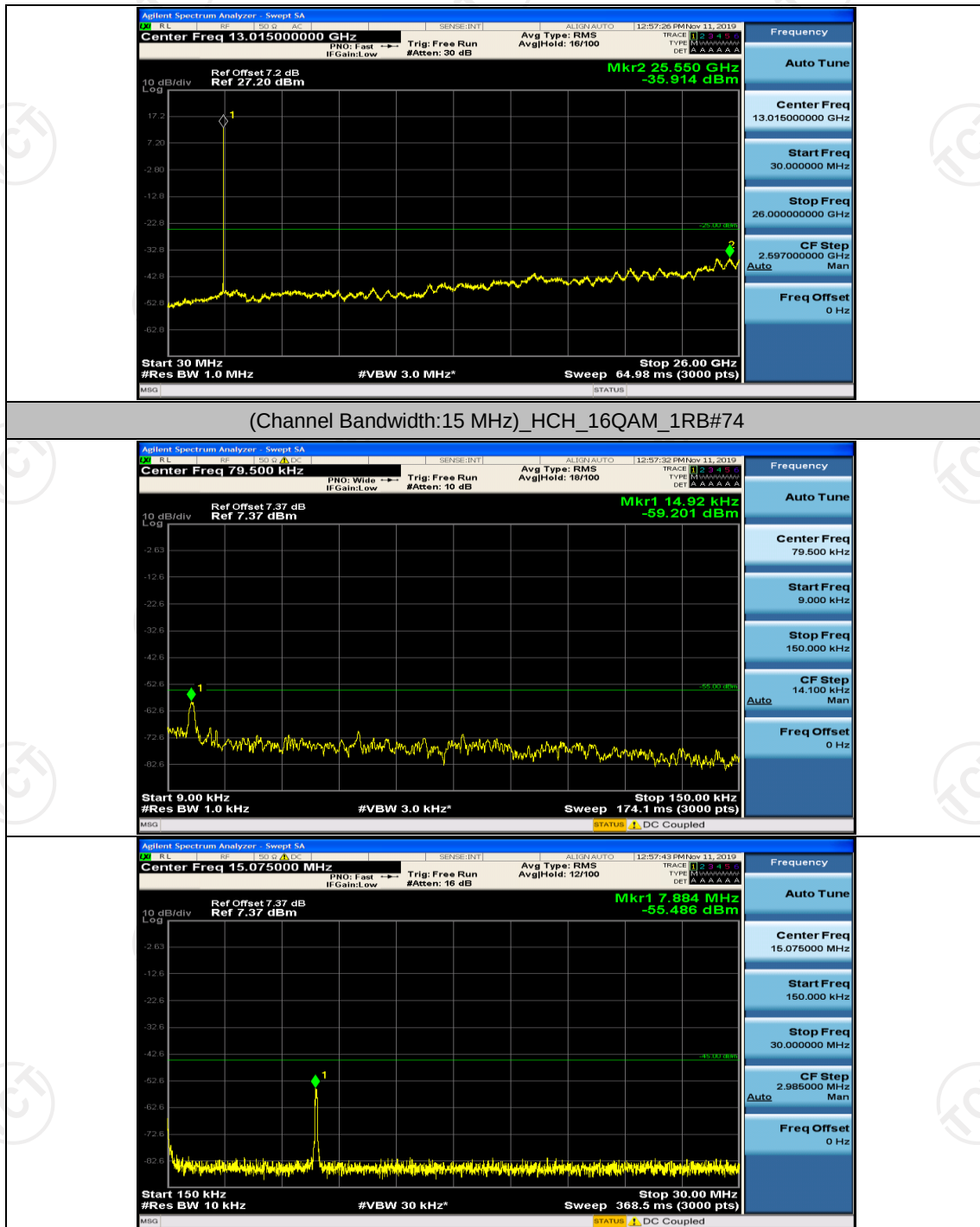
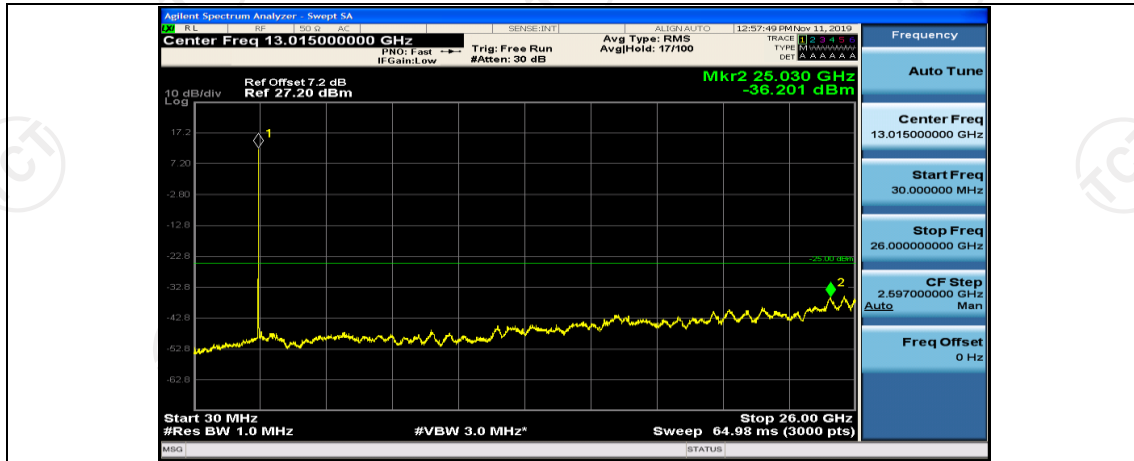
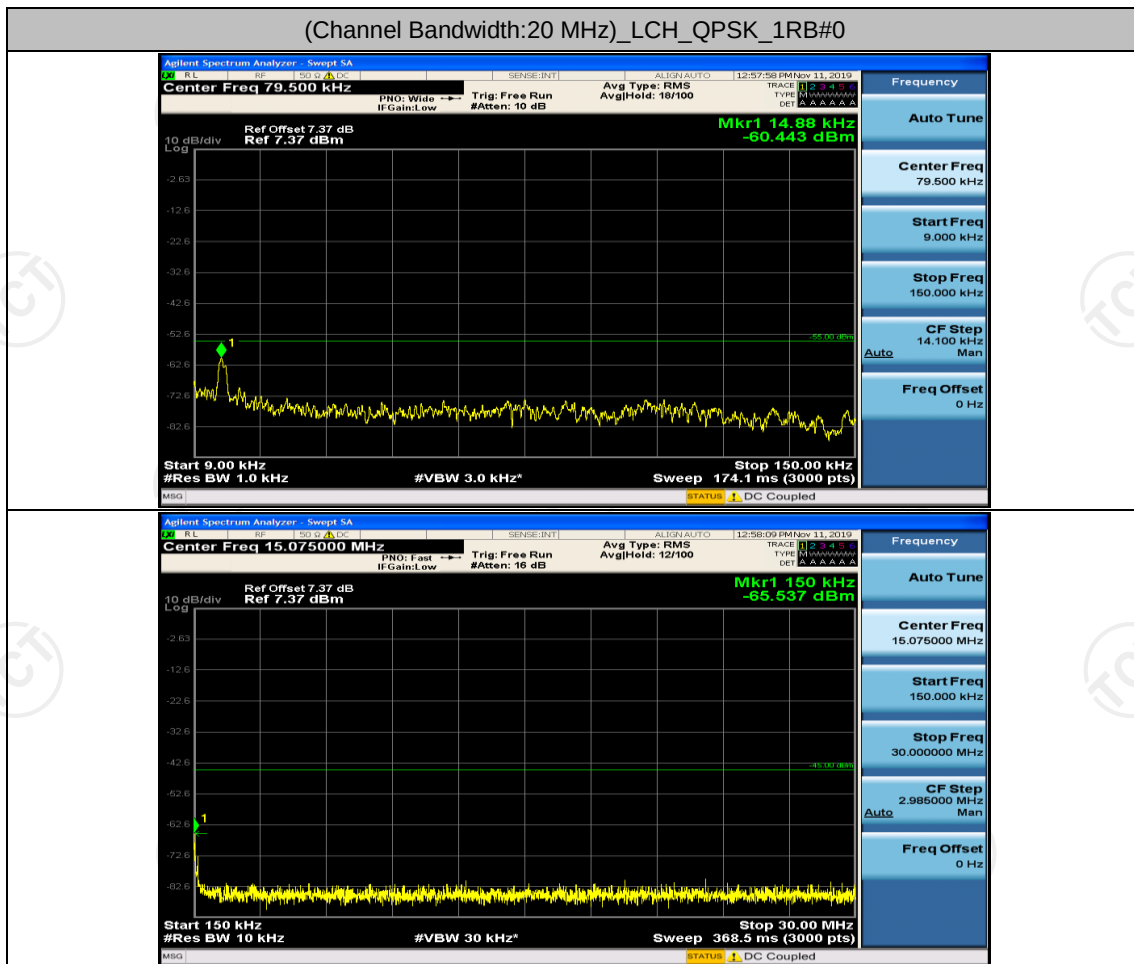
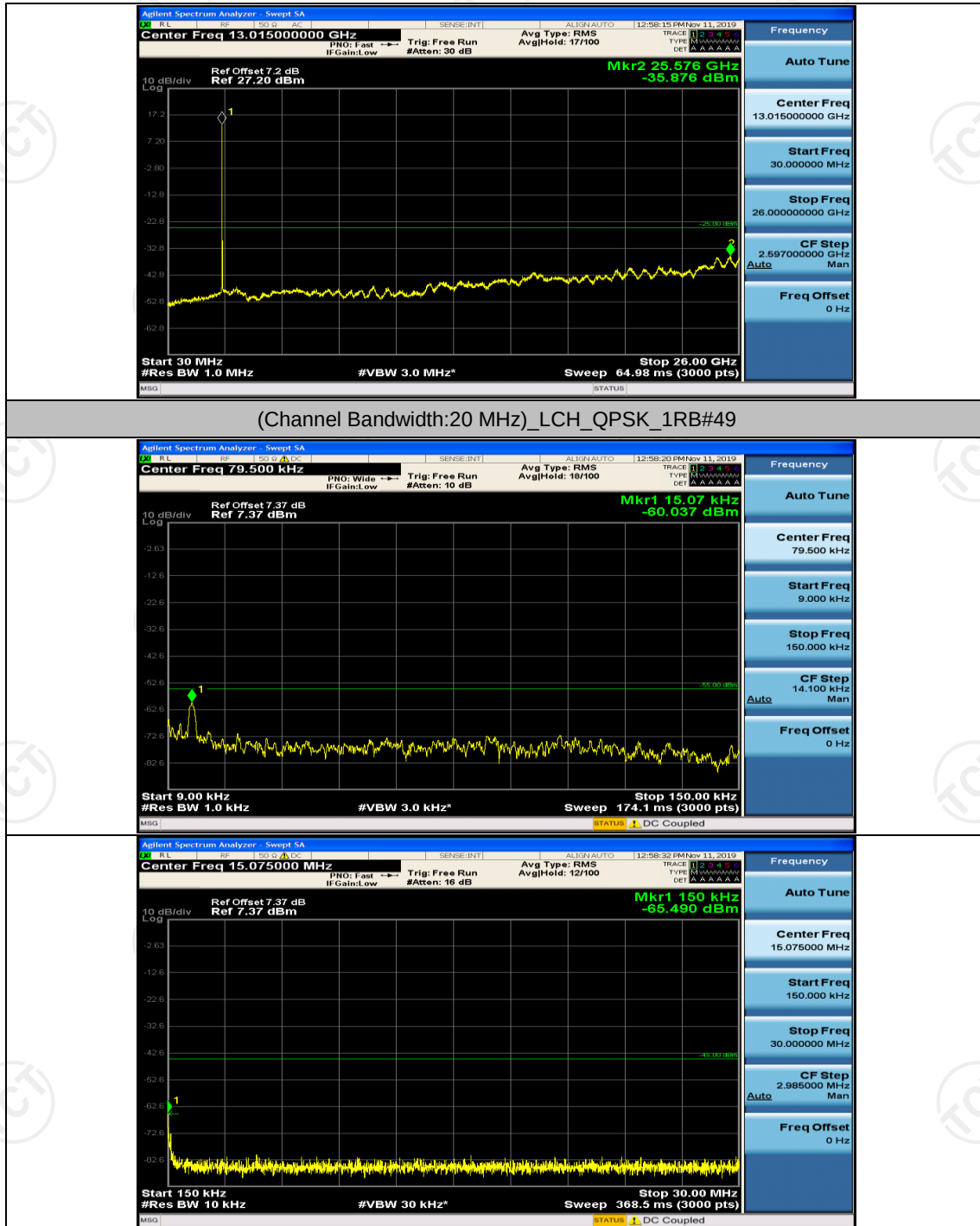


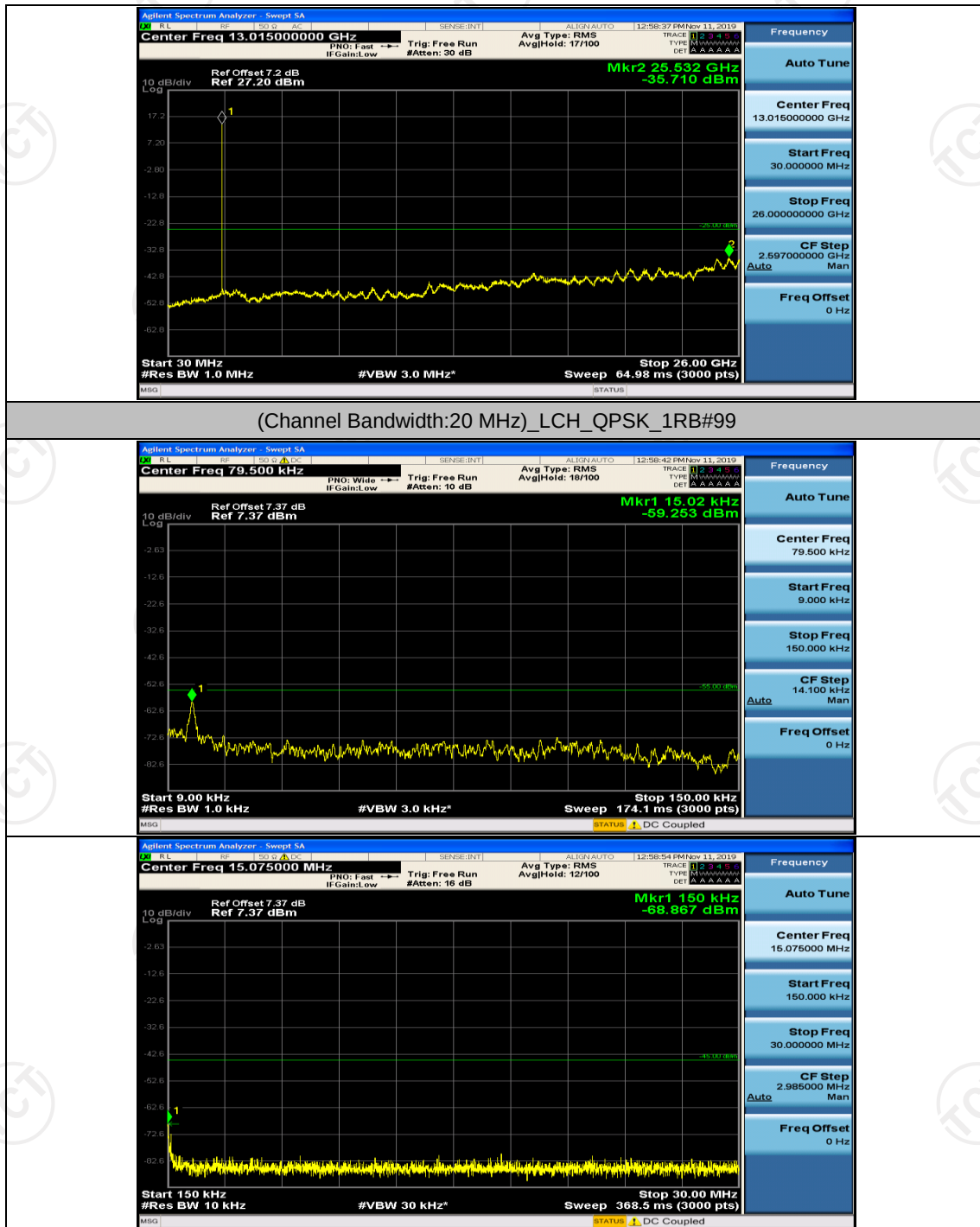


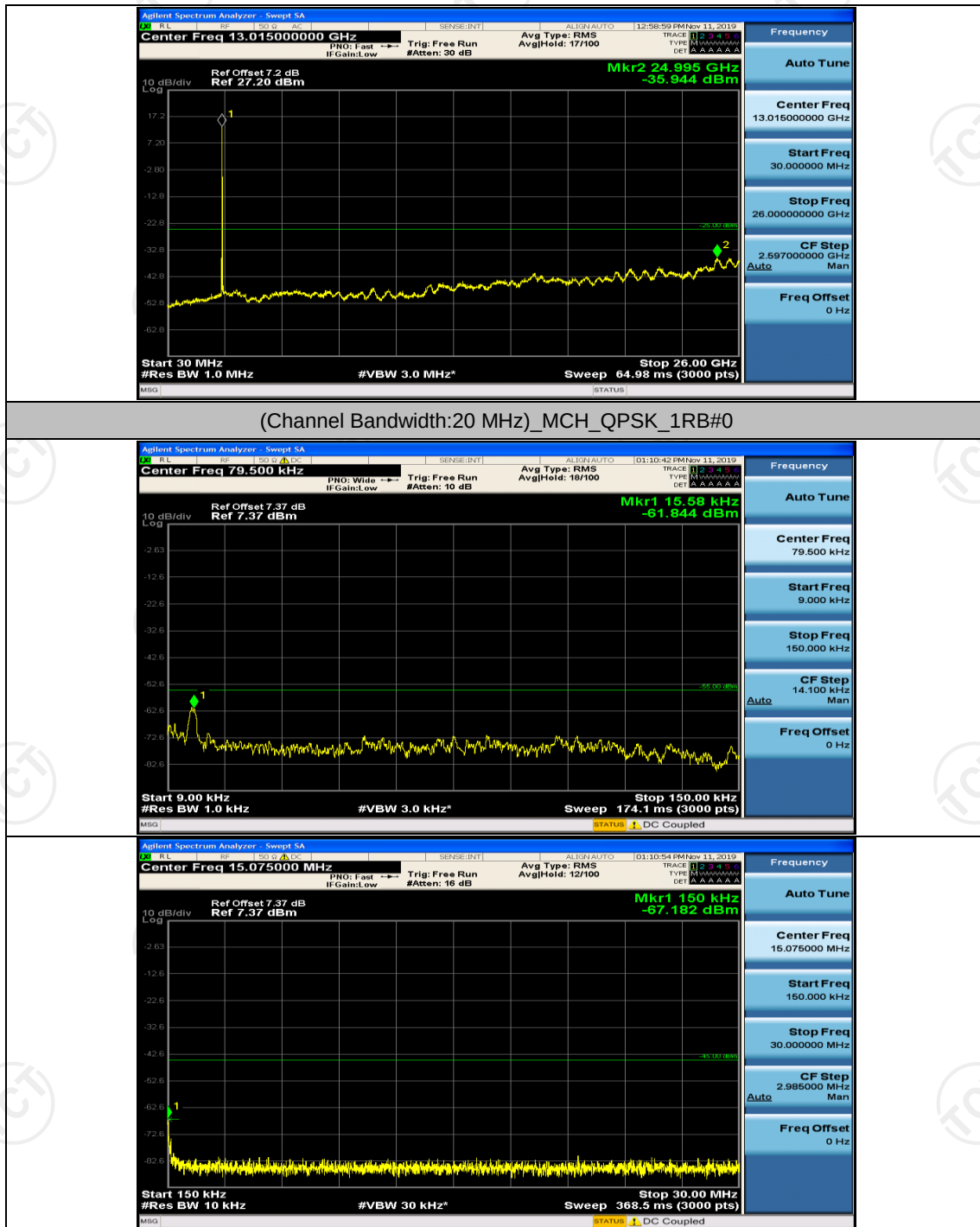


Channel Bandwidth: 20 MHz

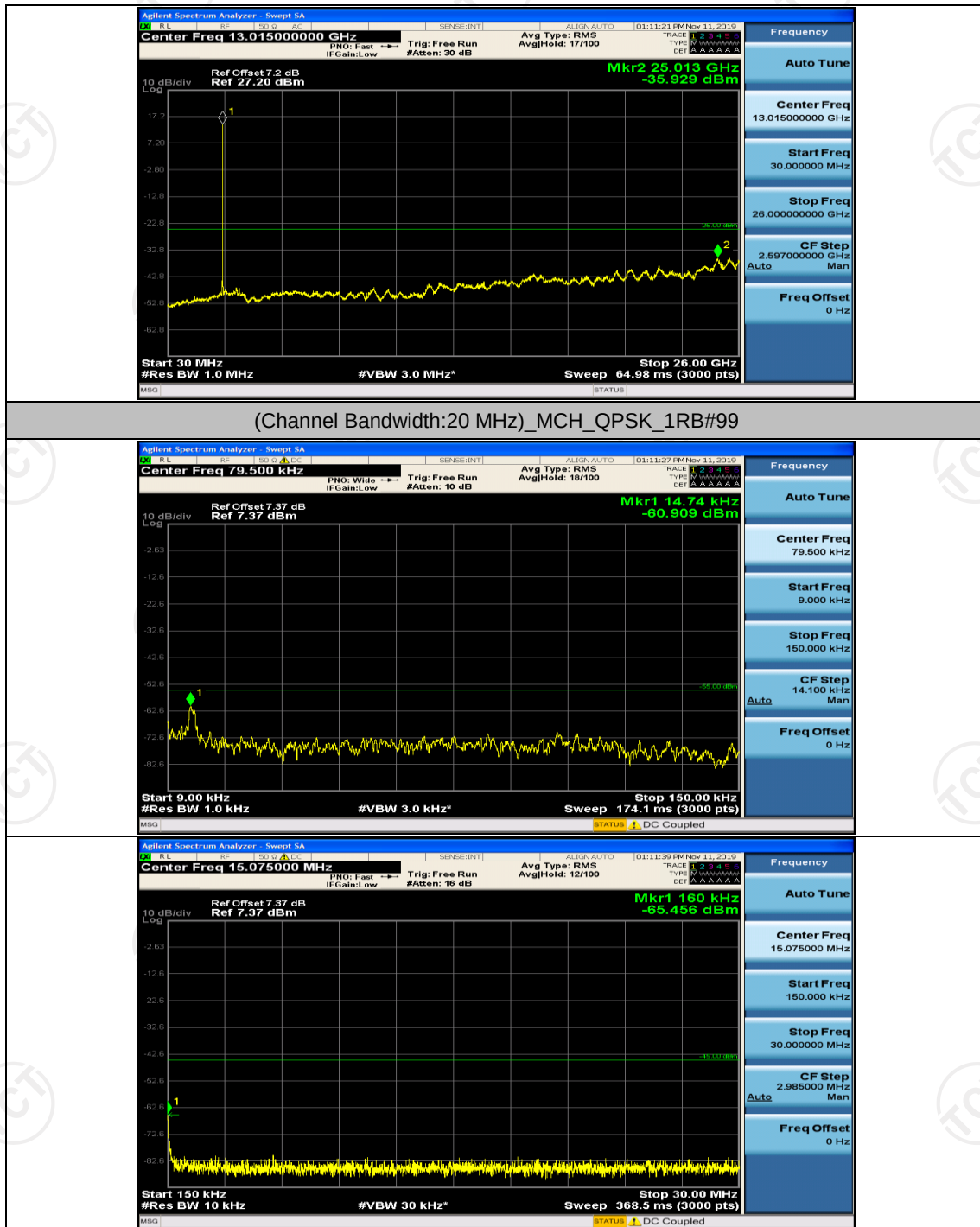




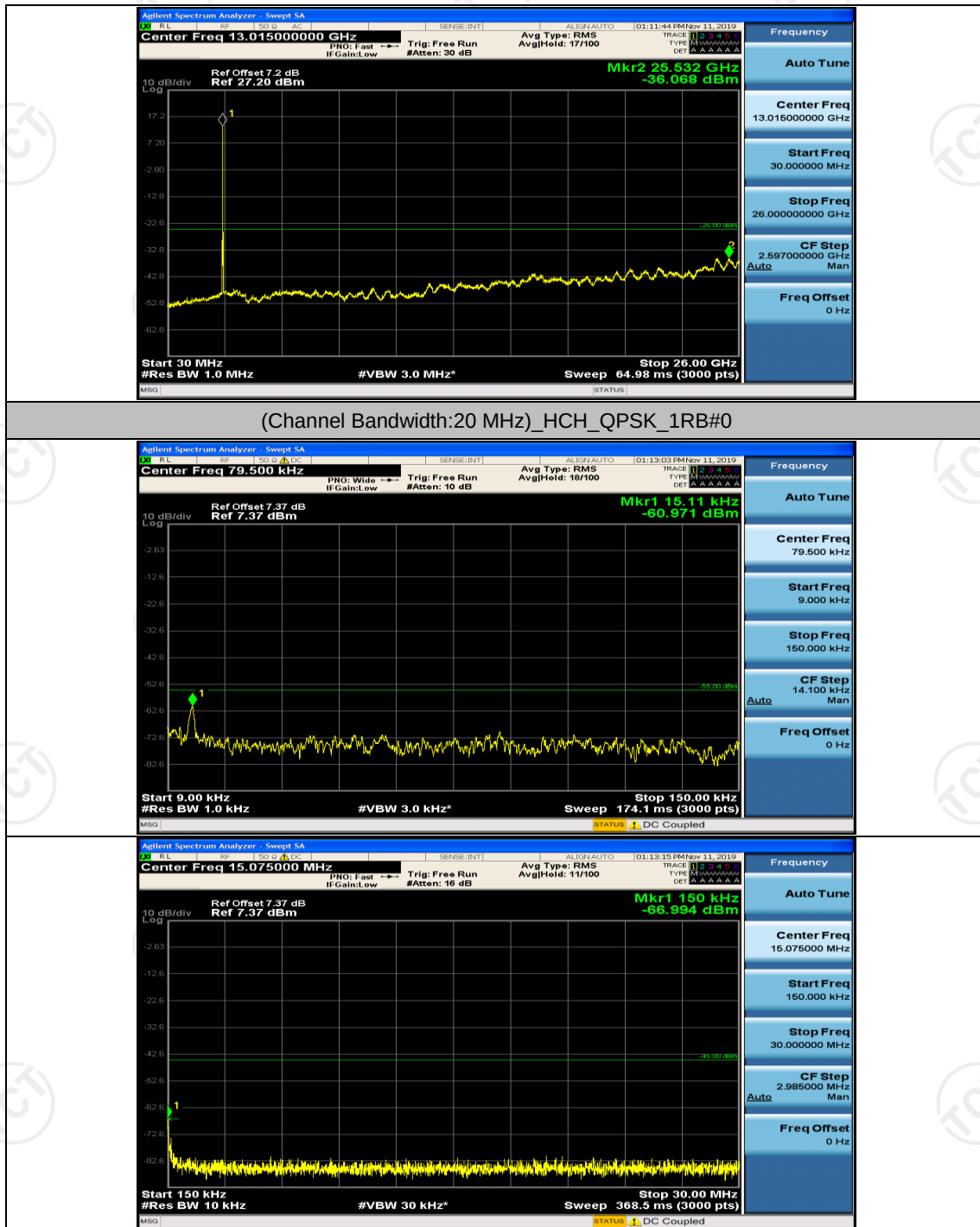




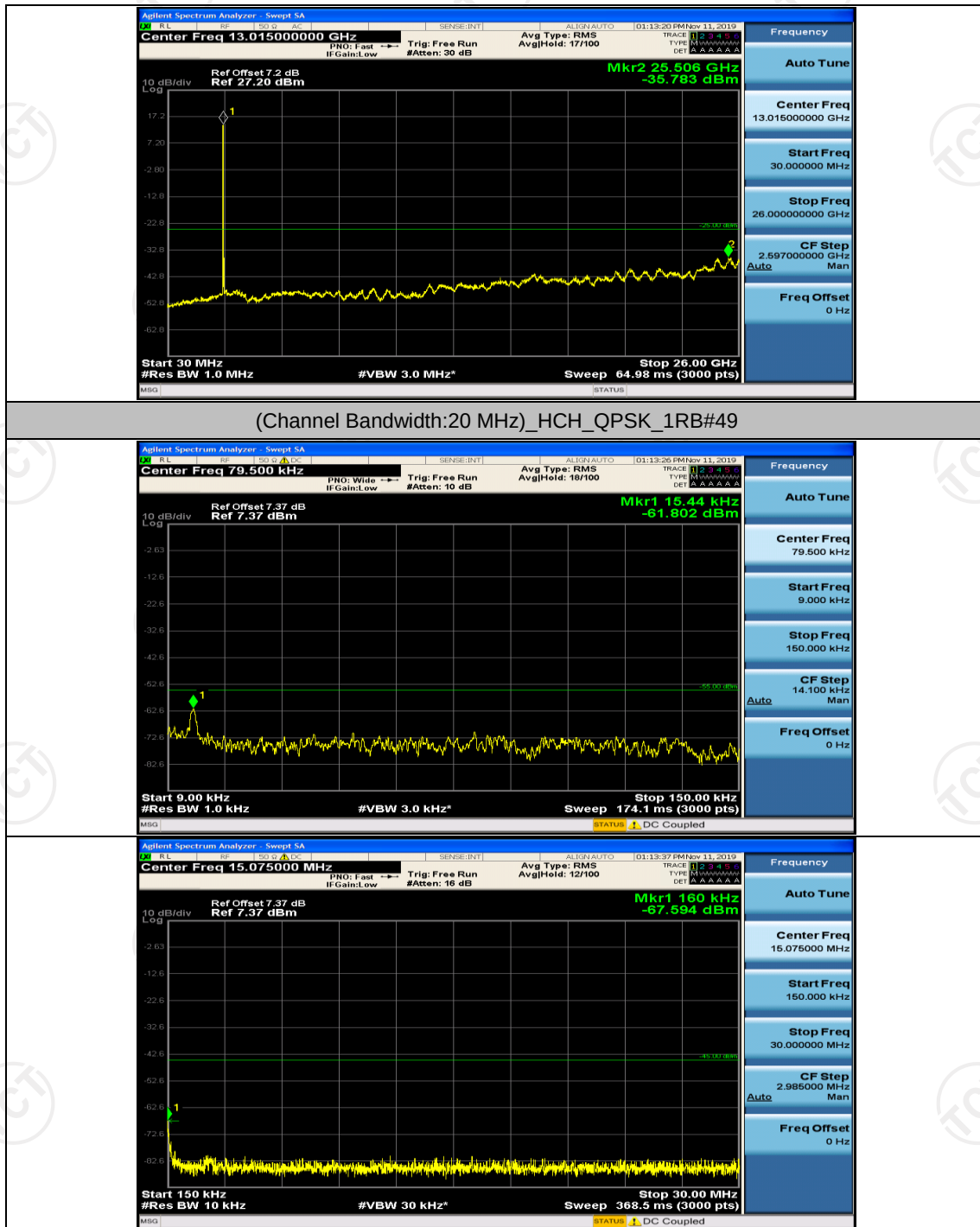


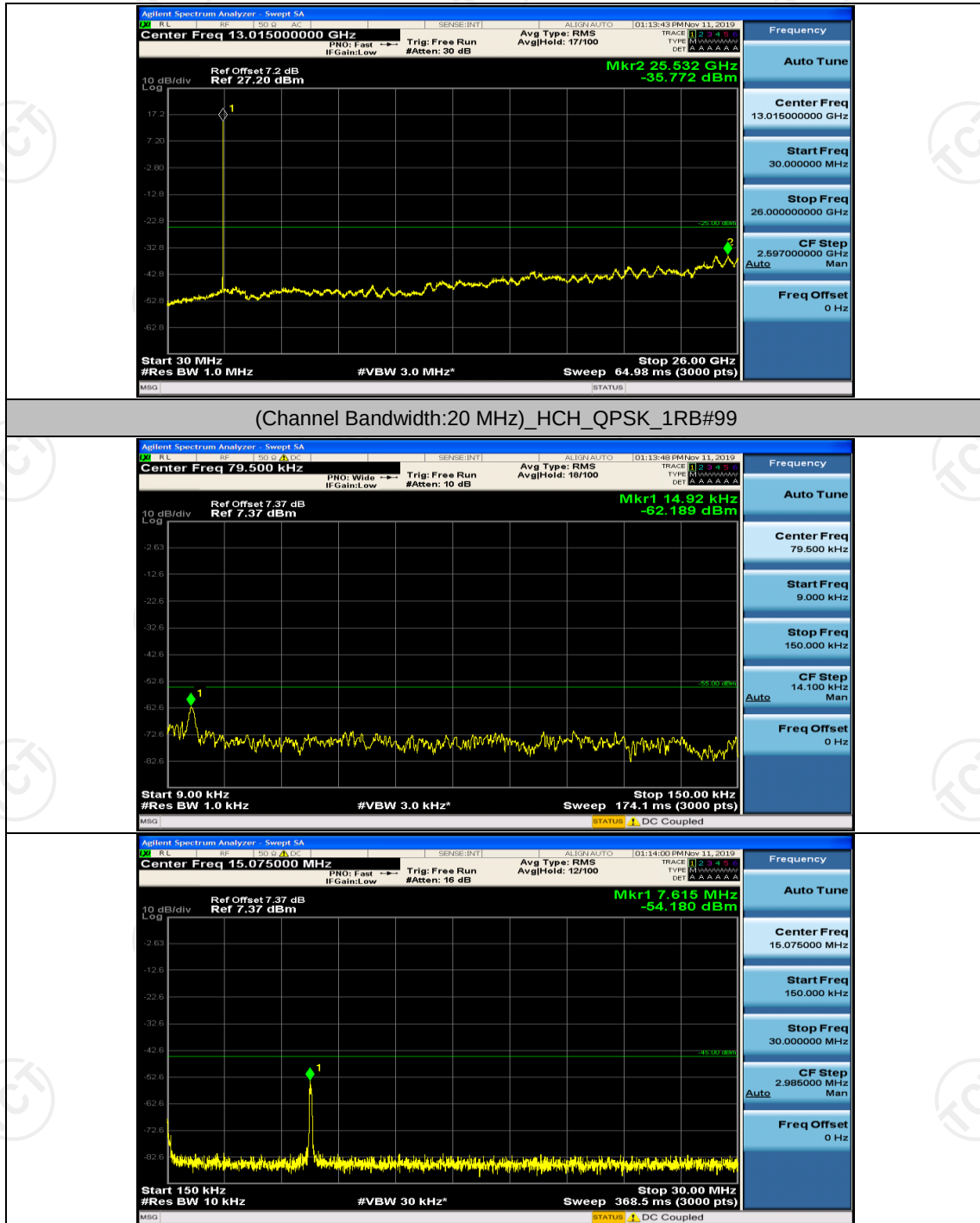


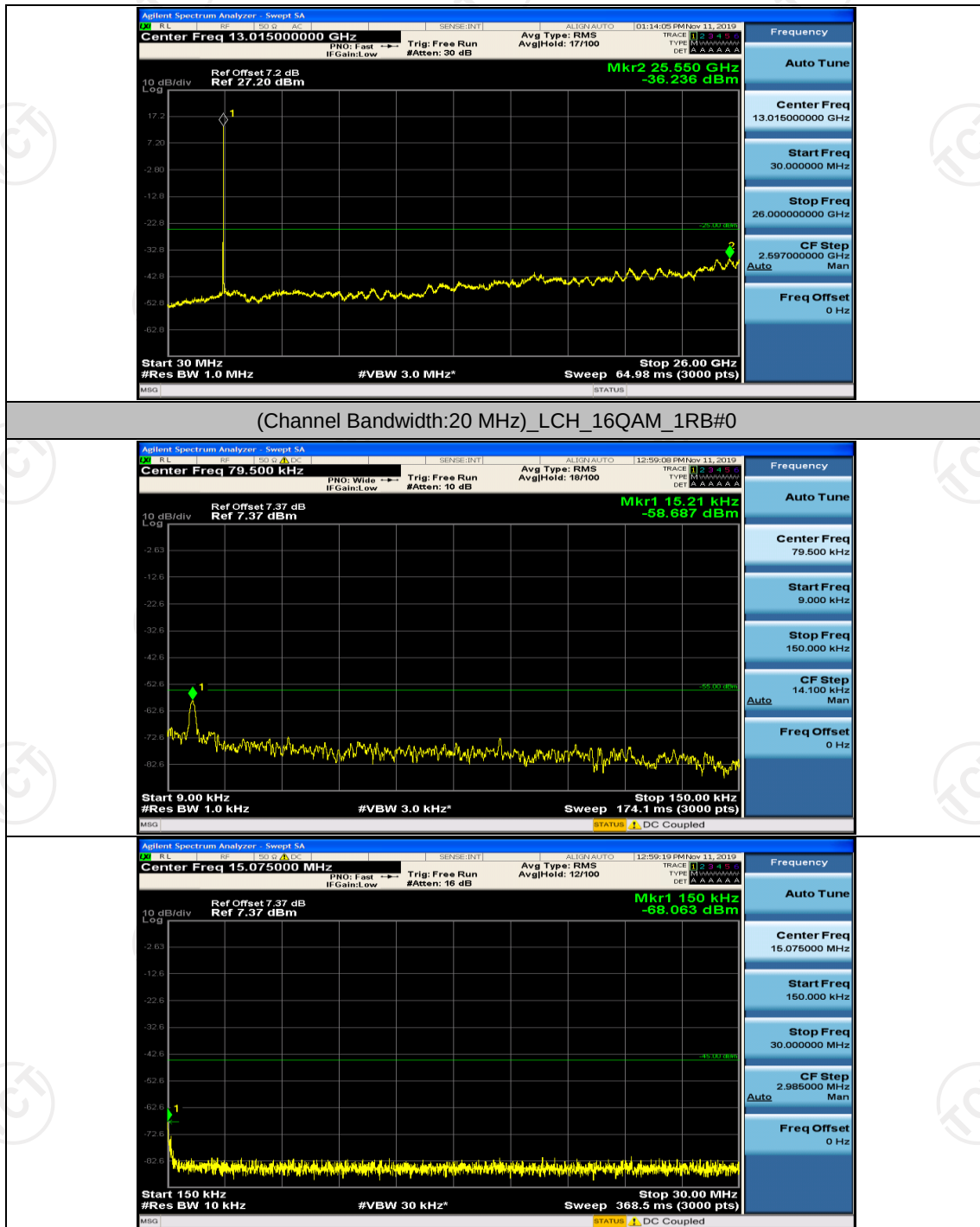


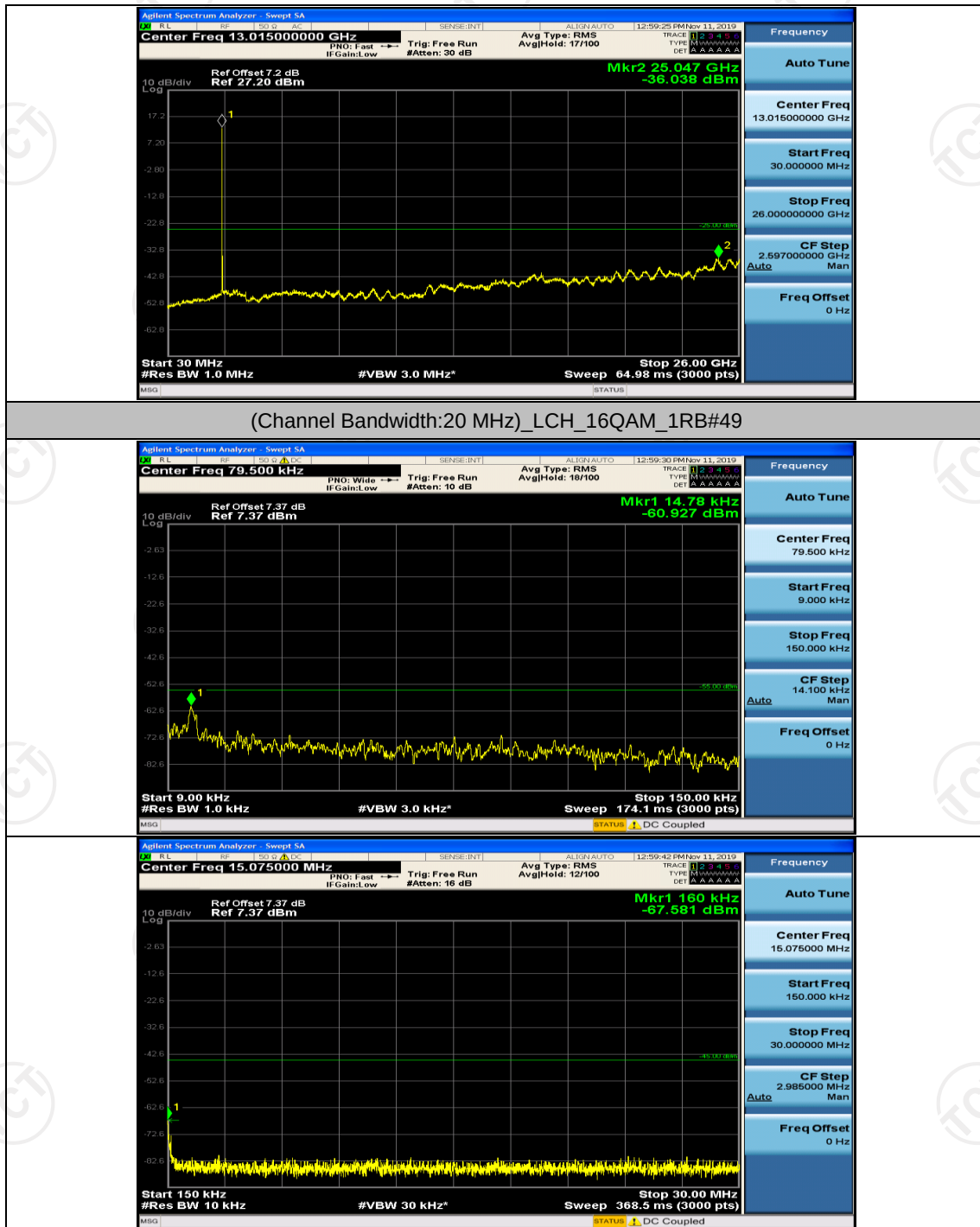


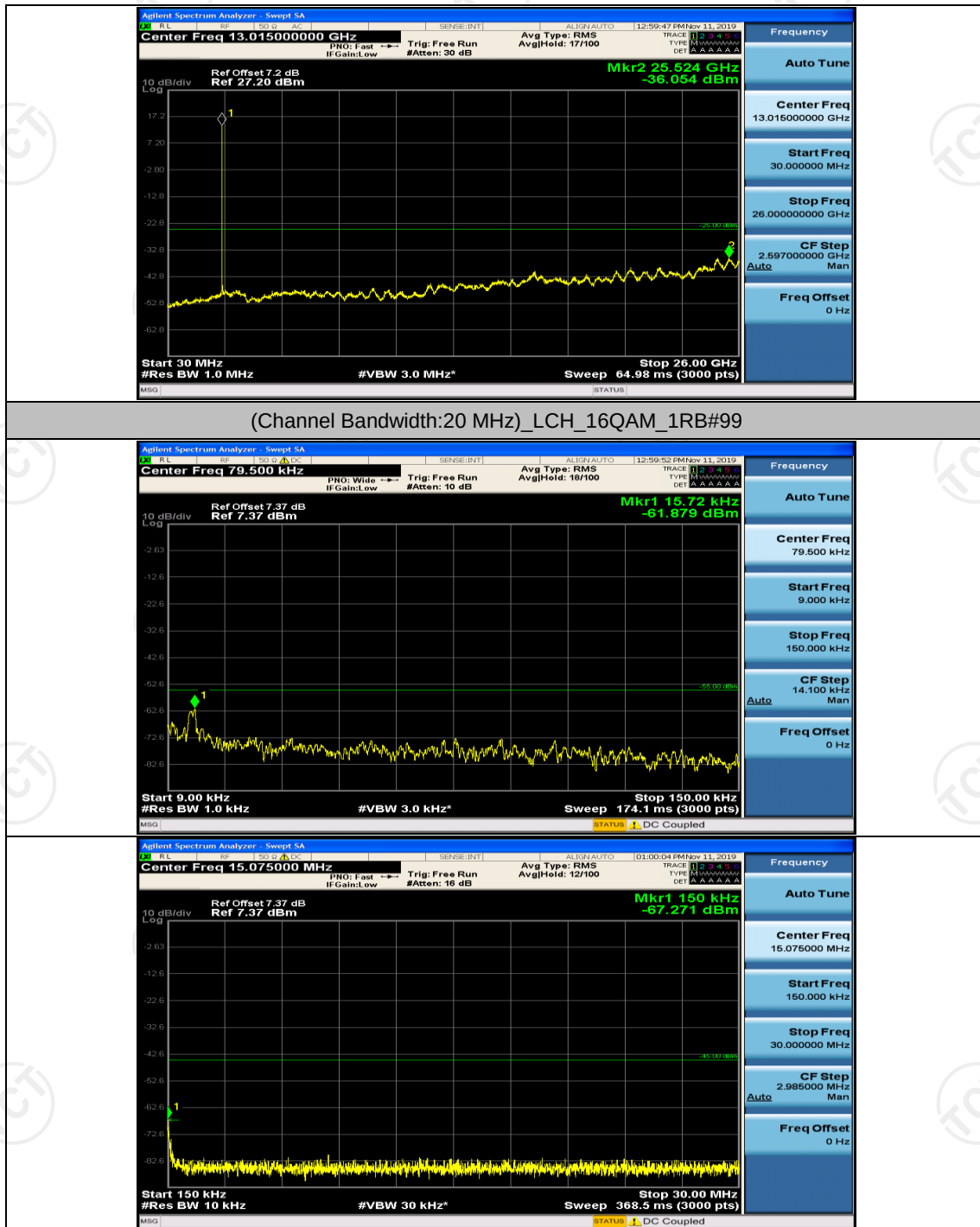


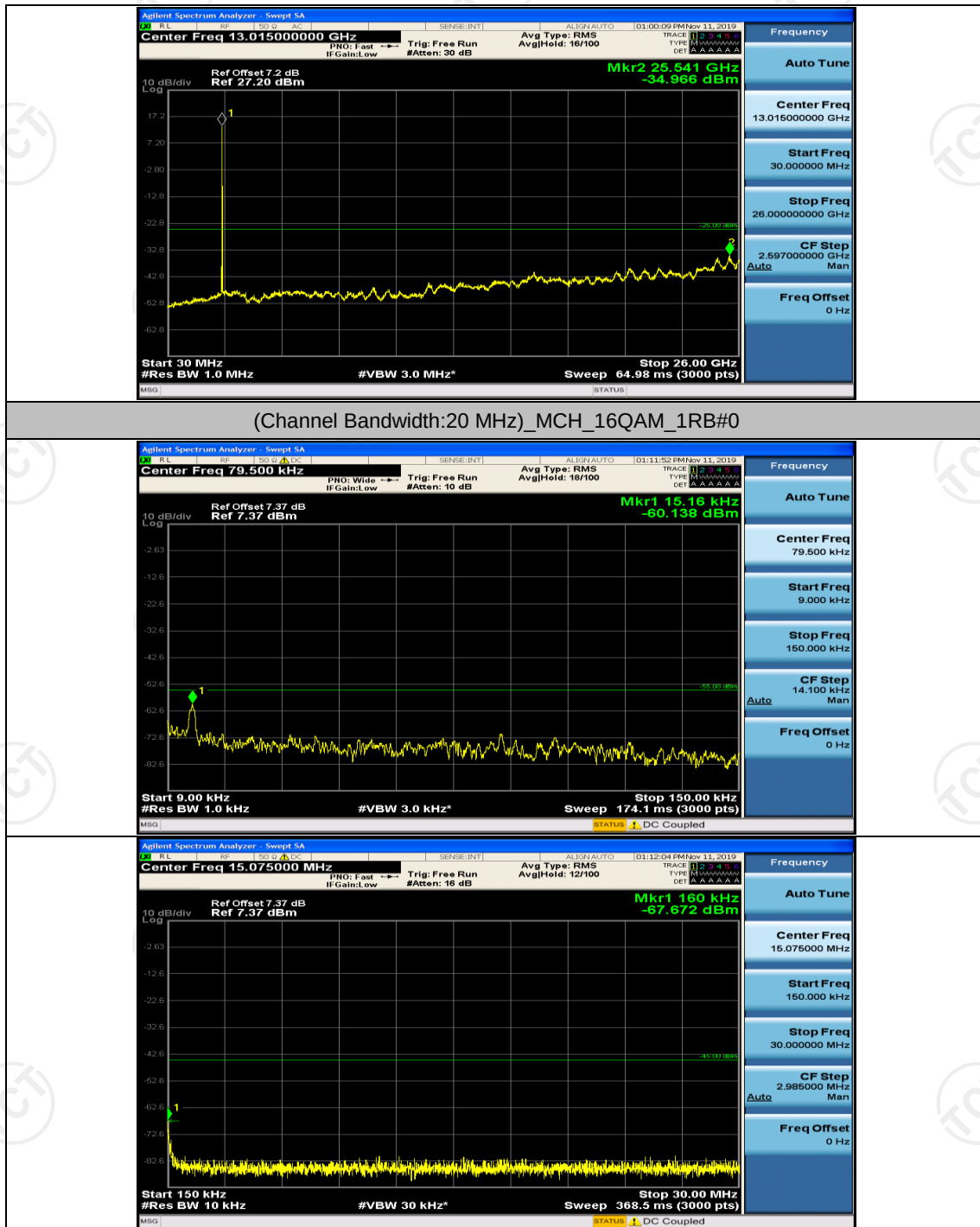


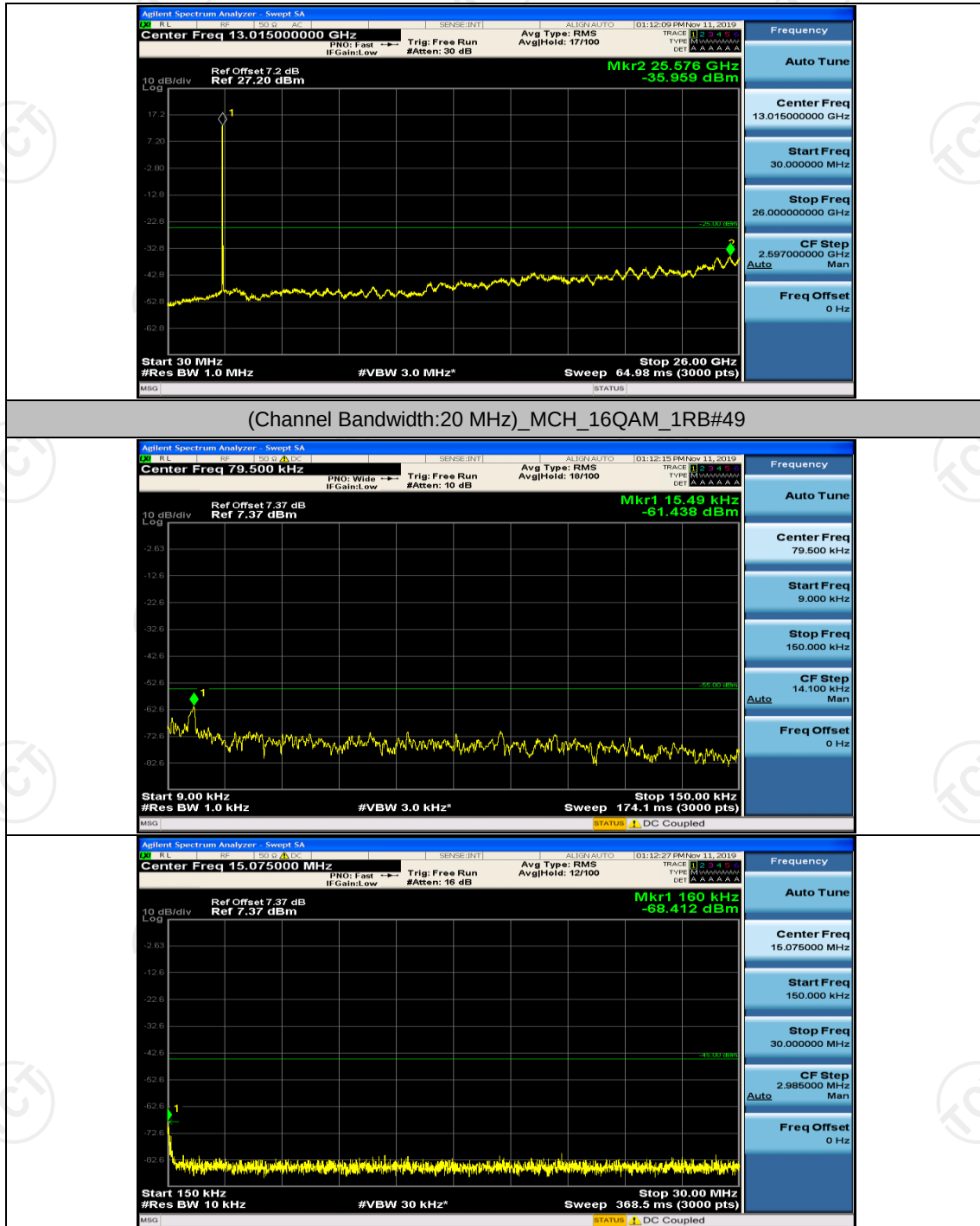




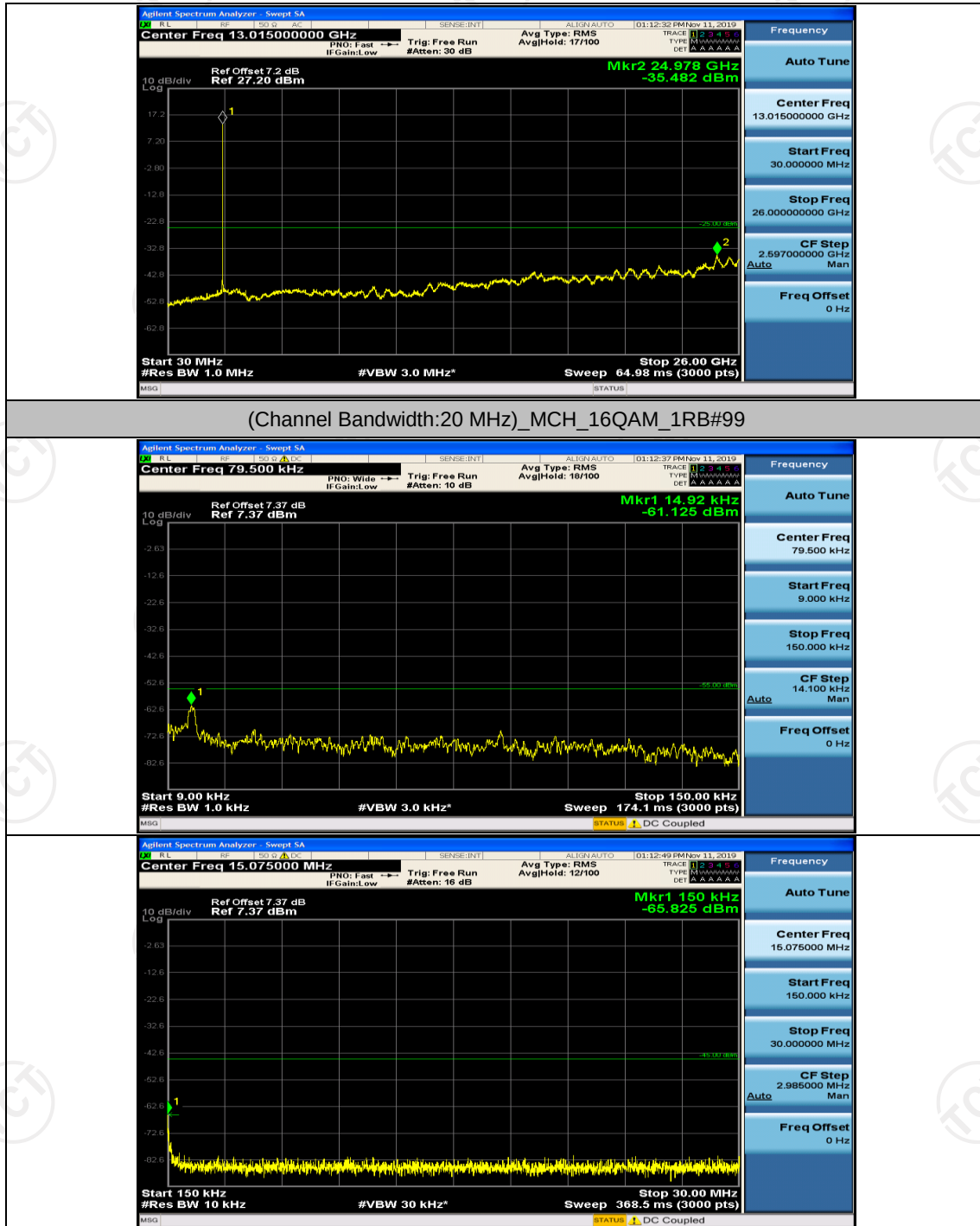


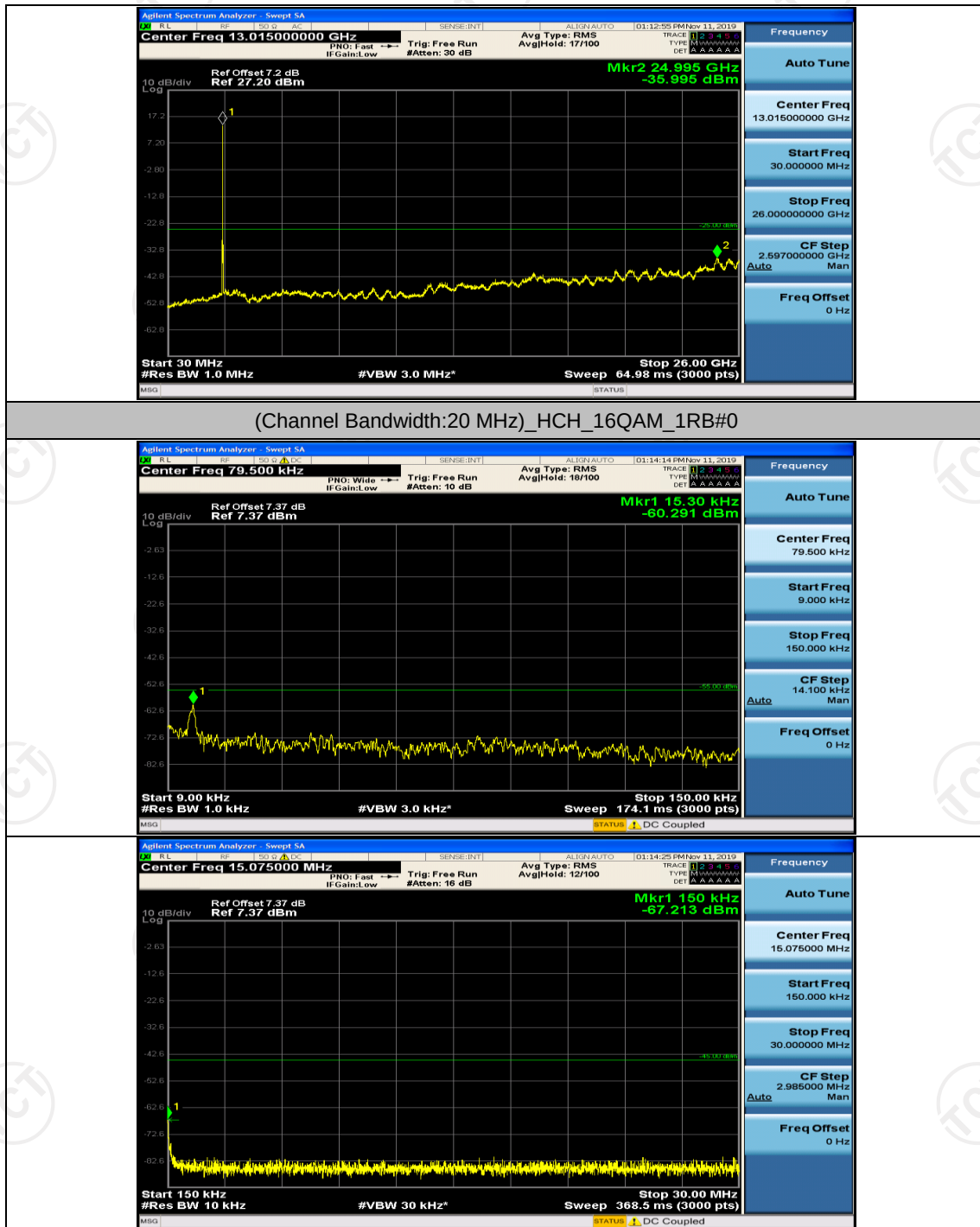


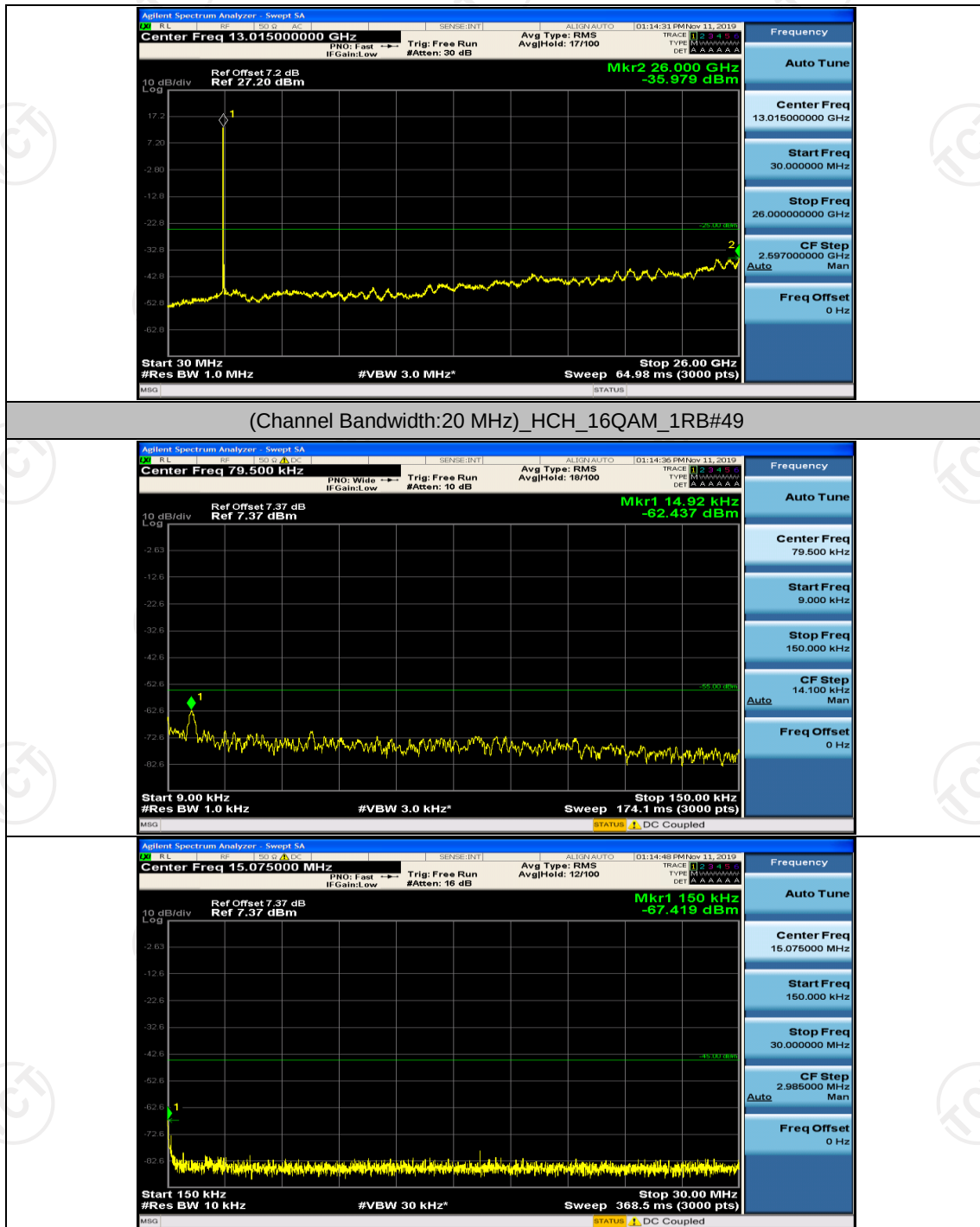


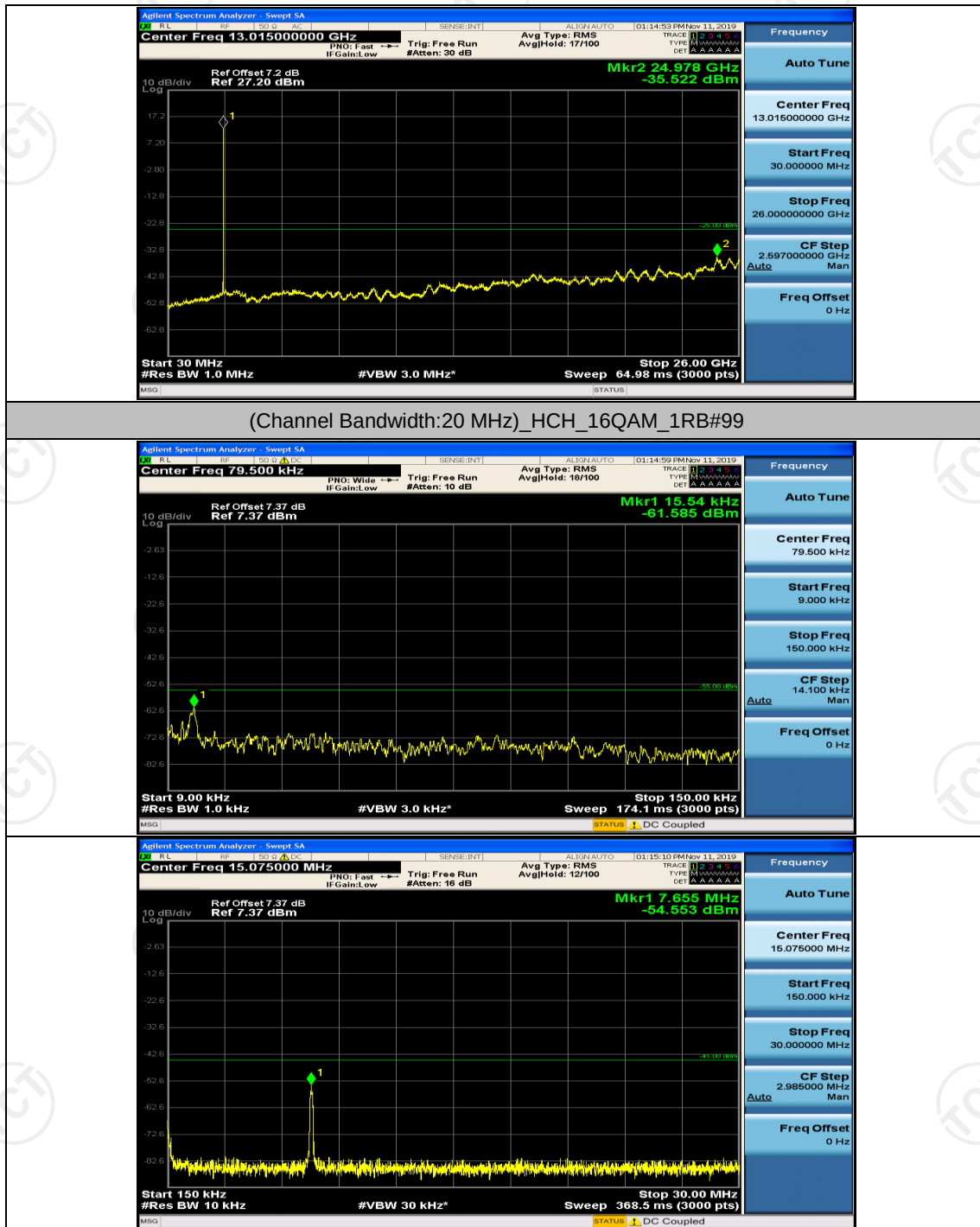


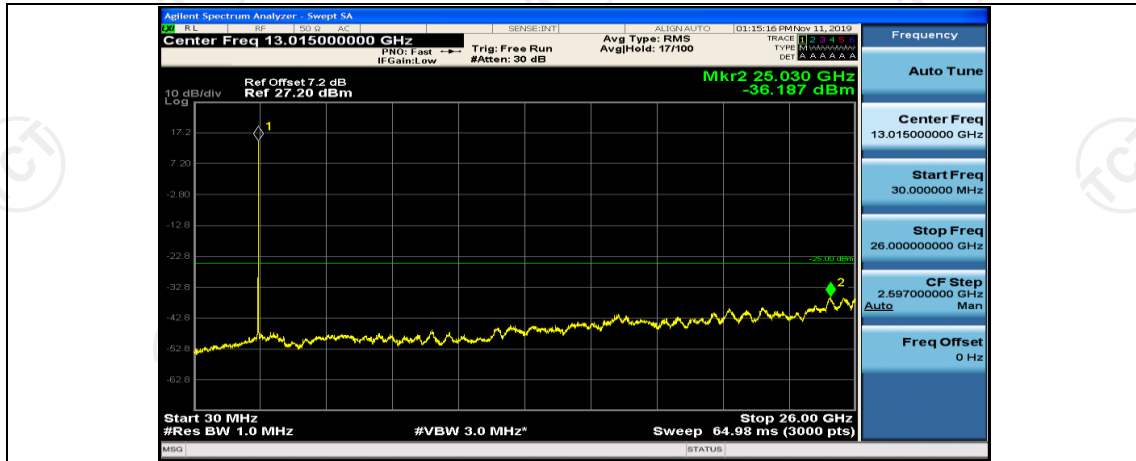












## Test Result

**Channel Bandwidth: 5 MHz**

| Channel Bandwidth: 5 MHz |         |               |                  |                |                 |             |         |
|--------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage                  |         |               |                  |                |                 |             |         |
| Modulation               | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                     | LCH     | 3.5           | 25               | 0.15           | 0.000095        | ± 2.5       | PASS    |
|                          |         | 3.85          | 25               | 0.29           | 0.000114        | ± 2.5       | PASS    |
|                          |         | 4.4           | 25               | -0.05          | -0.000101       | ± 2.5       | PASS    |
|                          | MCH     | 3.5           | 25               | -3.81          | -0.001463       | ± 2.5       | PASS    |
|                          |         | 3.85          | 25               | -4.05          | -0.001597       | ± 2.5       | PASS    |
|                          |         | 4.4           | 25               | -3.72          | -0.001395       | ± 2.5       | PASS    |
|                          | HCH     | 3.5           | 25               | -3.50          | -0.001288       | ± 2.5       | PASS    |
|                          |         | 3.85          | 25               | -2.68          | -0.001042       | ± 2.5       | PASS    |
|                          |         | 4.4           | 25               | -2.53          | -0.000983       | ± 2.5       | PASS    |
| 16QAM                    | LCH     | 3.5           | 25               | -2.41          | -0.000864       | ± 2.5       | PASS    |
|                          |         | 3.85          | 25               | 0.01           | 0.000006        | ± 2.5       | PASS    |
|                          |         | 4.4           | 25               | 0.17           | 0.000121        | ± 2.5       | PASS    |
|                          | MCH     | 3.5           | 25               | 0.24           | 0.000139        | ± 2.5       | PASS    |
|                          |         | 3.85          | 25               | -3.68          | -0.001450       | ± 2.5       | PASS    |
|                          |         | 4.4           | 25               | -3.46          | -0.001324       | ± 2.5       | PASS    |
|                          | HCH     | 3.5           | 25               | -3.37          | -0.001281       | ± 2.5       | PASS    |
|                          |         | 3.85          | 25               | -4.46          | -0.001738       | ± 2.5       | PASS    |
|                          |         | 4.4           | 25               | -4.29          | -0.001677       | ± 2.5       | PASS    |
| Temperature              |         |               |                  |                |                 |             |         |
| Modulation               | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                     | LCH     | 3.85          | -30              | -3.28          | -0.001785       | ± 2.5       | PASS    |
|                          |         | 3.85          | -20              | -3.15          | -0.001613       | ± 2.5       | PASS    |
|                          |         | 3.85          | -10              | -2.92          | -0.001401       | ± 2.5       | PASS    |
|                          |         | 3.85          | 0                | -2.79          | -0.001273       | ± 2.5       | PASS    |
|                          |         | 3.85          | 10               | -2.67          | -0.001129       | ± 2.5       | PASS    |
|                          |         | 3.85          | 20               | -2.52          | -0.001006       | ± 2.5       | PASS    |
|                          |         | 3.85          | 30               | 1.47           | 0.000589        | ± 2.5       | PASS    |
|                          |         | 3.85          | 40               | -1.37          | -0.000549       | ± 2.5       | PASS    |
|                          | 3.85    | 50            | -3.65            | -0.001458      | ± 2.5           | PASS        |         |
| MCH                      | 3.85    | -30           | -3.41            | -0.001370      | ± 2.5           | PASS        |         |

|       |     |      |     |        |           |       |      |
|-------|-----|------|-----|--------|-----------|-------|------|
|       |     | 3.85 | -20 | -3.28  | -0.001244 | ± 2.5 | PASS |
|       |     | 3.85 | -10 | -3.13  | -0.001130 | ± 2.5 | PASS |
|       |     | 3.85 | 0   | -3.04  | -0.001022 | ± 2.5 | PASS |
|       |     | 3.85 | 10  | -2.86  | -0.000967 | ± 2.5 | PASS |
|       |     | 3.85 | 20  | -6.67  | -0.002630 | ± 2.5 | PASS |
|       |     | 3.85 | 30  | -3.49  | -0.001377 | ± 2.5 | PASS |
|       |     | 3.85 | 40  | -4.66  | -0.001840 | ± 2.5 | PASS |
|       |     | 3.85 | 50  | -4.86  | -0.001919 | ± 2.5 | PASS |
|       | HCH | 3.85 | -30 | -4.71  | -0.001843 | ± 2.5 | PASS |
|       |     | 3.85 | -20 | -4.53  | -0.001722 | ± 2.5 | PASS |
|       |     | 3.85 | -10 | -4.31  | -0.001609 | ± 2.5 | PASS |
|       |     | 3.85 | 0   | -4.14  | -0.001503 | ± 2.5 | PASS |
|       |     | 3.85 | 10  | -4.02  | -0.001416 | ± 2.5 | PASS |
|       |     | 3.85 | 20  | -1.34  | -0.000524 | ± 2.5 | PASS |
|       |     | 3.85 | 30  | -3.73  | -0.001454 | ± 2.5 | PASS |
|       |     | 3.85 | 40  | -0.03  | -0.000011 | ± 2.5 | PASS |
|       |     | 3.85 | 50  | -2.70  | -0.001053 | ± 2.5 | PASS |
|       | LCH | 3.85 | -30 | -2.55  | -0.000990 | ± 2.5 | PASS |
|       |     | 3.85 | -20 | -2.32  | -0.000891 | ± 2.5 | PASS |
|       |     | 3.85 | -10 | -2.11  | -0.000776 | ± 2.5 | PASS |
|       |     | 3.85 | 0   | -2.04  | -0.000702 | ± 2.5 | PASS |
|       |     | 3.85 | 10  | -2.95  | -0.001254 | ± 2.5 | PASS |
|       |     | 3.85 | 20  | -2.76  | -0.001103 | ± 2.5 | PASS |
|       |     | 3.85 | 30  | -11.07 | -0.004424 | ± 2.5 | PASS |
|       |     | 3.85 | 40  | -4.32  | -0.001726 | ± 2.5 | PASS |
|       |     | 3.85 | 50  | -5.01  | -0.002001 | ± 2.5 | PASS |
|       | MCH | 3.85 | -30 | -4.86  | -0.001918 | ± 2.5 | PASS |
|       |     | 3.85 | -20 | -4.73  | -0.001724 | ± 2.5 | PASS |
|       |     | 3.85 | -10 | -4.50  | -0.001640 | ± 2.5 | PASS |
|       |     | 3.85 | 0   | -4.31  | -0.001483 | ± 2.5 | PASS |
|       |     | 3.85 | 10  | -4.08  | -0.001298 | ± 2.5 | PASS |
|       |     | 3.85 | 20  | -0.44  | -0.000175 | ± 2.5 | PASS |
|       |     | 3.85 | 30  | 1.57   | 0.000621  | ± 2.5 | PASS |
|       |     | 3.85 | 40  | -5.04  | -0.001986 | ± 2.5 | PASS |
|       |     | 3.85 | 50  | -4.96  | -0.001958 | ± 2.5 | PASS |
| 16QAM | HCH | 3.85 | -30 | -4.84  | -0.001760 | ± 2.5 | PASS |
|       |     | 3.85 | -20 | -4.61  | -0.001635 | ± 2.5 | PASS |
|       |     | 3.85 | -10 | -4.37  | -0.001470 | ± 2.5 | PASS |
|       |     | 3.85 | 0   | -4.18  | -0.001352 | ± 2.5 | PASS |
|       |     | 3.85 | 10  | -4.02  | -0.001238 | ± 2.5 | PASS |
|       |     | 3.85 | 20  | 0.34   | 0.000134  | ± 2.5 | PASS |
|       |     | 3.85 | 30  | -5.34  | -0.002078 | ± 2.5 | PASS |
|       |     | 3.85 | 40  | -2.02  | -0.000786 | ± 2.5 | PASS |
|       |     | 3.85 | 50  | -1.04  | -0.000407 | ± 2.5 | PASS |