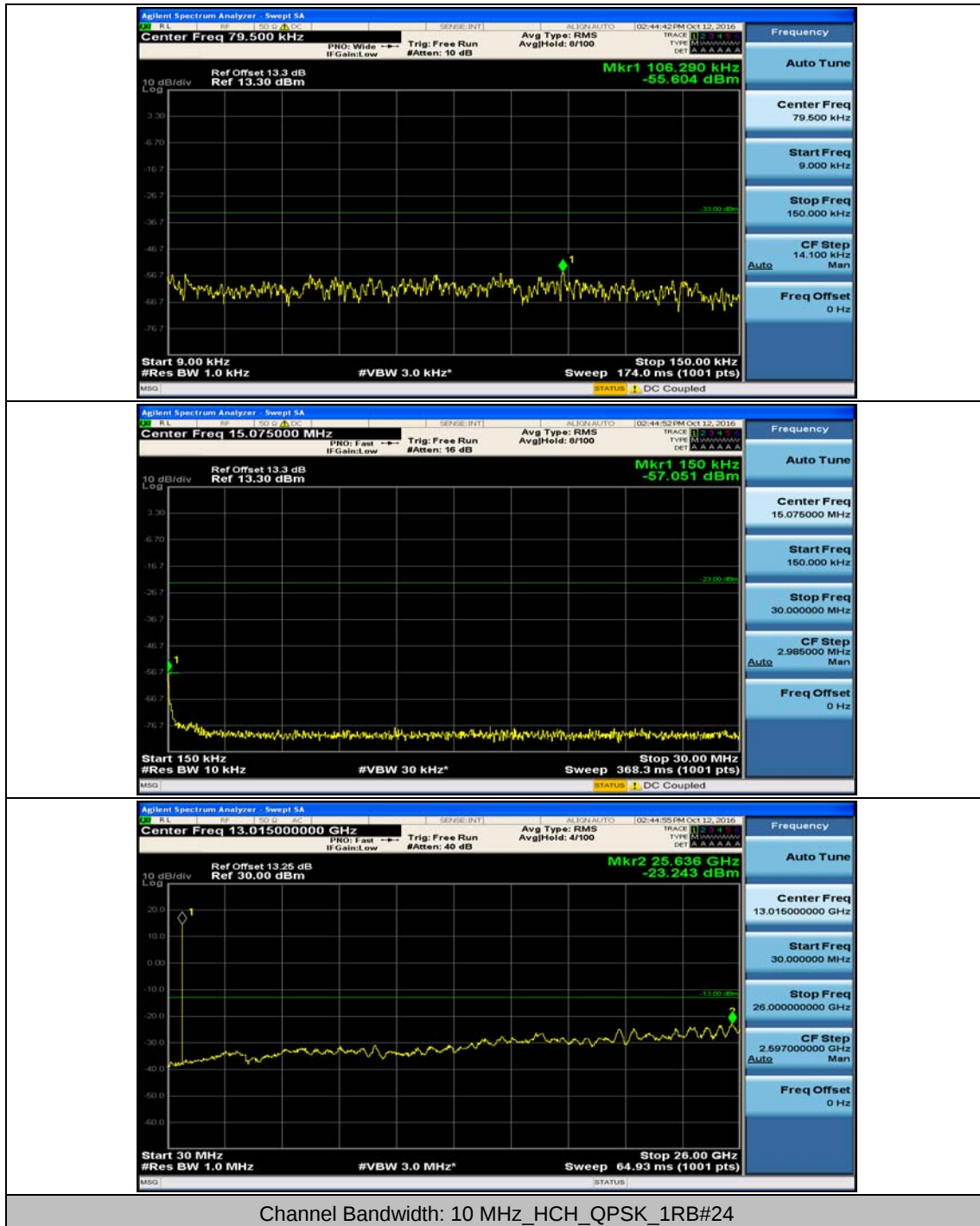


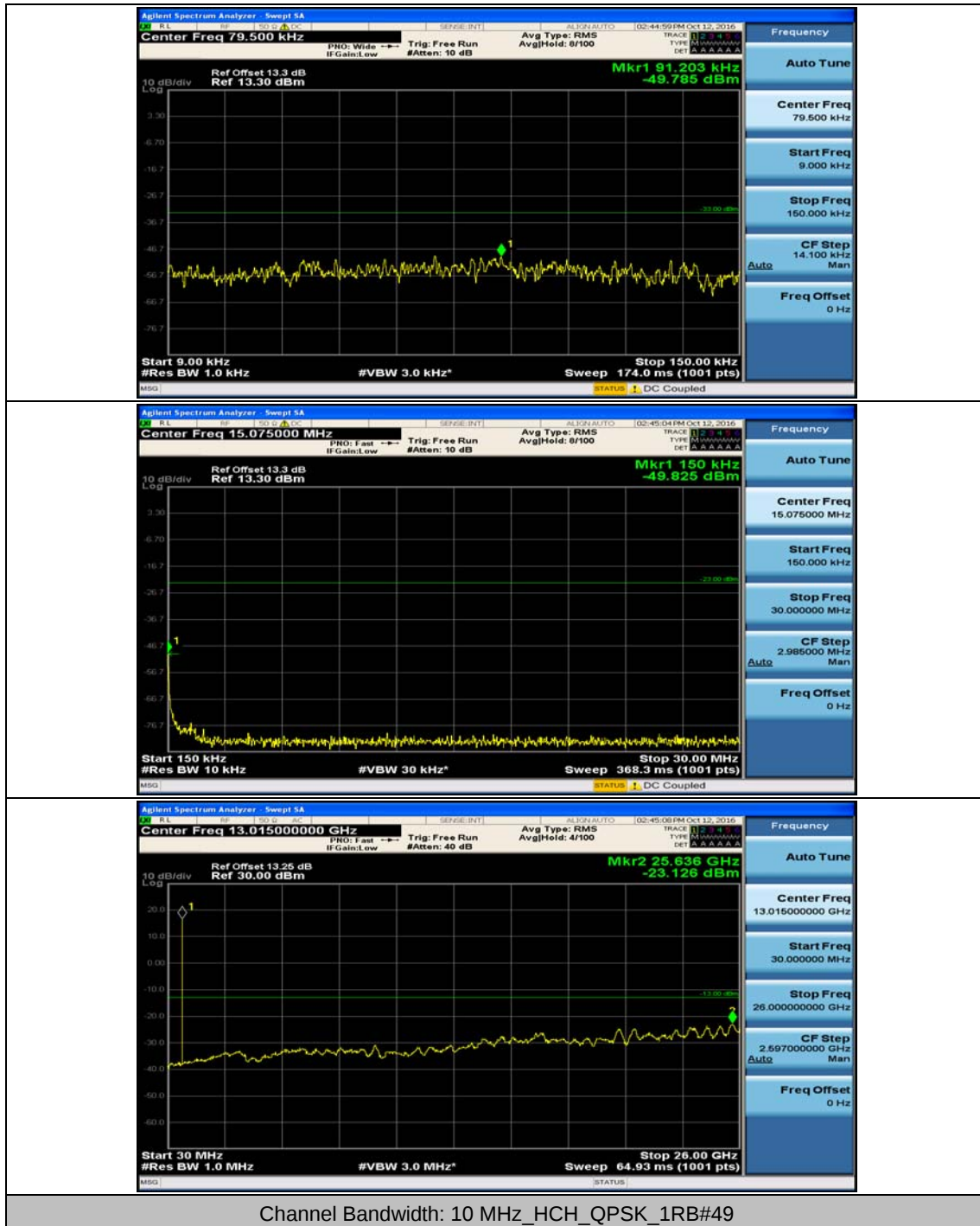


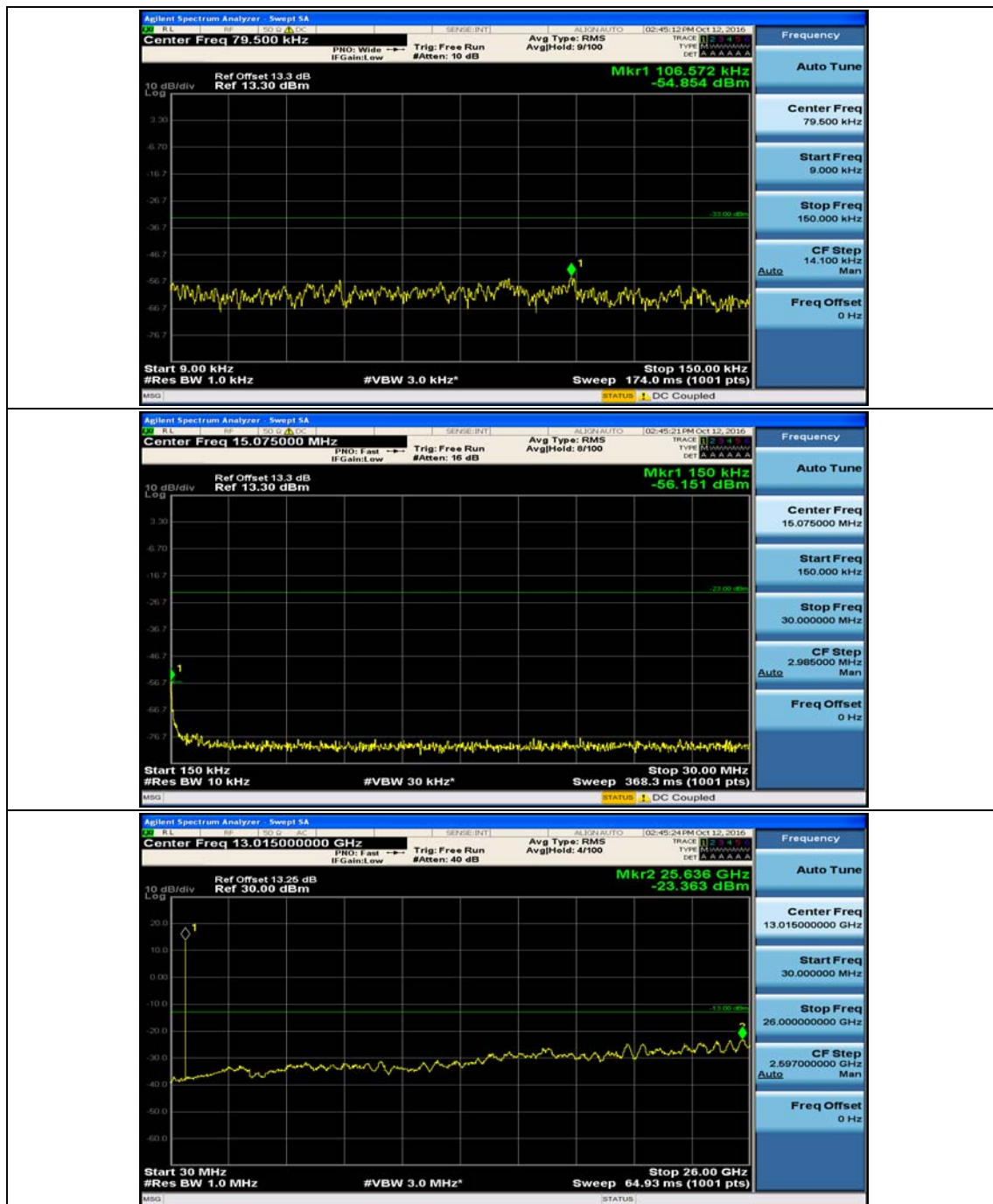




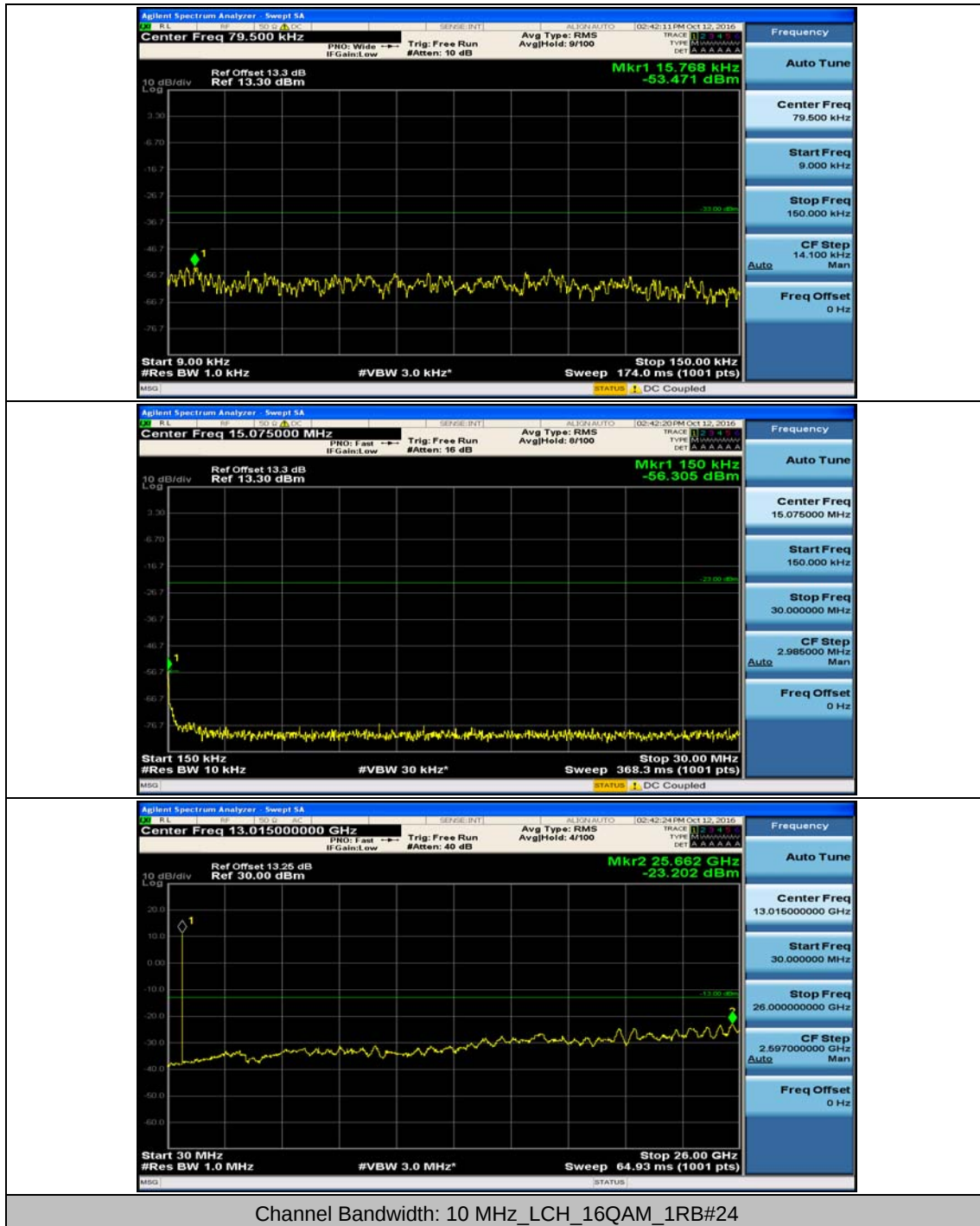
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#0

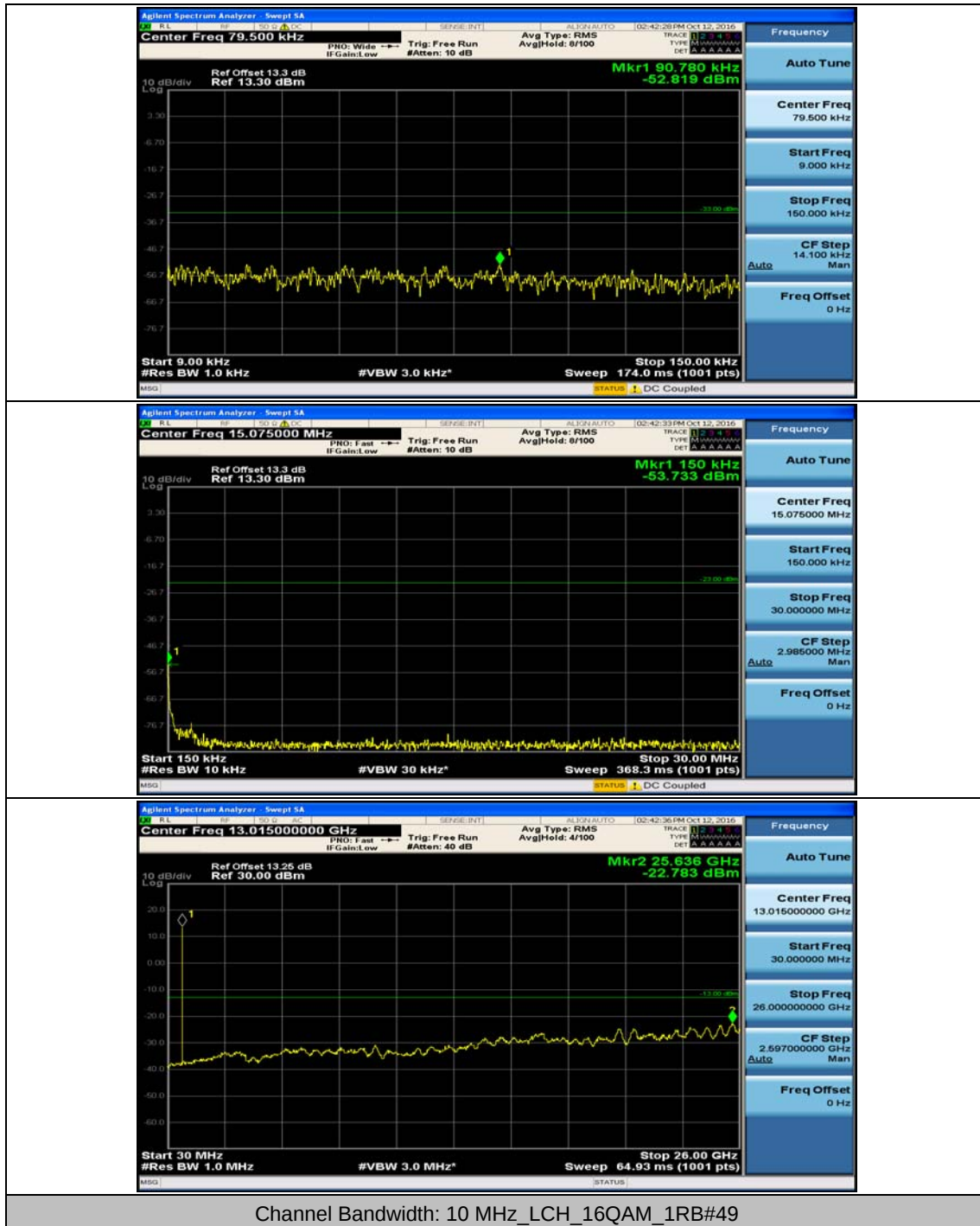


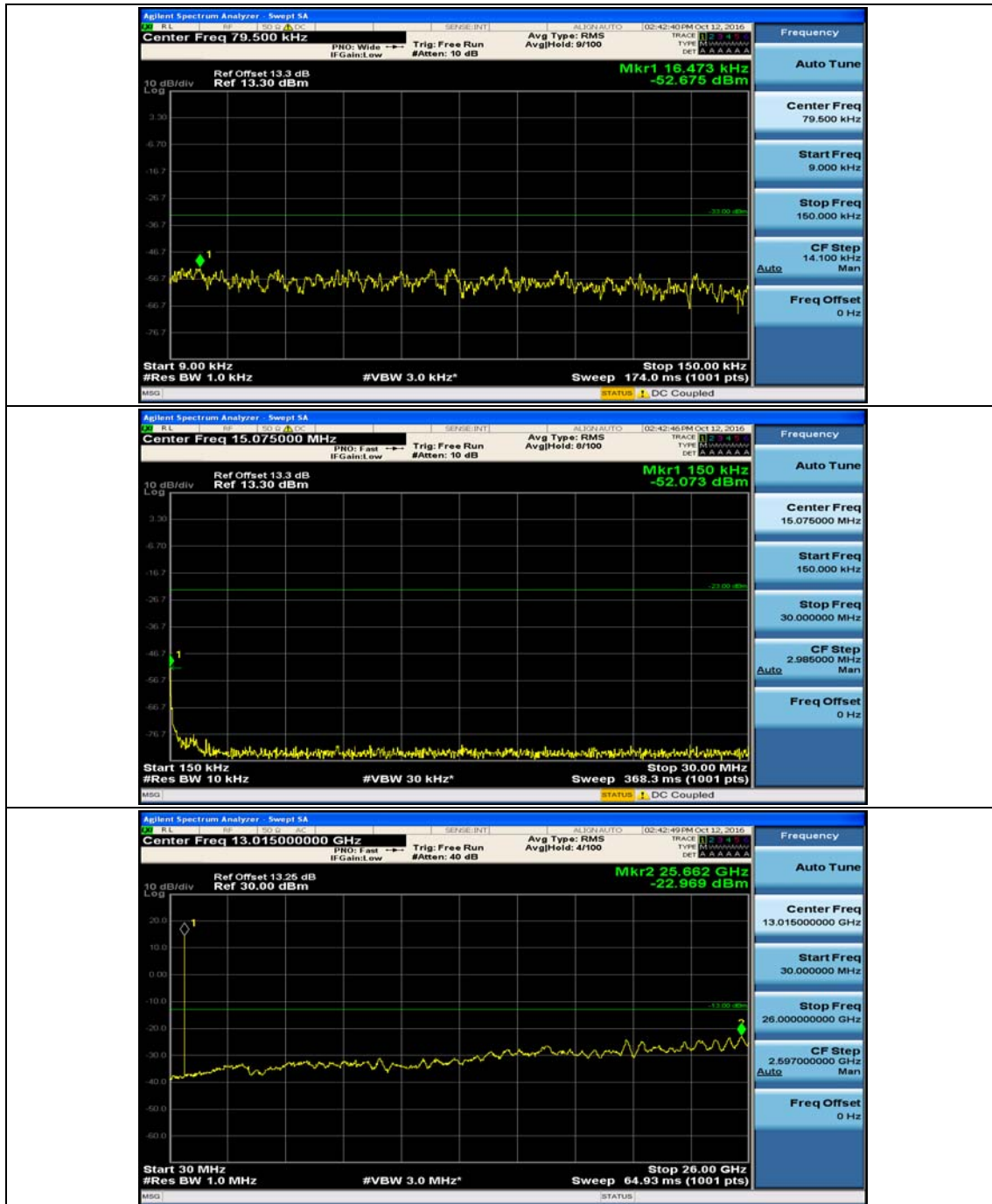




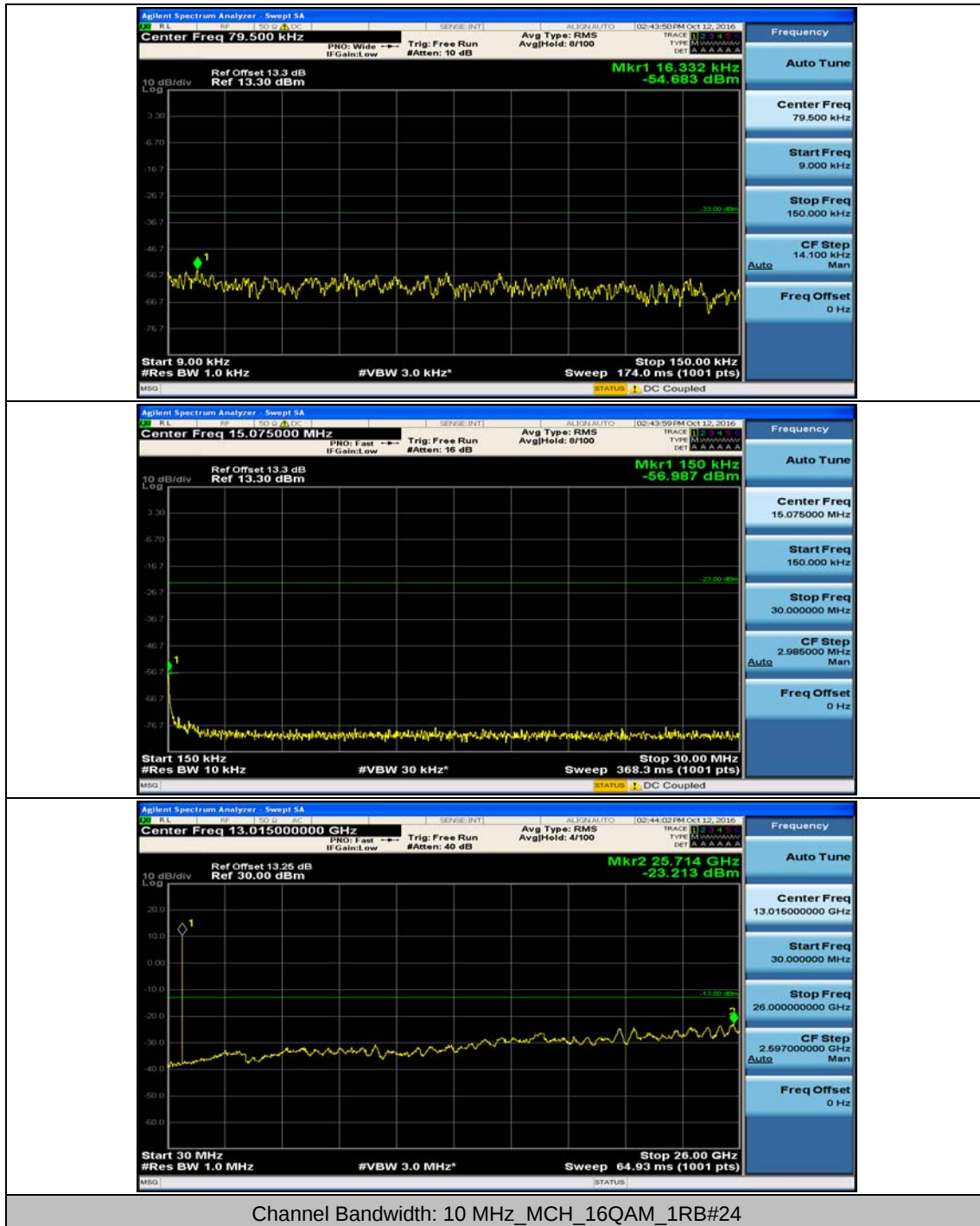
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0

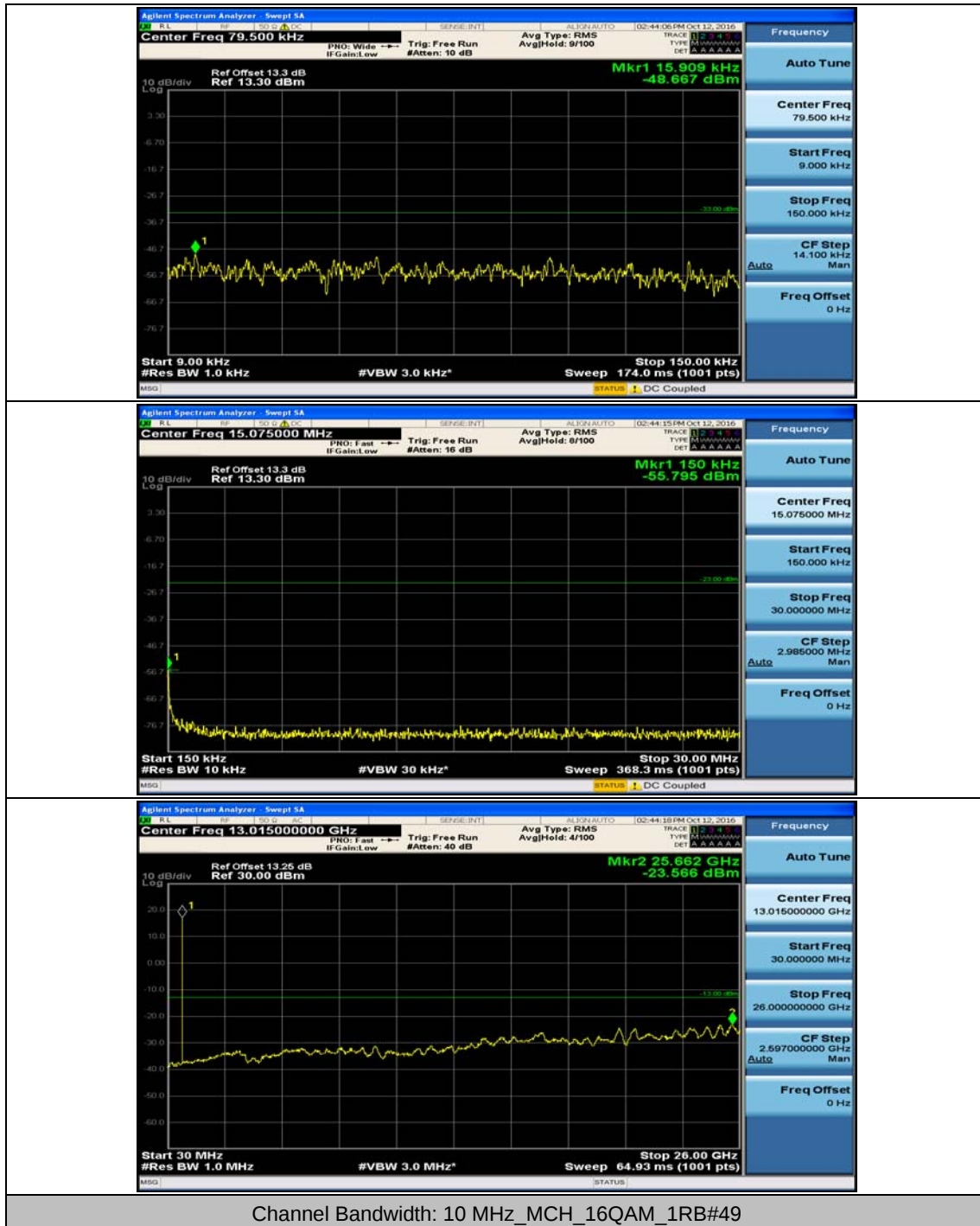


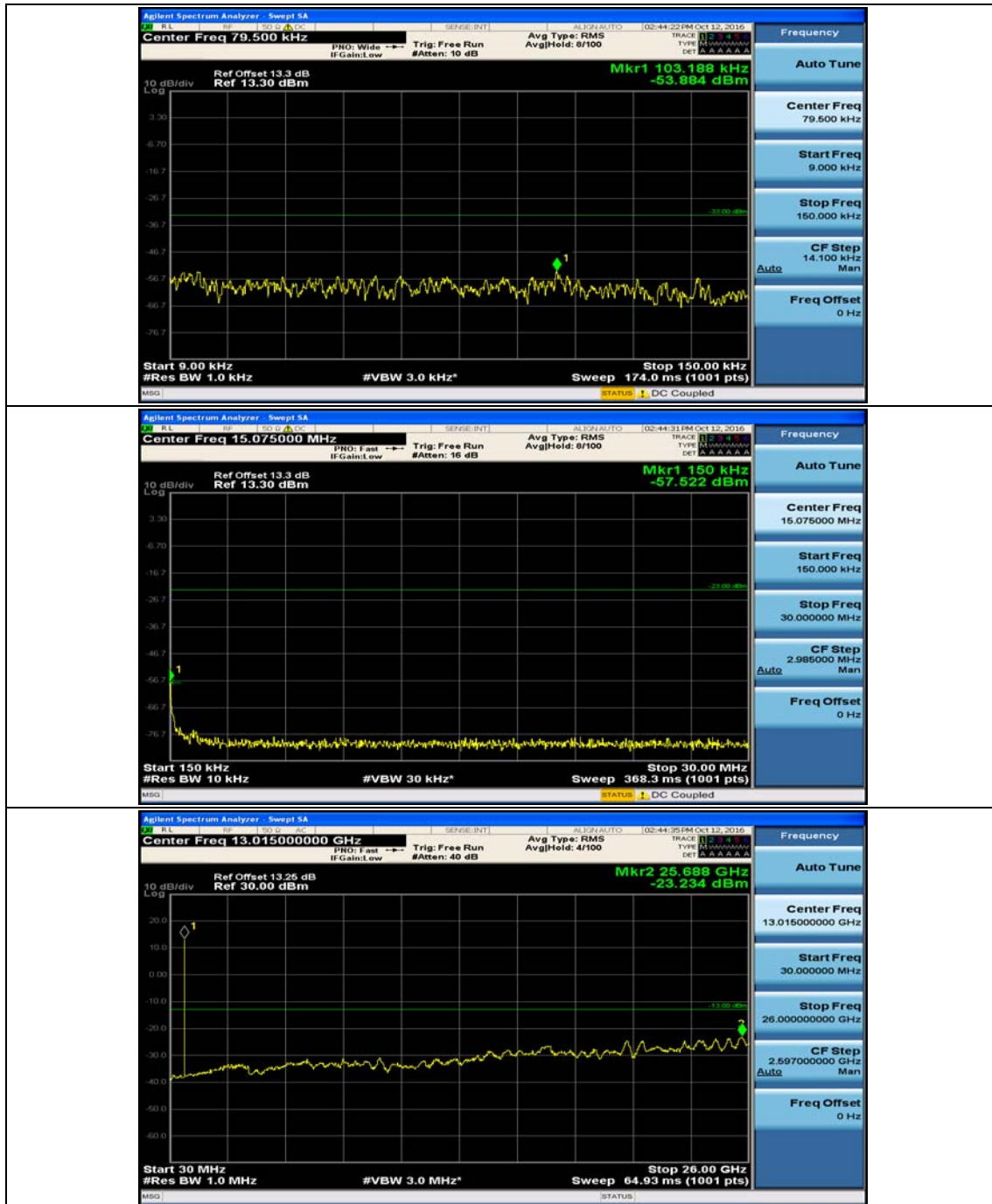




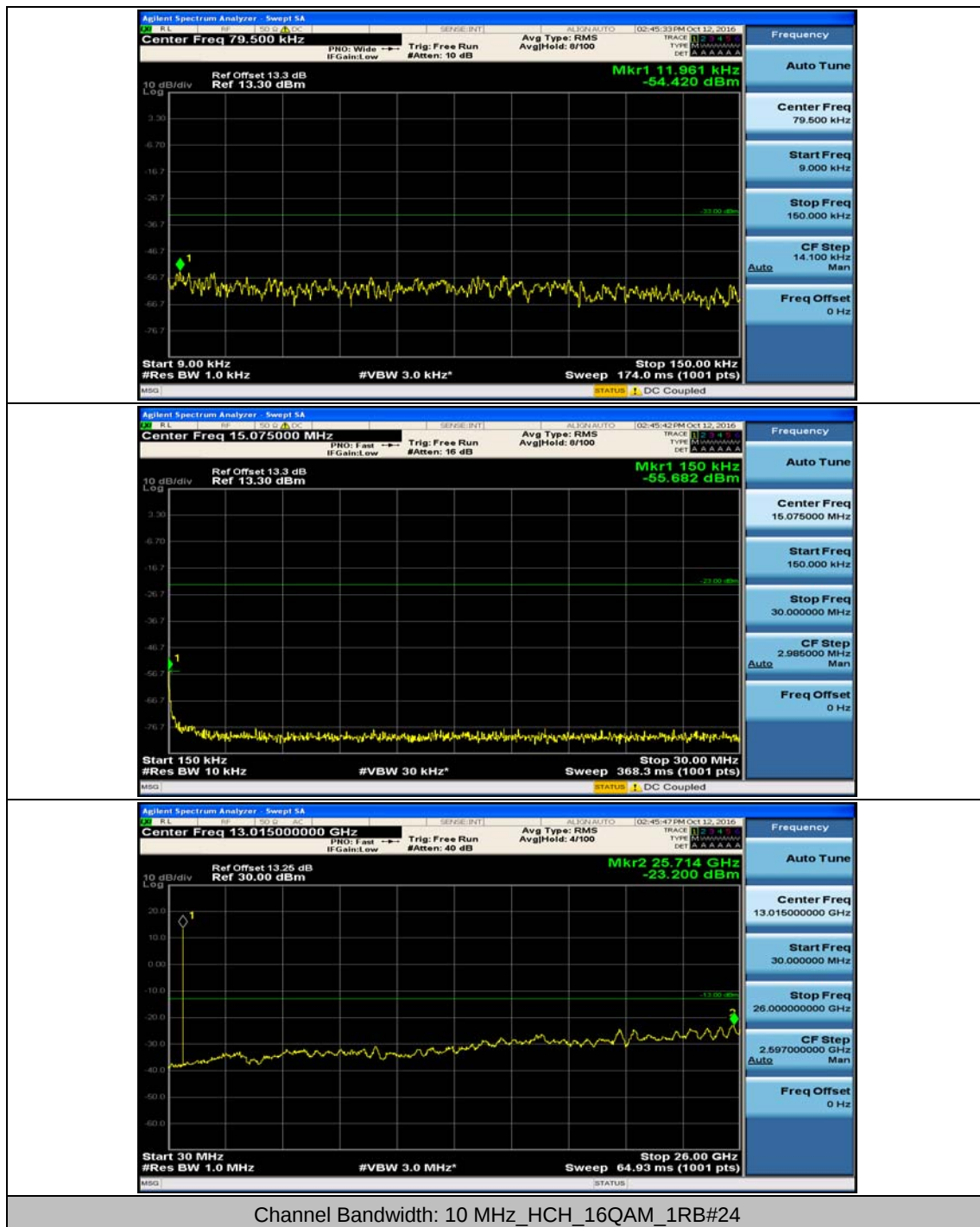
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0

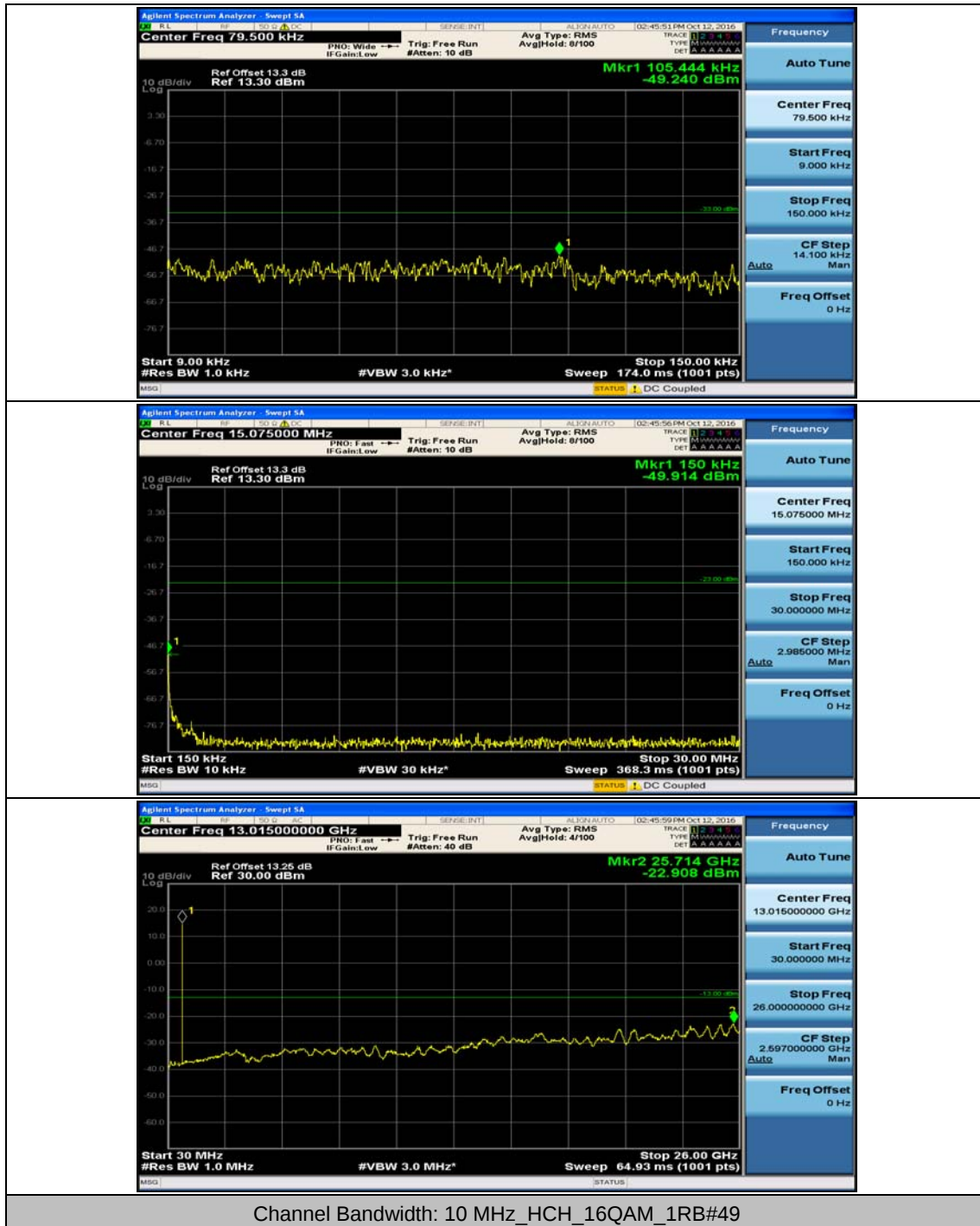


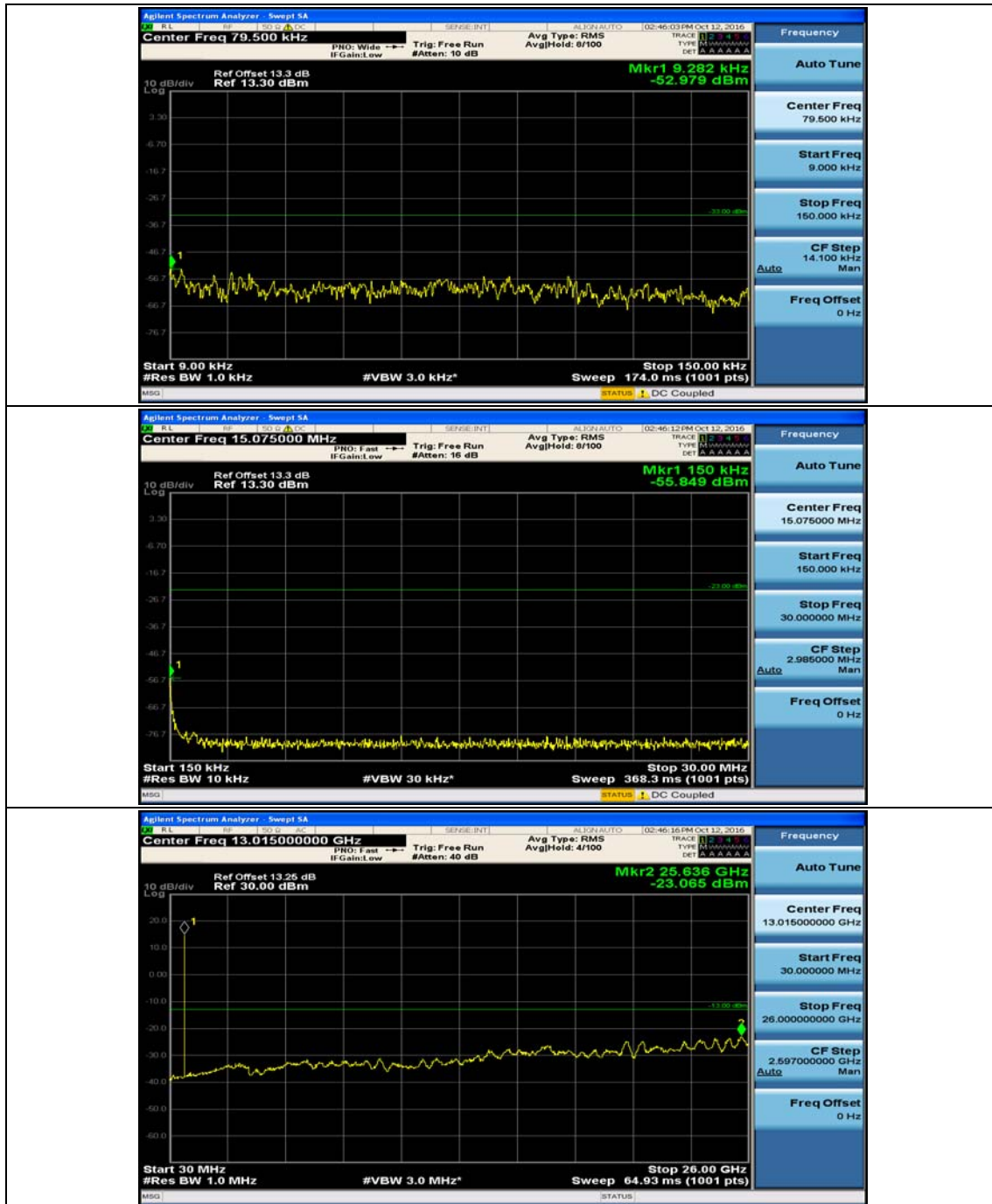




Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0







Note

9KHz~150KHz

Limit=[10Log(RBW<sub>measure</sub> / RBW<sub>10kHz</sub>) +43 + 10log(P)]dB

## Appendix F: Frequency Stability

### Test Result

#### Channel Bandwidth: 5 MHz

| Channel Bandwidth: 5 MHz |         |               |                  |                |                 |             |         |
|--------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage                  |         |               |                  |                |                 |             |         |
| Modulation               | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                     | LCH     | VL            | TN               | 4.41           | 0.006242        | ± 2.5       | PASS    |
|                          |         | VN            | TN               | 0.96           | 0.001359        | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 4.87           | 0.006893        | ± 2.5       | PASS    |
|                          | MCH     | VL            | TN               | 3.36           | 0.004732        | ± 2.5       | PASS    |
|                          |         | VN            | TN               | 0.65           | 0.000915        | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 4.91           | 0.006915        | ± 2.5       | PASS    |
|                          | HCH     | VL            | TN               | -0.05          | -0.000070       | ± 2.5       | PASS    |
|                          |         | VN            | TN               | 4.22           | 0.005915        | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 0.14           | 0.000196        | ± 2.5       | PASS    |
| 16QAM                    | LCH     | VL            | TN               | -1.06          | -0.001500       | ± 2.5       | PASS    |
|                          |         | VN            | TN               | -0.14          | -0.000198       | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 2.23           | 0.003156        | ± 2.5       | PASS    |
|                          | MCH     | VL            | TN               | -0.49          | -0.000690       | ± 2.5       | PASS    |
|                          |         | VN            | TN               | 2.84           | 0.004000        | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 4.49           | 0.006324        | ± 2.5       | PASS    |
|                          | HCH     | VL            | TN               | 2.97           | 0.004163        | ± 2.5       | PASS    |
|                          |         | VN            | TN               | -0.48          | -0.000673       | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 4.62           | 0.006475        | ± 2.5       | PASS    |
| Temperature              |         |               |                  |                |                 |             |         |
| Modulation               | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                     | LCH     | VN            | -30              | 0.54           | 0.000764        | ± 2.5       | PASS    |
|                          |         | VN            | -20              | 2.09           | 0.002958        | ± 2.5       | PASS    |
|                          |         | VN            | -10              | 3.35           | 0.004742        | ± 2.5       | PASS    |
|                          |         | VN            | 0                | 1.4            | 0.001982        | ± 2.5       | PASS    |
|                          |         | VN            | 10               | -0.95          | -0.001345       | ± 2.5       | PASS    |
|                          |         | VN            | 20               | 0              | 0.000000        | ± 2.5       | PASS    |
|                          |         | VN            | 30               | -1.77          | -0.002505       | ± 2.5       | PASS    |
|                          |         | VN            | 40               | -0.3           | -0.000425       | ± 2.5       | PASS    |
|                          |         | VN            | 50               | 4.74           | 0.006709        | ± 2.5       | PASS    |
|                          | MCH     | VN            | -30              | 0.11           | 0.000155        | ± 2.5       | PASS    |
|                          |         | VN            | -20              | 4.94           | 0.006958        | ± 2.5       | PASS    |
|                          |         | VN            | -10              | -1.73          | -0.002437       | ± 2.5       | PASS    |

|       |     |    |     |       |           |       |      |
|-------|-----|----|-----|-------|-----------|-------|------|
|       |     | VN | 0   | 4.51  | 0.006352  | ± 2.5 | PASS |
|       |     | VN | 10  | 4.01  | 0.005648  | ± 2.5 | PASS |
|       |     | VN | 20  | -0.79 | -0.001113 | ± 2.5 | PASS |
|       |     | VN | 30  | -0.54 | -0.000761 | ± 2.5 | PASS |
|       |     | VN | 40  | 0.68  | 0.000958  | ± 2.5 | PASS |
|       |     | VN | 50  | 3.41  | 0.004803  | ± 2.5 | PASS |
|       | HCH | VN | -30 | -0.56 | -0.000785 | ± 2.5 | PASS |
|       |     | VN | -20 | 3.3   | 0.004625  | ± 2.5 | PASS |
|       |     | VN | -10 | 3.9   | 0.005466  | ± 2.5 | PASS |
|       |     | VN | 0   | 1.93  | 0.002705  | ± 2.5 | PASS |
|       |     | VN | 10  | -1.93 | -0.002705 | ± 2.5 | PASS |
|       |     | VN | 20  | -1.46 | -0.002046 | ± 2.5 | PASS |
|       |     | VN | 30  | 4.18  | 0.005858  | ± 2.5 | PASS |
|       |     | VN | 40  | 1.36  | 0.001906  | ± 2.5 | PASS |
|       |     | VN | 50  | 3.68  | 0.005158  | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 4.61  | 0.006525  | ± 2.5 | PASS |
|       |     | VN | -20 | 0.08  | 0.000113  | ± 2.5 | PASS |
|       |     | VN | -10 | 0.3   | 0.000425  | ± 2.5 | PASS |
|       |     | VN | 0   | 2.4   | 0.003397  | ± 2.5 | PASS |
|       |     | VN | 10  | -0.74 | -0.001047 | ± 2.5 | PASS |
|       |     | VN | 20  | 0.46  | 0.000651  | ± 2.5 | PASS |
|       |     | VN | 30  | 0.82  | 0.001161  | ± 2.5 | PASS |
|       |     | VN | 40  | 0.41  | 0.000580  | ± 2.5 | PASS |
|       |     | VN | 50  | 3.72  | 0.005265  | ± 2.5 | PASS |
|       | MCH | VN | -30 | -0.13 | -0.000182 | ± 2.5 | PASS |
|       |     | VN | -20 | -1.14 | -0.001598 | ± 2.5 | PASS |
|       |     | VN | -10 | 3.9   | 0.005466  | ± 2.5 | PASS |
|       |     | VN | 0   | 1.96  | 0.002747  | ± 2.5 | PASS |
|       |     | VN | 10  | 1.12  | 0.001570  | ± 2.5 | PASS |
|       |     | VN | 20  | 2.61  | 0.003658  | ± 2.5 | PASS |
|       |     | VN | 30  | -1.8  | -0.002523 | ± 2.5 | PASS |
|       |     | VN | 40  | -0.37 | -0.000519 | ± 2.5 | PASS |
|       |     | VN | 50  | 4.3   | 0.006027  | ± 2.5 | PASS |
|       | HCH | VN | -30 | 2.92  | 0.004093  | ± 2.5 | PASS |
|       |     | VN | -20 | 0.8   | 0.001121  | ± 2.5 | PASS |
|       |     | VN | -10 | 0.69  | 0.000967  | ± 2.5 | PASS |
|       |     | VN | 0   | 3.96  | 0.005550  | ± 2.5 | PASS |
|       |     | VN | 10  | 2.28  | 0.003196  | ± 2.5 | PASS |
|       |     | VN | 20  | -1.94 | -0.002719 | ± 2.5 | PASS |
|       |     | VN | 30  | 0.57  | 0.000799  | ± 2.5 | PASS |
|       |     | VN | 40  | 3.25  | 0.004555  | ± 2.5 | PASS |

|  |  |    |    |      |          |       |      |
|--|--|----|----|------|----------|-------|------|
|  |  | VN | 50 | 1.38 | 0.001934 | ± 2.5 | PASS |
|--|--|----|----|------|----------|-------|------|

### Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz |         |               |                  |                |                 |             |         |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage                   |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VL            | TN               | -1.64          | -0.002313       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 4.92           | 0.006939        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 4.38           | 0.006178        | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | -0.58          | -0.000817       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 2.41           | 0.003394        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -1.29          | -0.001817       | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | 1.14           | 0.001603        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 2.95           | 0.004149        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 0.38           | 0.000534        | ± 2.5       | PASS    |
| 16QAM                     | LCH     | VL            | TN               | 0.41           | 0.000578        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -1.85          | -0.002609       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -1.12          | -0.001580       | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | -0.98          | -0.001380       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -1.45          | -0.002042       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 0.94           | 0.001324        | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | 0.45           | 0.000633        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 0.94           | 0.001322        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -0.13          | -0.000183       | ± 2.5       | PASS    |
| Temperature               |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VN            | -30              | -0.98          | -0.001382       | ± 2.5       | PASS    |
|                           |         | VN            | -20              | 3.79           | 0.005346        | ± 2.5       | PASS    |
|                           |         | VN            | -10              | -0.69          | -0.000973       | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 0.26           | 0.000367        | ± 2.5       | PASS    |
|                           |         | VN            | 10               | 3.09           | 0.004358        | ± 2.5       | PASS    |
|                           |         | VN            | 20               | 3.18           | 0.004485        | ± 2.5       | PASS    |
|                           |         | VN            | 30               | -1.7           | -0.002398       | ± 2.5       | PASS    |
|                           |         | VN            | 40               | 2.98           | 0.004203        | ± 2.5       | PASS    |
|                           |         | VN            | 50               | -0.66          | -0.000931       | ± 2.5       | PASS    |
|                           | MCH     | VN            | -30              | 0.16           | 0.000225        | ± 2.5       | PASS    |
|                           |         | VN            | -20              | 3.06           | 0.004310        | ± 2.5       | PASS    |
|                           |         | VN            | -10              | -1.74          | -0.002451       | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 2.68           | 0.003775        | ± 2.5       | PASS    |
|                           |         | VN            | 10               | 4.97           | 0.007000        | ± 2.5       | PASS    |

|       |     |    |     |       |           |       |      |
|-------|-----|----|-----|-------|-----------|-------|------|
|       |     | VN | 20  | 4.3   | 0.006056  | ± 2.5 | PASS |
|       |     | VN | 30  | 4.46  | 0.006282  | ± 2.5 | PASS |
|       |     | VN | 40  | -0.93 | -0.001310 | ± 2.5 | PASS |
|       |     | VN | 50  | 1.51  | 0.002127  | ± 2.5 | PASS |
|       | HCH | VN | -30 | -0.37 | -0.000520 | ± 2.5 | PASS |
|       |     | VN | -20 | 1.09  | 0.001533  | ± 2.5 | PASS |
|       |     | VN | -10 | 4.77  | 0.006709  | ± 2.5 | PASS |
|       |     | VN | 0   | 1.4   | 0.001969  | ± 2.5 | PASS |
|       |     | VN | 10  | -0.37 | -0.000520 | ± 2.5 | PASS |
|       |     | VN | 20  | 0.34  | 0.000478  | ± 2.5 | PASS |
|       |     | VN | 30  | 3.56  | 0.005007  | ± 2.5 | PASS |
|       |     | VN | 40  | 2.69  | 0.003783  | ± 2.5 | PASS |
|       |     | VN | 50  | -0.06 | -0.000084 | ± 2.5 | PASS |
|       |     |    |     |       |           |       |      |
| 16QAM | LCH | VN | -30 | 3.94  | 0.005549  | ± 2.5 | PASS |
|       |     | VN | -20 | -1.01 | -0.001423 | ± 2.5 | PASS |
|       |     | VN | -10 | 1.28  | 0.001803  | ± 2.5 | PASS |
|       |     | VN | 0   | -1.38 | -0.001944 | ± 2.5 | PASS |
|       |     | VN | 10  | 4.11  | 0.005789  | ± 2.5 | PASS |
|       |     | VN | 20  | 3.4   | 0.004789  | ± 2.5 | PASS |
|       |     | VN | 30  | 3.56  | 0.005014  | ± 2.5 | PASS |
|       |     | VN | 40  | 4.12  | 0.005803  | ± 2.5 | PASS |
|       |     | VN | 50  | -0.56 | -0.000789 | ± 2.5 | PASS |
|       |     |    |     |       |           |       |      |
|       | MCH | VN | -30 | -1.23 | -0.001730 | ± 2.5 | PASS |
|       |     | VN | -20 | -0.9  | -0.001266 | ± 2.5 | PASS |
|       |     | VN | -10 | -0.09 | -0.000127 | ± 2.5 | PASS |
|       |     | VN | 0   | 0.09  | 0.000127  | ± 2.5 | PASS |
|       |     | VN | 10  | 3.11  | 0.004374  | ± 2.5 | PASS |
|       |     | VN | 20  | 0.09  | 0.000127  | ± 2.5 | PASS |
|       |     | VN | 30  | -0.46 | -0.000647 | ± 2.5 | PASS |
|       |     | VN | 40  | 2.28  | 0.003207  | ± 2.5 | PASS |
|       |     | VN | 50  | 1.92  | 0.002700  | ± 2.5 | PASS |
|       | HCH | VN | -30 | 4.02  | 0.005654  | ± 2.5 | PASS |
|       |     | VN | -20 | 4.4   | 0.006188  | ± 2.5 | PASS |
|       |     | VN | -10 | 3.96  | 0.005570  | ± 2.5 | PASS |
|       |     | VN | 0   | 2.44  | 0.003432  | ± 2.5 | PASS |
|       |     | VN | 10  | 3.69  | 0.005190  | ± 2.5 | PASS |
|       |     | VN | 20  | 0.35  | 0.000492  | ± 2.5 | PASS |
|       |     | VN | 30  | 2.91  | 0.004093  | ± 2.5 | PASS |
|       |     | VN | 40  | 3.9   | 0.005485  | ± 2.5 | PASS |
|       |     | VN | 50  | 1.36  | 0.001913  | ± 2.5 | PASS |