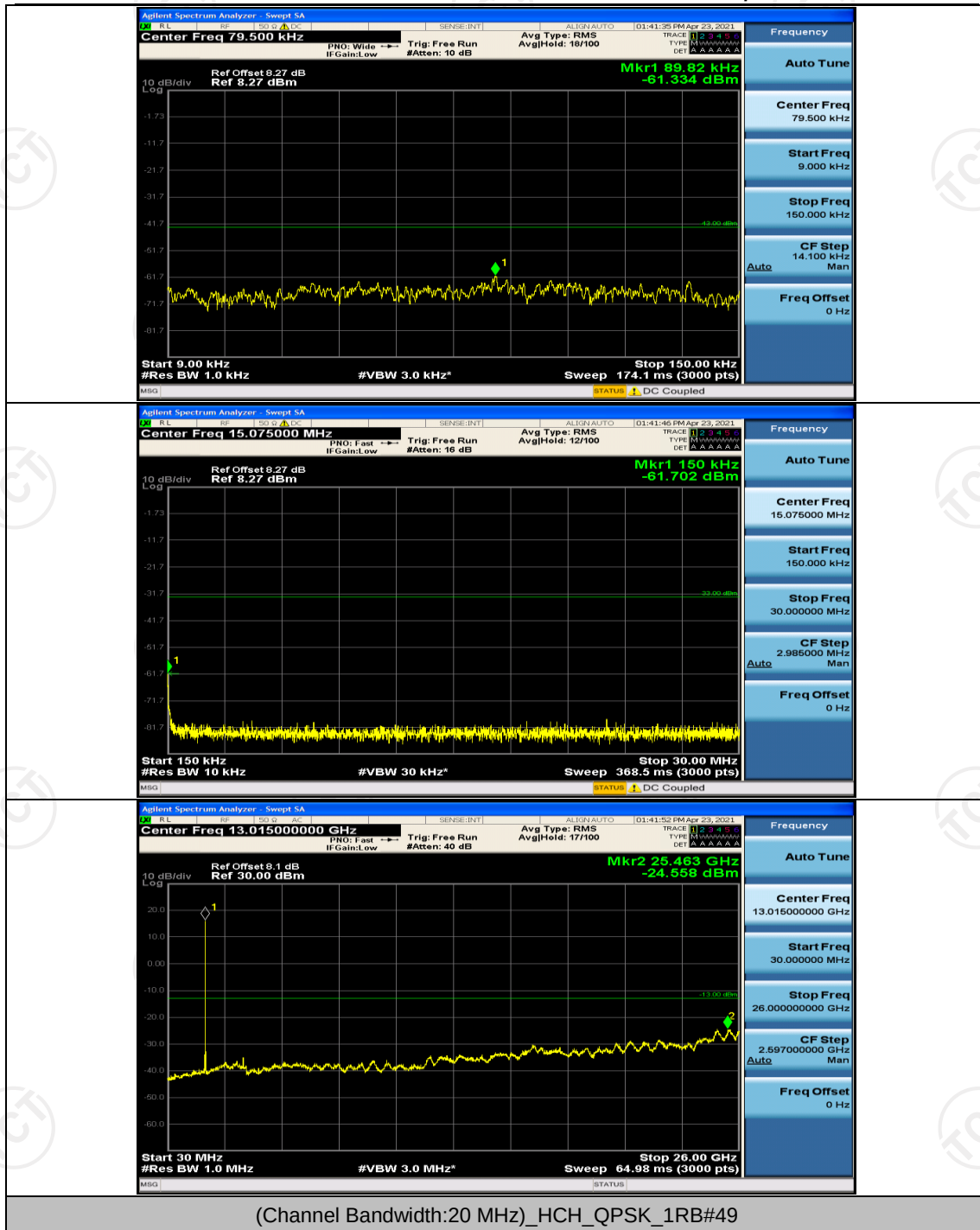
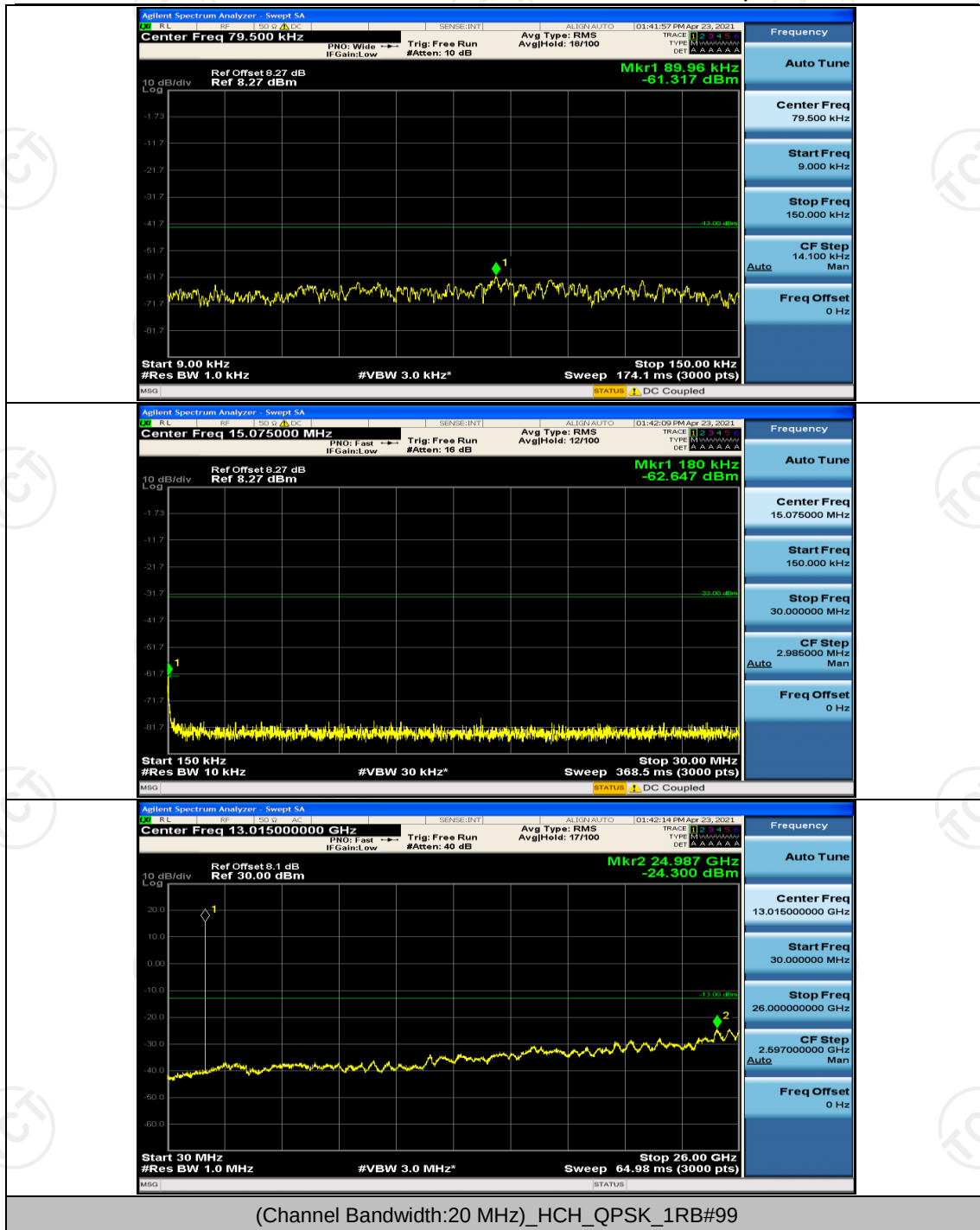
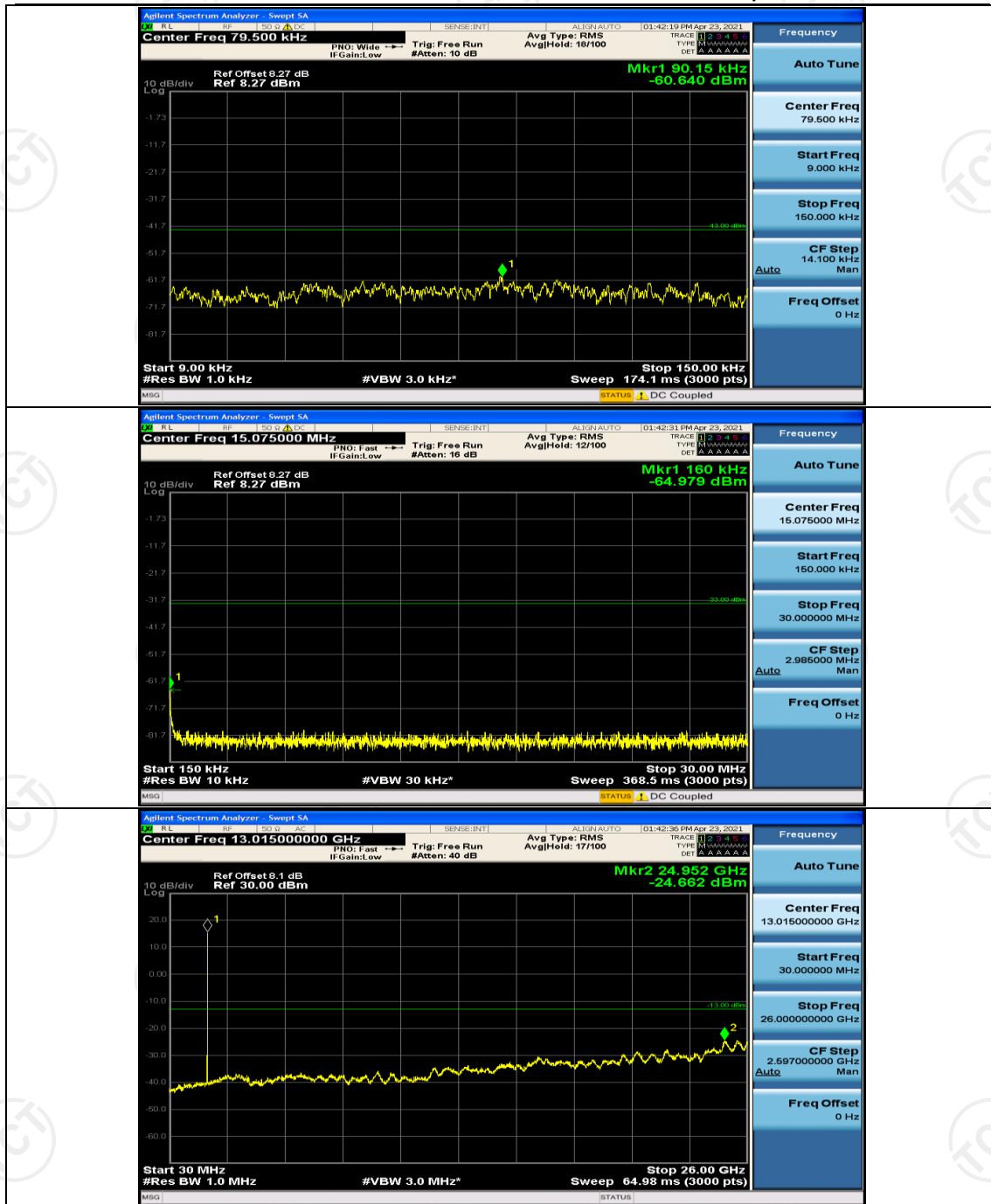
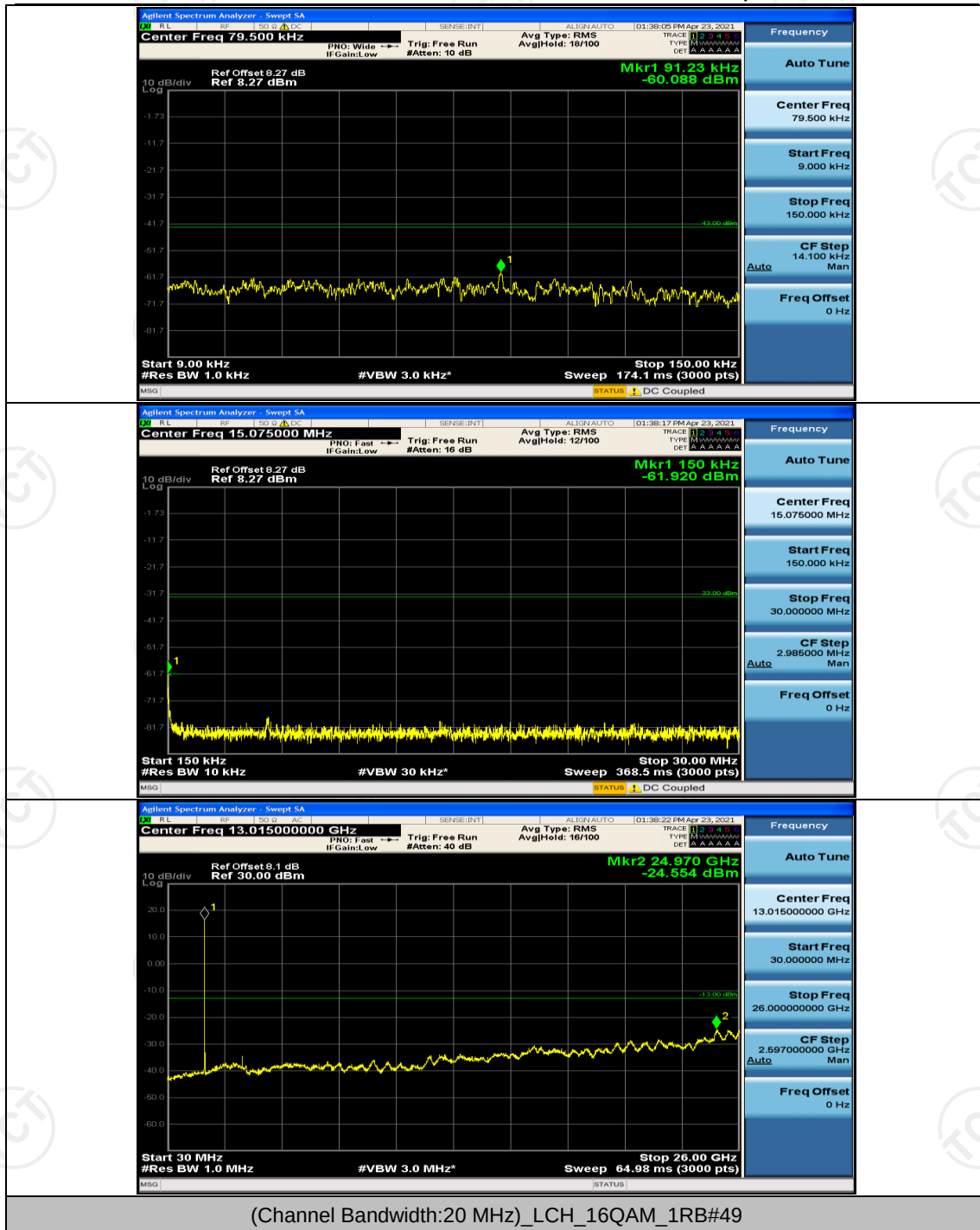


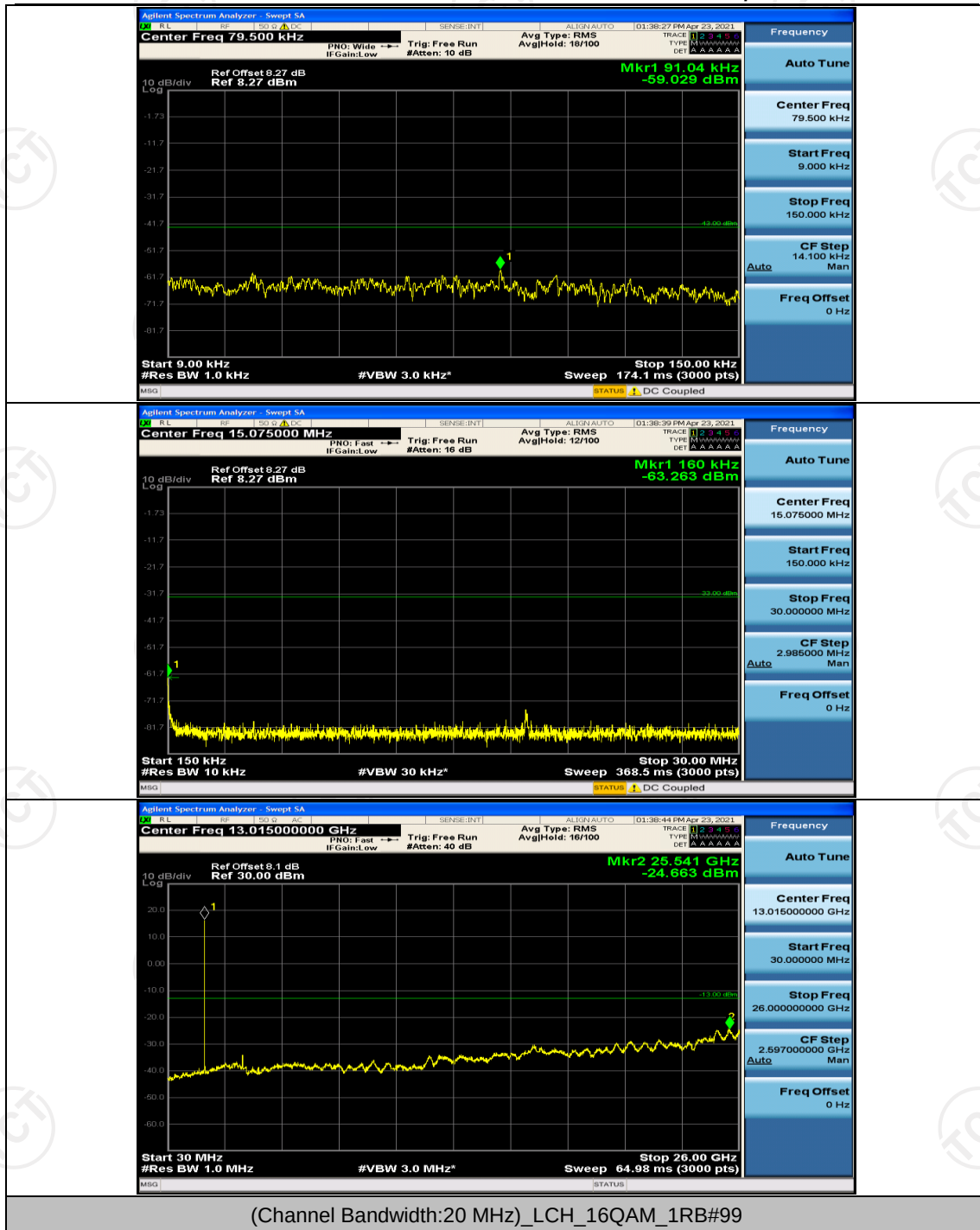


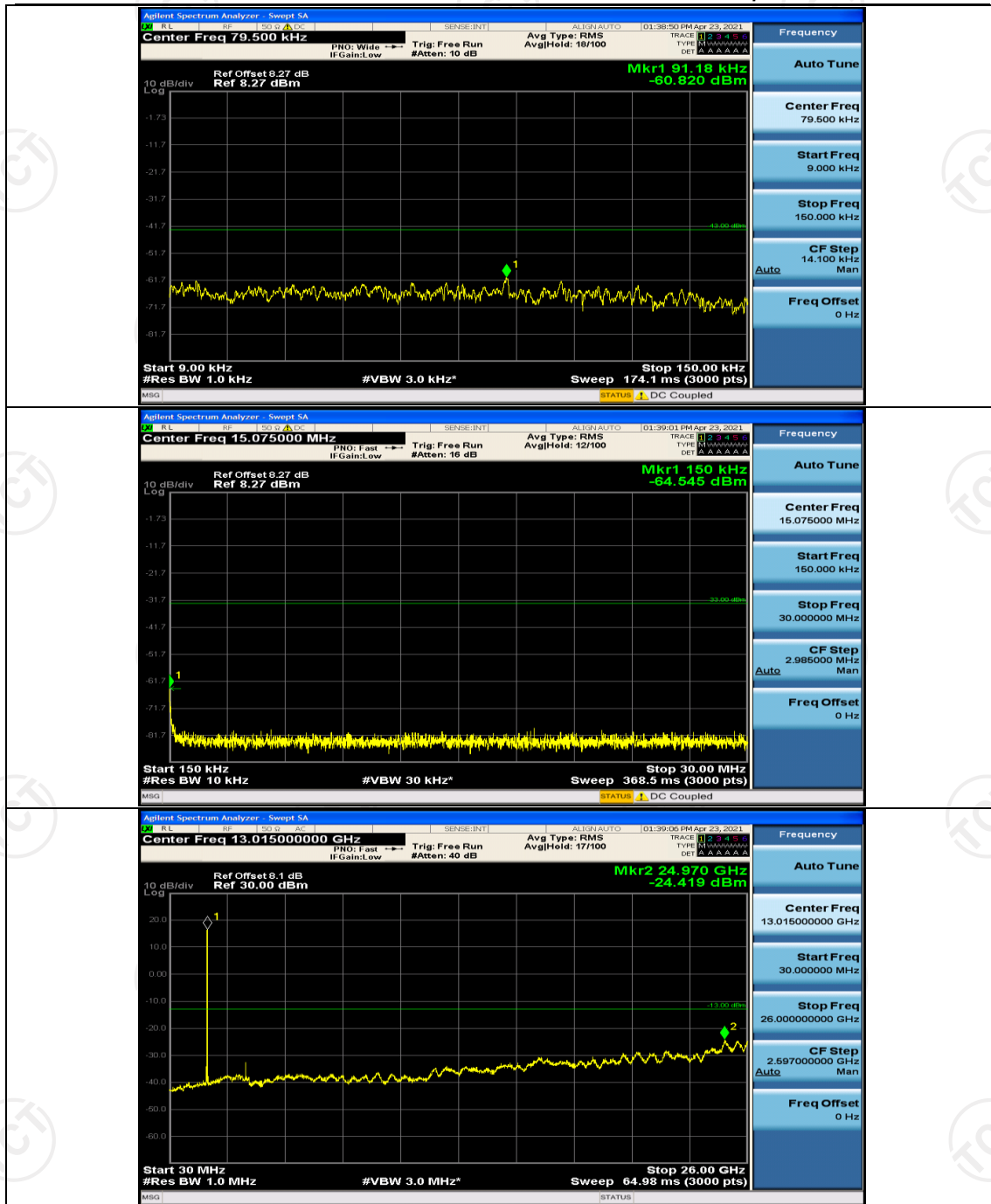




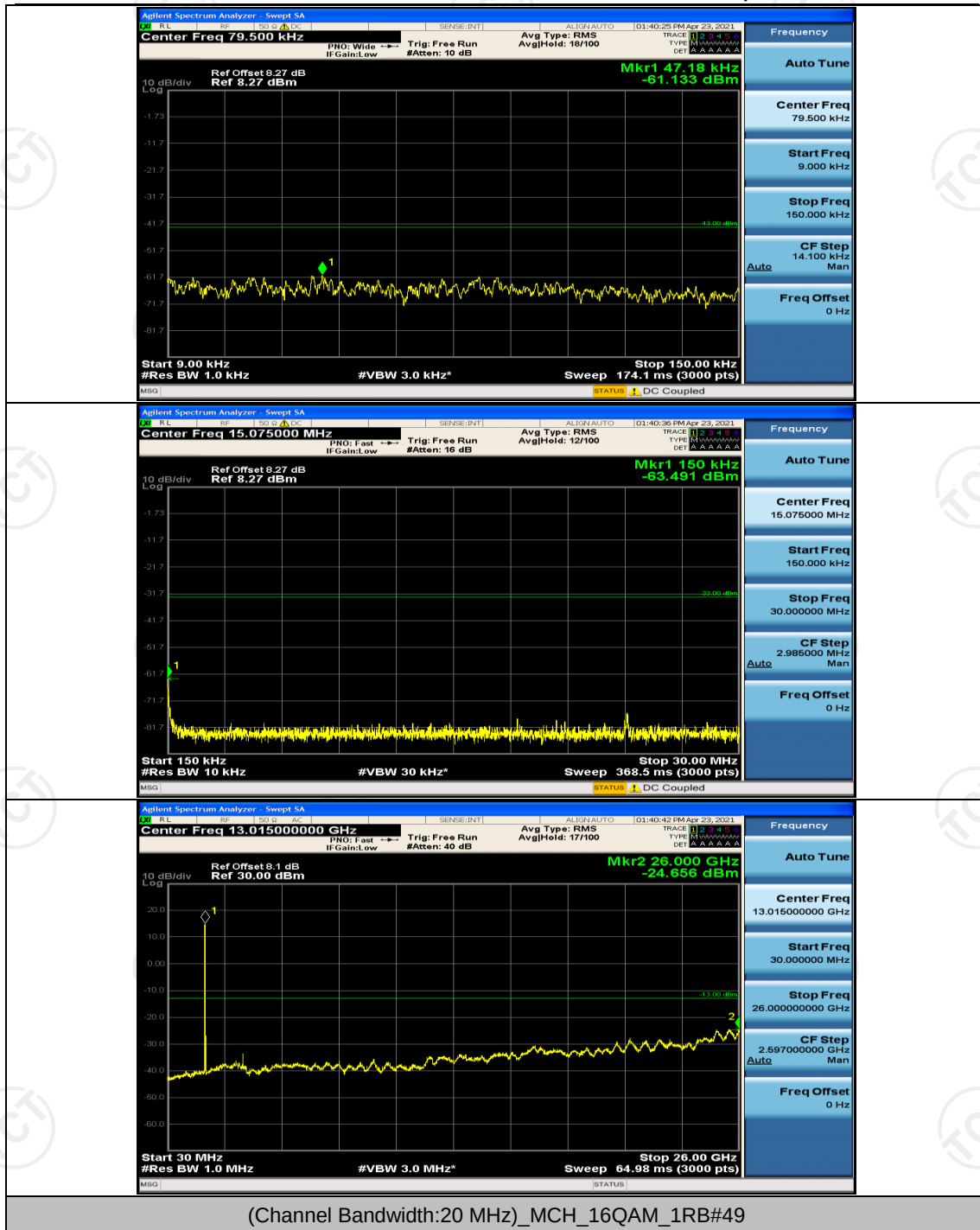
(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#0



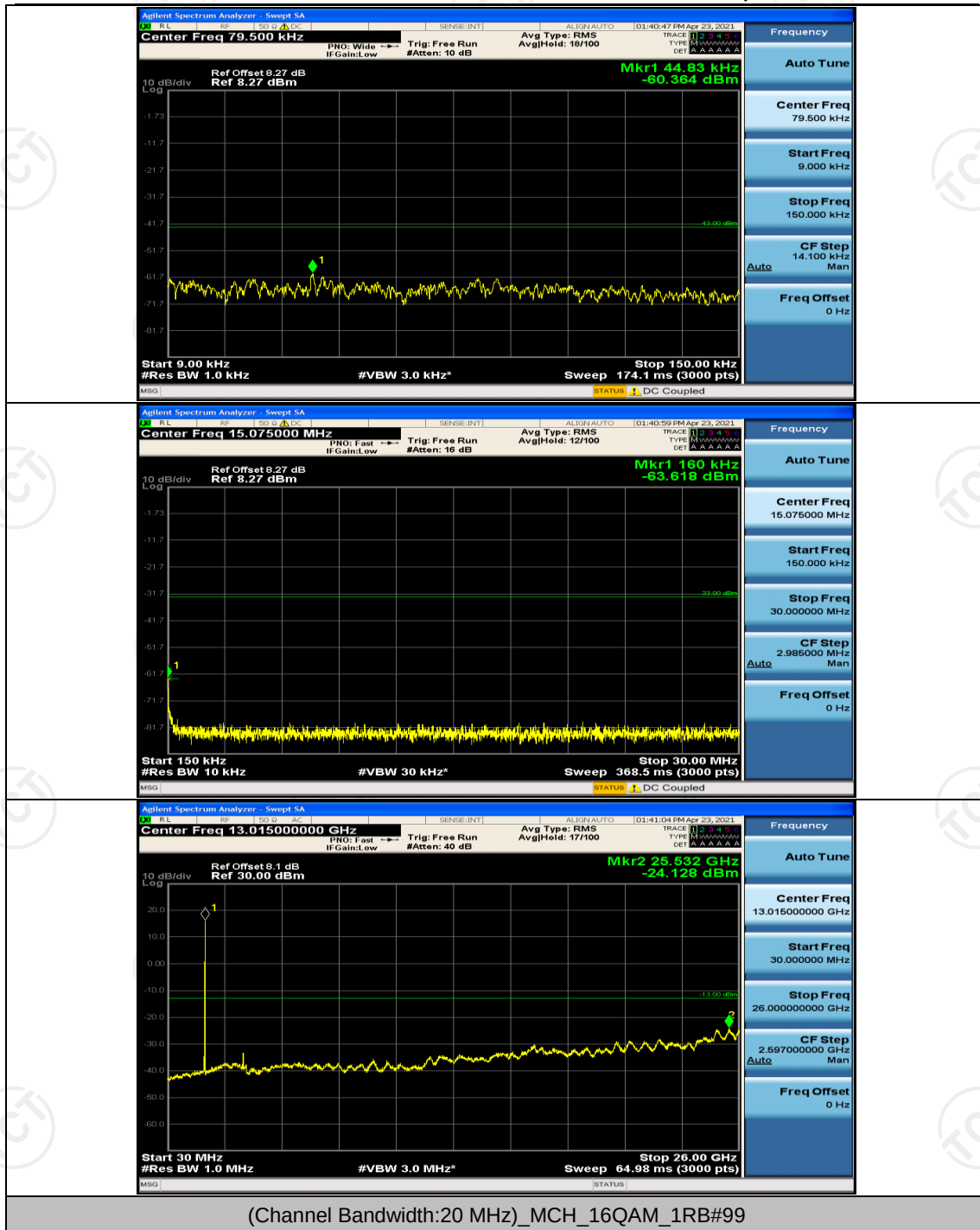




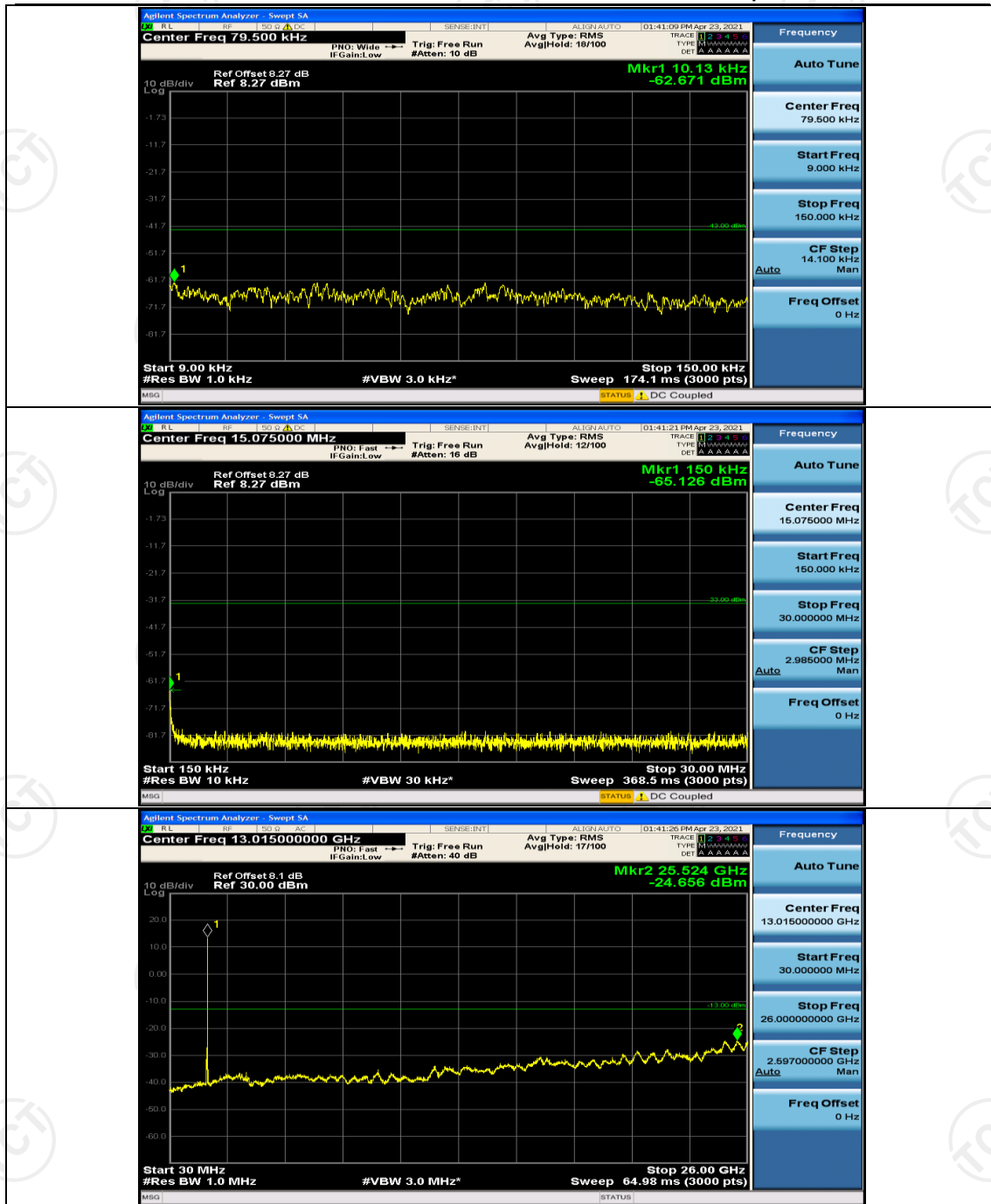
(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#0



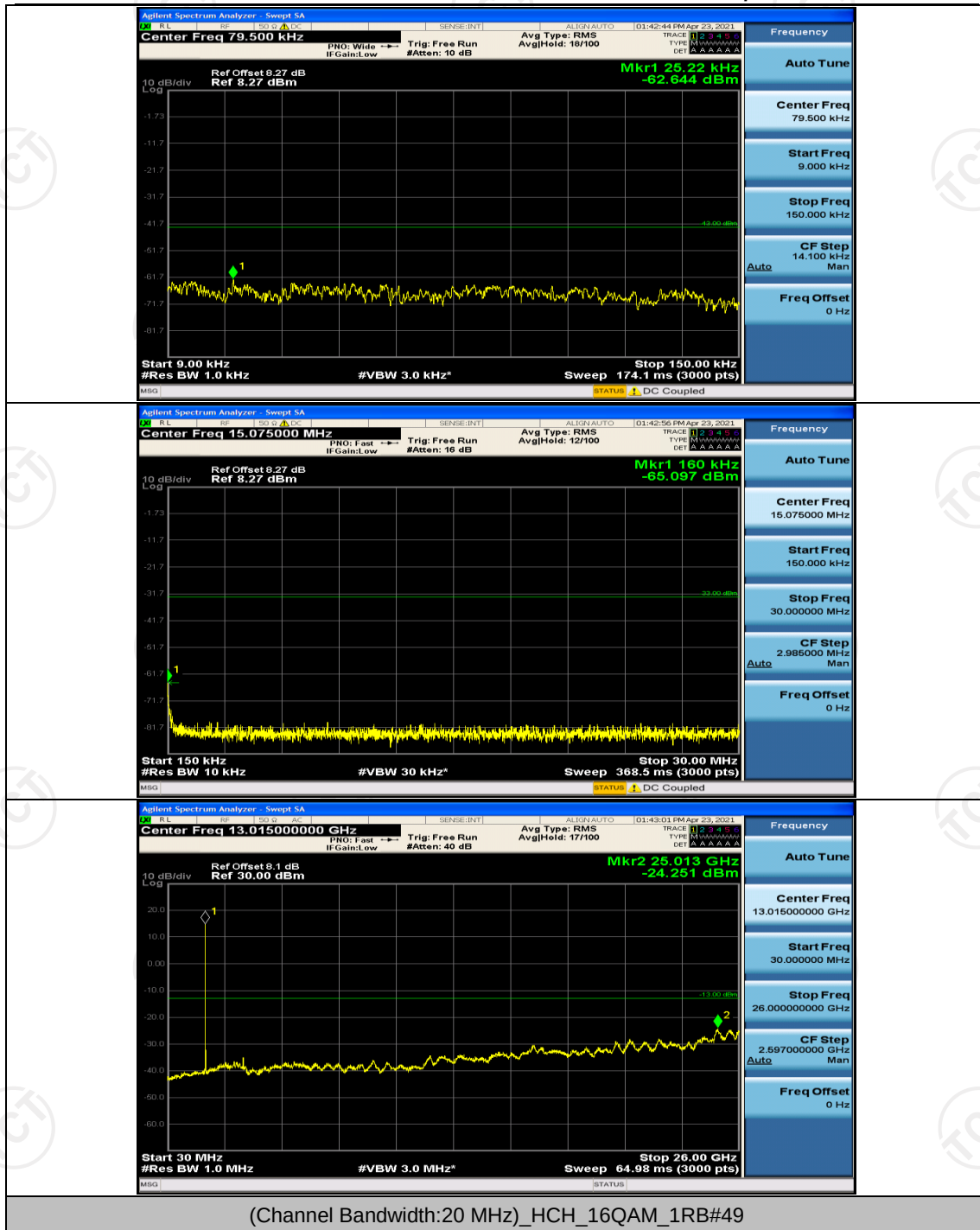


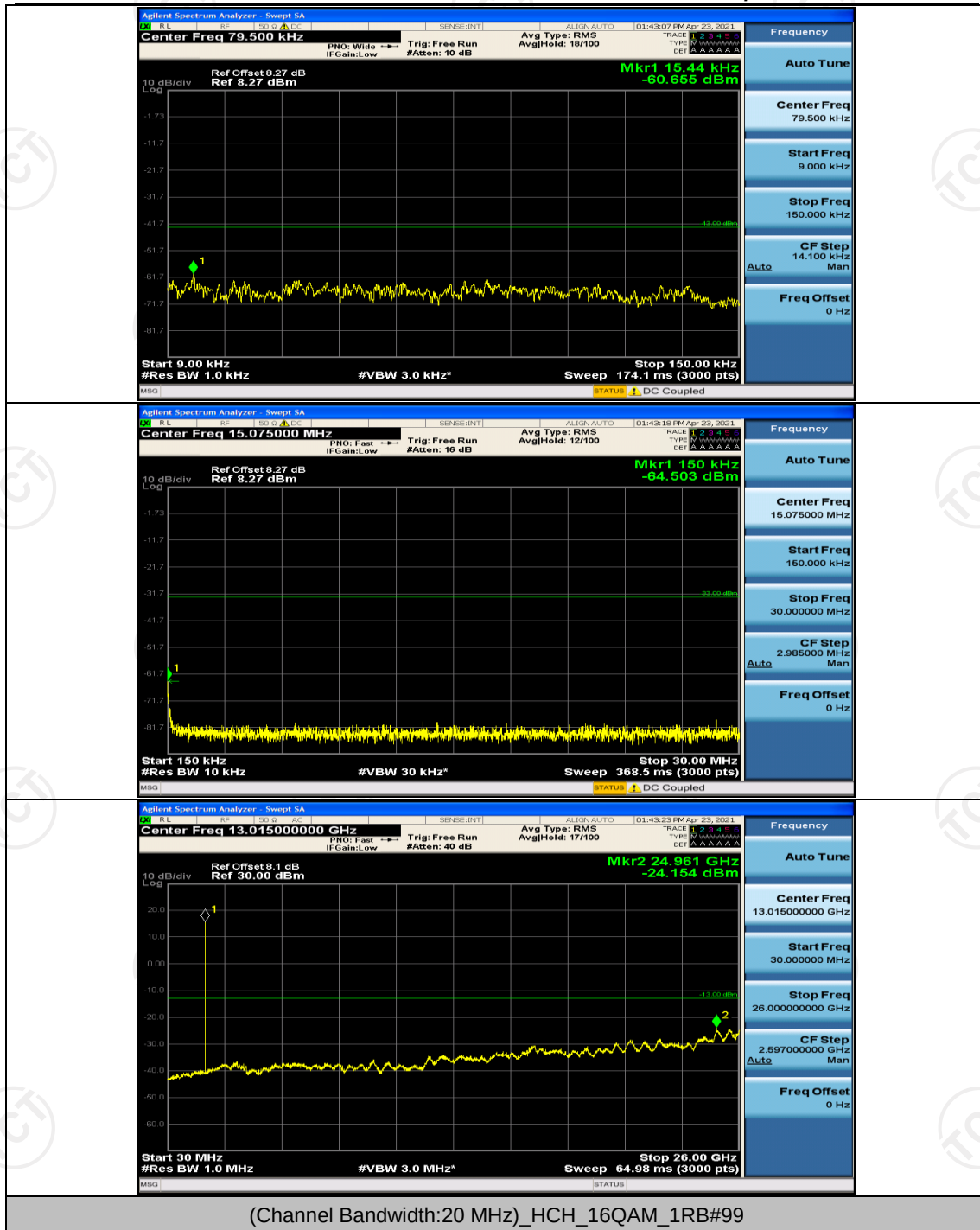


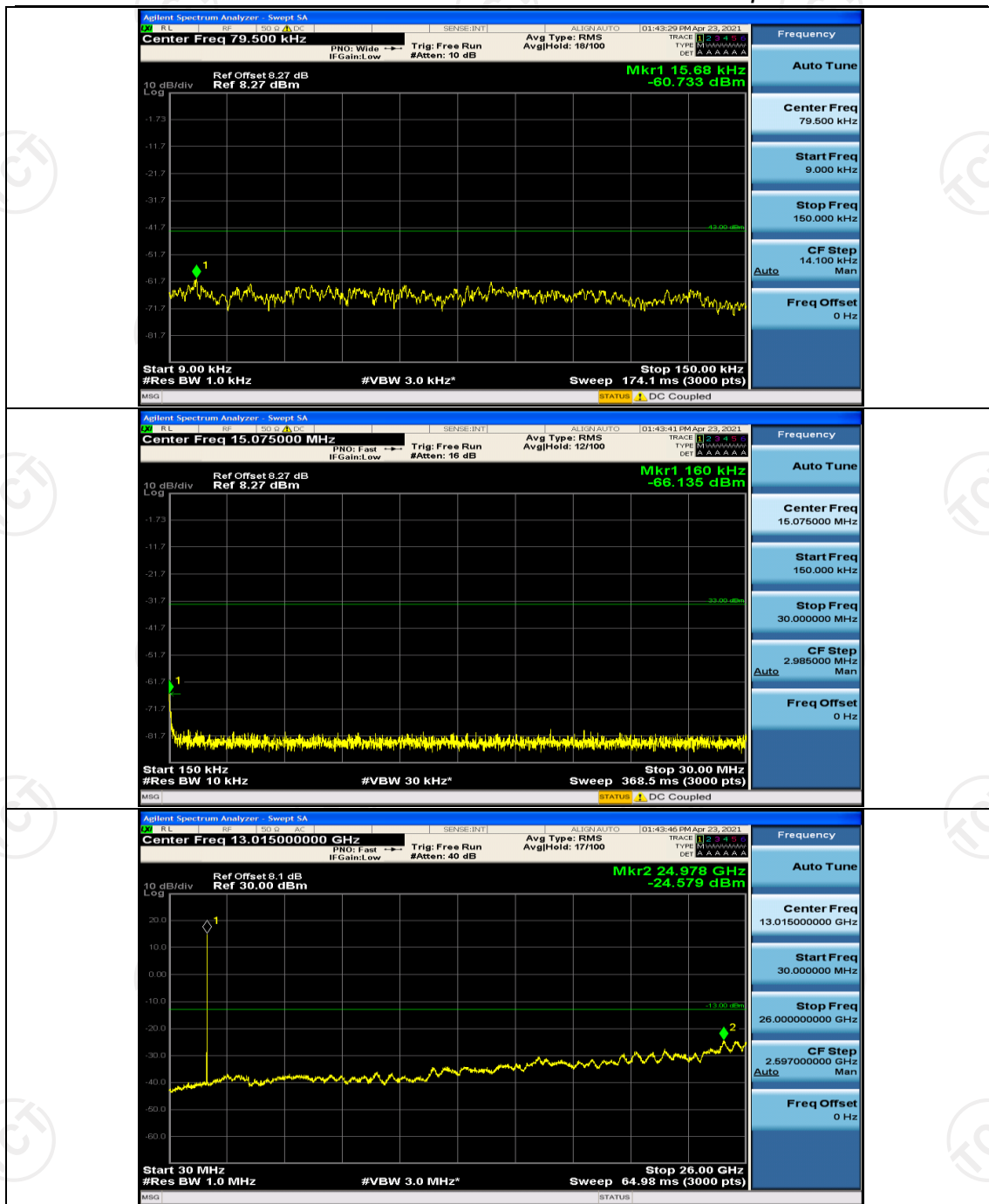




(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_1RB#0







## Appendix F: Frequency Stability

### Test Result

Channel Bandwidth: 1.4 MHz

| Channel Bandwidth: 1.4 MHz |         |               |                  |                |                 |             |         |
|----------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage                    |         |               |                  |                |                 |             |         |
| Modulation                 | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                       | LCH     | VL            | TN               | -6.02          | -0.003253       | ± 2.5       | PASS    |
|                            |         | VN            | TN               | -3.99          | -0.002333       | ± 2.5       | PASS    |
|                            |         | VH            | TN               | -7.05          | -0.003751       | ± 2.5       | PASS    |
|                            | MCH     | VL            | TN               | -15.02         | -0.007870       | ± 2.5       | PASS    |
|                            |         | VN            | TN               | -5.51          | -0.003179       | ± 2.5       | PASS    |
|                            |         | VH            | TN               | -2.43          | -0.001313       | ± 2.5       | PASS    |
|                            | HCH     | VL            | TN               | -8.55          | -0.004550       | ± 2.5       | PASS    |
|                            |         | VN            | TN               | -12.69         | -0.007233       | ± 2.5       | PASS    |
|                            |         | VH            | TN               | -11.72         | -0.006139       | ± 2.5       | PASS    |
| 16QAM                      | LCH     | VL            | TN               | -9.71          | -0.005167       | ± 2.5       | PASS    |
|                            |         | VN            | TN               | 1.53           | 0.000895        | ± 2.5       | PASS    |
|                            |         | VH            | TN               | -7.40          | -0.003934       | ± 2.5       | PASS    |
|                            | MCH     | VL            | TN               | -8.50          | -0.004520       | ± 2.5       | PASS    |
|                            |         | VN            | TN               | -3.35          | -0.001932       | ± 2.5       | PASS    |
|                            |         | VH            | TN               | -8.90          | -0.004803       | ± 2.5       | PASS    |
|                            | HCH     | VL            | TN               | -6.29          | -0.003398       | ± 2.5       | PASS    |
|                            |         | VN            | TN               | -6.64          | -0.003784       | ± 2.5       | PASS    |
|                            |         | VH            | TN               | -4.75          | -0.002564       | ± 2.5       | PASS    |
| Temperature                |         |               |                  |                |                 |             |         |
| Modulation                 | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                       | LCH     | VN            | -30              | -1.80          | -0.000974       | ± 2.5       | PASS    |
|                            |         | VN            | -20              | -1.27          | -0.000688       | ± 2.5       | PASS    |
|                            |         | VN            | -10              | -8.33          | -0.004497       | ± 2.5       | PASS    |
|                            |         | VN            | 0                | -6.87          | -0.003709       | ± 2.5       | PASS    |
|                            |         | VN            | 10               | -6.08          | -0.003282       | ± 2.5       | PASS    |
|                            |         | VN            | 20               | 6.47           | 0.003780        | ± 2.5       | PASS    |
|                            |         | VN            | 30               | -4.21          | -0.002458       | ± 2.5       | PASS    |
|                            |         | VN            | 40               | -3.85          | -0.002249       | ± 2.5       | PASS    |
|                            |         | VN            | 50               | 0.46           | 0.000268        | ± 2.5       | PASS    |
|                            | MCH     | VN            | -30              | -7.48          | -0.003980       | ± 2.5       | PASS    |
|                            |         | VN            | -20              | -9.28          | -0.004938       | ± 2.5       | PASS    |
|                            |         | VN            | -10              | -11.92         | -0.006338       | ± 2.5       | PASS    |
|                            |         | VN            | 0                | -5.71          | -0.003036       | ± 2.5       | PASS    |
|                            |         | VN            | 10               | -4.63          | -0.002465       | ± 2.5       | PASS    |
|                            |         | VN            | 20               | -5.82          | -0.003361       | ± 2.5       | PASS    |

|       |     |    |     |        |           |       |      |
|-------|-----|----|-----|--------|-----------|-------|------|
|       |     | VN | 30  | -2.05  | -0.001181 | ± 2.5 | PASS |
|       |     | VN | 40  | -5.18  | -0.002989 | ± 2.5 | PASS |
|       |     | VN | 50  | -3.09  | -0.001783 | ± 2.5 | PASS |
|       | HCH | VN | -30 | -7.62  | -0.003995 | ± 2.5 | PASS |
|       |     | VN | -20 | -7.50  | -0.003928 | ± 2.5 | PASS |
|       |     | VN | -10 | -9.44  | -0.004947 | ± 2.5 | PASS |
|       |     | VN | 0   | -9.81  | -0.005142 | ± 2.5 | PASS |
|       |     | VN | 10  | -5.41  | -0.002919 | ± 2.5 | PASS |
|       |     | VN | 20  | -7.27  | -0.004142 | ± 2.5 | PASS |
|       |     | VN | 30  | -2.83  | -0.001615 | ± 2.5 | PASS |
|       |     | VN | 40  | -5.28  | -0.003009 | ± 2.5 | PASS |
|       |     | VN | 50  | -7.25  | -0.004134 | ± 2.5 | PASS |
|       |     | VN | -30 | -5.64  | -0.003044 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -20 | -5.98  | -0.003230 | ± 2.5 | PASS |
|       |     | VN | -10 | -4.12  | -0.002225 | ± 2.5 | PASS |
|       |     | VN | 0   | -6.94  | -0.003747 | ± 2.5 | PASS |
|       |     | VN | 10  | -7.94  | -0.004162 | ± 2.5 | PASS |
|       |     | VN | 20  | -7.65  | -0.004474 | ± 2.5 | PASS |
|       |     | VN | 30  | -0.27  | -0.000159 | ± 2.5 | PASS |
|       |     | VN | 40  | -7.22  | -0.004223 | ± 2.5 | PASS |
|       |     | VN | 50  | -5.28  | -0.003086 | ± 2.5 | PASS |
|       | MCH | VN | -30 | -4.25  | -0.002260 | ± 2.5 | PASS |
|       |     | VN | -20 | -5.26  | -0.002800 | ± 2.5 | PASS |
|       |     | VN | -10 | -13.15 | -0.006993 | ± 2.5 | PASS |
|       |     | VN | 0   | -6.94  | -0.003690 | ± 2.5 | PASS |
|       |     | VN | 10  | -10.87 | -0.005783 | ± 2.5 | PASS |
|       |     | VN | 20  | 0.72   | 0.000413  | ± 2.5 | PASS |
|       |     | VN | 30  | -3.16  | -0.001825 | ± 2.5 | PASS |
|       |     | VN | 40  | -6.37  | -0.003674 | ± 2.5 | PASS |
|       |     | VN | 50  | -0.54  | -0.000314 | ± 2.5 | PASS |
|       | HCH | VN | -30 | -2.69  | -0.001409 | ± 2.5 | PASS |
|       |     | VN | -20 | -7.34  | -0.003845 | ± 2.5 | PASS |
|       |     | VN | -10 | -6.75  | -0.003538 | ± 2.5 | PASS |
|       |     | VN | 0   | -4.86  | -0.002548 | ± 2.5 | PASS |
|       |     | VN | 10  | -10.17 | -0.005490 | ± 2.5 | PASS |
|       |     | VN | 20  | -4.06  | -0.002316 | ± 2.5 | PASS |
|       |     | VN | 30  | -4.82  | -0.002748 | ± 2.5 | PASS |
|       |     | VN | 40  | -1.39  | -0.000791 | ± 2.5 | PASS |
|       |     | VN | 50  | -4.84  | -0.002756 | ± 2.5 | PASS |