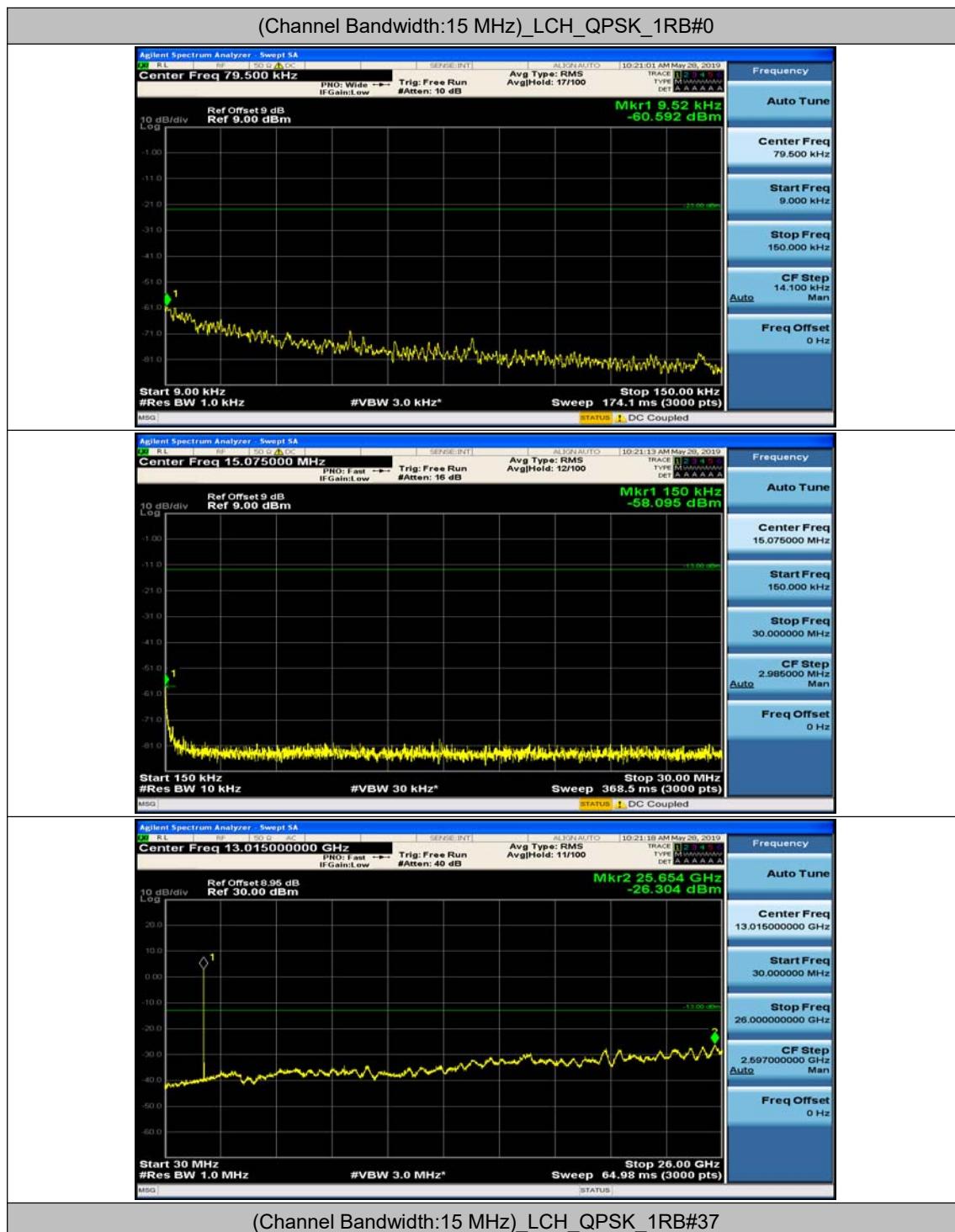
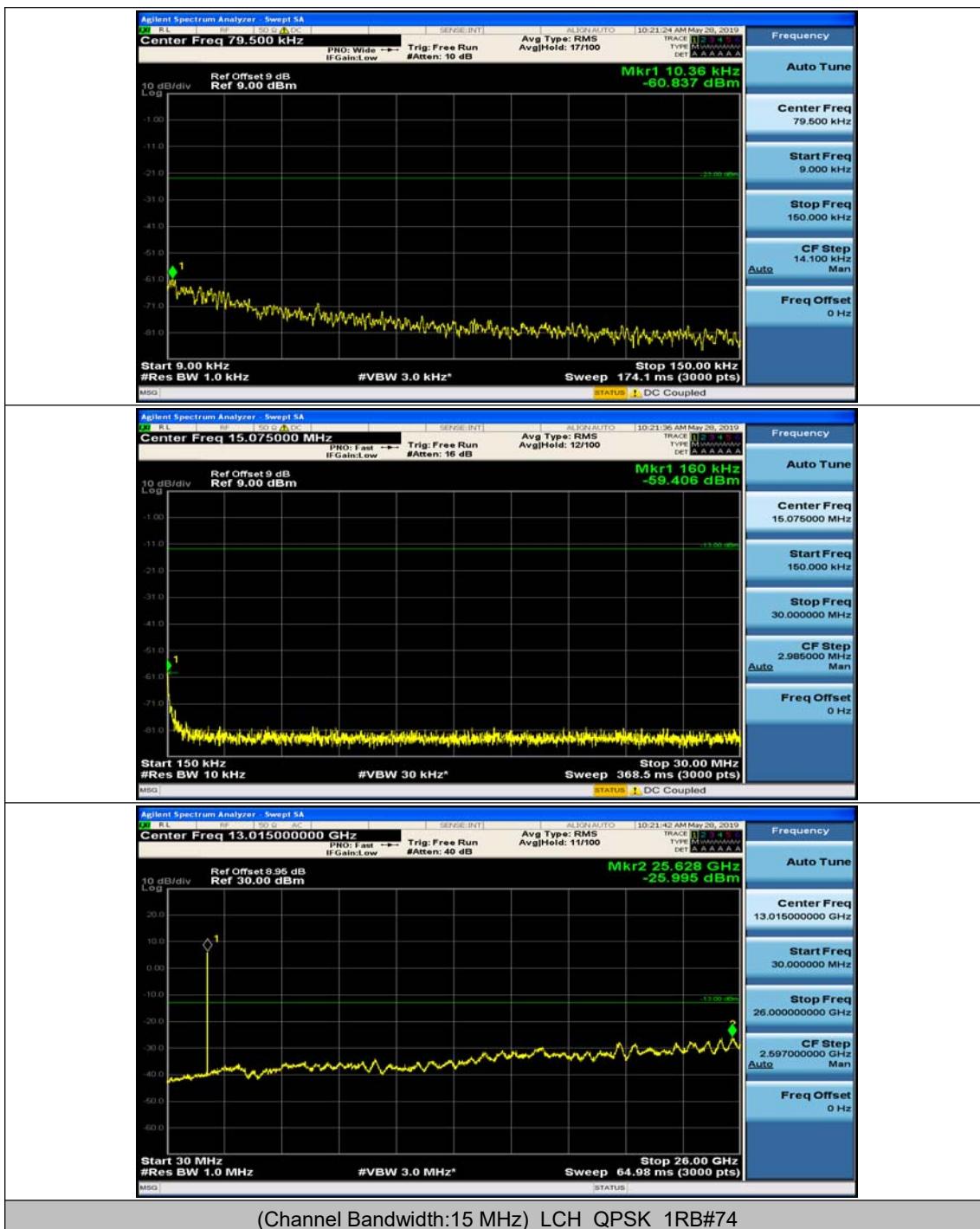
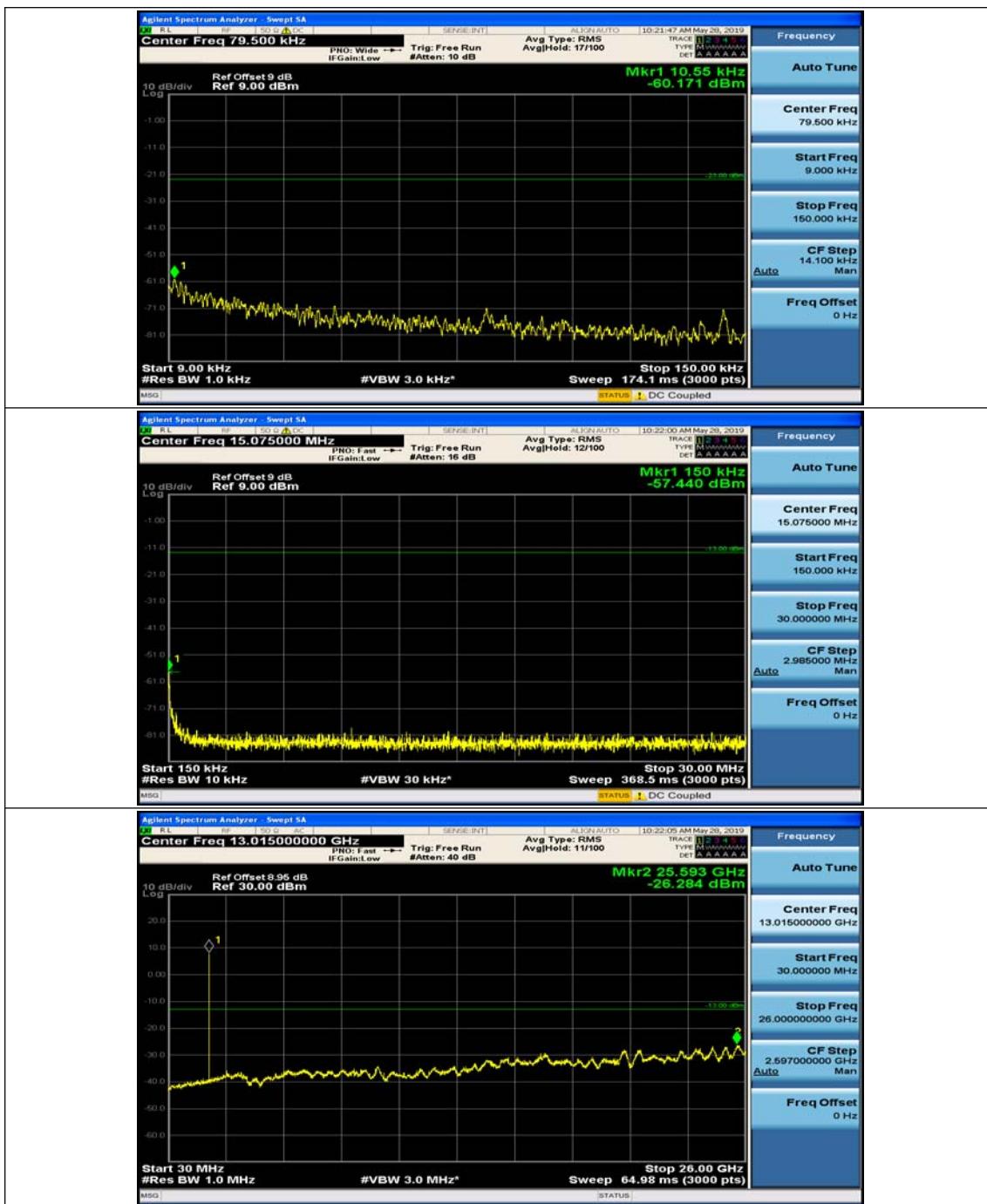


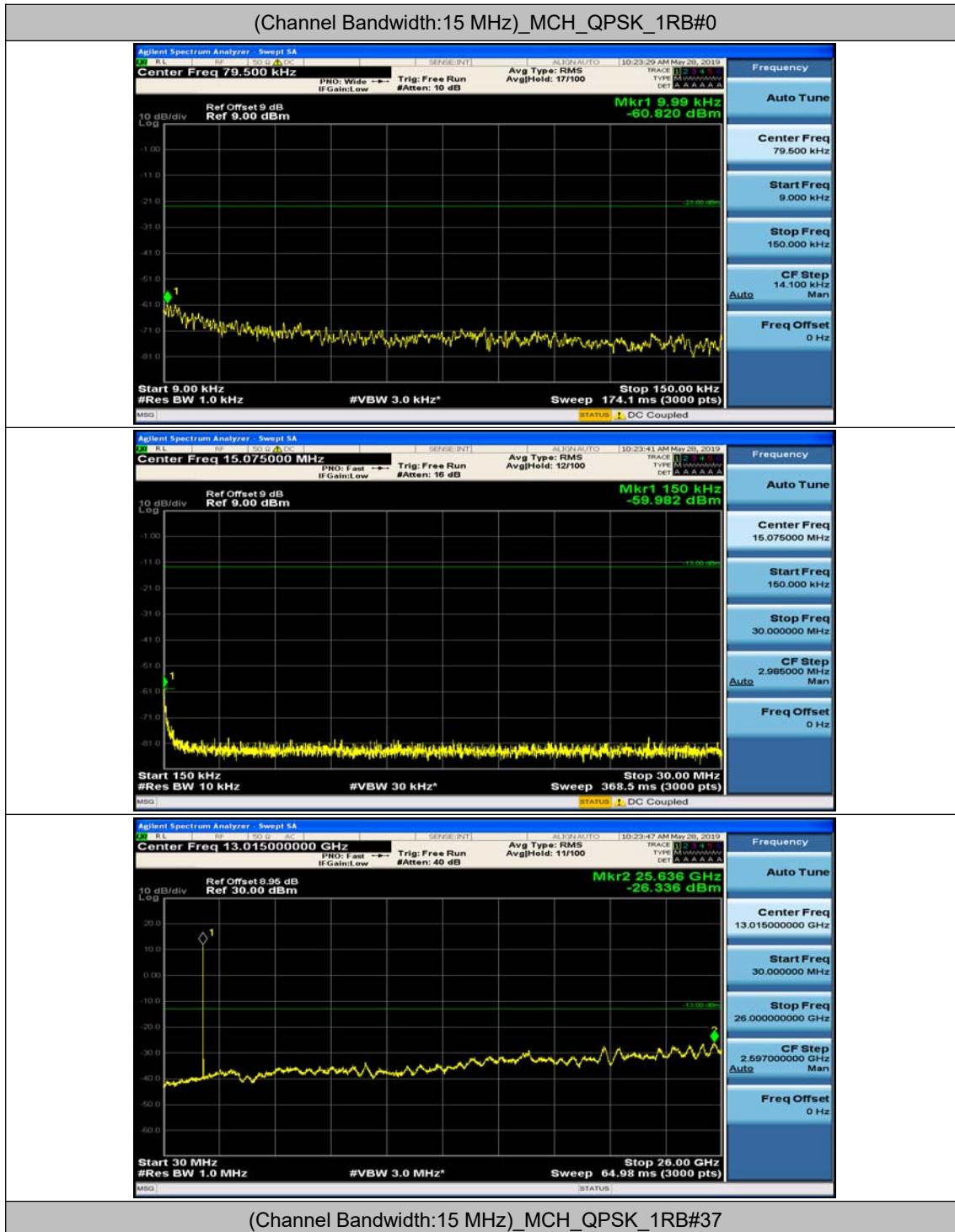
Channel Bandwidth: 15 MHz

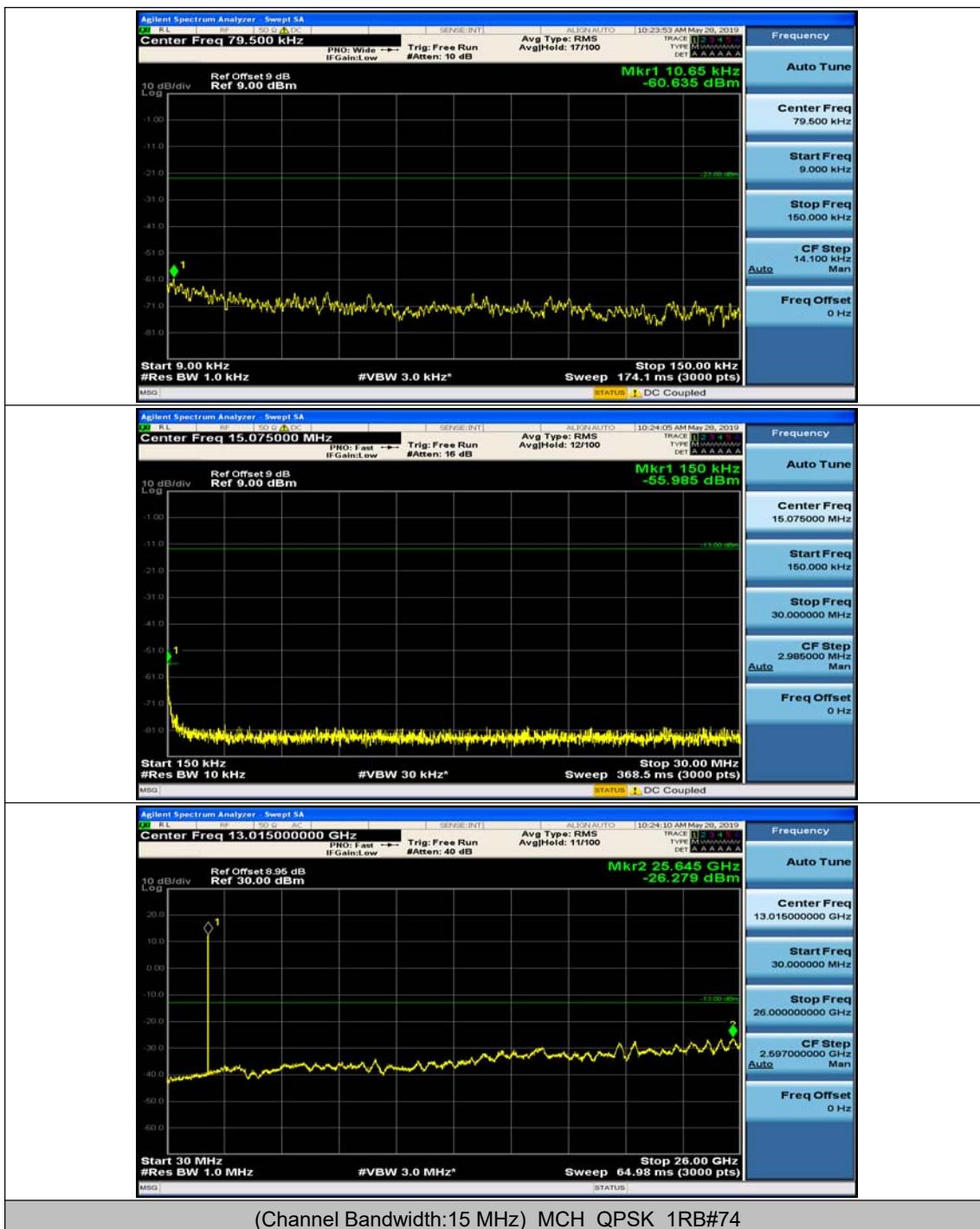


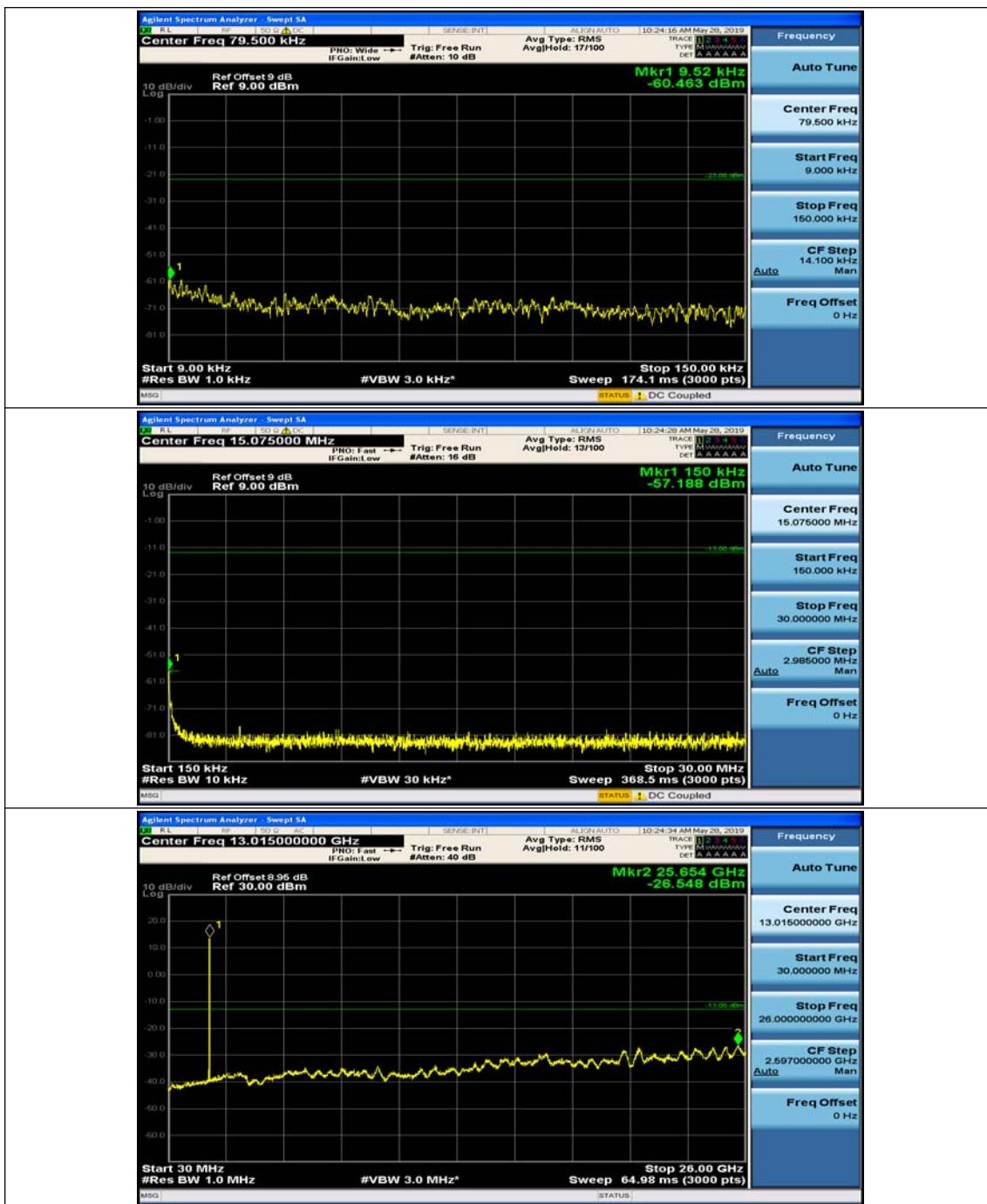
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#37

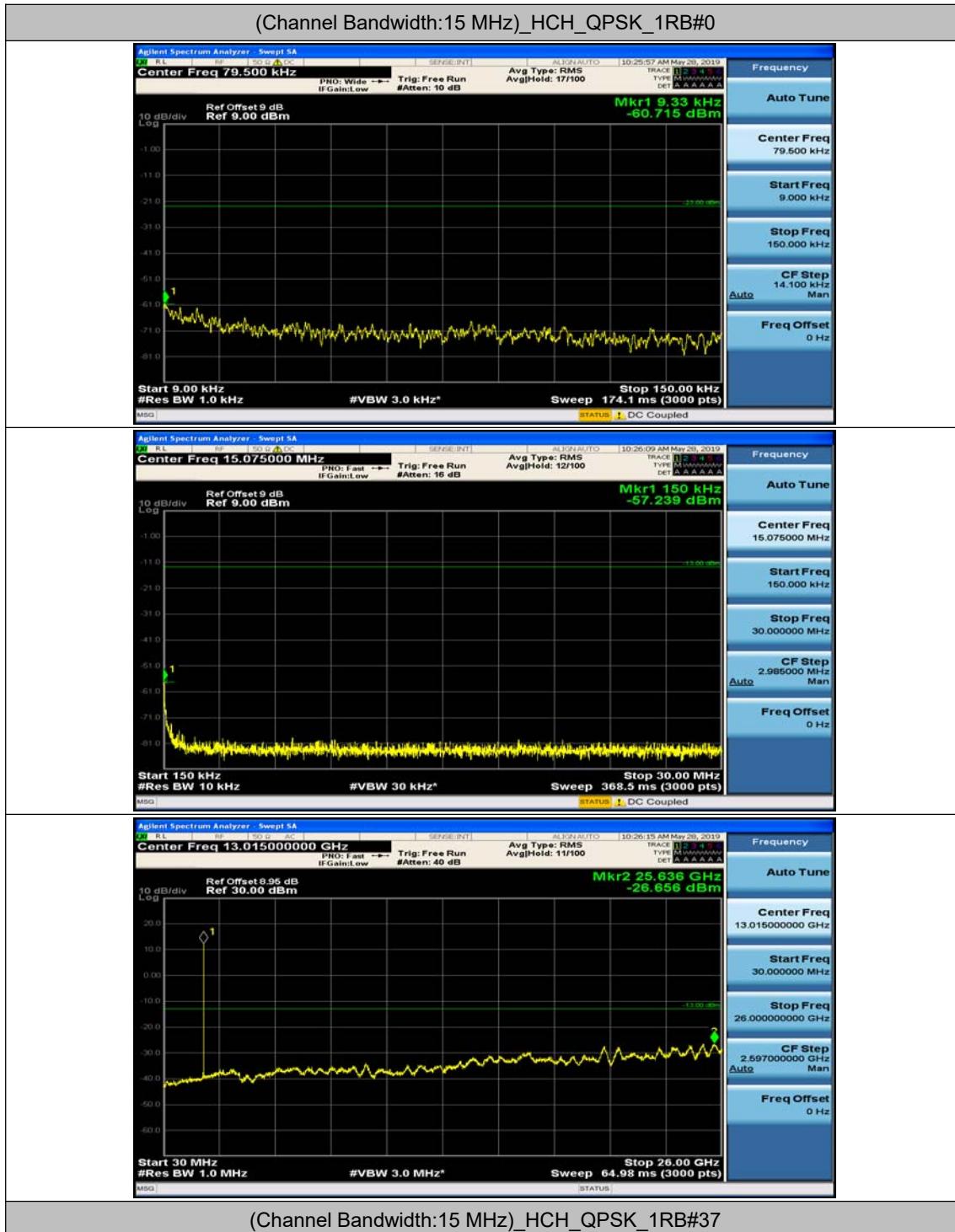


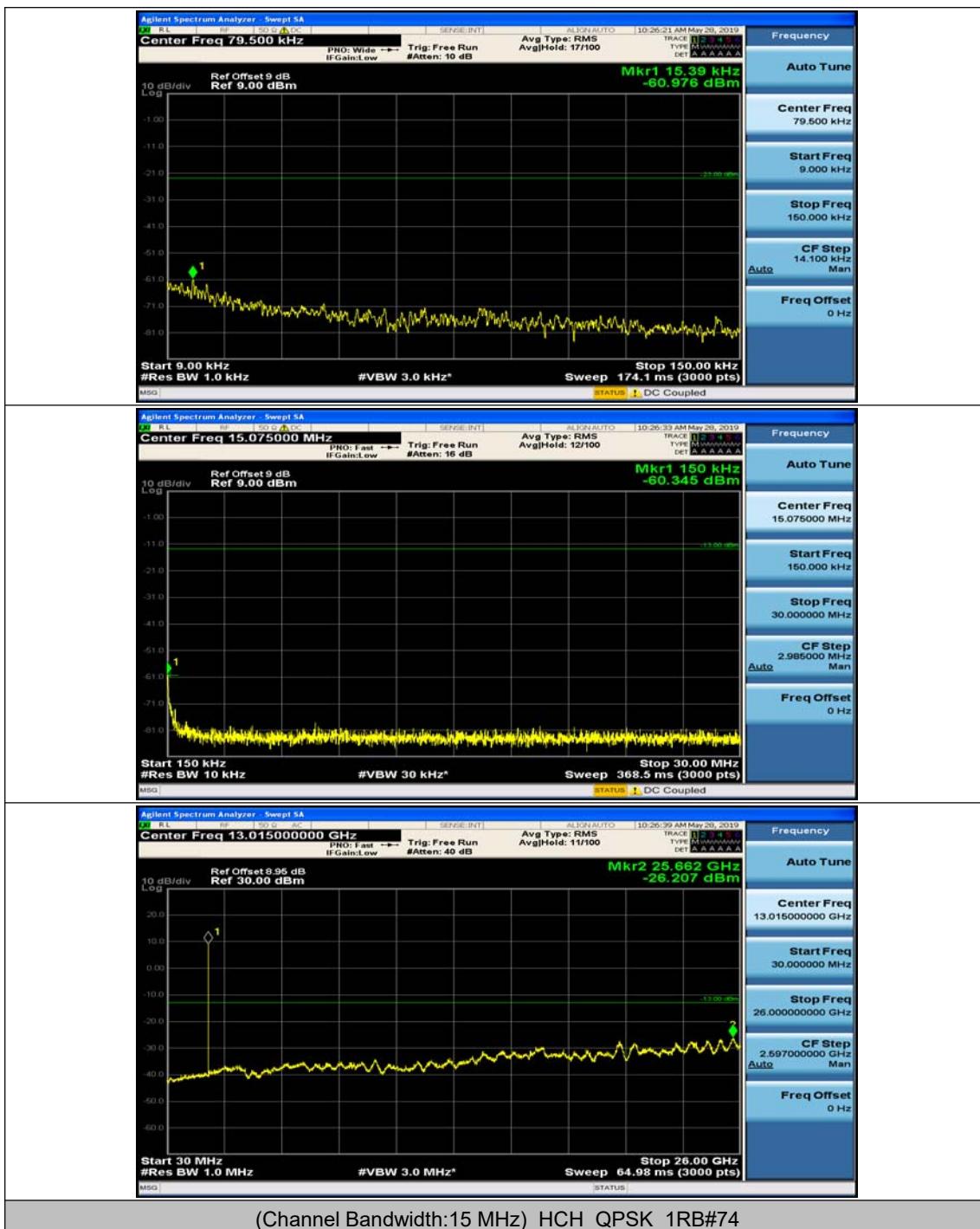


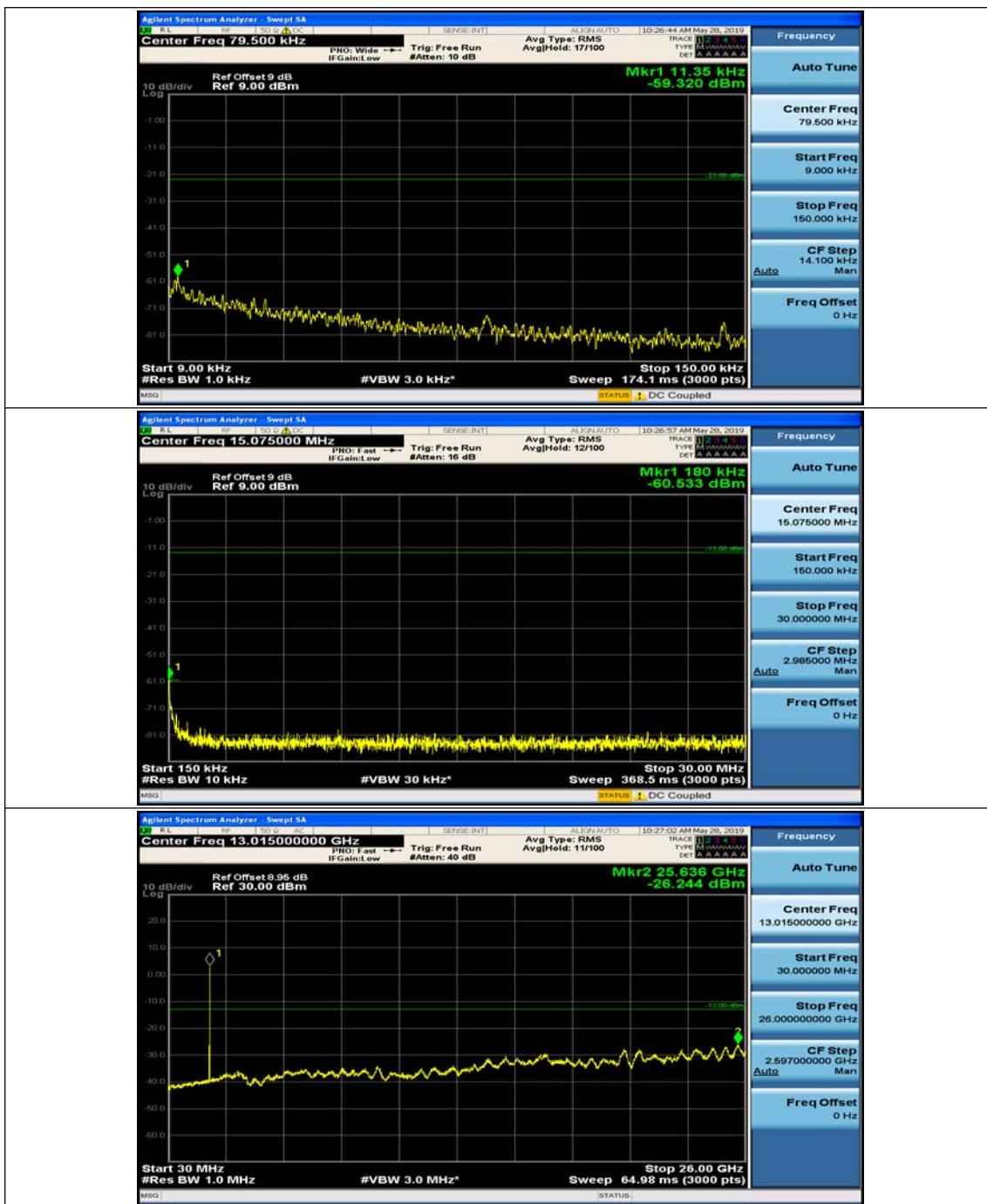


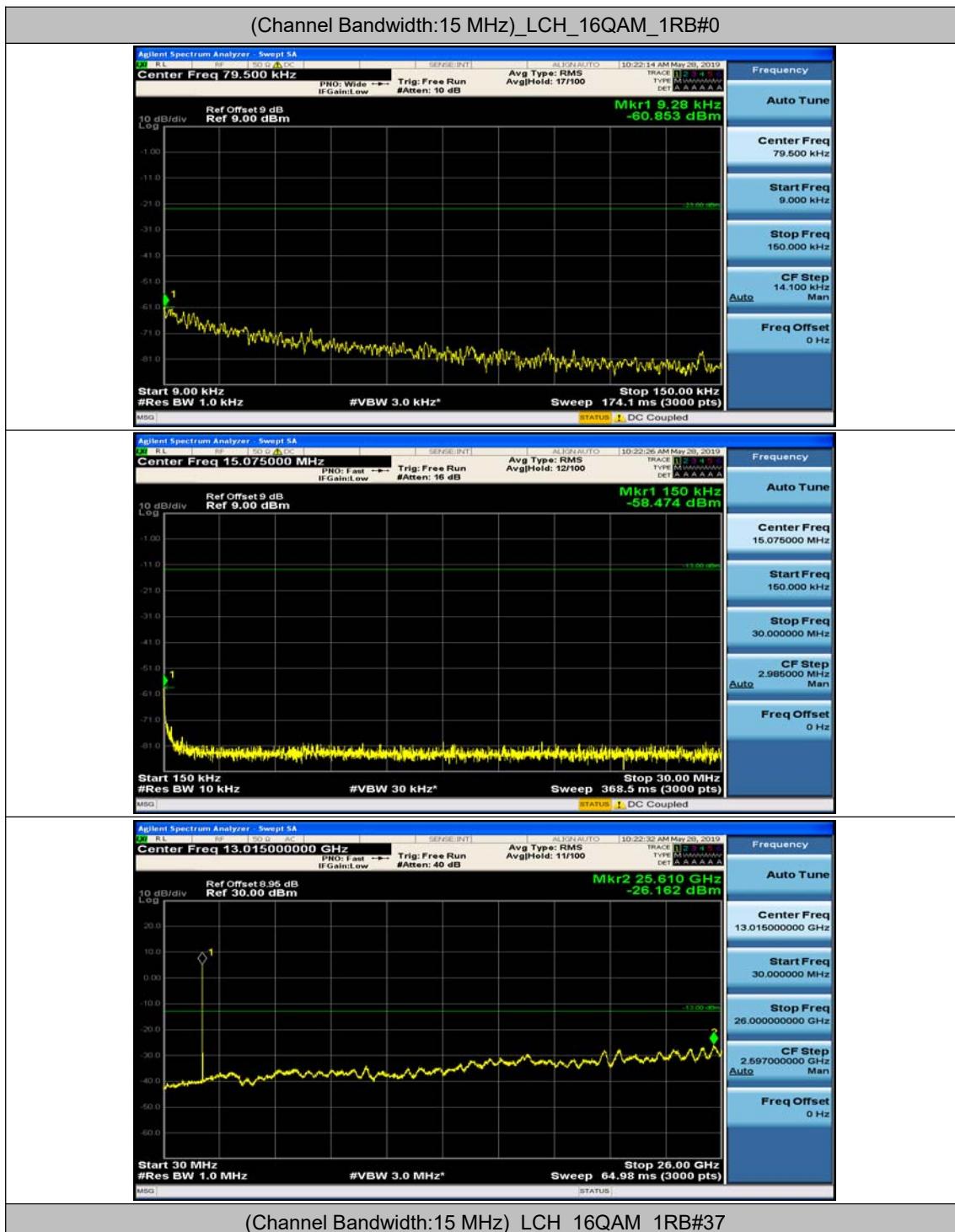


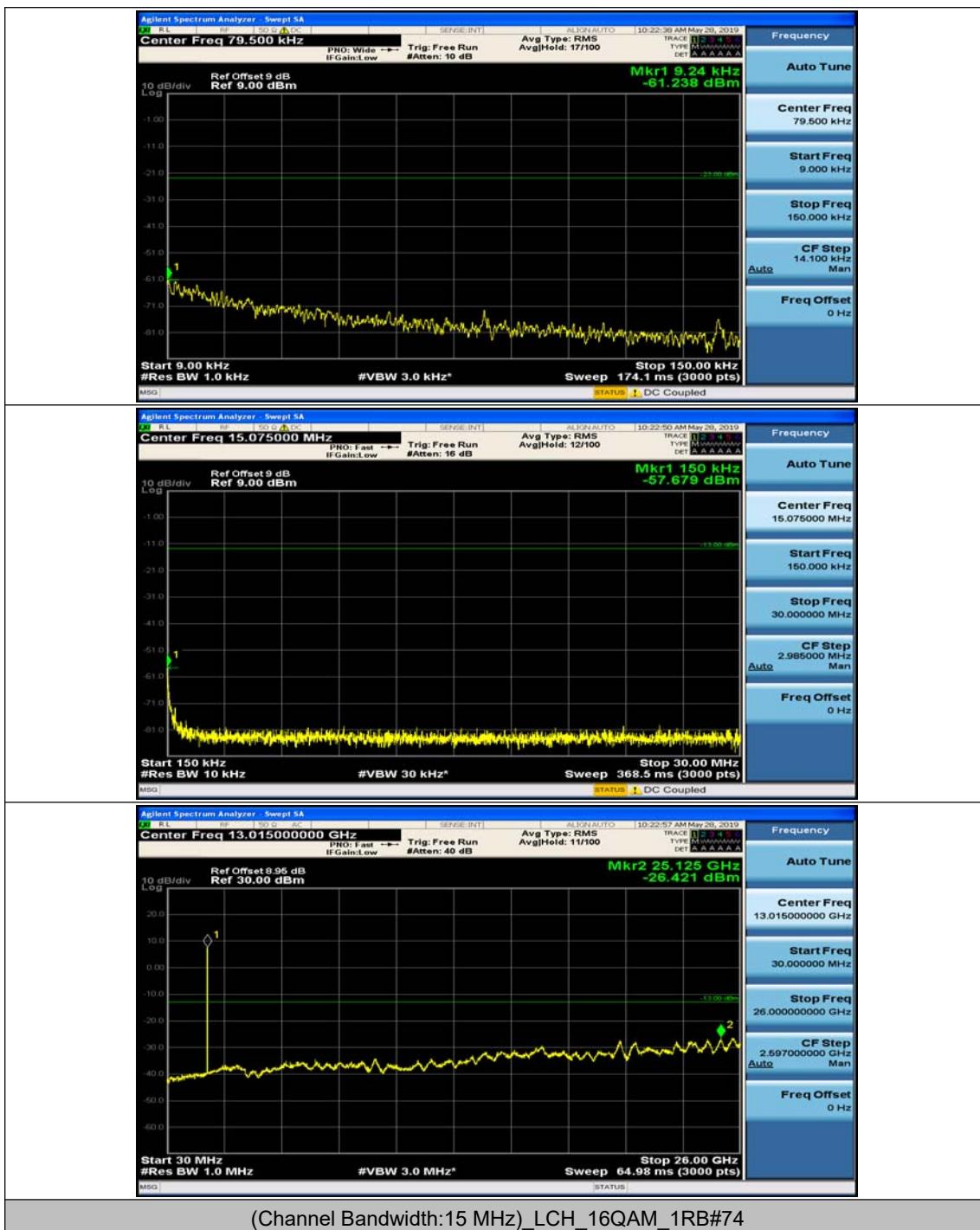


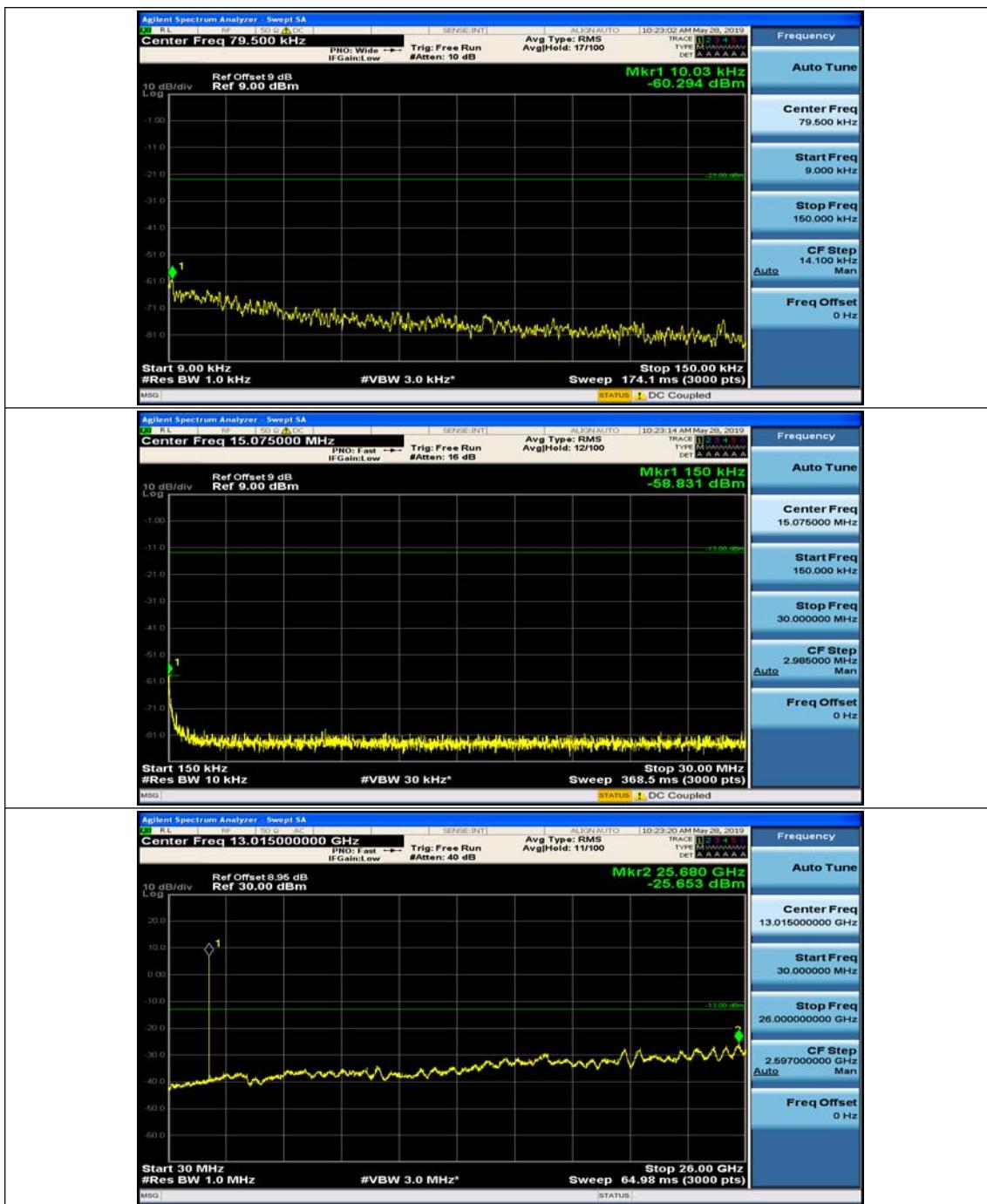


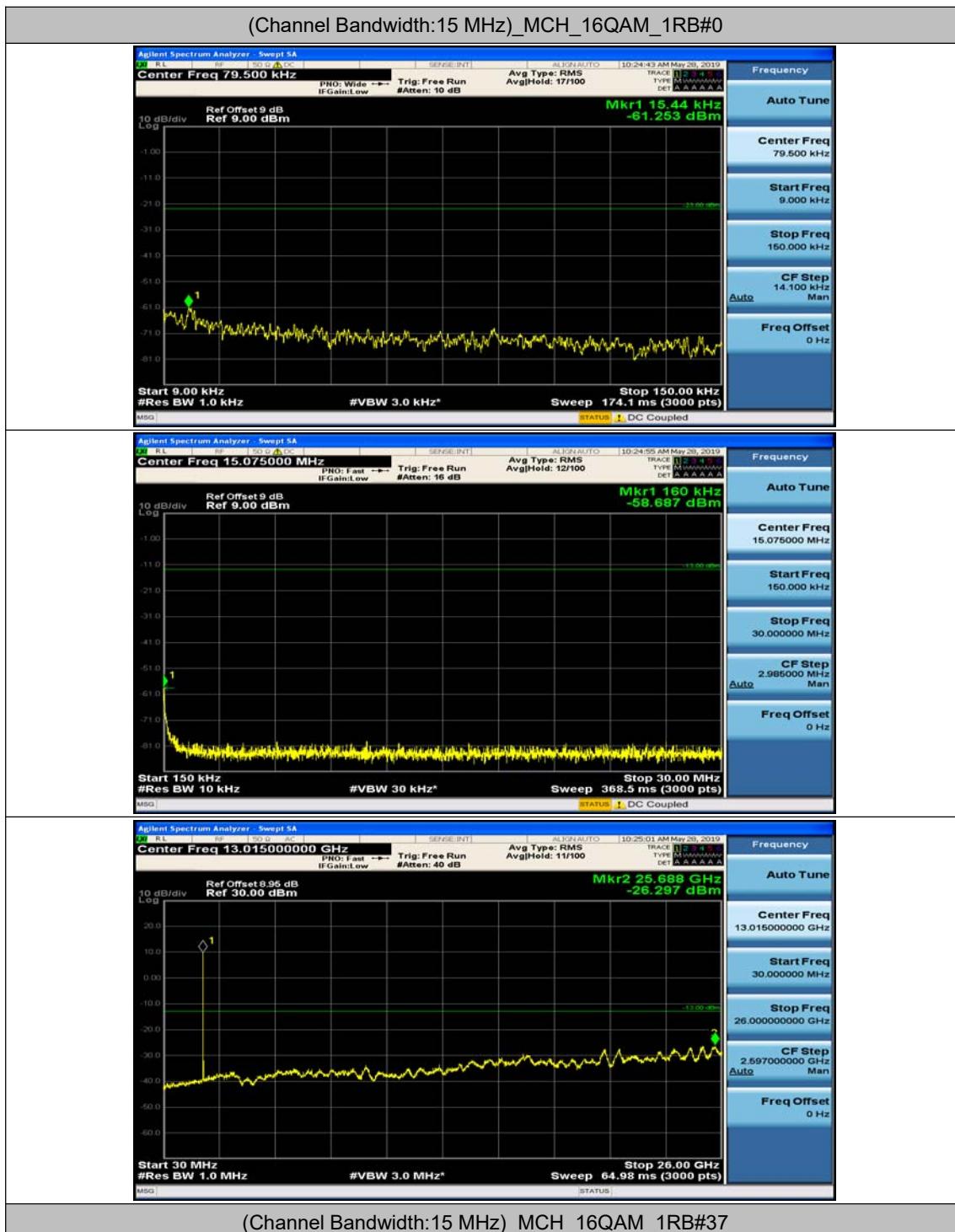


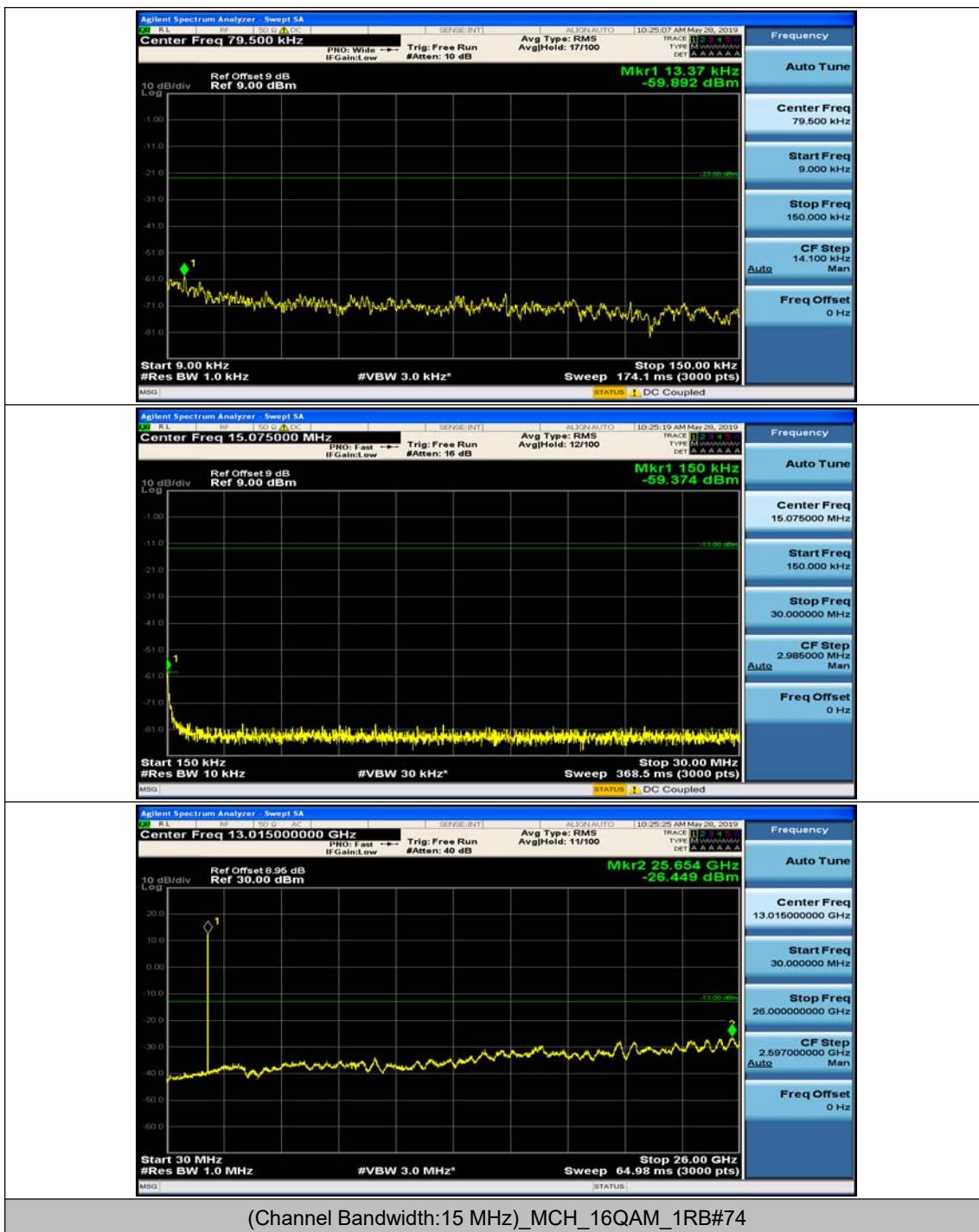


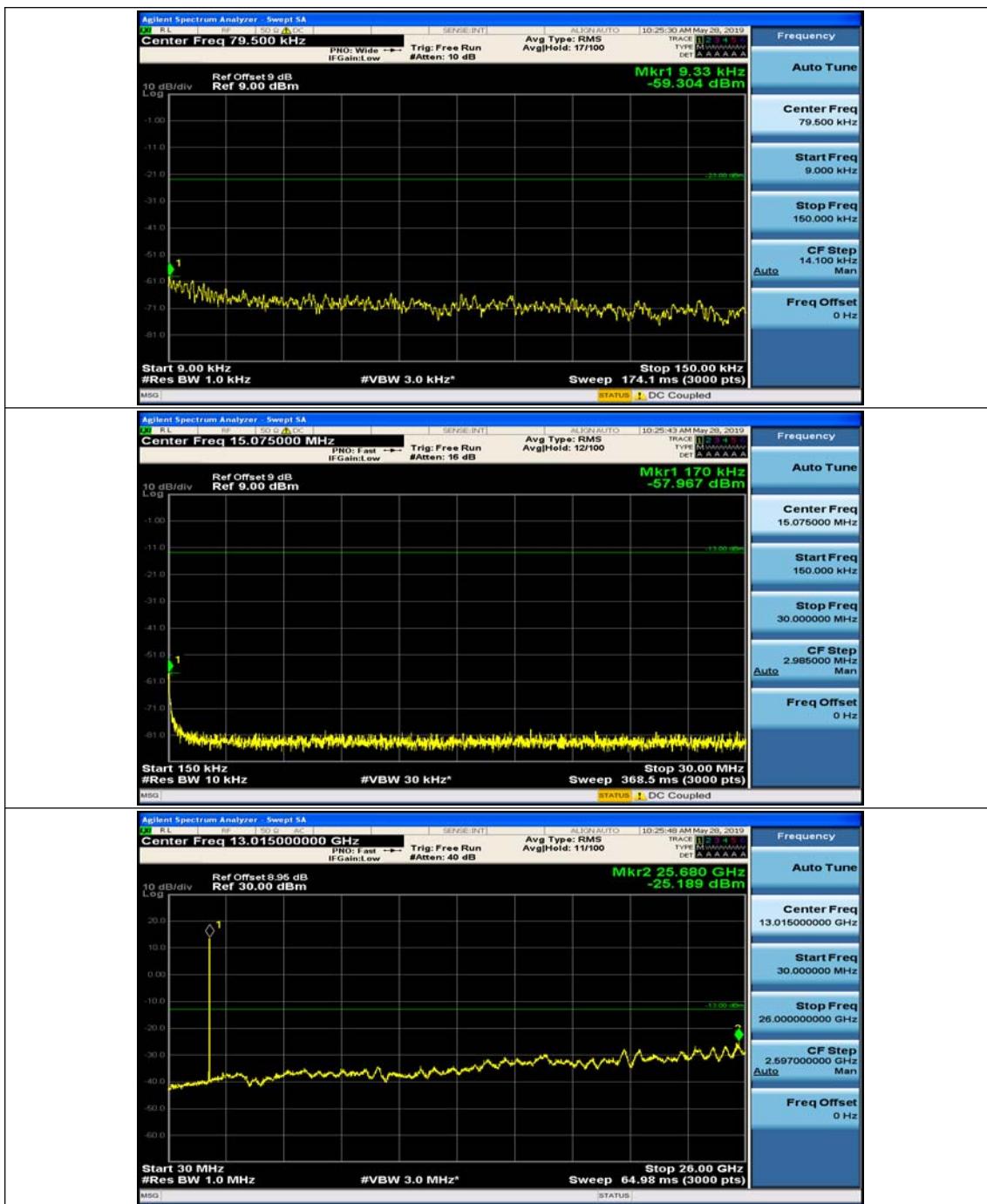


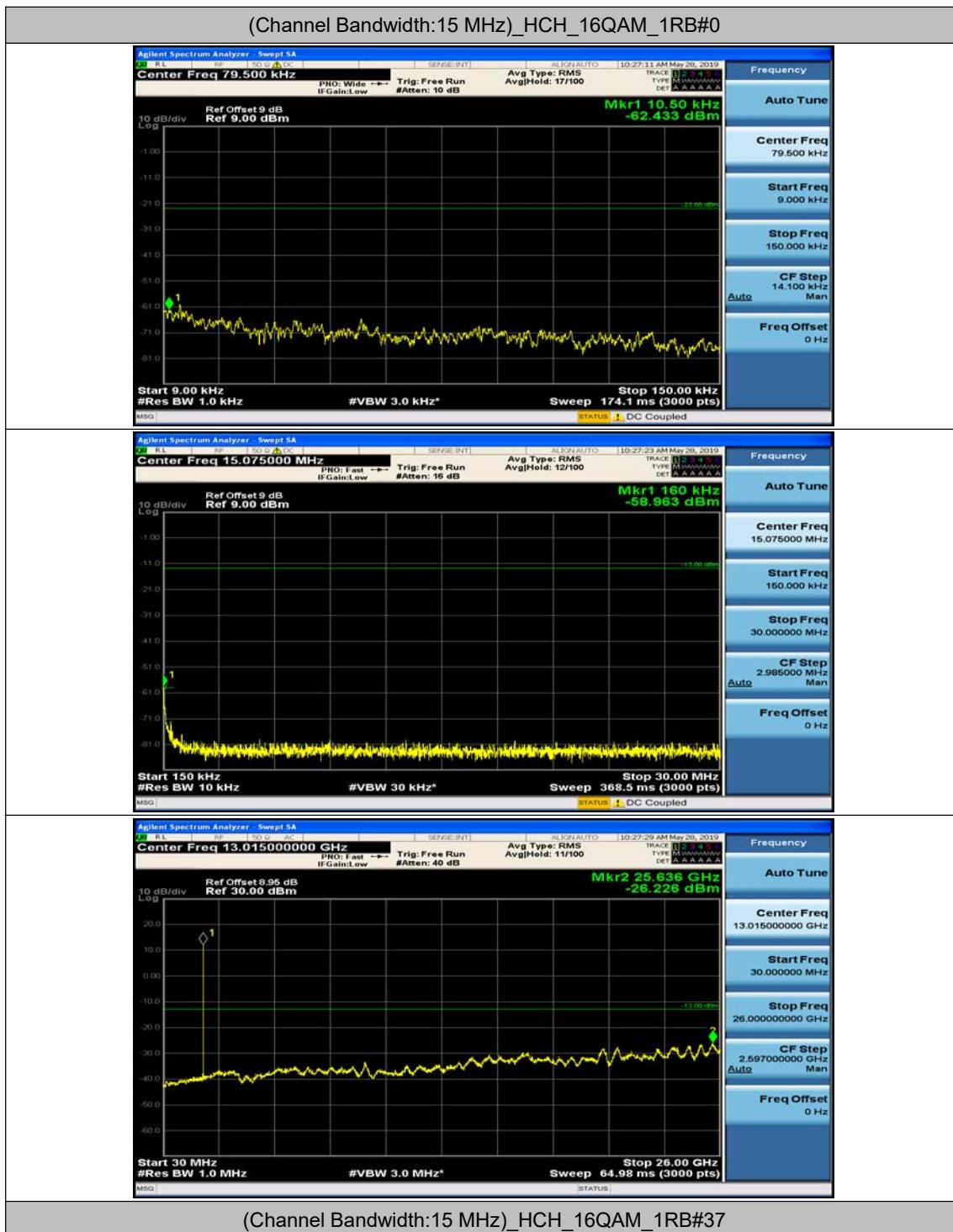


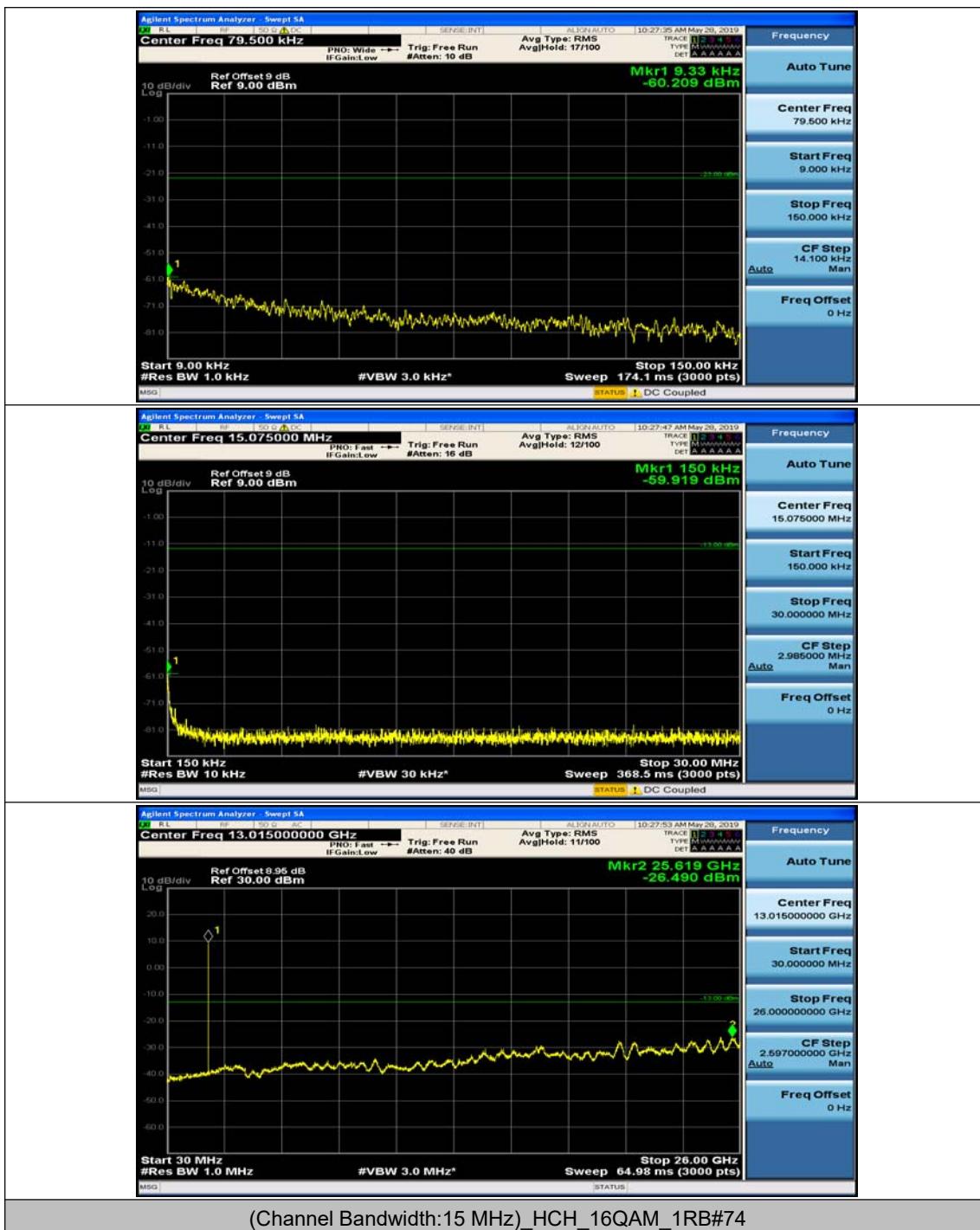


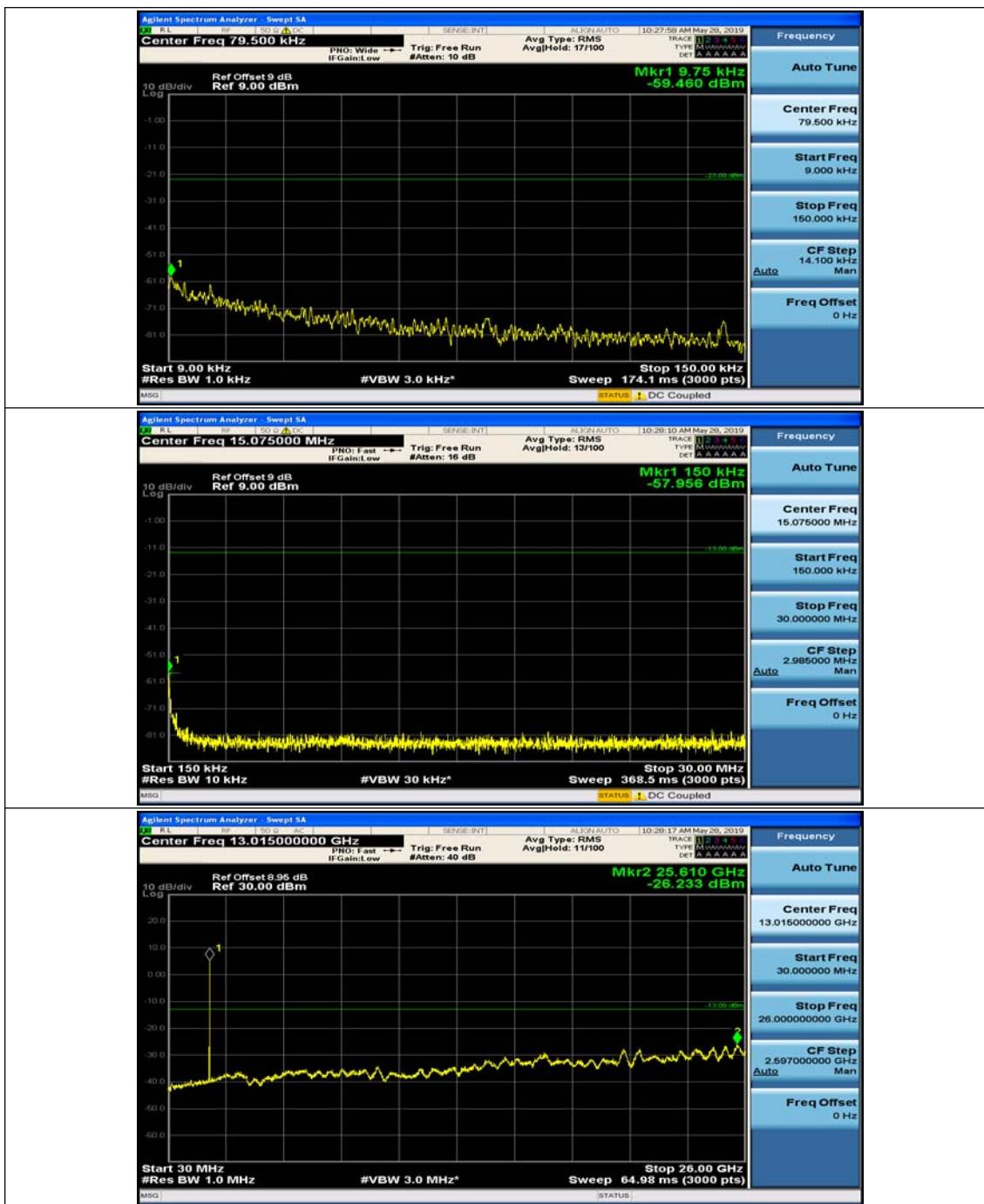




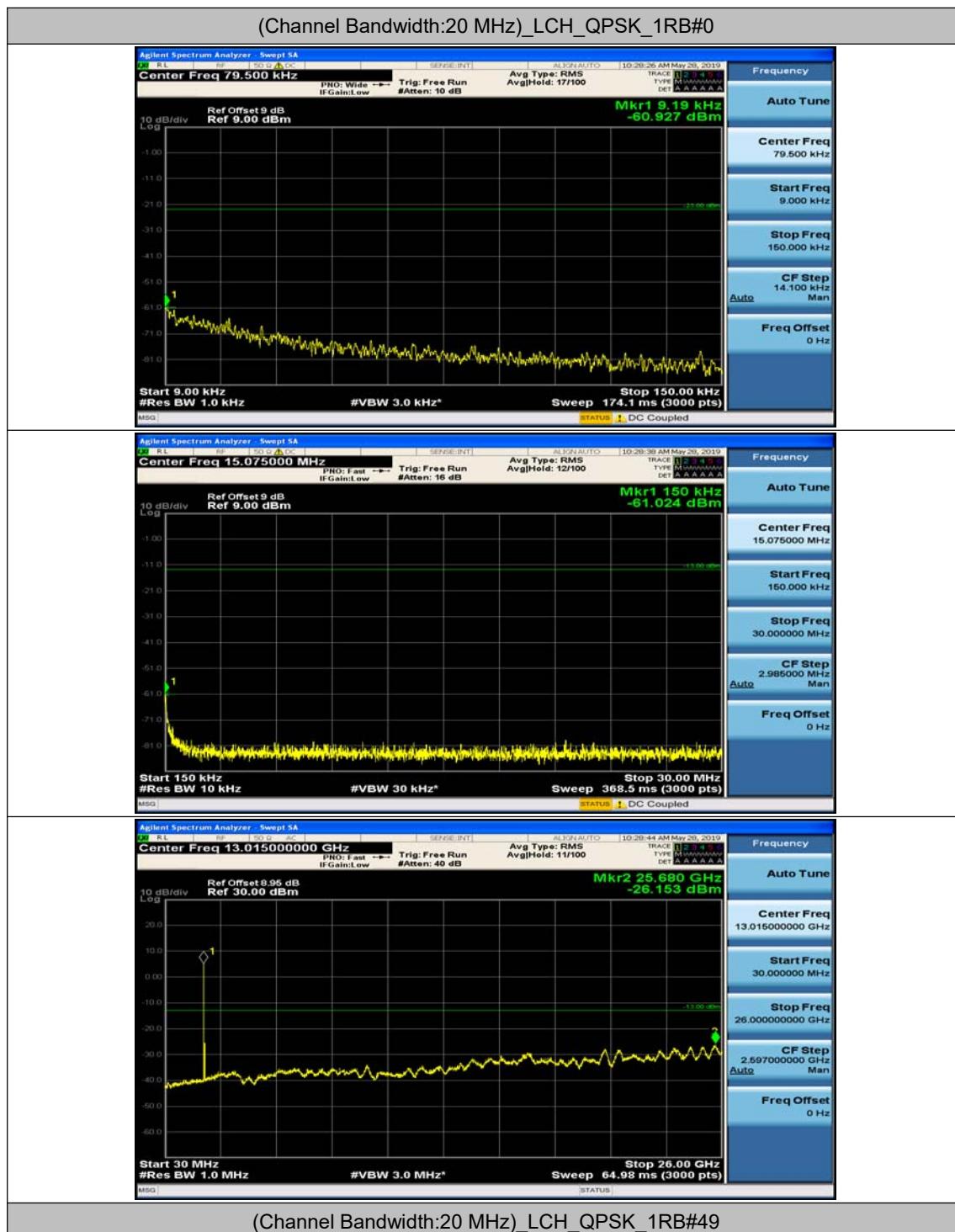


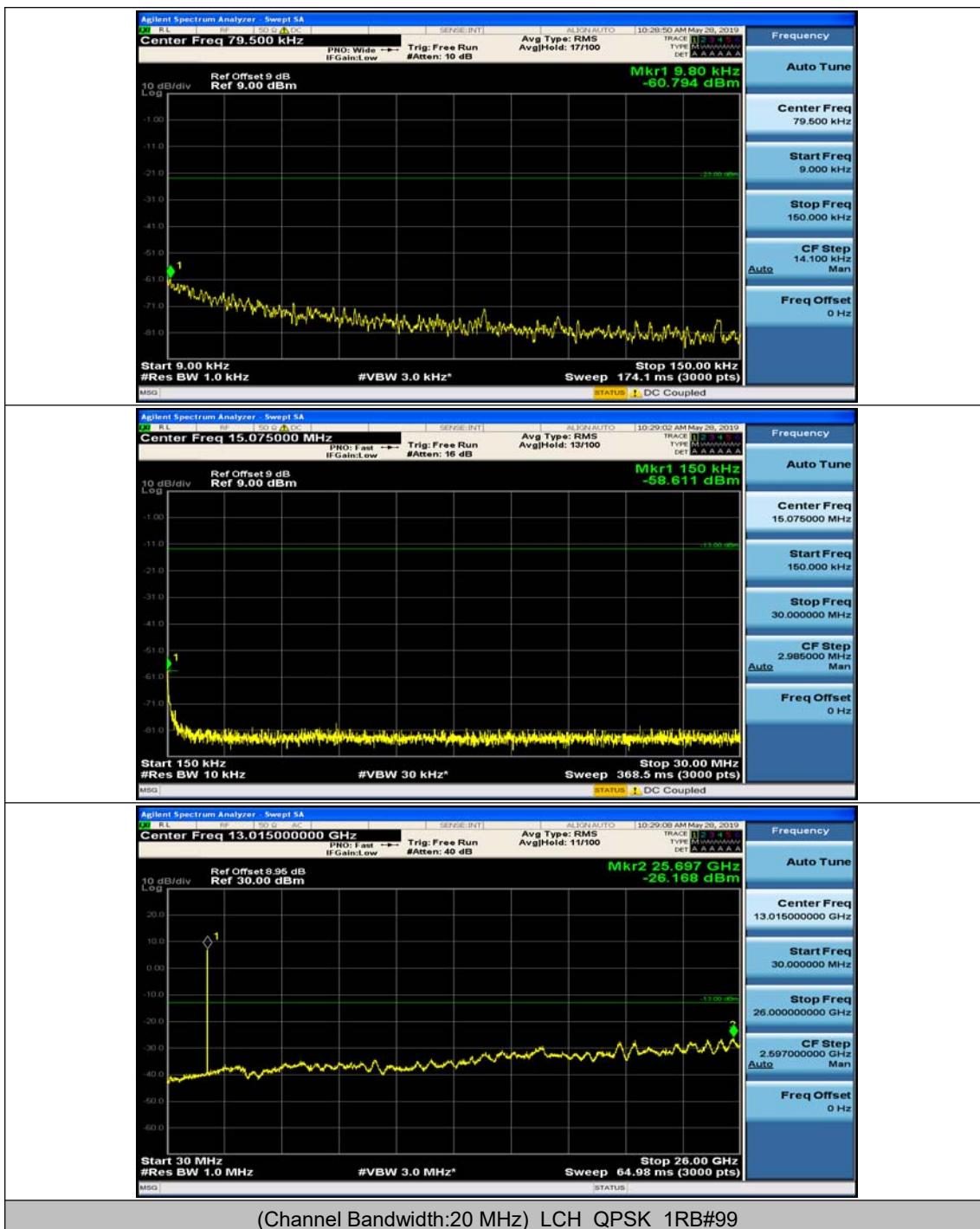


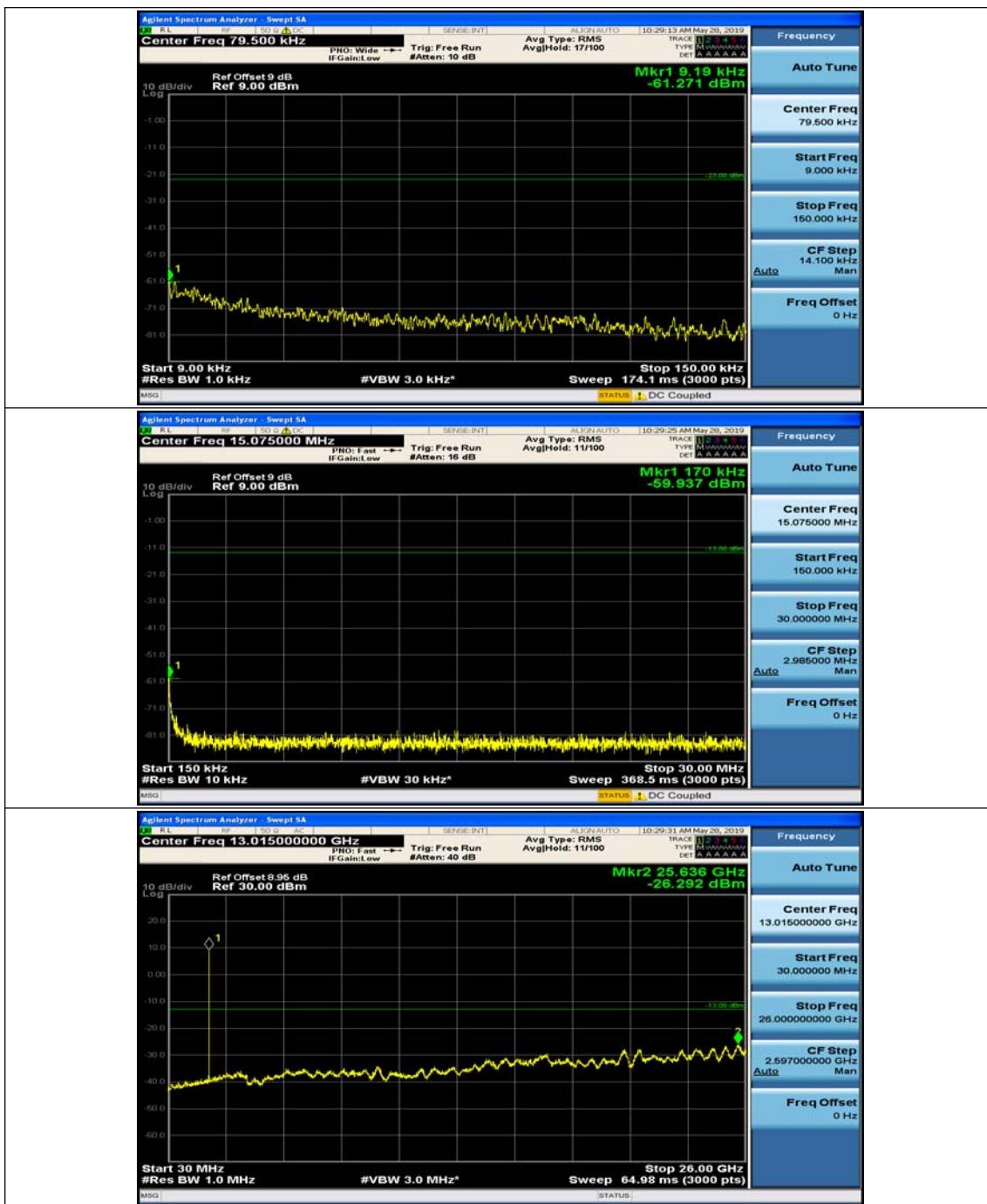


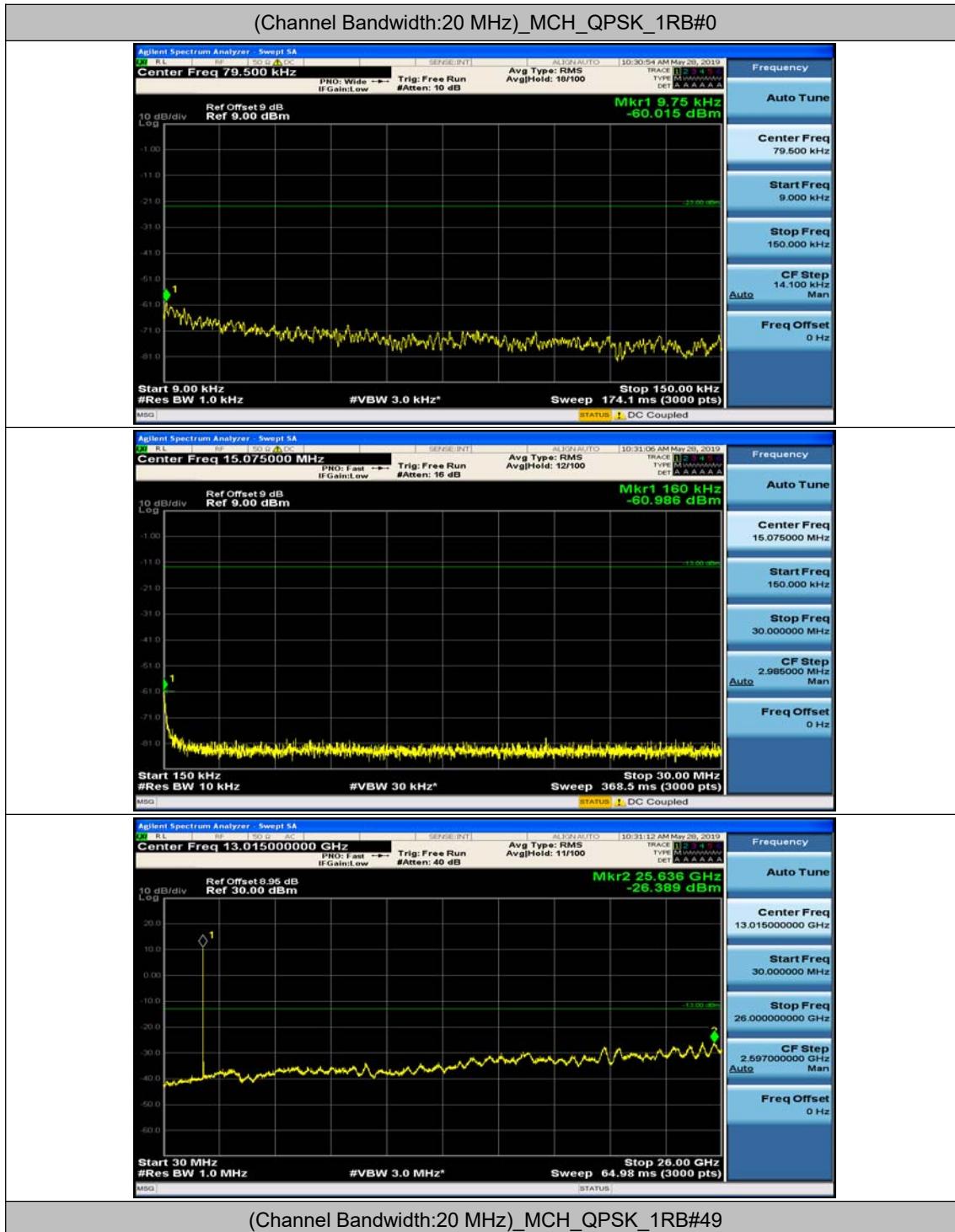


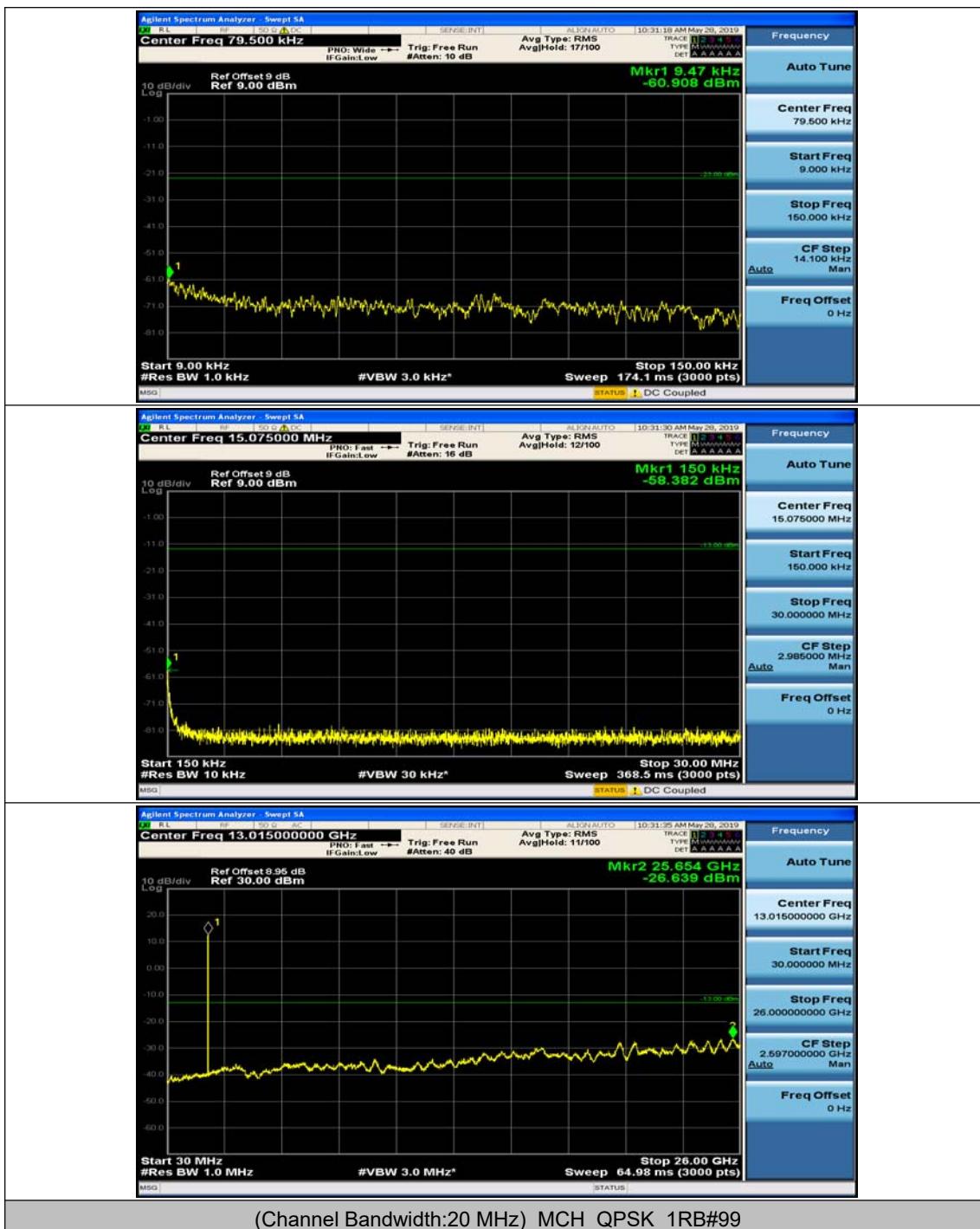
Channel Bandwidth: 20 MHz

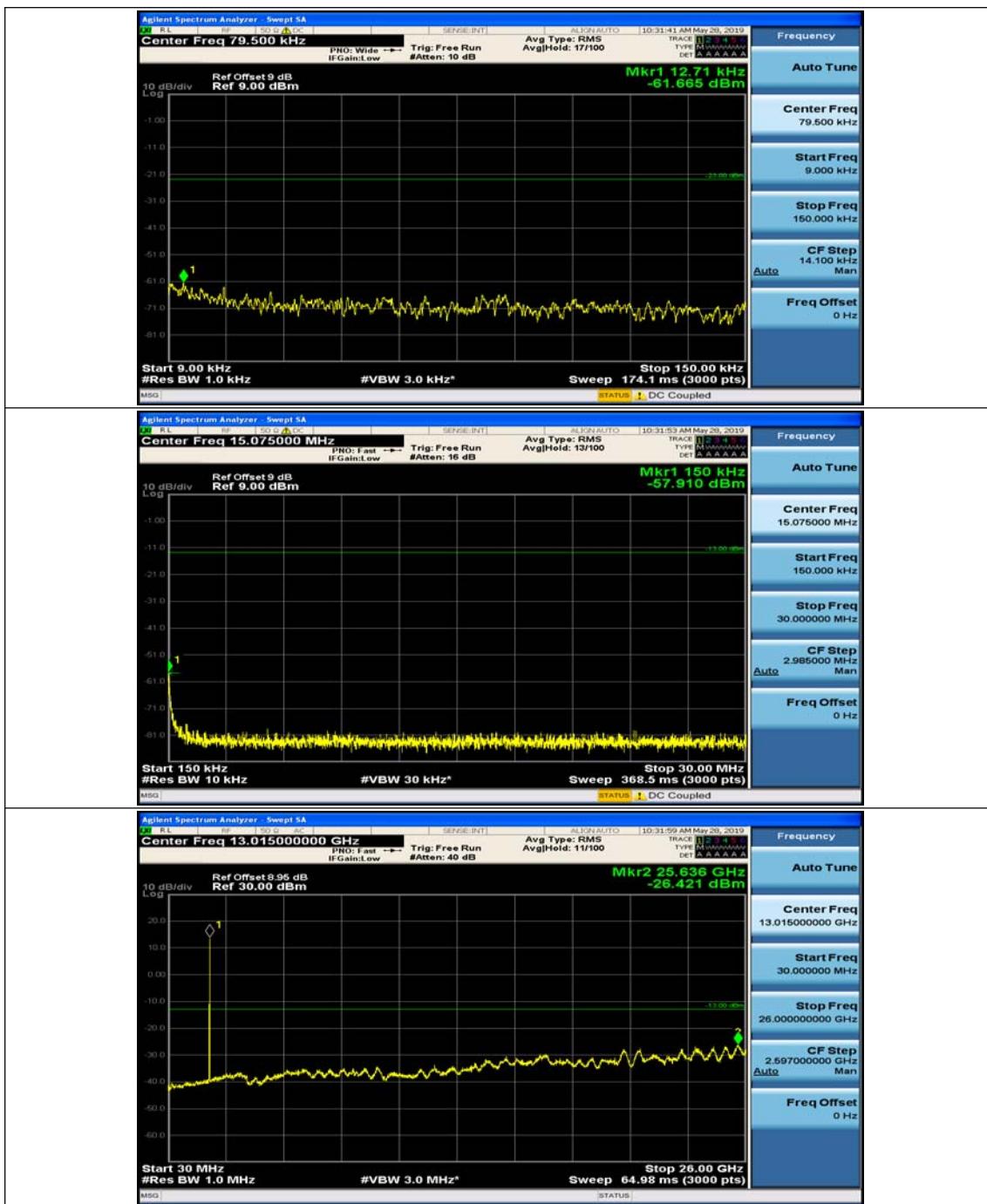


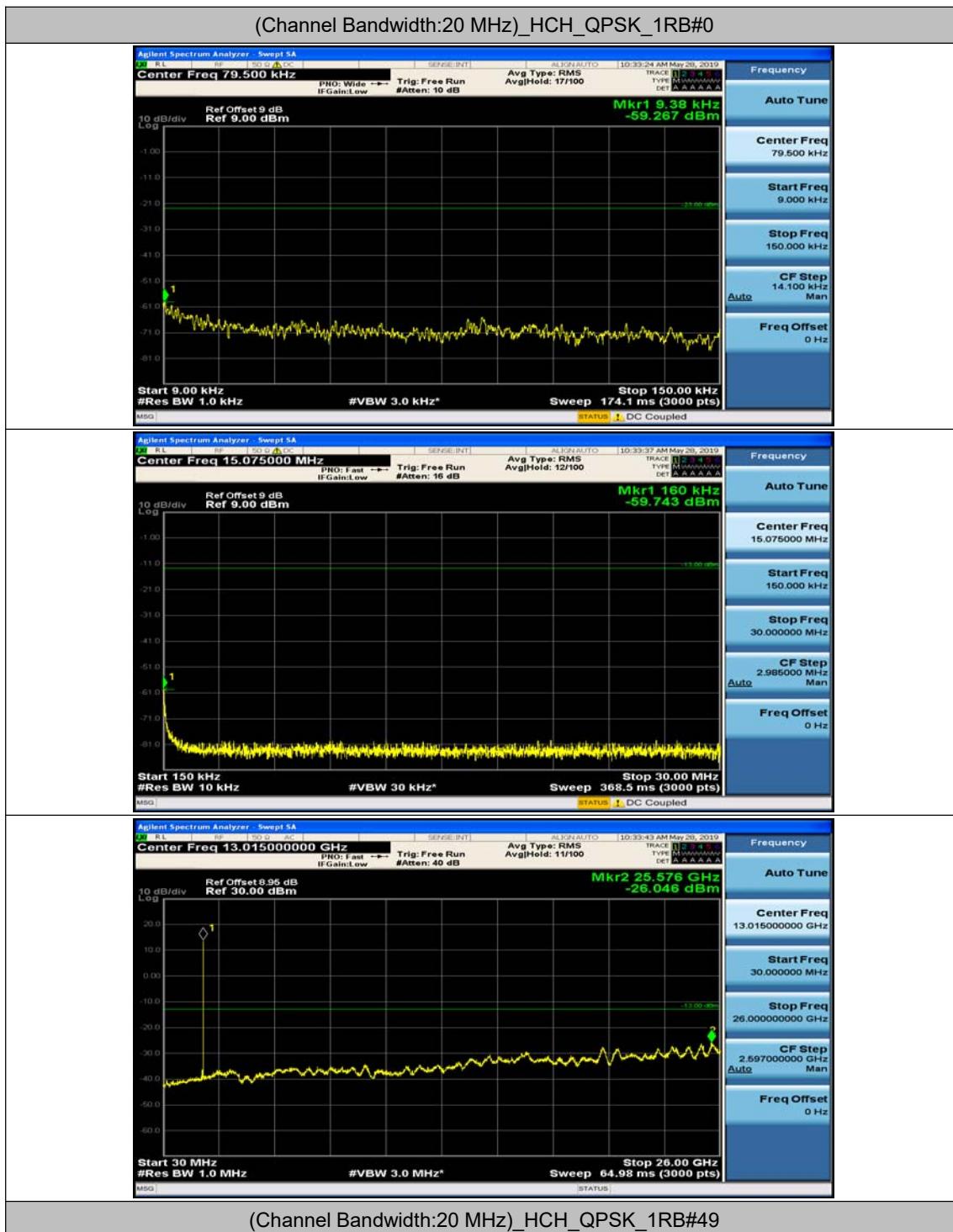


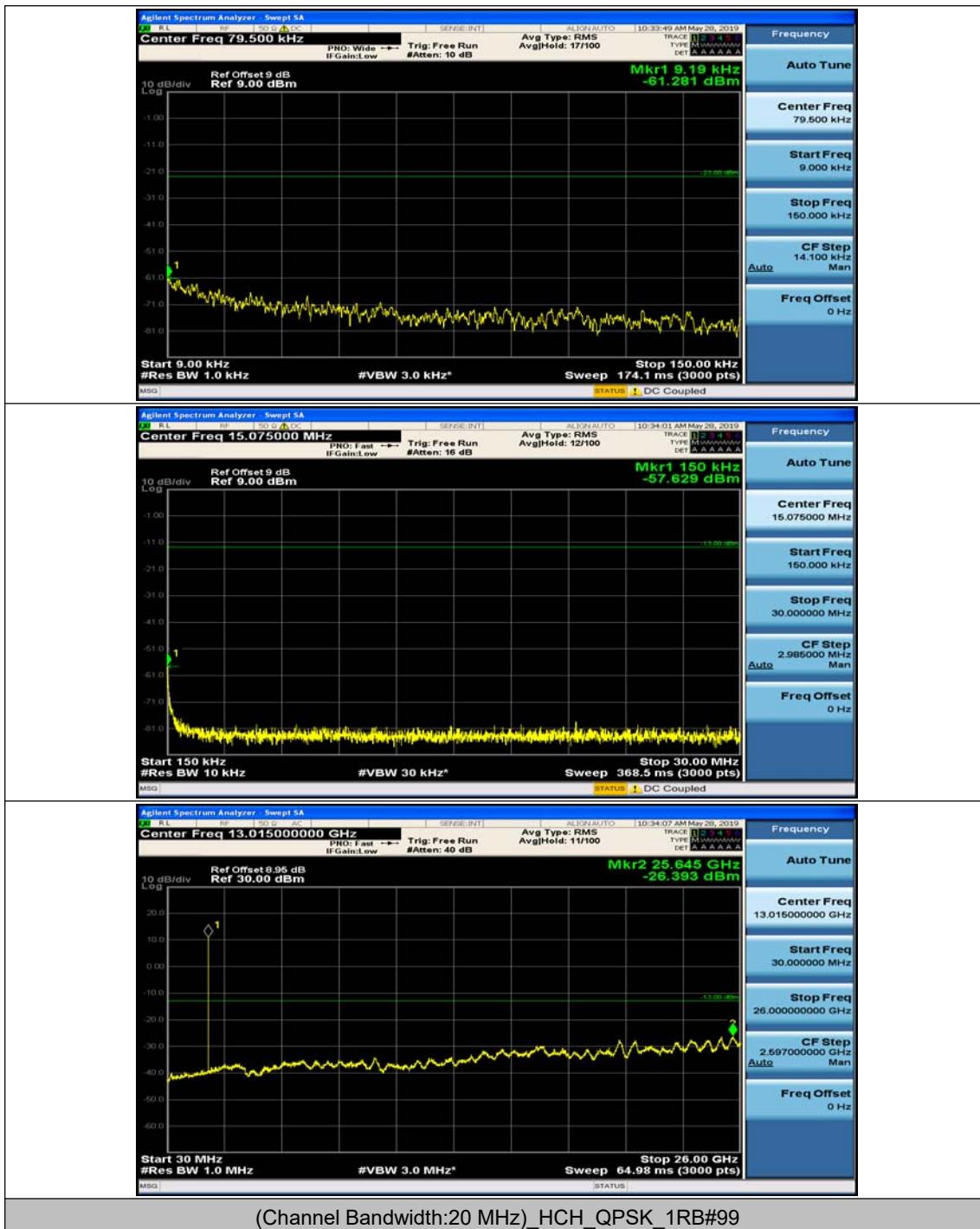


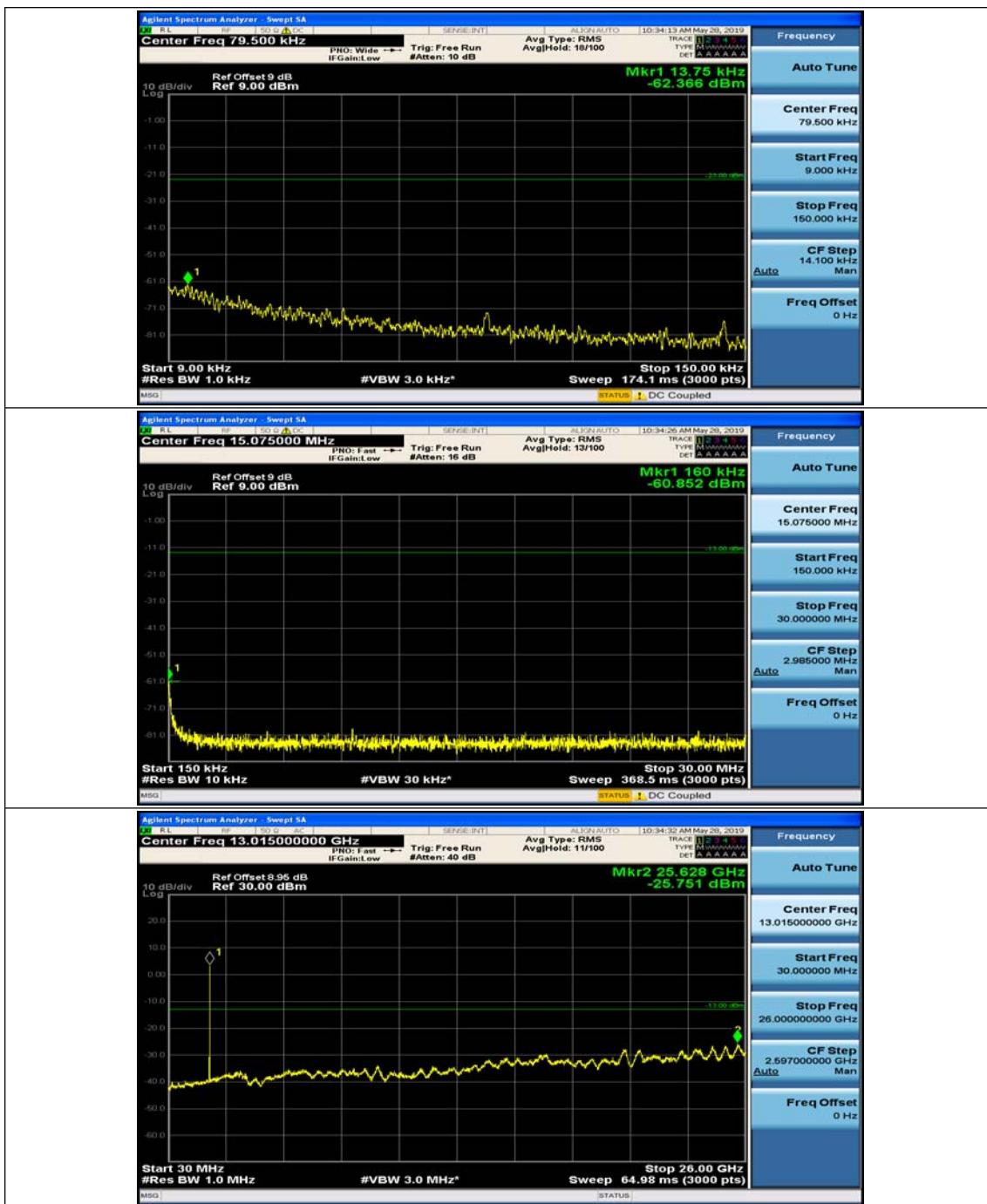


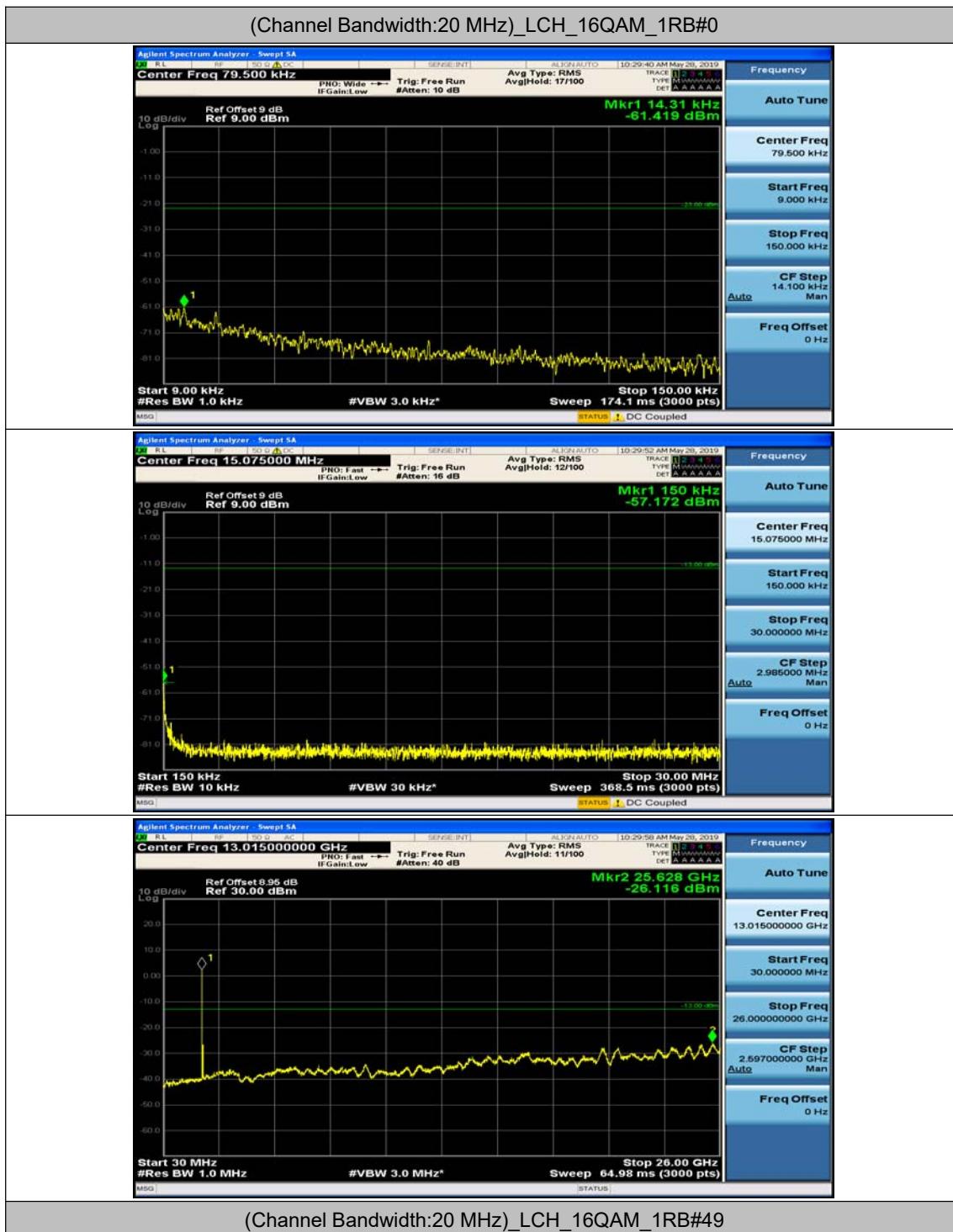


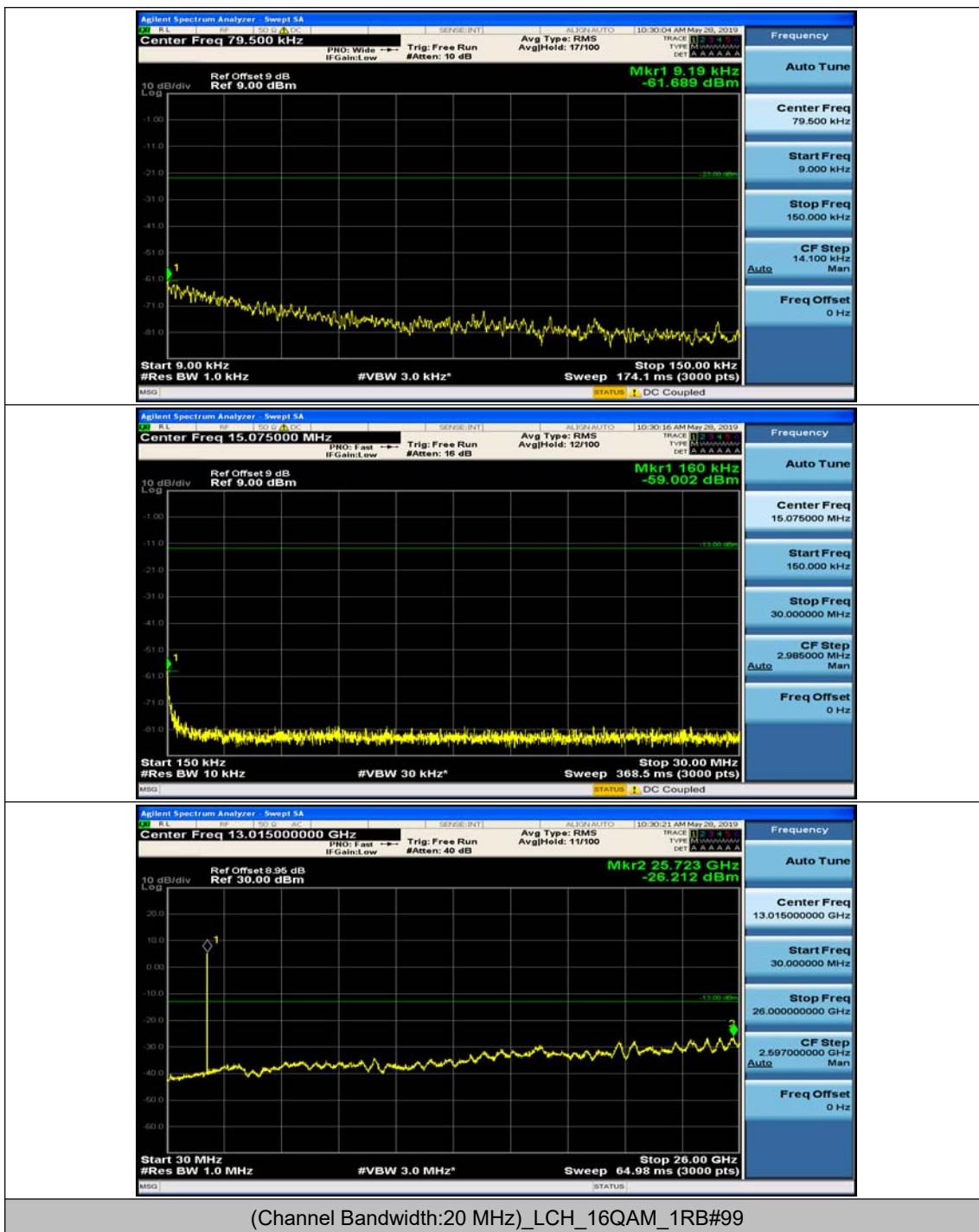


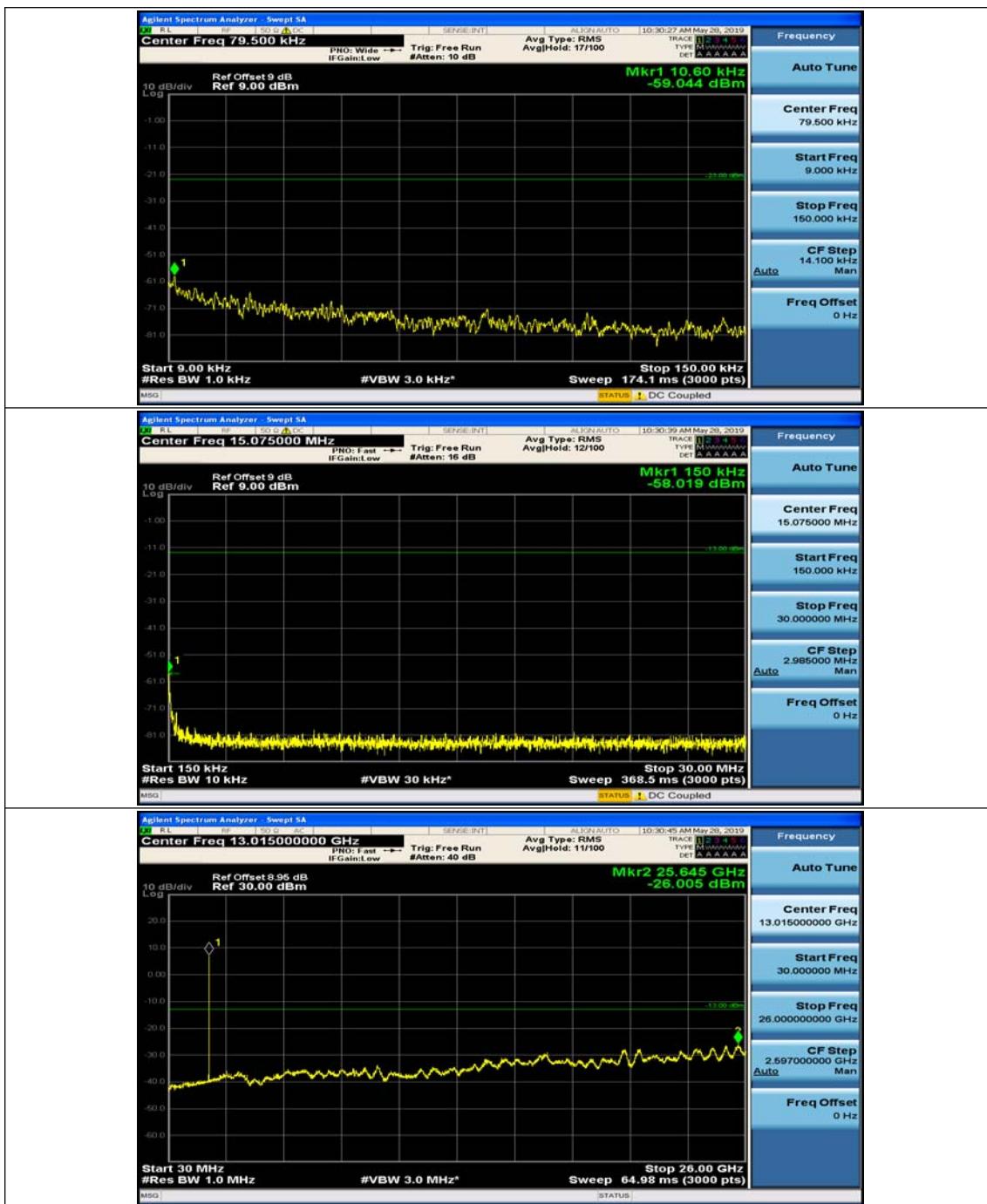


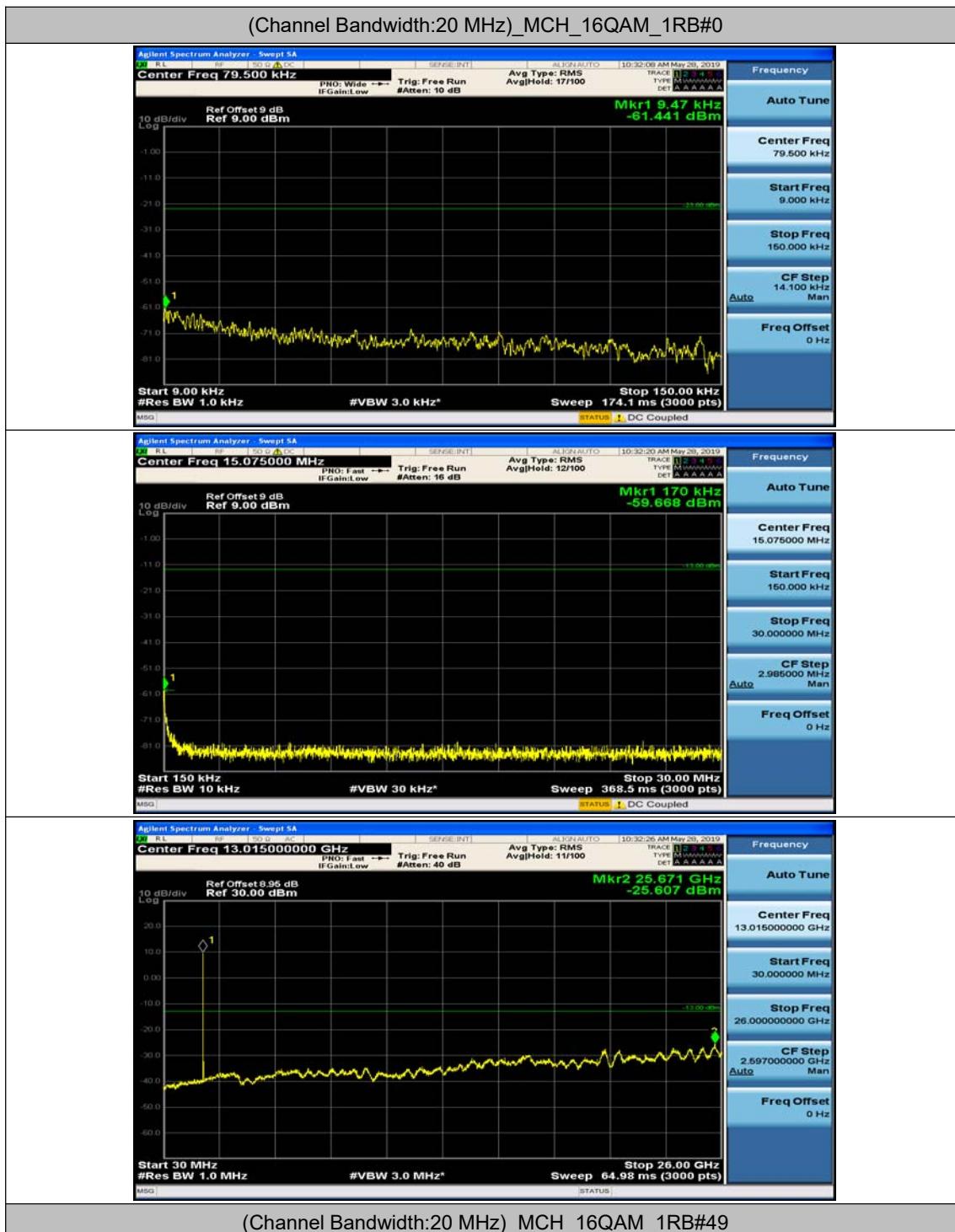


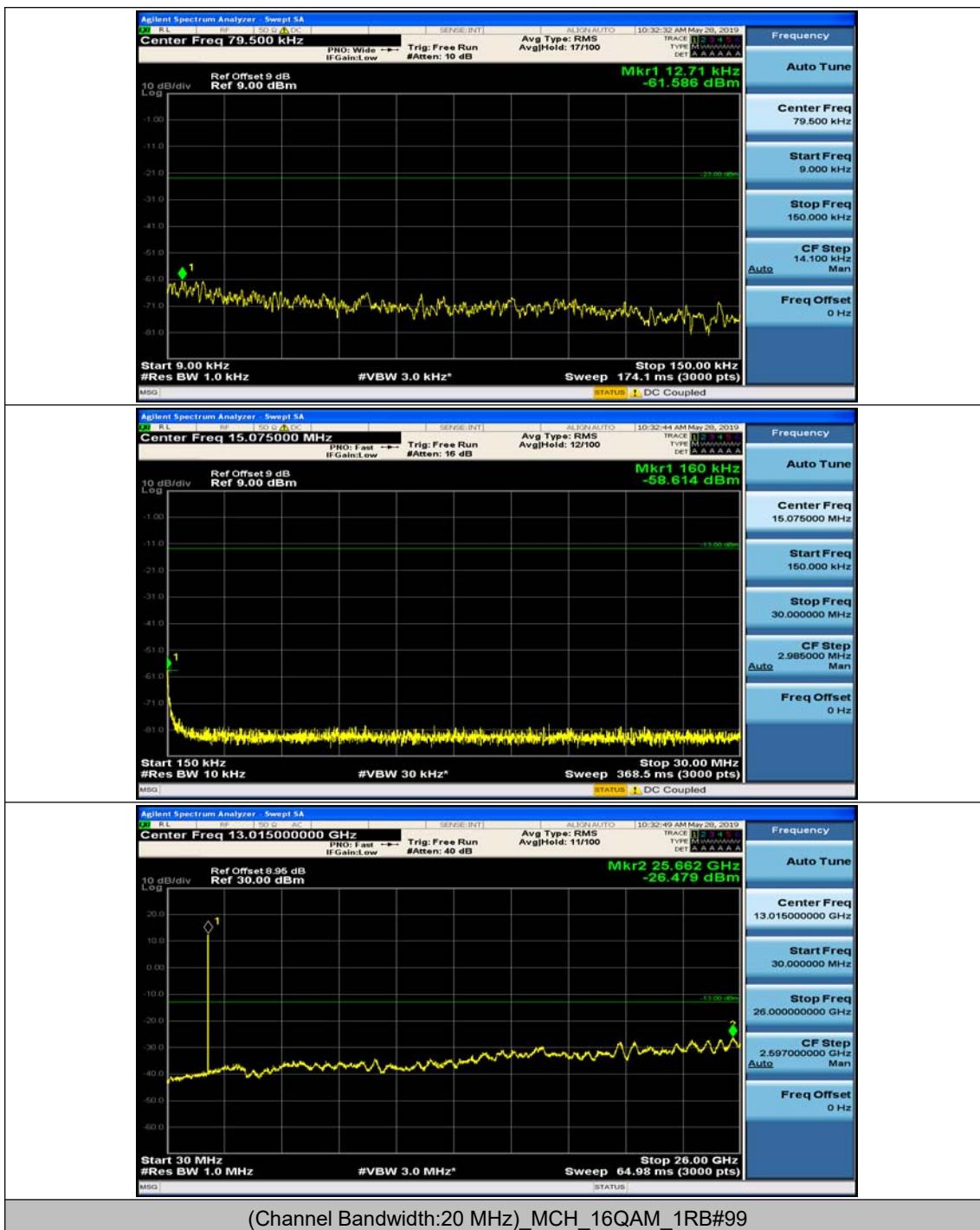


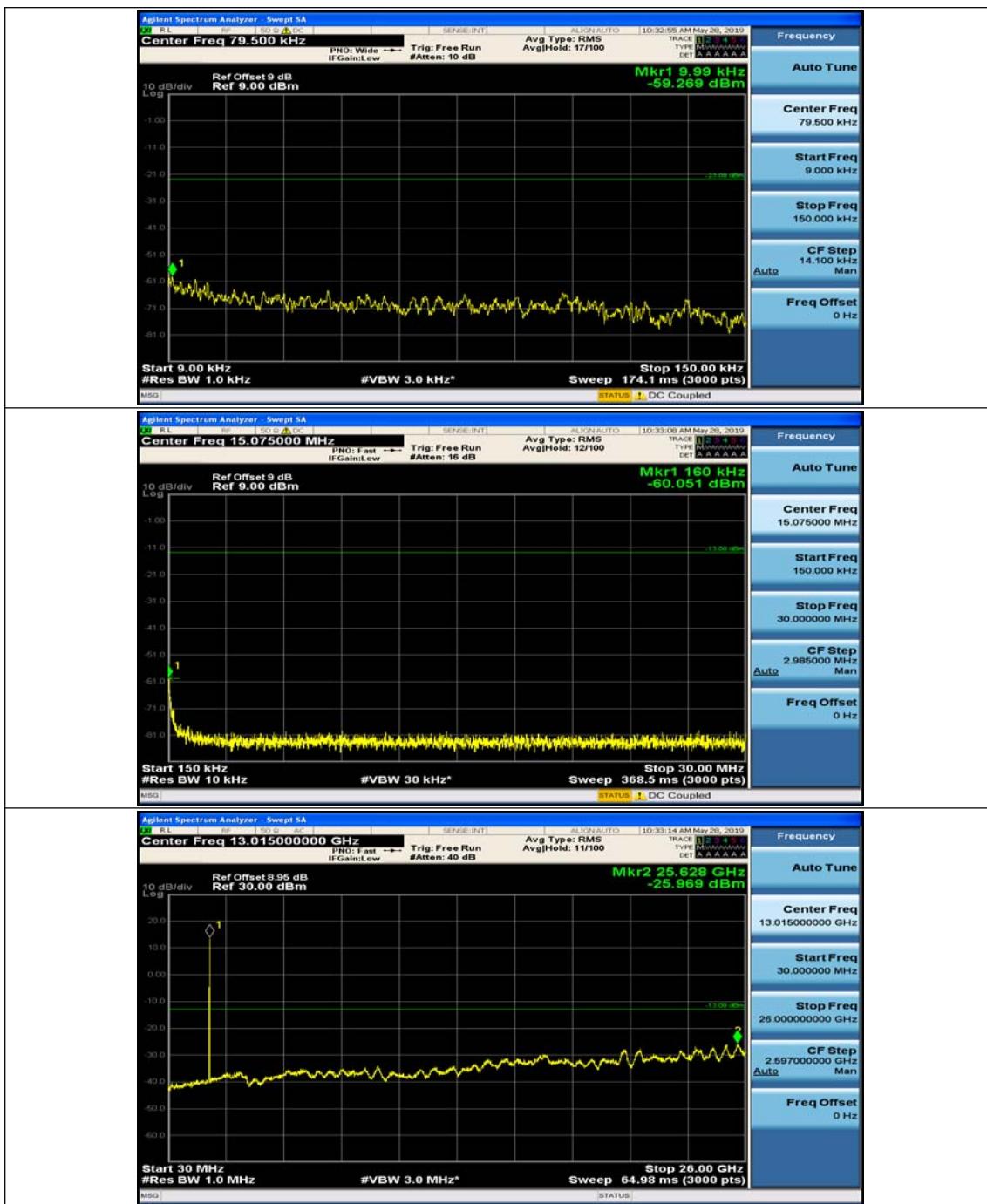


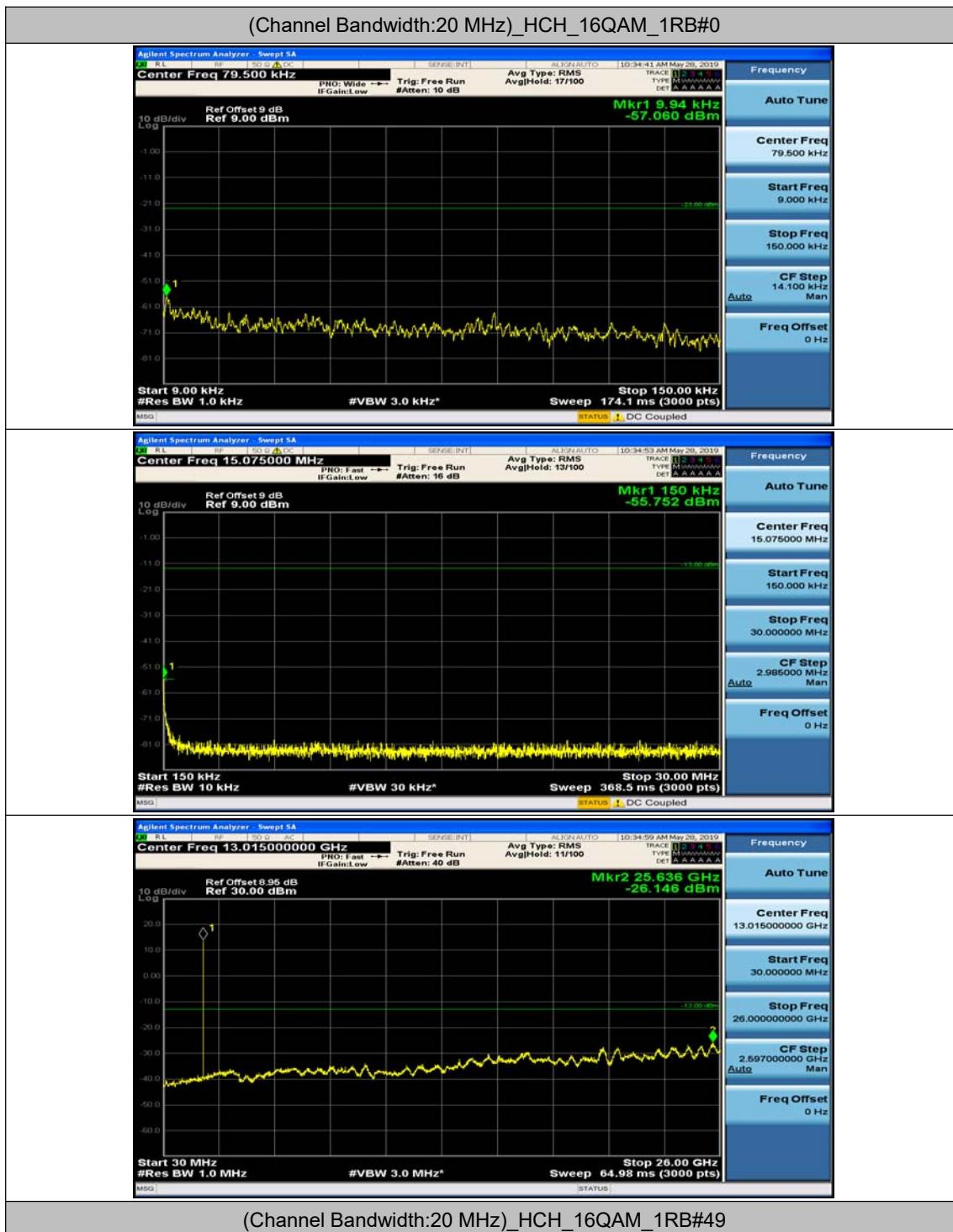


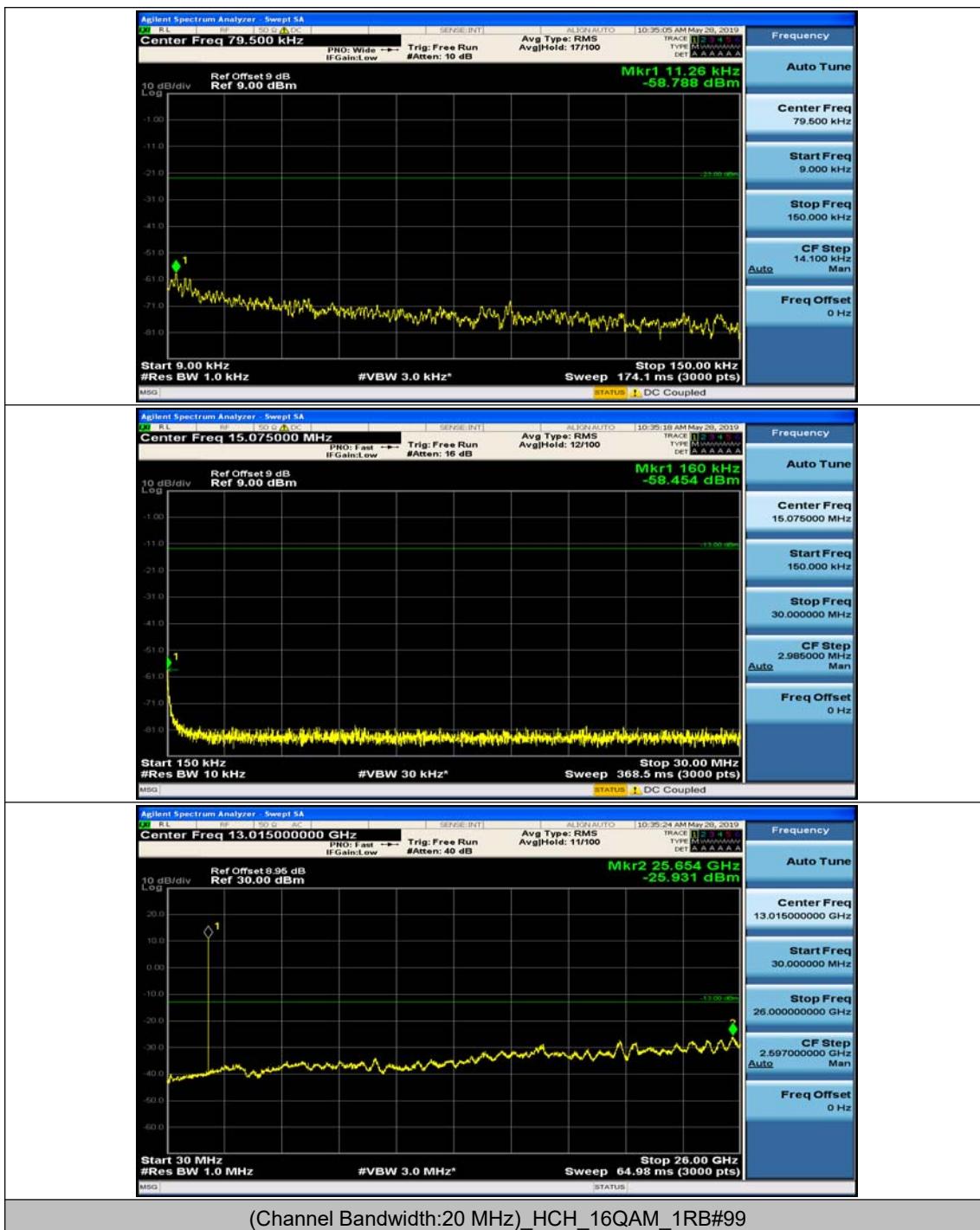


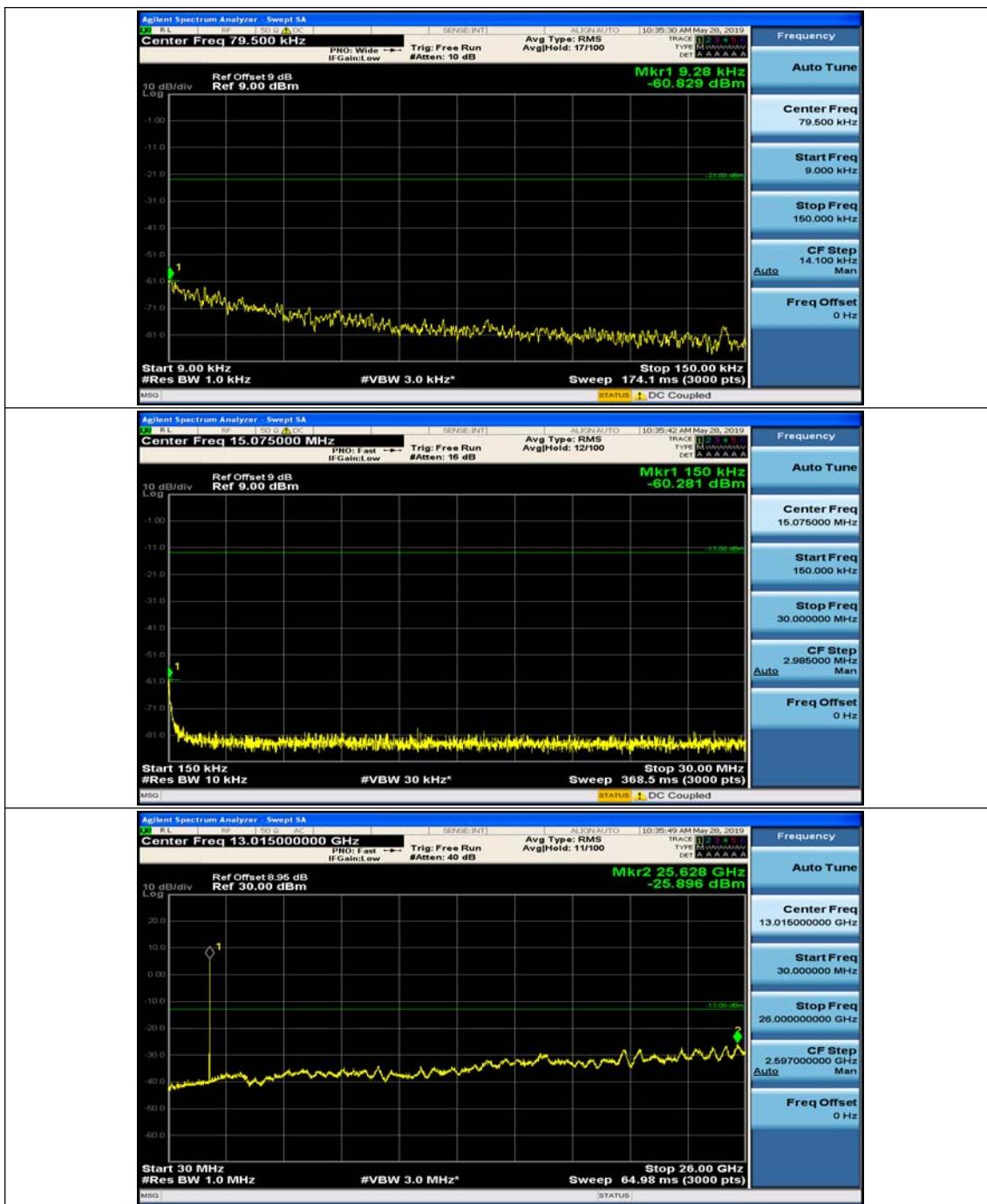












Appendix F: Frequency Stability

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 | 4.8 | 0.002594 | ± 2.5 | PASS |
| | | VN | TN | 0.37 | 0.000200 | ± 2.5 | PASS |
| | | VH | TN | 1.81 | 0.000978 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.49 | 0.000261 | ± 2.5 | PASS |
| | | VN | TN | 1.35 | 0.000718 | ± 2.5 | PASS |
| | | VH | TN | 0.91 | 0.000484 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.05 | 0.001597 | ± 2.5 | PASS |
| | | VN | TN | -0.75 | -0.000393 | ± 2.5 | PASS |
| | | VH | TN | -0.83 | -0.000435 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 0.04 | 0.000022 | ± 2.5 | PASS |
| | | VN | TN | 2.24 | 0.001210 | ± 2.5 | PASS |
| | | VH | TN | 2.17 | 0.001173 | ± 2.5 | PASS |
| | MCH | VL | TN | -0.65 | -0.000346 | ± 2.5 | PASS |
| | | VN | TN | 0.04 | 0.000021 | ± 2.5 | PASS |
| | | VH | TN | 2.94 | 0.001564 | ± 2.5 | PASS |
| | HCH | VL | TN | 1.01 | 0.000529 | ± 2.5 | PASS |
| | | VN | TN | -0.48 | -0.000251 | ± 2.5 | PASS |
| | | VH | TN | -1.31 | -0.000686 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 2.65 | 0.001432 | ± 2.5 | PASS |
| | | VN | -20 | -0.12 | -0.000065 | ± 2.5 | PASS |
| | | VN | -10 | -0.34 | -0.000184 | ± 2.5 | PASS |
| | | VN | 0 | 0.35 | 0.000189 | ± 2.5 | PASS |
| | | VN | 10 | 4.54 | 0.002453 | ± 2.5 | PASS |
| | | VN | 20 | -0.81 | -0.000438 | ± 2.5 | PASS |
| | | VN | 30 | 1.67 | 0.000902 | ± 2.5 | PASS |
| | | VN | 40 | -0.52 | -0.000281 | ± 2.5 | PASS |
| | | VN | 50 | -0.98 | -0.000530 | ± 2.5 | PASS |
| | MCH | VN | -30 | -1.75 | -0.000931 | ± 2.5 | PASS |

| | | | | | | | |
|-------|-----|----|-----|-------|-----------|-----------|------|
| | | VN | -20 | -0.39 | -0.000207 | ± 2.5 | PASS |
| | | VN | -10 | 1.07 | 0.000569 | ± 2.5 | PASS |
| | | VN | 0 | 2.67 | 0.001420 | ± 2.5 | PASS |
| | | VN | 10 | 0.57 | 0.000303 | ± 2.5 | PASS |
| | | VN | 20 | 0.08 | 0.000043 | ± 2.5 | PASS |
| | | VN | 30 | 4.57 | 0.002431 | ± 2.5 | PASS |
| | | VN | 40 | 3.54 | 0.001883 | ± 2.5 | PASS |
| | | VN | 50 | 1.2 | 0.000638 | ± 2.5 | PASS |
| | HCH | VN | -30 | 1.61 | 0.000843 | ± 2.5 | PASS |
| | | VN | -20 | -0.92 | -0.000482 | ± 2.5 | PASS |
| | | VN | -10 | 3.82 | 0.002001 | ± 2.5 | PASS |
| | | VN | 0 | 0.96 | 0.000503 | ± 2.5 | PASS |
| | | VN | 10 | 3 | 0.001571 | ± 2.5 | PASS |
| | | VN | 20 | -0.28 | -0.000147 | ± 2.5 | PASS |
| | | VN | 30 | 0.76 | 0.000398 | ± 2.5 | PASS |
| | | VN | 40 | -1.04 | -0.000545 | ± 2.5 | PASS |
| | | VN | 50 | 3.92 | 0.002053 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 2.52 | 0.001362 | ± 2.5 | PASS |
| | | VN | -20 | 2.31 | 0.001248 | ± 2.5 | PASS |
| | | VN | -10 | 2.4 | 0.001297 | ± 2.5 | PASS |
| | | VN | 0 | -0.14 | -0.000076 | ± 2.5 | PASS |
| | | VN | 10 | -0.21 | -0.000113 | ± 2.5 | PASS |
| | | VN | 20 | 0.53 | 0.000286 | ± 2.5 | PASS |
| | | VN | 30 | 0.17 | 0.000092 | ± 2.5 | PASS |
| | | VN | 40 | 0.38 | 0.000205 | ± 2.5 | PASS |
| | | VN | 50 | 0.47 | 0.000254 | ± 2.5 | PASS |
| | MCH | VN | -30 | -1.93 | -0.001027 | ± 2.5 | PASS |
| | | VN | -20 | 3 | 0.001596 | ± 2.5 | PASS |
| | | VN | -10 | 3.58 | 0.001904 | ± 2.5 | PASS |
| | | VN | 0 | 2.89 | 0.001537 | ± 2.5 | PASS |
| | | VN | 10 | 0.69 | 0.000367 | ± 2.5 | PASS |
| | | VN | 20 | 0.6 | 0.000319 | ± 2.5 | PASS |
| | | VN | 30 | 2.73 | 0.001452 | ± 2.5 | PASS |
| | | VN | 40 | 4.89 | 0.002601 | ± 2.5 | PASS |
| | HCH | VN | 50 | 2.18 | 0.001160 | ± 2.5 | PASS |

| | | | | | | | |
|--|--|----|----|------|----------|-----------|------|
| | | VN | 30 | 0.71 | 0.000372 | ± 2.5 | PASS |
| | | VN | 40 | 0.28 | 0.000147 | ± 2.5 | PASS |
| | | VN | 50 | 4.59 | 0.002404 | ± 2.5 | PASS |

Channel Bandwidth: 3 MHz

| Channel Bandwidth: 3 MHz+ | | | | | | | |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 1.41 | 0.000762 | ± 2.5 | PASS |
| | | VN | TN | -0.31 | -0.000167 | ± 2.5 | PASS |
| | | VH | TN | 0.51 | 0.000275 | ± 2.5 | PASS |
| | MCH | VL | TN | 4.3 | 0.002287 | ± 2.5 | PASS |
| | | VN | TN | -0.2 | -0.000106 | ± 2.5 | PASS |
| | | VH | TN | 3.59 | 0.001910 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.3 | 0.001729 | ± 2.5 | PASS |
| | | VN | TN | 3.76 | 0.001970 | ± 2.5 | PASS |
| | | VH | TN | 0.6 | 0.000314 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 0.53 | 0.000286 | ± 2.5 | PASS |
| | | VN | TN | 4.44 | 0.002398 | ± 2.5 | PASS |
| | | VH | TN | 3.16 | 0.001707 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.6 | 0.001915 | ± 2.5 | PASS |
| | | VN | TN | -0.19 | -0.000101 | ± 2.5 | PASS |
| | | VH | TN | 1.47 | 0.000782 | ± 2.5 | PASS |
| | HCH | VL | TN | 0.6 | 0.000314 | ± 2.5 | PASS |
| | | VN | TN | 1.54 | 0.000807 | ± 2.5 | PASS |
| | | VH | TN | -0.69 | -0.000362 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -0.85 | -0.000459 | ± 2.5 | PASS |
| | | VN | -20 | -1.13 | -0.000610 | ± 2.5 | PASS |
| | | VN | -10 | 0.01 | 0.000005 | ± 2.5 | PASS |
| | | VN | 0 | 3.37 | 0.001820 | ± 2.5 | PASS |
| | | VN | 10 | 0.75 | 0.000405 | ± 2.5 | PASS |
| | | VN | 20 | 0.25 | 0.000135 | ± 2.5 | PASS |
| | | VN | 30 | 2.83 | 0.001528 | ± 2.5 | PASS |
| | | VN | 40 | 0.94 | 0.000508 | ± 2.5 | PASS |
| | | VN | 50 | -0.92 | -0.000497 | ± 2.5 | PASS |
| | MCH | VN | -30 | -1.31 | -0.000697 | ± 2.5 | PASS |
| | | VN | -20 | -0.91 | -0.000484 | ± 2.5 | PASS |

| | | | | | | | |
|------|-----|----|-----|-------|-----------|-----------|------|
| | HCH | VN | -10 | -1.39 | -0.000739 | \pm 2.5 | PASS |
| | | VN | 0 | 0.78 | 0.000415 | \pm 2.5 | PASS |
| | | VN | 10 | 2.73 | 0.001452 | \pm 2.5 | PASS |
| | | VN | 20 | 3.6 | 0.001915 | \pm 2.5 | PASS |
| | | VN | 30 | 4.43 | 0.002356 | \pm 2.5 | PASS |
| | | VN | 40 | 4.92 | 0.002617 | \pm 2.5 | PASS |
| | | VN | 50 | -1.07 | -0.000569 | \pm 2.5 | PASS |
| | | VN | -30 | -0.91 | -0.000477 | \pm 2.5 | PASS |
| | | VN | -20 | 1.18 | 0.000618 | \pm 2.5 | PASS |
| | | VN | -10 | 1.5 | 0.000786 | \pm 2.5 | PASS |
| QPSK | LCH | VN | 0 | 1.53 | 0.000802 | \pm 2.5 | PASS |
| | | VN | 10 | 0.33 | 0.000173 | \pm 2.5 | PASS |
| | | VN | 20 | 4.53 | 0.002374 | \pm 2.5 | PASS |
| | | VN | 30 | -0.75 | -0.000393 | \pm 2.5 | PASS |
| | | VN | 40 | -1.42 | -0.000744 | \pm 2.5 | PASS |
| | | VN | 50 | 0.02 | 0.000010 | \pm 2.5 | PASS |
| | | VN | -30 | 2.64 | 0.001426 | \pm 2.5 | PASS |
| | | VN | -20 | 4.83 | 0.002609 | \pm 2.5 | PASS |
| | | VN | -10 | -1.86 | -0.001005 | \pm 2.5 | PASS |
| | | VN | 0 | 4.26 | 0.002301 | \pm 2.5 | PASS |
| QPSK | MCH | VN | 10 | 3.05 | 0.001647 | \pm 2.5 | PASS |
| | | VN | 20 | 2.58 | 0.001393 | \pm 2.5 | PASS |
| | | VN | 30 | -1.96 | -0.001059 | \pm 2.5 | PASS |
| | | VN | 40 | 2.74 | 0.001480 | \pm 2.5 | PASS |
| | | VN | 50 | -1.1 | -0.000594 | \pm 2.5 | PASS |
| | | VN | -30 | 4.13 | 0.002197 | \pm 2.5 | PASS |
| | | VN | -20 | 3.15 | 0.001676 | \pm 2.5 | PASS |
| | | VN | -10 | 4.27 | 0.002271 | \pm 2.5 | PASS |
| | | VN | 0 | 2.74 | 0.001457 | \pm 2.5 | PASS |
| | | VN | 10 | -1.29 | -0.000686 | \pm 2.5 | PASS |
| QPSK | HCH | VN | 20 | 0.46 | 0.000245 | \pm 2.5 | PASS |
| | | VN | 30 | 2.31 | 0.001229 | \pm 2.5 | PASS |
| | | VN | 40 | 3.12 | 0.001660 | \pm 2.5 | PASS |
| | | VN | 50 | 0.16 | 0.000085 | \pm 2.5 | PASS |
| | | VN | -30 | 1.94 | 0.001017 | \pm 2.5 | PASS |
| | | VN | -20 | 1.61 | 0.000844 | \pm 2.5 | PASS |
| | | VN | -10 | 2.64 | 0.001383 | \pm 2.5 | PASS |
| | | VN | 0 | 3.76 | 0.001970 | \pm 2.5 | PASS |
| | | VN | 10 | 0.66 | 0.000346 | \pm 2.5 | PASS |
| | | VN | 20 | -0.08 | -0.000042 | \pm 2.5 | PASS |
| | | VN | 30 | 3.35 | 0.001755 | \pm 2.5 | PASS |

| | | | | | | | |
|--|--|----|----|-------|-----------|-----------|------|
| | | VN | 40 | 2.83 | 0.001483 | ± 2.5 | PASS |
| | | VN | 50 | -1.86 | -0.000975 | ± 2.5 | PASS |

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 | -0.7 | -0.000378 | ± 2.5 | PASS |
| | | VN | TN | 3.9 | 0.002105 | ± 2.5 | PASS |
| | | VH | TN | 3.97 | 0.002143 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.91 | 0.001548 | ± 2.5 | PASS |
| | | VN | TN | 3.16 | 0.001681 | ± 2.5 | PASS |
| | | VH | TN | -0.61 | -0.000324 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.87 | 0.001505 | ± 2.5 | PASS |
| | | VN | TN | 0.38 | 0.000199 | ± 2.5 | PASS |
| | | VH | TN | -1.74 | -0.000912 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 3.15 | 0.001700 | ± 2.5 | PASS |
| | | VN | TN | 4.42 | 0.002386 | ± 2.5 | PASS |
| | | VH | TN | 3.68 | 0.001987 | ± 2.5 | PASS |
| | MCH | VL | TN | 4.85 | 0.002580 | ± 2.5 | PASS |
| | | VN | TN | 4.69 | 0.002495 | ± 2.5 | PASS |
| | | VH | TN | 4.05 | 0.002154 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.82 | -0.000430 | ± 2.5 | PASS |
| | | VN | TN | 1.3 | 0.000682 | ± 2.5 | PASS |
| | | VH | TN | -1.17 | -0.000613 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -0.21 | -0.000113 | ± 2.5 | PASS |
| | | VN | -20 | 1.51 | 0.000815 | ± 2.5 | PASS |
| | | VN | -10 | 1.81 | 0.000977 | ± 2.5 | PASS |
| | | VN | 0 | -0.95 | -0.000513 | ± 2.5 | PASS |
| | | VN | 10 | 1.55 | 0.000837 | ± 2.5 | PASS |
| | | VN | 20 | 3.96 | 0.002138 | ± 2.5 | PASS |
| | | VN | 30 | -0.62 | -0.000335 | ± 2.5 | PASS |
| | | VN | 40 | 1.59 | 0.000858 | ± 2.5 | PASS |
| | | VN | 50 | 3.9 | 0.002105 | ± 2.5 | PASS |
| | MCH | VN | -30 | 2.68 | 0.001426 | ± 2.5 | PASS |
| | | VN | -20 | 4 | 0.002128 | ± 2.5 | PASS |
| | | VN | -10 | 0.82 | 0.000436 | ± 2.5 | PASS |

| | | | | | | | |
|-------|-----|----|-----|-------|-----------|-----------|------|
| | HCH | VN | 0 | -1.68 | -0.000894 | ± 2.5 | PASS |
| | | VN | 10 | 4.78 | 0.002543 | ± 2.5 | PASS |
| | | VN | 20 | 3.55 | 0.001888 | ± 2.5 | PASS |
| | | VN | 30 | 4.66 | 0.002479 | ± 2.5 | PASS |
| | | VN | 40 | 2.33 | 0.001239 | ± 2.5 | PASS |
| | | VN | 50 | 2.81 | 0.001495 | ± 2.5 | PASS |
| | | VN | -30 | -1.36 | -0.000713 | ± 2.5 | PASS |
| | | VN | -20 | -0.08 | -0.000042 | ± 2.5 | PASS |
| | | VN | -10 | 2.48 | 0.001300 | ± 2.5 | PASS |
| | | VN | 0 | 1.24 | 0.000650 | ± 2.5 | PASS |
| | | VN | 10 | 3.08 | 0.001615 | ± 2.5 | PASS |
| | | VN | 20 | 0.76 | 0.000398 | ± 2.5 | PASS |
| | | VN | 30 | -1.72 | -0.000902 | ± 2.5 | PASS |
| | | VN | 40 | -1 | -0.000524 | ± 2.5 | PASS |
| | | VN | 50 | 0.41 | 0.000215 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -0.82 | -0.000443 | ± 2.5 | PASS |
| | | VN | -20 | 2.96 | 0.001598 | ± 2.5 | PASS |
| | | VN | -10 | 1.23 | 0.000664 | ± 2.5 | PASS |
| | | VN | 0 | 1.87 | 0.001009 | ± 2.5 | PASS |
| | | VN | 10 | 1.19 | 0.000642 | ± 2.5 | PASS |
| | | VN | 20 | 1.58 | 0.000853 | ± 2.5 | PASS |
| | | VN | 30 | 0.94 | 0.000507 | ± 2.5 | PASS |
| | | VN | 40 | 2.16 | 0.001166 | ± 2.5 | PASS |
| | | VN | 50 | 2.25 | 0.001215 | ± 2.5 | PASS |
| | MCH | VN | -30 | -0.13 | -0.000069 | ± 2.5 | PASS |
| | | VN | -20 | -1.86 | -0.000989 | ± 2.5 | PASS |
| | | VN | -10 | 3.14 | 0.001670 | ± 2.5 | PASS |
| | | VN | 0 | 4.87 | 0.002590 | ± 2.5 | PASS |
| | | VN | 10 | 1.47 | 0.000782 | ± 2.5 | PASS |
| | | VN | 20 | 0.39 | 0.000207 | ± 2.5 | PASS |
| | | VN | 30 | 0.13 | 0.000069 | ± 2.5 | PASS |
| | | VN | 40 | 1.5 | 0.000798 | ± 2.5 | PASS |
| | | VN | 50 | 2.37 | 0.001261 | ± 2.5 | PASS |
| | HCH | VN | -30 | 2.3 | 0.001206 | ± 2.5 | PASS |
| | | VN | -20 | -1.24 | -0.000650 | ± 2.5 | PASS |
| | | VN | -10 | -0.49 | -0.000257 | ± 2.5 | PASS |
| | | VN | 0 | -1.75 | -0.000917 | ± 2.5 | PASS |
| | | VN | 10 | 0.65 | 0.000341 | ± 2.5 | PASS |
| | | VN | 20 | 1.76 | 0.000923 | ± 2.5 | PASS |
| | | VN | 30 | -1.17 | -0.000613 | ± 2.5 | PASS |
| | | VN | 40 | 0.58 | 0.000304 | ± 2.5 | PASS |

| | | | | | | | |
|--|--|----|----|------|----------|-----------|------|
| | | VN | 50 | 4.69 | 0.002459 | ± 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 | -1.28 | -0.000690 | ± 2.5 | PASS |
| | | VN | TN | 3.47 | 0.001871 | ± 2.5 | PASS |
| | | VH | TN | 0.07 | 0.000038 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.16 | 0.001681 | ± 2.5 | PASS |
| | | VN | TN | -1.76 | -0.000936 | ± 2.5 | PASS |
| | | VH | TN | -1.6 | -0.000851 | ± 2.5 | PASS |
| | HCH | VL | TN | 1.71 | 0.000898 | ± 2.5 | PASS |
| | | VN | TN | 1.24 | 0.000651 | ± 2.5 | PASS |
| | | VH | TN | -0.44 | -0.000231 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 3.3 | 0.001779 | ± 2.5 | PASS |
| | | VN | TN | -1.27 | -0.000685 | ± 2.5 | PASS |
| | | VH | TN | 4.31 | 0.002323 | ± 2.5 | PASS |
| | MCH | VL | TN | 4.3 | 0.002287 | ± 2.5 | PASS |
| | | VN | TN | -1.57 | -0.000835 | ± 2.5 | PASS |
| | | VH | TN | 0.66 | 0.000351 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.5 | 0.001312 | ± 2.5 | PASS |
| | | VN | TN | 2.13 | 0.001118 | ± 2.5 | PASS |
| | | VH | TN | 0.2 | 0.000105 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 16QAM | LCH | VN | -30 | 2.16 | 0.001164 | ± 2.5 | PASS |
| | | VN | -20 | -1.71 | -0.000922 | ± 2.5 | PASS |
| | | VN | -10 | -0.39 | -0.000210 | ± 2.5 | PASS |
| | | VN | 0 | 3.36 | 0.001811 | ± 2.5 | PASS |
| | | VN | 10 | -1.11 | -0.000598 | ± 2.5 | PASS |
| | | VN | 20 | 3.56 | 0.001919 | ± 2.5 | PASS |
| | | VN | 30 | 0.15 | 0.000081 | ± 2.5 | PASS |
| | | VN | 40 | -0.75 | -0.000404 | ± 2.5 | PASS |
| | | VN | 50 | -1.44 | -0.000776 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.27 | 0.000676 | ± 2.5 | PASS |
| | | VN | -20 | -1.11 | -0.000590 | ± 2.5 | PASS |
| | | VN | -10 | 2.25 | 0.001197 | ± 2.5 | PASS |
| | | VN | 0 | 4.19 | 0.002229 | ± 2.5 | PASS |

| | | | | | | | |
|--|-----|----|-----|-------|-----------|-----------|------|
| | | VN | 10 | 1.62 | 0.000862 | ± 2.5 | PASS |
| | | VN | 20 | 3.53 | 0.001878 | ± 2.5 | PASS |
| | | VN | 30 | -0.58 | -0.000309 | ± 2.5 | PASS |
| | | VN | 40 | -1.34 | -0.000713 | ± 2.5 | PASS |
| | | VN | 50 | -0.82 | -0.000436 | ± 2.5 | PASS |
| | | VN | -30 | 3.84 | 0.002016 | ± 2.5 | PASS |
| | | VN | -20 | 1.36 | 0.000714 | ± 2.5 | PASS |
| | | VN | -10 | 4.06 | 0.002131 | ± 2.5 | PASS |
| | | VN | 0 | 4.14 | 0.002173 | ± 2.5 | PASS |
| | | VN | 10 | 0.99 | 0.000520 | ± 2.5 | PASS |
| | HCH | VN | 20 | 0.11 | 0.000058 | ± 2.5 | PASS |
| | | VN | 30 | -1.78 | -0.000934 | ± 2.5 | PASS |
| | | VN | 40 | -0.28 | -0.000147 | ± 2.5 | PASS |
| | | VN | 50 | 2.22 | 0.001165 | ± 2.5 | PASS |
| | | VN | -30 | 1.41 | 0.000760 | ± 2.5 | PASS |
| | | VN | -20 | 0.49 | 0.000264 | ± 2.5 | PASS |
| | | VN | -10 | 2.91 | 0.001569 | ± 2.5 | PASS |
| | | VN | 0 | 4.46 | 0.002404 | ± 2.5 | PASS |
| | | VN | 10 | -0.06 | -0.000032 | ± 2.5 | PASS |
| | | VN | 20 | -1.64 | -0.000884 | ± 2.5 | PASS |
| | LCH | VN | 30 | 2.49 | 0.001342 | ± 2.5 | PASS |
| | | VN | 40 | 3.08 | 0.001660 | ± 2.5 | PASS |
| | | VN | 50 | -1.64 | -0.000884 | ± 2.5 | PASS |
| | | VN | -30 | 2.17 | 0.001154 | ± 2.5 | PASS |
| | | VN | -20 | 0.93 | 0.000495 | ± 2.5 | PASS |
| | | VN | -10 | 0.37 | 0.000197 | ± 2.5 | PASS |
| | | VN | 0 | 3.4 | 0.001809 | ± 2.5 | PASS |
| | | VN | 10 | 0.54 | 0.000287 | ± 2.5 | PASS |
| | | VN | 20 | -0.93 | -0.000495 | ± 2.5 | PASS |
| | | VN | 30 | 0.46 | 0.000245 | ± 2.5 | PASS |
| | MCH | VN | 40 | 1.04 | 0.000553 | ± 2.5 | PASS |
| | | VN | 50 | 2.69 | 0.001431 | ± 2.5 | PASS |
| | | VN | -30 | 0.32 | 0.000168 | ± 2.5 | PASS |
| | | VN | -20 | 2.03 | 0.001066 | ± 2.5 | PASS |
| | | VN | -10 | 2.96 | 0.001554 | ± 2.5 | PASS |
| | | VN | 0 | 2.39 | 0.001255 | ± 2.5 | PASS |
| | | VN | 10 | 3.47 | 0.001822 | ± 2.5 | PASS |
| | | VN | 20 | 3.72 | 0.001953 | ± 2.5 | PASS |
| | | VN | 30 | 2.94 | 0.001543 | ± 2.5 | PASS |
| | | VN | 40 | -0.95 | -0.000499 | ± 2.5 | PASS |
| | HCH | VN | 50 | -1.82 | -0.000955 | ± 2.5 | PASS |

Channel Bandwidth: 15 MHz

| Channel Bandwidth: 15 MHz | | | | | | | |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 4.09 | 0.002202 | ± 2.5 | PASS |
| | | VN | TN | 2.56 | 0.001378 | ± 2.5 | PASS |
| | | VH | TN | 2.56 | 0.001378 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.83 | 0.001505 | ± 2.5 | PASS |
| | | VN | TN | 3.31 | 0.001761 | ± 2.5 | PASS |
| | | VH | TN | 0.37 | 0.000197 | ± 2.5 | PASS |
| | HCH | VL | TN | 4.02 | 0.002113 | ± 2.5 | PASS |
| | | VN | TN | 2.93 | 0.001540 | ± 2.5 | PASS |
| | | VH | TN | 0.86 | 0.000452 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 1.09 | 0.000587 | ± 2.5 | PASS |
| | | VN | TN | 4.96 | 0.002670 | ± 2.5 | PASS |
| | | VH | TN | -0.87 | -0.000468 | ± 2.5 | PASS |
| | MCH | VL | TN | 1.26 | 0.000670 | ± 2.5 | PASS |
| | | VN | TN | 3.76 | 0.002000 | ± 2.5 | PASS |
| | | VH | TN | 0.37 | 0.000197 | ± 2.5 | PASS |
| | HCH | VL | TN | 0.79 | 0.000415 | ± 2.5 | PASS |
| | | VN | TN | 4.8 | 0.002523 | ± 2.5 | PASS |
| | | VH | TN | -1.23 | -0.000647 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -1.47 | -0.000791 | ± 2.5 | PASS |
| | | VN | -20 | 1.54 | 0.000829 | ± 2.5 | PASS |
| | | VN | -10 | 3.62 | 0.001949 | ± 2.5 | PASS |
| | | VN | 0 | 2.95 | 0.001588 | ± 2.5 | PASS |
| | | VN | 10 | 4.01 | 0.002159 | ± 2.5 | PASS |
| | | VN | 20 | 0.52 | 0.000280 | ± 2.5 | PASS |
| | | VN | 30 | -0.12 | -0.000065 | ± 2.5 | PASS |
| | | VN | 40 | 0.19 | 0.000102 | ± 2.5 | PASS |
| | | VN | 50 | 2.14 | 0.001152 | ± 2.5 | PASS |
| | MCH | VN | -30 | 4.56 | 0.002426 | ± 2.5 | PASS |
| | | VN | -20 | 3.11 | 0.001654 | ± 2.5 | PASS |
| | | VN | -10 | 2.92 | 0.001553 | ± 2.5 | PASS |
| | | VN | 0 | 0.33 | 0.000176 | ± 2.5 | PASS |
| | | VN | 10 | -0.58 | -0.000309 | ± 2.5 | PASS |

| | | | | | | | |
|--|-----|----|-----|-------|-----------|-----------|------|
| | HCH | VN | 20 | 0.55 | 0.000293 | ± 2.5 | PASS |
| | | VN | 30 | 1.62 | 0.000862 | ± 2.5 | PASS |
| | | VN | 40 | 4.03 | 0.002144 | ± 2.5 | PASS |
| | | VN | 50 | 0.62 | 0.000330 | ± 2.5 | PASS |
| | | VN | -30 | 4.75 | 0.002497 | ± 2.5 | PASS |
| | | VN | -20 | 2.72 | 0.001430 | ± 2.5 | PASS |
| | | VN | -10 | 1.32 | 0.000694 | ± 2.5 | PASS |
| | | VN | 0 | 0.86 | 0.000452 | ± 2.5 | PASS |
| | | VN | 10 | 1.34 | 0.000704 | ± 2.5 | PASS |
| | | VN | 20 | -0.56 | -0.000294 | ± 2.5 | PASS |
| | LCH | VN | 30 | 0.25 | 0.000131 | ± 2.5 | PASS |
| | | VN | 40 | -0.65 | -0.000342 | ± 2.5 | PASS |
| | | VN | 50 | 3.05 | 0.001603 | ± 2.5 | PASS |
| | | VN | -30 | 4.65 | 0.002503 | ± 2.5 | PASS |
| | | VN | -20 | 0.54 | 0.000291 | ± 2.5 | PASS |
| | | VN | -10 | 4.96 | 0.002670 | ± 2.5 | PASS |
| | | VN | 0 | 0.79 | 0.000425 | ± 2.5 | PASS |
| | | VN | 10 | -1.53 | -0.000824 | ± 2.5 | PASS |
| | | VN | 20 | 1.78 | 0.000958 | ± 2.5 | PASS |
| | | VN | 30 | 1.61 | 0.000867 | ± 2.5 | PASS |
| | MCH | VN | 40 | 1.84 | 0.000991 | ± 2.5 | PASS |
| | | VN | 50 | -1.65 | -0.000888 | ± 2.5 | PASS |
| | | VN | -30 | 3.26 | 0.001734 | ± 2.5 | PASS |
| | | VN | -20 | 0.04 | 0.000021 | ± 2.5 | PASS |
| | | VN | -10 | 2.64 | 0.001404 | ± 2.5 | PASS |
| | | VN | 0 | 4.19 | 0.002229 | ± 2.5 | PASS |
| | | VN | 10 | -0.03 | -0.000016 | ± 2.5 | PASS |
| | | VN | 20 | 2.29 | 0.001218 | ± 2.5 | PASS |
| | | VN | 30 | -1.8 | -0.000957 | ± 2.5 | PASS |
| | | VN | 40 | -0.13 | -0.000069 | ± 2.5 | PASS |
| | HCH | VN | 50 | 4.84 | 0.002574 | ± 2.5 | PASS |
| | | VN | -30 | 4.07 | 0.002139 | ± 2.5 | PASS |
| | | VN | -20 | 4.12 | 0.002166 | ± 2.5 | PASS |
| | | VN | -10 | 1.23 | 0.000647 | ± 2.5 | PASS |
| | | VN | 0 | -0.56 | -0.000294 | ± 2.5 | PASS |
| | | VN | 10 | 1.03 | 0.000541 | ± 2.5 | PASS |
| | | VN | 20 | 3.87 | 0.002034 | ± 2.5 | PASS |
| | | VN | 30 | -1.74 | -0.000915 | ± 2.5 | PASS |
| | | VN | 40 | 3.76 | 0.001976 | ± 2.5 | PASS |
| | | VN | 50 | 1.35 | 0.000710 | ± 2.5 | PASS |

Channel Bandwidth: 20 MHz

| Channel Bandwidth: 20 MHz | | | | | | | |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 1.66 | 0.000892 | ± 2.5 | PASS |
| | | VN | TN | -0.39 | -0.000210 | ± 2.5 | PASS |
| | | VH | TN | 2.71 | 0.001457 | ± 2.5 | PASS |
| | MCH | VL | TN | -0.45 | -0.000239 | ± 2.5 | PASS |
| | | VN | TN | 4.14 | 0.002202 | ± 2.5 | PASS |
| | | VH | TN | 1.35 | 0.000718 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.48 | 0.001832 | ± 2.5 | PASS |
| | | VN | TN | 2.81 | 0.001479 | ± 2.5 | PASS |
| | | VH | TN | 2.34 | 0.001232 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 3.6 | 0.001935 | ± 2.5 | PASS |
| | | VN | TN | 2.67 | 0.001435 | ± 2.5 | PASS |
| | | VH | TN | -1.9 | -0.001022 | ± 2.5 | PASS |
| | MCH | VL | TN | 1.65 | 0.000878 | ± 2.5 | PASS |
| | | VN | TN | 3.53 | 0.001878 | ± 2.5 | PASS |
| | | VH | TN | 1.18 | 0.000628 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.07 | 0.001089 | ± 2.5 | PASS |
| | | VN | TN | 2.88 | 0.001516 | ± 2.5 | PASS |
| | | VH | TN | -1.8 | -0.000947 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -0.98 | -0.000527 | ± 2.5 | PASS |
| | | VN | -20 | 0.37 | 0.000199 | ± 2.5 | PASS |
| | | VN | -10 | -0.16 | -0.000086 | ± 2.5 | PASS |
| | | VN | 0 | -0.61 | -0.000328 | ± 2.5 | PASS |
| | | VN | 10 | 4.65 | 0.002500 | ± 2.5 | PASS |
| | | VN | 20 | 0.79 | 0.000425 | ± 2.5 | PASS |
| | | VN | 30 | -0.74 | -0.000398 | ± 2.5 | PASS |
| | | VN | 40 | 3.85 | 0.002070 | ± 2.5 | PASS |
| | | VN | 50 | -0.35 | -0.000188 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.76 | 0.000404 | ± 2.5 | PASS |
| | | VN | -20 | 2.05 | 0.001090 | ± 2.5 | PASS |
| | | VN | -10 | -0.64 | -0.000340 | ± 2.5 | PASS |
| | | VN | 0 | 4.61 | 0.002452 | ± 2.5 | PASS |
| | | VN | 10 | 0.86 | 0.000457 | ± 2.5 | PASS |
| | | VN | 20 | -0.67 | -0.000356 | ± 2.5 | PASS |

| | | | | | | | |
|--|-----|----|-----|-------|-----------|-----------|------|
| | HCH | VN | 30 | 1.73 | 0.000920 | ± 2.5 | PASS |
| | | VN | 40 | 1.04 | 0.000553 | ± 2.5 | PASS |
| | | VN | 50 | 4.55 | 0.002420 | ± 2.5 | PASS |
| | | VN | -30 | 4.13 | 0.002174 | ± 2.5 | PASS |
| | | VN | -20 | -0.76 | -0.000400 | ± 2.5 | PASS |
| | | VN | -10 | -0.48 | -0.000253 | ± 2.5 | PASS |
| | | VN | 0 | 0.42 | 0.000221 | ± 2.5 | PASS |
| | | VN | 10 | 0.77 | 0.000405 | ± 2.5 | PASS |
| | | VN | 20 | 3.67 | 0.001932 | ± 2.5 | PASS |
| | | VN | 30 | 1.56 | 0.000821 | ± 2.5 | PASS |
| | LCH | VN | 40 | 3.67 | 0.001932 | ± 2.5 | PASS |
| | | VN | 50 | 0.8 | 0.000421 | ± 2.5 | PASS |
| | | VN | -30 | 3.3 | 0.001774 | ± 2.5 | PASS |
| | | VN | -20 | 1.26 | 0.000677 | ± 2.5 | PASS |
| | | VN | -10 | -0.14 | -0.000075 | ± 2.5 | PASS |
| | | VN | 0 | 0.16 | 0.000086 | ± 2.5 | PASS |
| | | VN | 10 | 4.84 | 0.002602 | ± 2.5 | PASS |
| | | VN | 20 | 0.17 | 0.000091 | ± 2.5 | PASS |
| | | VN | 30 | 0.5 | 0.000269 | ± 2.5 | PASS |
| | | VN | 40 | -0.77 | -0.000414 | ± 2.5 | PASS |
| | MCH | VN | 50 | -0.97 | -0.000522 | ± 2.5 | PASS |
| | | VN | -30 | 0.87 | 0.000463 | ± 2.5 | PASS |
| | | VN | -20 | 3.57 | 0.001899 | ± 2.5 | PASS |
| | | VN | -10 | 0.03 | 0.000016 | ± 2.5 | PASS |
| | | VN | 0 | 1.95 | 0.001037 | ± 2.5 | PASS |
| | | VN | 10 | -0.98 | -0.000521 | ± 2.5 | PASS |
| | | VN | 20 | 4.56 | 0.002426 | ± 2.5 | PASS |
| | | VN | 30 | 0.37 | 0.000197 | ± 2.5 | PASS |
| | | VN | 40 | 1.05 | 0.000559 | ± 2.5 | PASS |
| | | VN | 50 | -1.09 | -0.000580 | ± 2.5 | PASS |
| | HCH | VN | -30 | 4.62 | 0.002432 | ± 2.5 | PASS |
| | | VN | -20 | -1.34 | -0.000705 | ± 2.5 | PASS |
| | | VN | -10 | 2.45 | 0.001289 | ± 2.5 | PASS |
| | | VN | 0 | 4.85 | 0.002553 | ± 2.5 | PASS |
| | | VN | 10 | 2.52 | 0.001326 | ± 2.5 | PASS |
| | | VN | 20 | 2.9 | 0.001526 | ± 2.5 | PASS |
| | | VN | 30 | 0.54 | 0.000284 | ± 2.5 | PASS |
| | | VN | 40 | -1.73 | -0.000911 | ± 2.5 | PASS |
| | | VN | 50 | 4.39 | 0.002311 | ± 2.5 | PASS |