Appendix F: Test Data for E-UTRA Band 5

Product Name: Tablet PC

HYUNDAI

Trade Mark:

Test Model: 10LC1

Environmental Conditions

| Temperature: | 24.6° C |
|--------------------|-----------|
| Relative Humidity: | 54.1% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Li Huan |
| Supervised by: | Tom Liu |

F.1 Conducted Output Power

| Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz) | | | | | | | |
|---|---------|--------|------------|---------------------|---------------------|---------|--|
| Modulation | Channal | RB Con | figuration | Average Power [dBm] | Average Power [dBm] | Vardiet | |
| Modulation | Channel | Size | Offset | QPSK | 16QAM | Verdict | |
| | | 1 | 0 | 23.55 | 22.86 | PASS | |
| | | 1 | 3 | 23.76 | 23.15 | PASS | |
| | | 1 | 5 | 23.63 | 22.91 | PASS | |
| | LCH | 3 | 0 | 23.63 | 22.58 | PASS | |
| | | 3 | 2 | 23.61 | 22.62 | PASS | |
| | | 3 | 3 | 23.62 | 22.69 | PASS | |
| | | 6 | 0 | 22.57 | 21.68 | PASS | |
| | | 1 | 0 | 23.90 | 22.87 | PASS | |
| QPSK / | | 1 | 3 | 23.88 | 22.98 | PASS | |
| 16QAM | | 1 | 5 | 23.67 | 22.85 | PASS | |
| TOQAM | MCH | 3 | 0 | 23.71 | 22.72 | PASS | |
| | | 3 | 2 | 23.72 | 22.68 | PASS | |
| | | 3 | 3 | 23.76 | 22.75 | PASS | |
| | | 6 | 0 | 23.03 | 22.21 | PASS | |
| | | 1 | 0 | 23.95 | 22.72 | PASS | |
| | | 1 | 3 | 24.03 | 23.00 | PASS | |
| | HCH | 1 | 5 | 23.67 | 22.71 | PASS | |
| | | 3 | 0 | 23.49 | 22.68 | PASS | |
| | | 3 | 2 | 23.57 | 22.66 | PASS | |

| SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. | | | RY LTD. FCC ID: 2AVTH-10 | OLC1-2 Report No.: LCS20 | 01026153AEG | |
|---|--|---|--------------------------|--------------------------|-------------|------|
| | | 3 | 3 | 23.53 | 22.61 | PASS |
| | | 6 | 0 | 22.69 | 21.83 | PASS |

| Conducted Output Power Test Result (Channel Bandwidth: 3 MHz) | | | | | | | |
|---|---------|--------|------------|---------------------|---------------------|---------|--|
| Modulation | Channel | RB Con | figuration | Average Power [dBm] | Average Power [dBm] | Verdict | |
| Modulation | Channel | Size | Offset | QPSK | 16QAM | verdict | |
| | | 1 | 0 | 23.99 | 23.01 | PASS | |
| | | 1 | 7 | 24.20 | 23.40 | PASS | |
| | | 1 | 14 | 24.04 | 23.14 | PASS | |
| | LCH | 8 | 0 | 23.04 | 22.11 | PASS | |
| | | 8 | 4 | 23.08 | 22.30 | PASS | |
| | | 8 | 7 | 23.16 | 22.26 | PASS | |
| | | 15 | 0 | 23.10 | 22.15 | PASS | |
| | | 1 | 0 | 24.09 | 23.24 | PASS | |
| | | 1 | 7 | 24.34 | 23.47 | PASS | |
| QPSK / | | 1 | 14 | 23.92 | 23.07 | PASS | |
| 16QAM | MCH | 8 | 0 | 23.01 | 22.07 | PASS | |
| IOQAW | | 8 | 4 | 23.09 | 22.16 | PASS | |
| | | 8 | 7 | 22.99 | 22.06 | PASS | |
| | | 15 | 0 | 22.96 | 21.99 | PASS | |
| | | 1 | 0 | 23.90 | 23.02 | PASS | |
| | | 1 | 7 | 24.15 | 23.22 | PASS | |
| | | 1 | 14 | 23.95 | 22.89 | PASS | |
| | HCH | 8 | 0 | 22.92 | 21.97 | PASS | |
| | | 8 | 4 | 22.93 | 22.07 | PASS | |
| | | 8 | 7 | 22.88 | 21.96 | PASS | |
| | | 15 | 0 | 22.96 | 21.89 | PASS | |

| | Conducted Output Power Test Result (Channel Bandwidth: 5 MHz) | | | | | | | |
|------------|---|--------|------------|---------------------|---------------------|----------|--|--|
| Madulation | Channal | RB Con | figuration | Average Power [dBm] | Average Power [dBm] | \/andiat | | |
| Modulation | Channel | Size | Offset | QPSK | 16QAM | Verdict | | |
| | | 1 | 0 | 24.00 | 23.05 | PASS | | |
| | | 1 | 12 | 24.40 | 23.64 | PASS | | |
| | | 1 | 24 | 23.95 | 23.28 | PASS | | |
| | LCH | 12 | 0 | 22.88 | 22.04 | PASS | | |
| | | 12 | 6 | 23.12 | 22.26 | PASS | | |
| | | 12 | 13 | 23.18 | 22.27 | PASS | | |
| | | 25 | 0 | 23.12 | 22.18 | PASS | | |
| | | 1 | 0 | 24.09 | 23.00 | PASS | | |
| | MCH | 1 | 12 | 24.39 | 23.22 | PASS | | |
| QPSK / | | 1 | 24 | 23.83 | 22.96 | PASS | | |
| 16QAM | | 12 | 0 | 22.79 | 21.99 | PASS | | |
| TOQAIVI | | 12 | 6 | 22.79 | 22.08 | PASS | | |
| | | 12 | 13 | 22.55 | 22.13 | PASS | | |
| | | 25 | 0 | 22.94 | 21.83 | PASS | | |
| | | 1 | 0 | 23.99 | 22.70 | PASS | | |
| | | 1 | 12 | 24.25 | 23.13 | PASS | | |
| | | 1 | 24 | 23.74 | 22.63 | PASS | | |
| | HCH | 12 | 0 | 22.71 | 21.70 | PASS | | |
| | | 12 | 6 | 22.80 | 21.98 | PASS | | |
| | | 12 | 13 | 22.68 | 21.85 | PASS | | |
| | | 25 | 0 | 22.92 | 21.91 | PASS | | |

| Conducted Output Power Test Result (Channel Bandwidth: 10 MHz) | | | | | | | |
|--|----------|--------|------------|---------------------|---------------------|---------|--|
| Manalada di sa | Observat | RB Con | figuration | Average Power [dBm] | Average Power [dBm] | \ | |
| Modulation | Channel | Size | Offset | QPSK | 16QAM | Verdict | |
| | | 1 | 0 | 23.97 | 23.00 | PASS | |
| | | 1 | 24 | 24.10 | 23.09 | PASS | |
| | | 1 | 49 | 23.87 | 22.87 | PASS | |
| | LCH | 25 | 0 | 23.07 | 22.08 | PASS | |
| | | 25 | 12 | 23.21 | 22.27 | PASS | |
| | | 25 | 25 | 23.07 | 22.11 | PASS | |
| | | 50 | 0 | 23.04 | 22.09 | PASS | |
| | | 1 | 0 | 24.27 | 23.29 | PASS | |
| | МСН | 1 | 24 | 24.23 | 23.38 | PASS | |
| QPSK / | | 1 | 49 | 23.93 | 23.06 | PASS | |
| 16QAM | | 25 | 0 | 23.16 | 22.27 | PASS | |
| TOQAIVI | | 25 | 12 | 23.05 | 22.17 | PASS | |
| | | 25 | 25 | 22.83 | 22.05 | PASS | |
| | | 50 | 0 | 23.13 | 22.19 | PASS | |
| | | 1 | 0 | 24.09 | 23.10 | PASS | |
| | | 1 | 24 | 24.06 | 23.08 | PASS | |
| | | 1 | 49 | 23.90 | 23.01 | PASS | |
| | HCH | 25 | 0 | 23.02 | 22.00 | PASS | |
| | | 25 | 12 | 23.03 | 22.01 | PASS | |
| | | 25 | 25 | 22.93 | 21.91 | PASS | |
| | | 50 | 0 | 22.98 | 21.99 | PASS | |

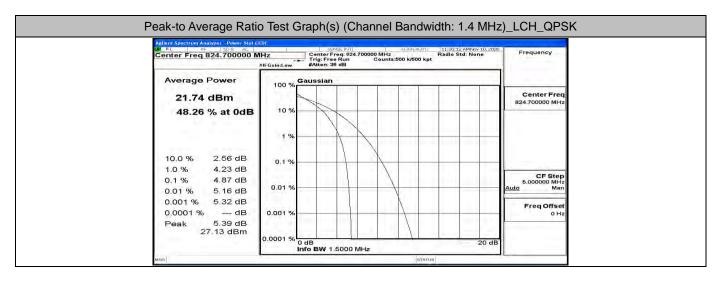
F.2 Peak-to-Average Ratio

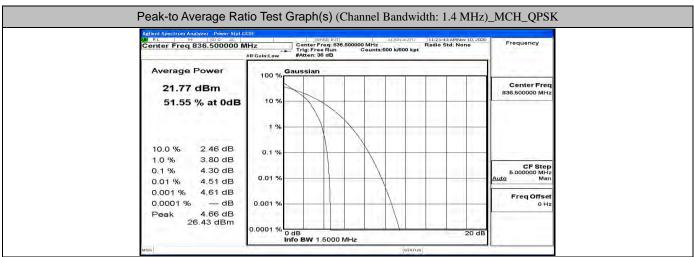
| Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz) | | | | | | |
|--|----------|-----------------------|-------|---------|--|--|
| Modulation | Channel | Peak-to-Average Ratio | Limit | Verdict | | |
| Modulation | Griannei | [dB] | [dB] | verdict | | |
| | LCH | 4.87 | <13 | PASS | | |
| QPSK | MCH | 4.3 | <13 | PASS | | |
| | HCH | 3.82 | <13 | PASS | | |
| | LCH | 5.77 | <13 | PASS | | |
| 16QAM | MCH | 5 | <13 | PASS | | |
| | HCH | 4.83 | <13 | PASS | | |

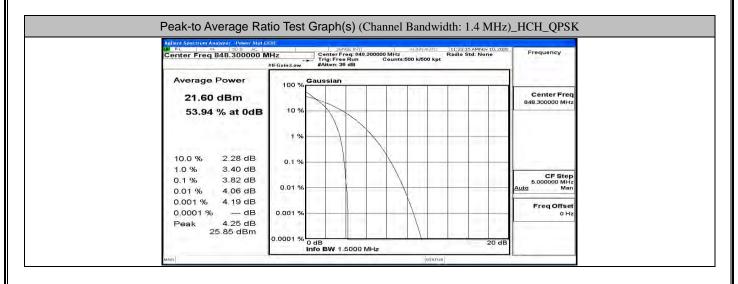
| Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz) | | | | | | |
|--|----------|-----------------------|-------|---------|--|--|
| Modulation | Channel | Peak-to-Average Ratio | Limit | Verdict | | |
| Modulation | Griannei | [dB] | [dB] | verdict | | |
| | LCH | 5.07 | <13 | PASS | | |
| QPSK | MCH | 4.5 | <13 | PASS | | |
| | HCH | 4.35 | <13 | PASS | | |
| | LCH | 5.94 | <13 | PASS | | |
| 16QAM | MCH | 5.23 | <13 | PASS | | |
| | HCH | 5.18 | <13 | PASS | | |

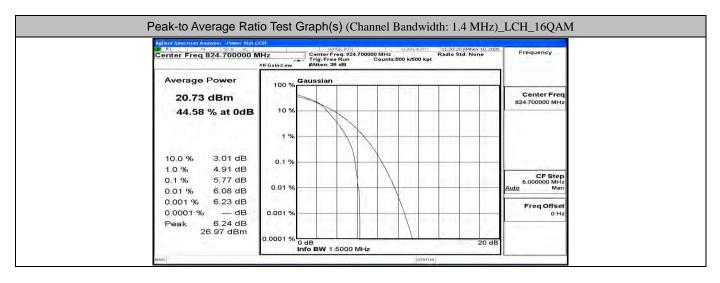
| Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz) | | | | | | |
|--|---------|-----------------------|-------|---------|--|--|
| Modulation | Channel | Peak-to-Average Ratio | Limit | Verdict | | |
| Modulation | Charmer | [dB] | [dB] | verdict | | |
| | LCH | 4.96 | <13 | PASS | | |
| QPSK | MCH | 4.38 | <13 | PASS | | |
| | HCH | 4.49 | <13 | PASS | | |
| 16QAM | LCH | 5.71 | <13 | PASS | | |
| | MCH | 5.18 | <13 | PASS | | |
| | HCH | 5.18 | <13 | PASS | | |

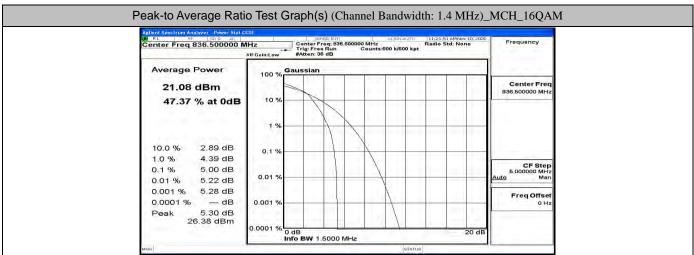
| Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz) | | | | | | |
|---|----------|-----------------------|-------|---------|--|--|
| Modulation | Channel | Peak-to-Average Ratio | Limit | Vordict | | |
| Modulation | Griannei | [dB] | [dB] | Verdict | | |
| | LCH | 4.85 | <13 | PASS | | |
| QPSK | MCH | 4.52 | <13 | PASS | | |
| | HCH | 4.85 | <13 | PASS | | |
| | LCH | 5.67 | <13 | PASS | | |
| 16QAM | MCH | 5.3 | <13 | PASS | | |
| | HCH | 5.62 | <13 | PASS | | |

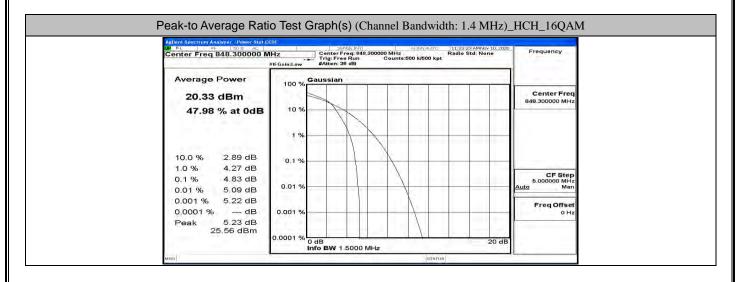


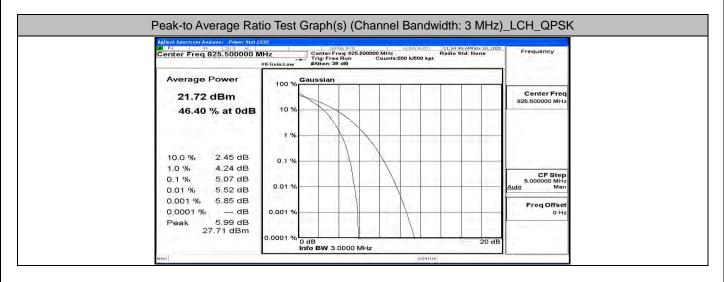


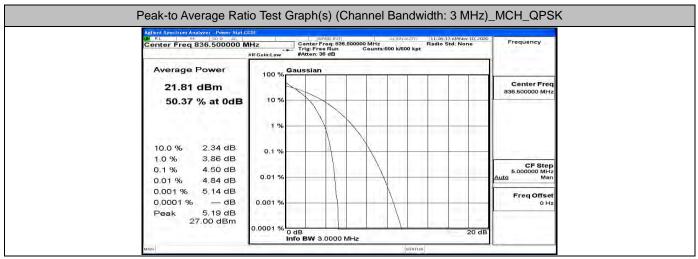


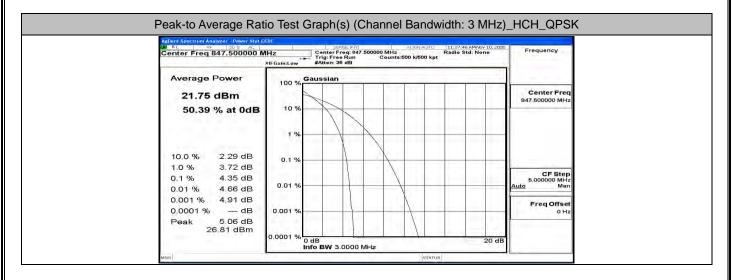


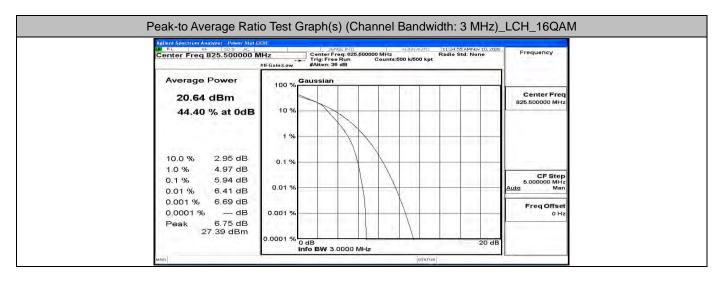


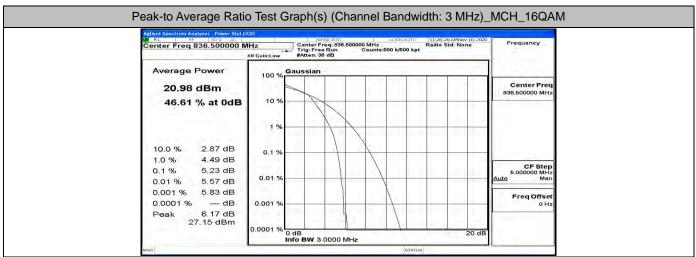


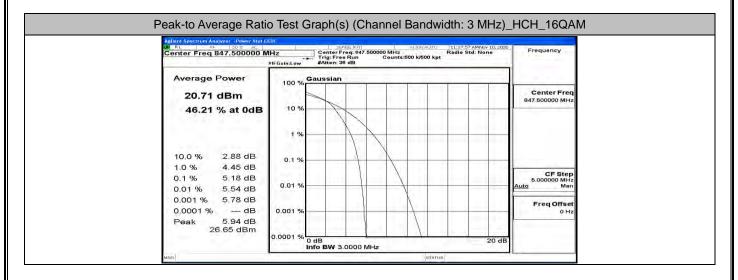


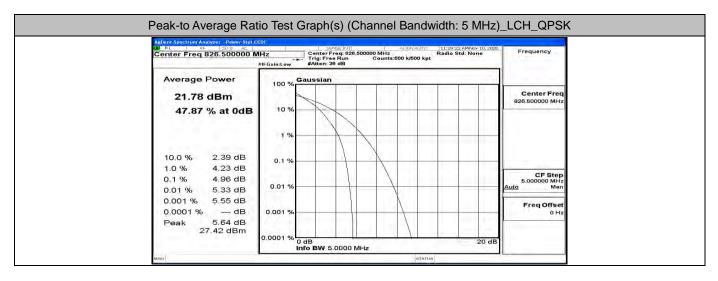


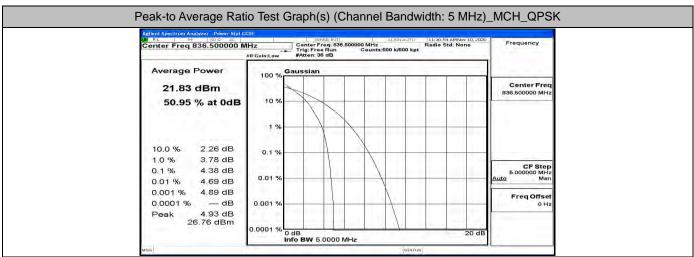


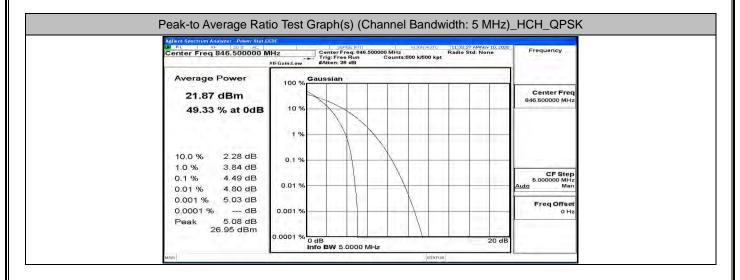


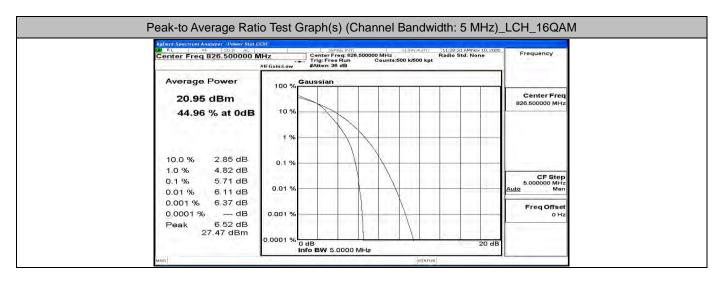


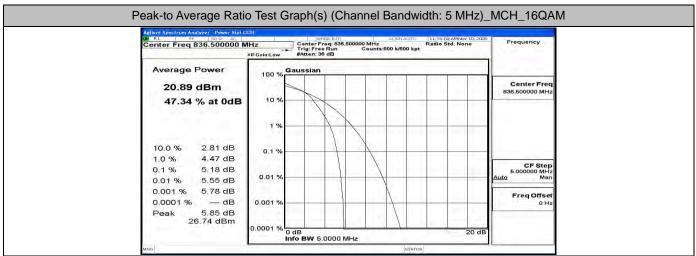


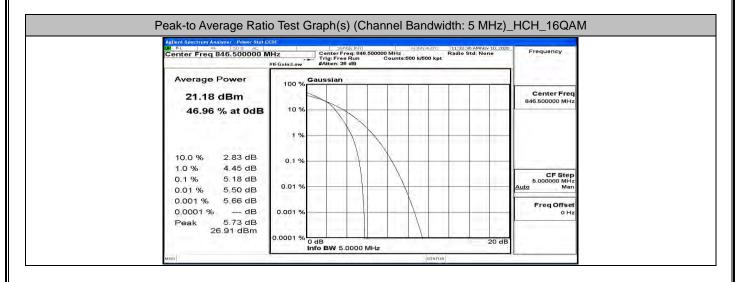


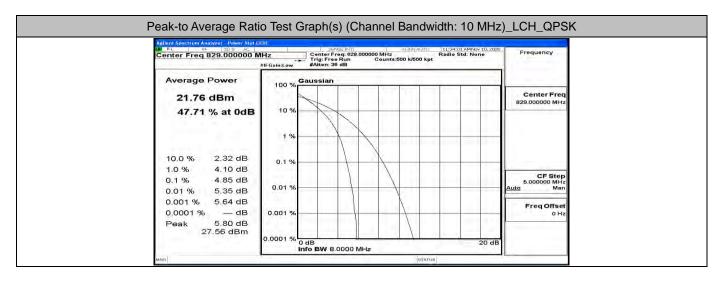


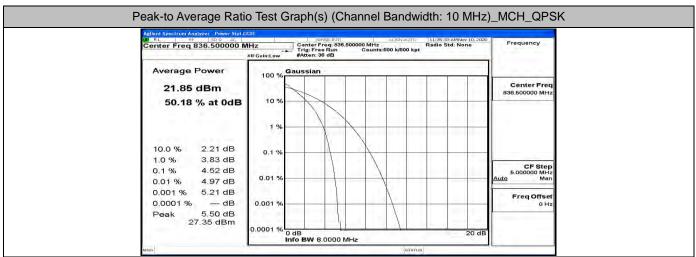


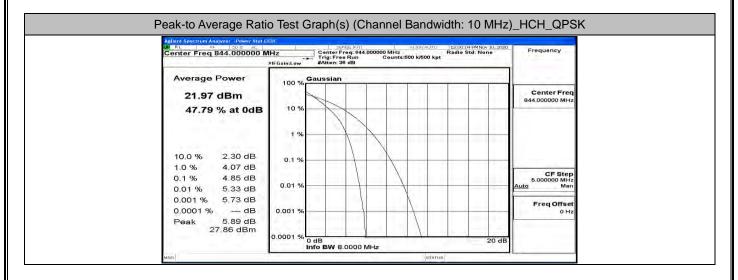


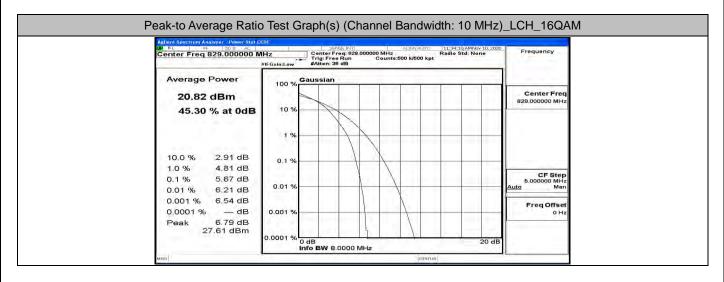


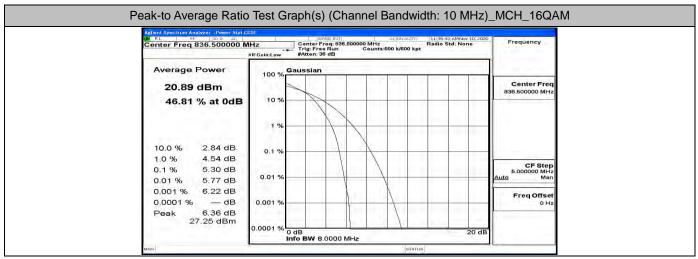


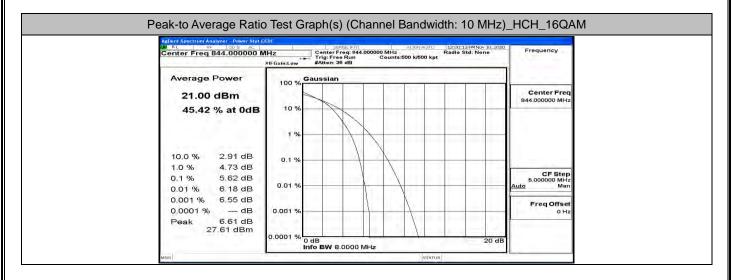












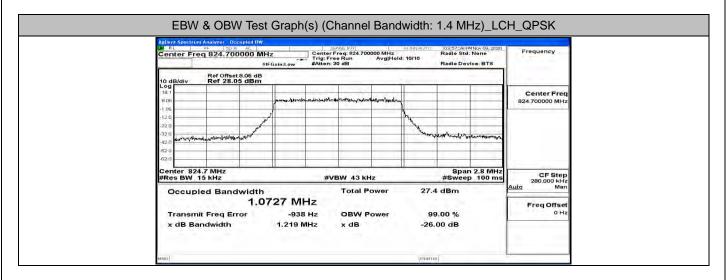
F.3 26dB Bandwidth and Occupied Bandwidth

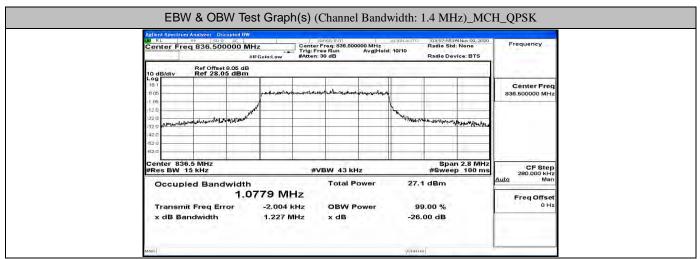
| | EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz) | | | | | | |
|--------------|--|--------------------|----------------|---------|--|--|--|
| Modulation | Channel | Occupied Bandwidth | 26dB Bandwidth | Verdict | | | |
| iviodulation | Griannei | (MHz) | (MHz) | verdict | | | |
| | LCH | 1.0727 | 1.219 | PASS | | | |
| QPSK | MCH | 1.0779 | 1.227 | PASS | | | |
| | HCH | 1.0760 | 1.241 | PASS | | | |
| | LCH | 1.0794 | 1.231 | PASS | | | |
| 16QAM | MCH | 1.0745 | 1.210 | PASS | | | |
| | HCH | 1.0803 | 1.241 | PASS | | | |

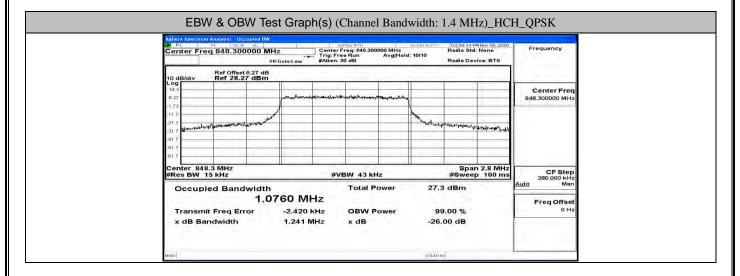
| EBW & OBW Test Result (Channel Bandwidth: 3 MHz) | | | | | | |
|--|----------|--------------------|----------------|---------|--|--|
| Modulation | Channel | Occupied Bandwidth | 26dB Bandwidth | Vordict | | |
| Modulation | Griannei | (MHz) | (MHz) | Verdict | | |
| | LCH | 2.6808 | 2.821 | PASS | | |
| QPSK | MCH | 2.6842 | 2.840 | PASS | | |
| | HCH | 2.6753 | 2.822 | PASS | | |
| | LCH | 2.6789 | 2.822 | PASS | | |
| 16QAM | MCH | 2.6755 | 2.834 | PASS | | |
| | HCH | 2.6746 | 2.817 | PASS | | |

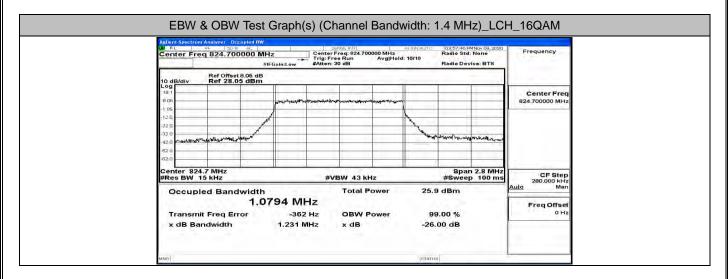
| EBW & OBW Test Result (Channel Bandwidth: 5 MHz) | | | | | | |
|--|---------|--------------------|----------------|---------|--|--|
| Modulation | Channel | Occupied Bandwidth | 26dB Bandwidth | Verdict | | |
| | | (MHz) | (MHz) | | | |
| QPSK | LCH | 4.4695 | 4.846 | PASS | | |
| | MCH | 4.4801 | 4.865 | PASS | | |
| | HCH | 4.4747 | 4.845 | PASS | | |
| 16QAM | LCH | 4.4707 | 4.867 | PASS | | |
| | MCH | 4.4809 | 4.895 | PASS | | |
| | HCH | 4.4761 | 4.834 | PASS | | |

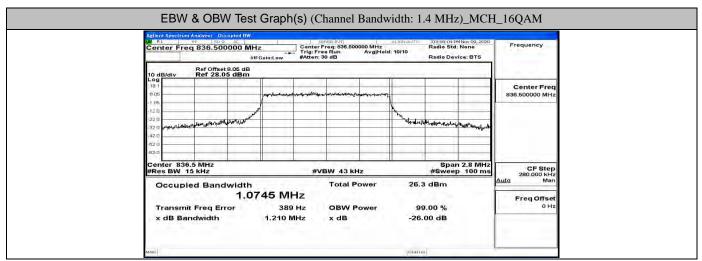
| EBW & OBW Test Result (Channel Bandwidth: 10 MHz) | | | | | | |
|---|---------|--------------------|----------------|---------|--|--|
| Modulation | Channel | Occupied Bandwidth | 26dB Bandwidth | Verdict | | |
| | | (MHz) | (MHz) | | | |
| QPSK | LCH | 8.9153 | 9.472 | PASS | | |
| | MCH | 8.9506 | 9.643 | PASS | | |
| | HCH | 8.9377 | 9.520 | PASS | | |
| 16QAM | LCH | 8.9107 | 9.461 | PASS | | |
| | MCH | 8.9587 | 9.551 | PASS | | |
| | HCH | 8.9198 | 9.445 | PASS | | |

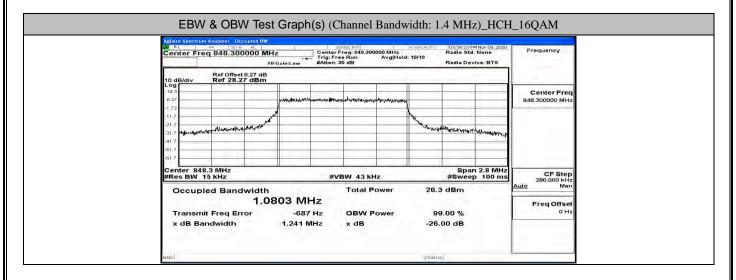


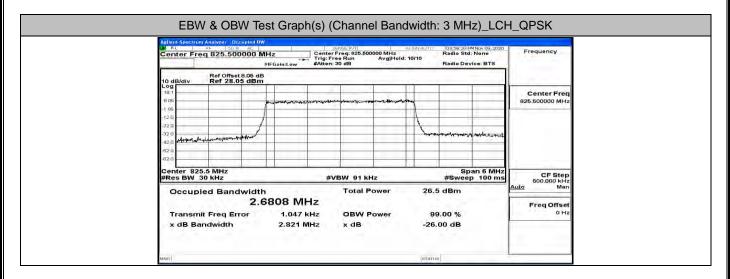


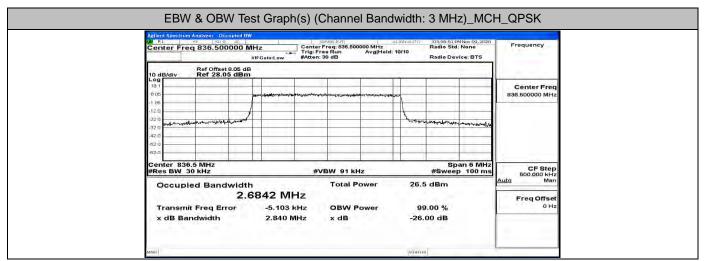


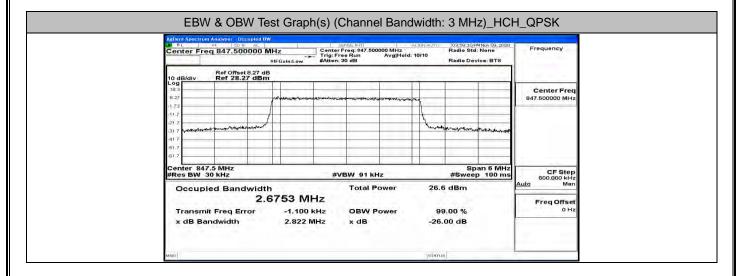


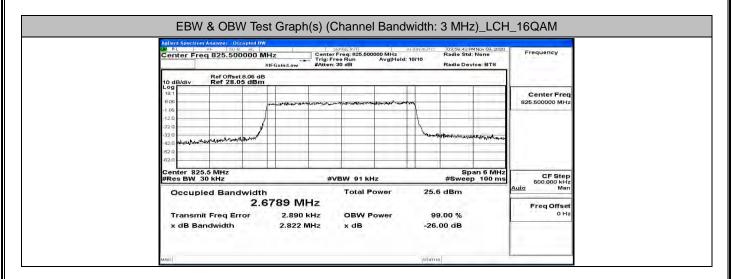


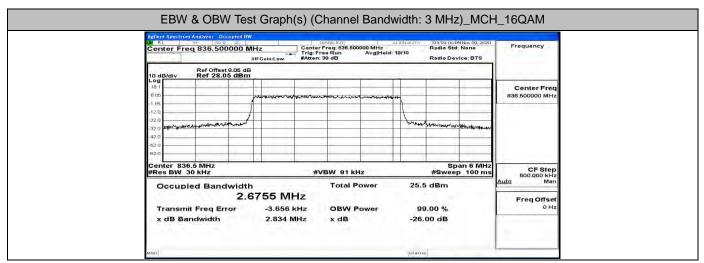


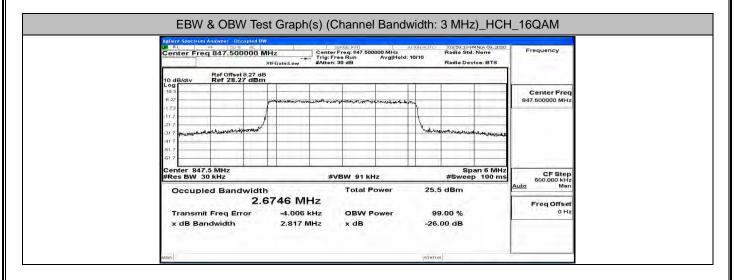


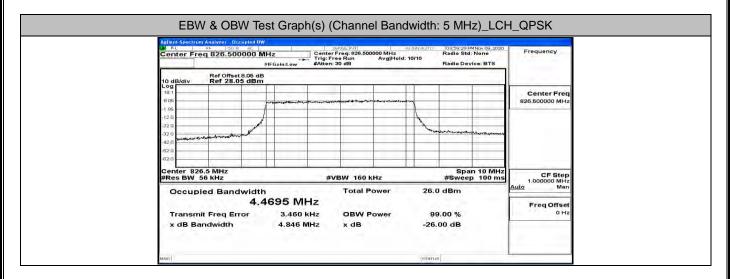


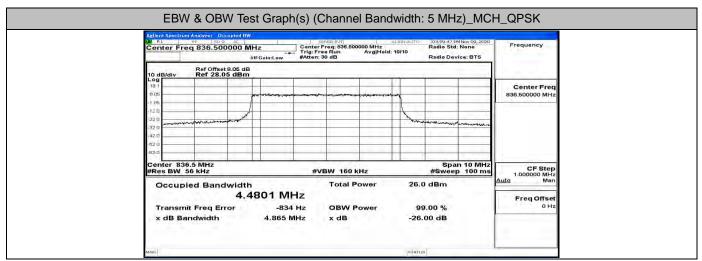


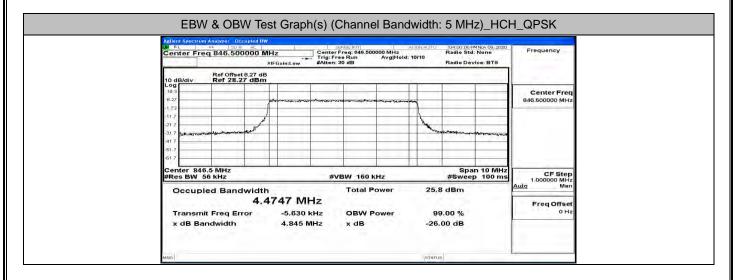


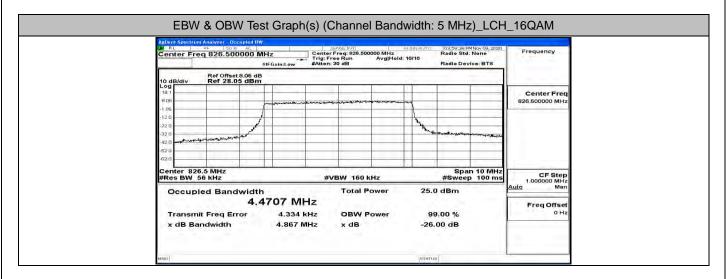


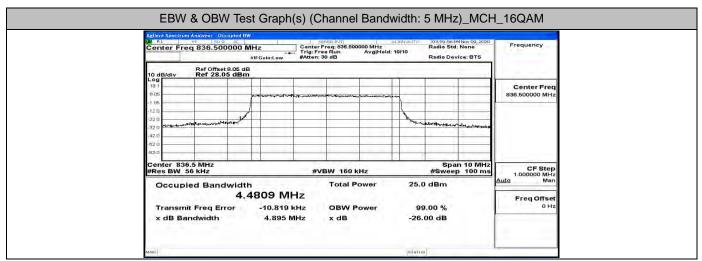


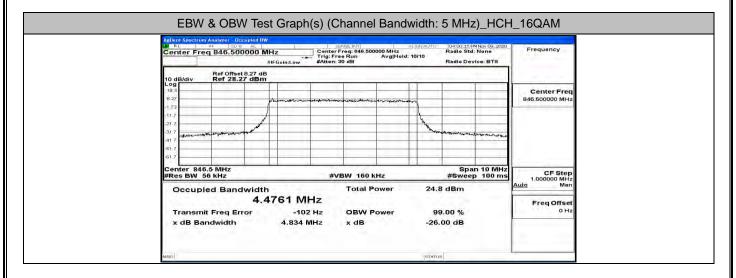


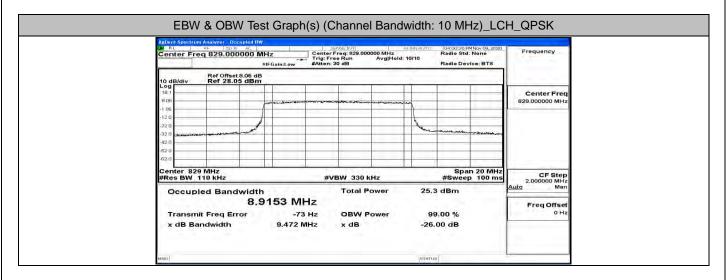


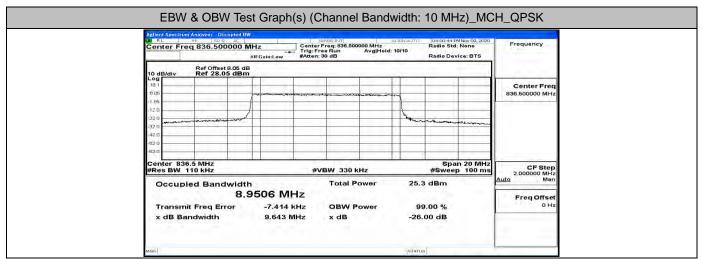


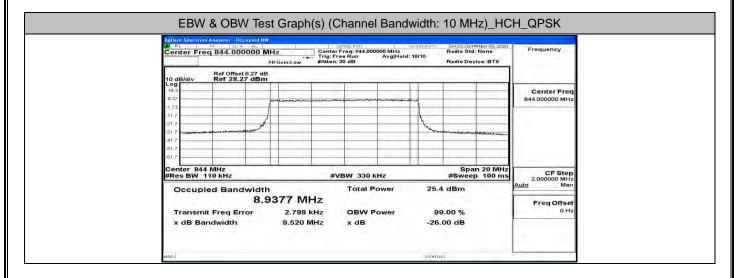


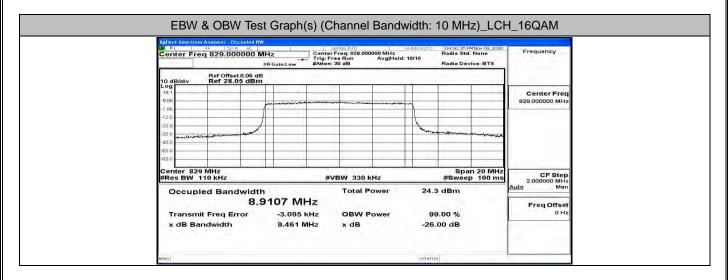


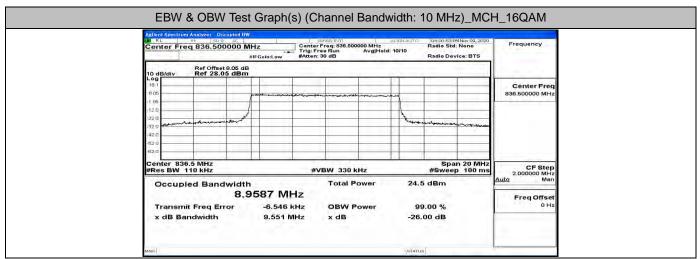


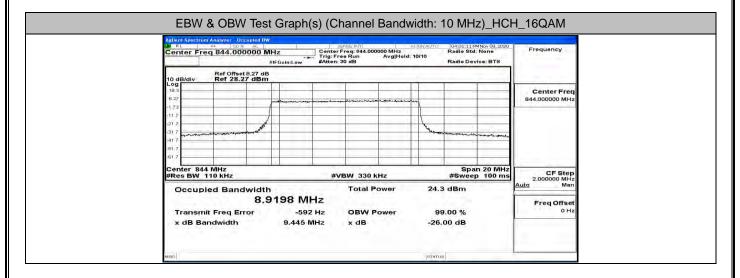




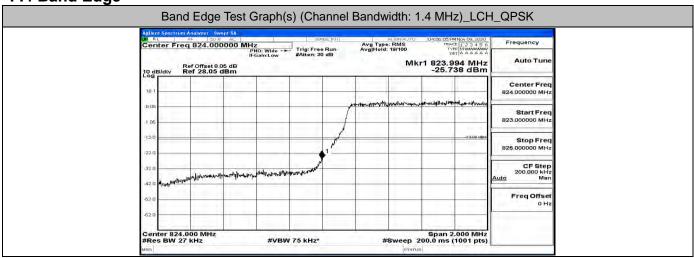


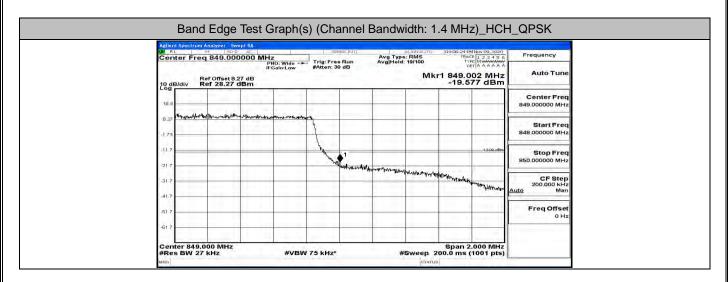


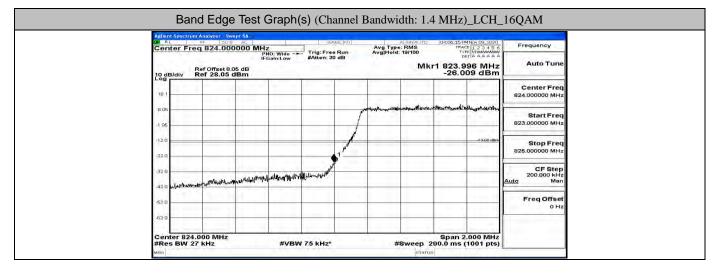


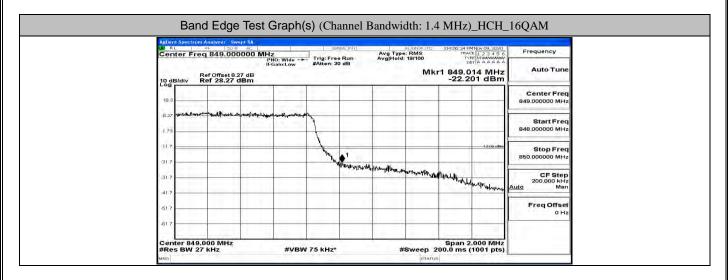


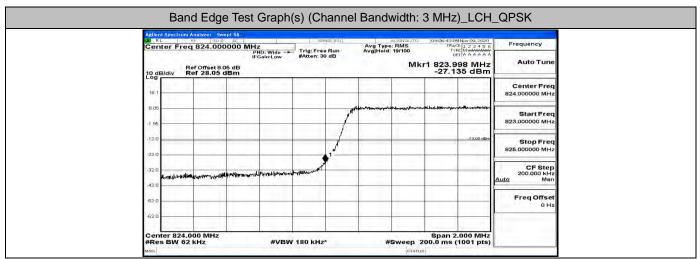
F.4 Band Edge

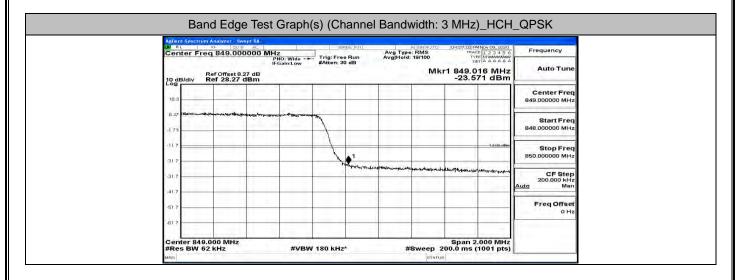


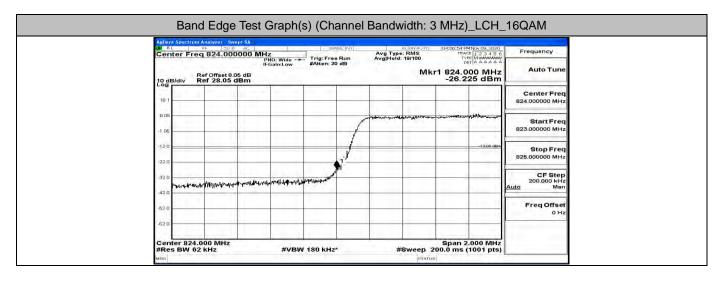


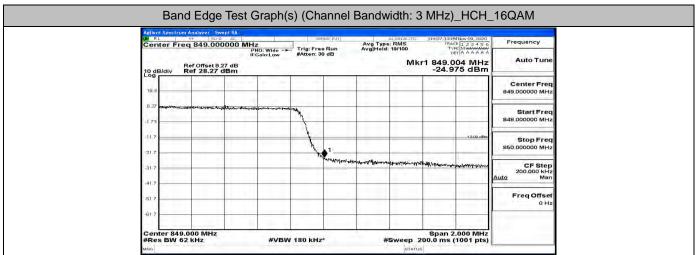


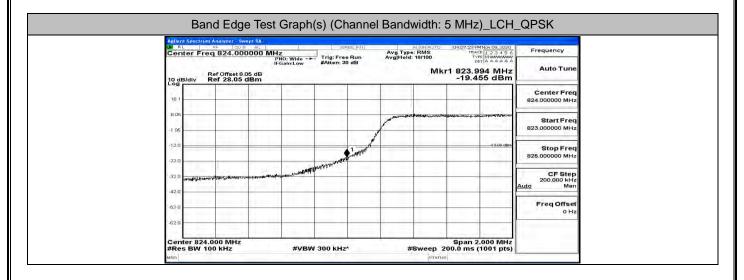


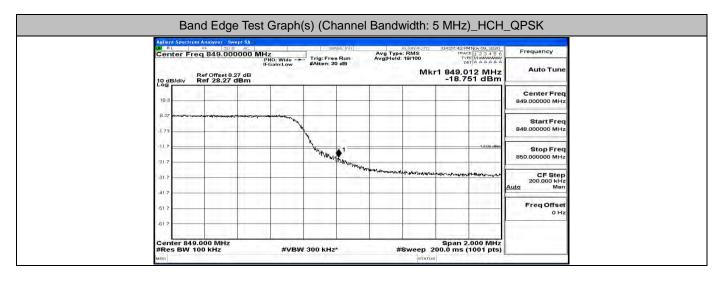


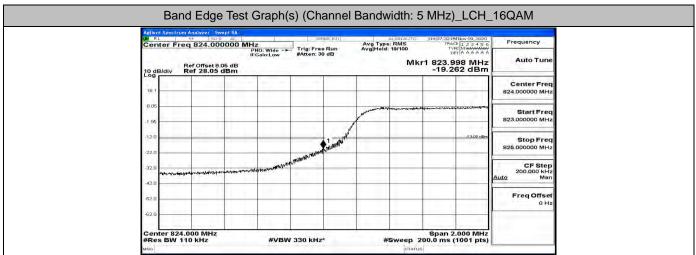


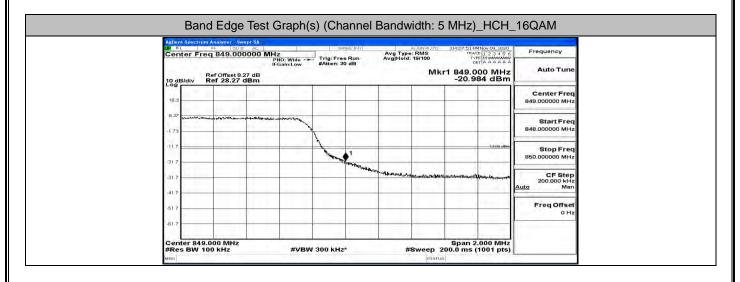










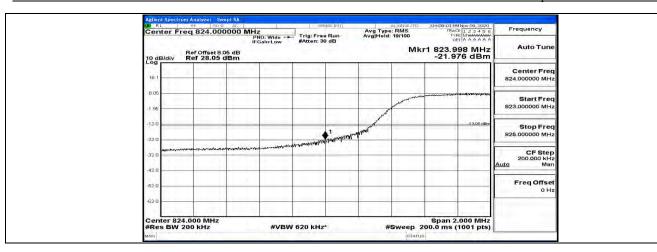


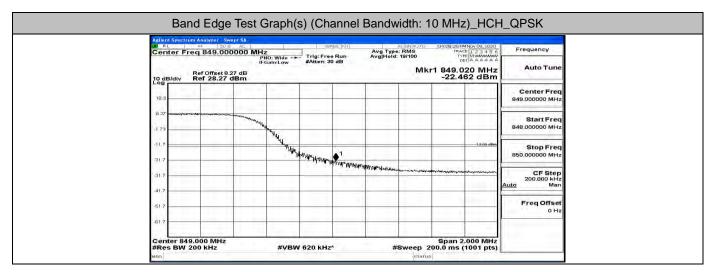
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

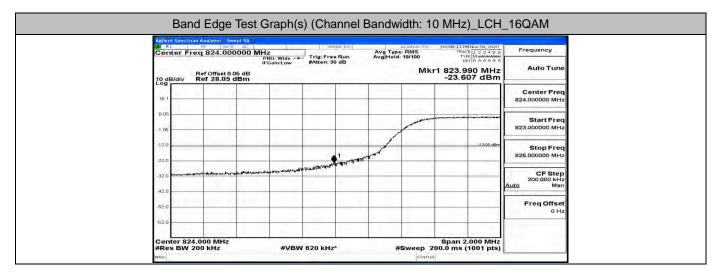
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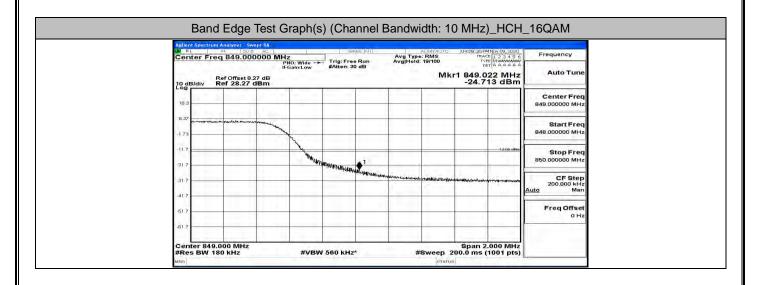
FCC ID: 2AVTH-10LC1-2

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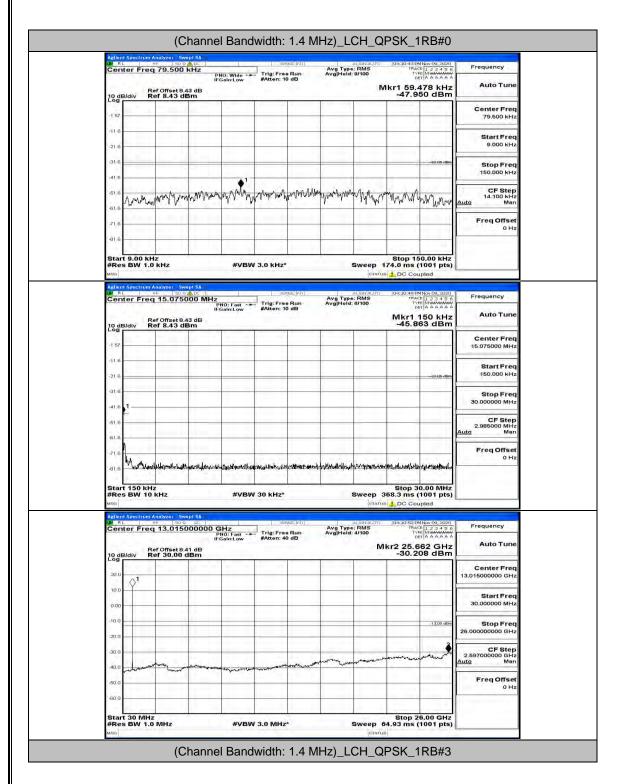


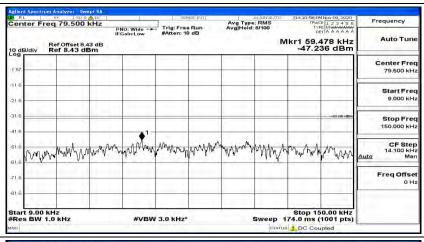


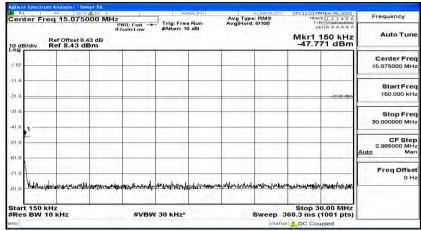


F.5 Conducted Spurious Emission Test Graphs

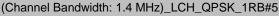
Channel Bandwidth: 1.4 MHz

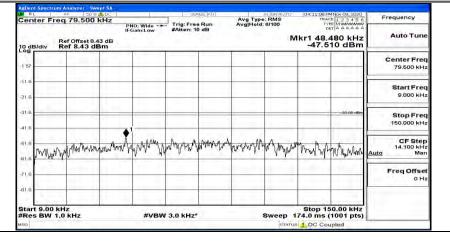


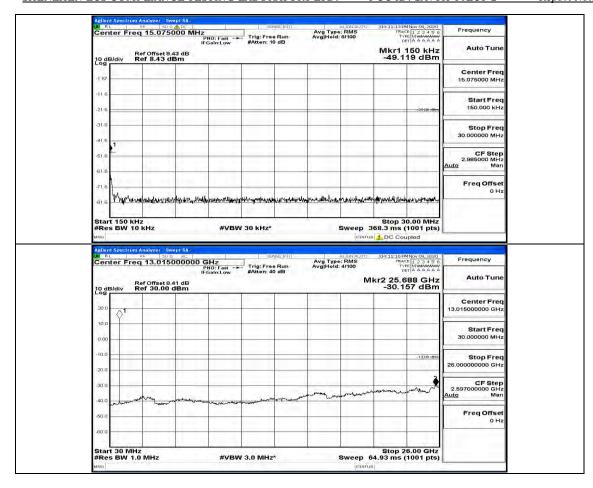


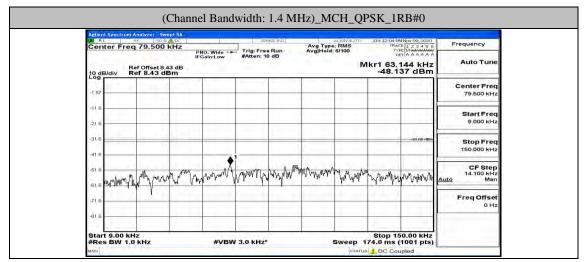


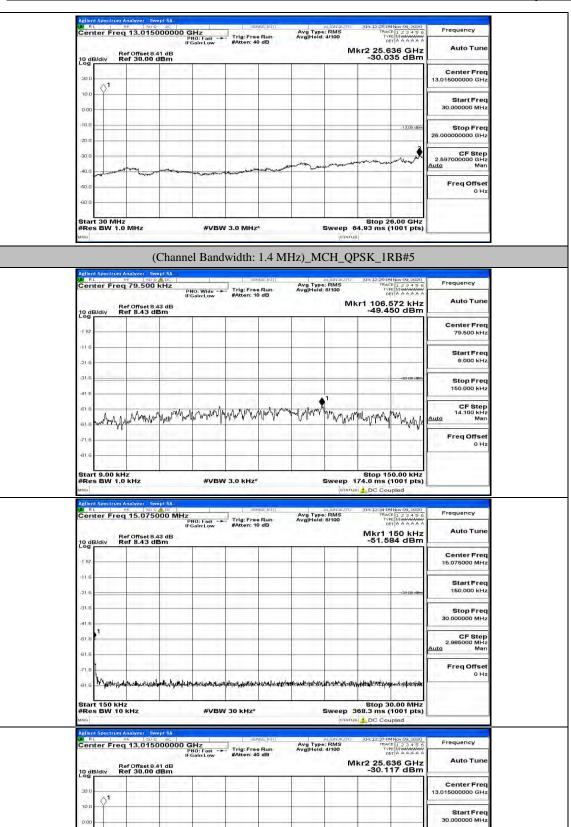












Stop 26.00 GHz Sweep 64.93 ms (1001 pts)

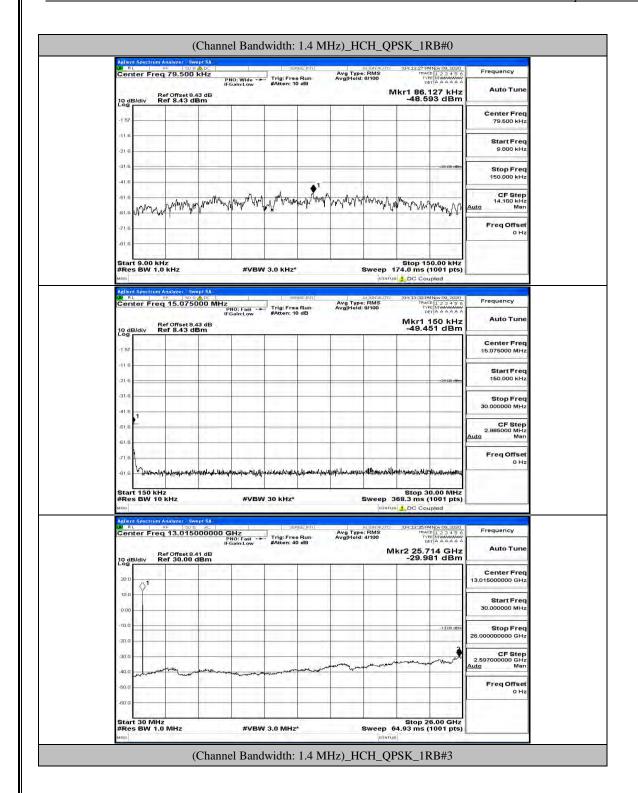
Start 30 MHz #Res BW 1.0 MHz

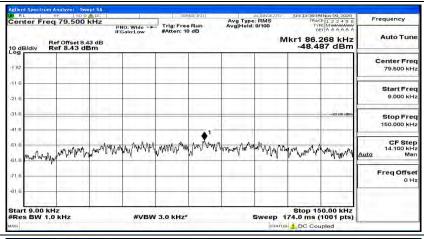
#VBW 3.0 MHz*

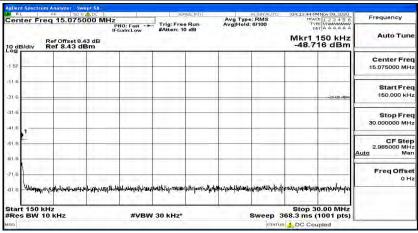
Stop Fre

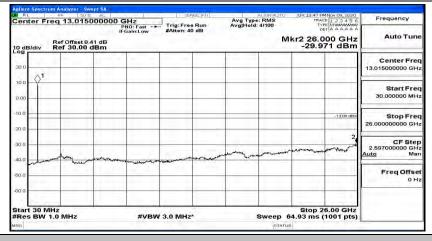
CF Step 2.597000000 GHz

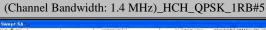
Freq Offset

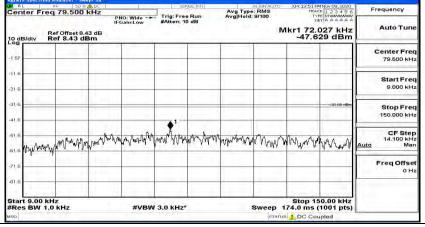


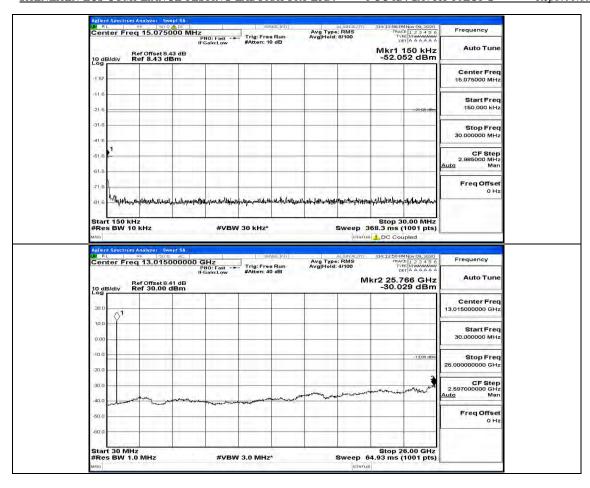


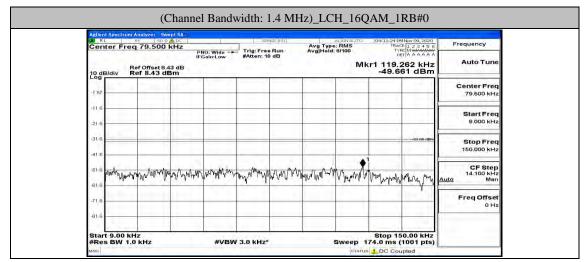


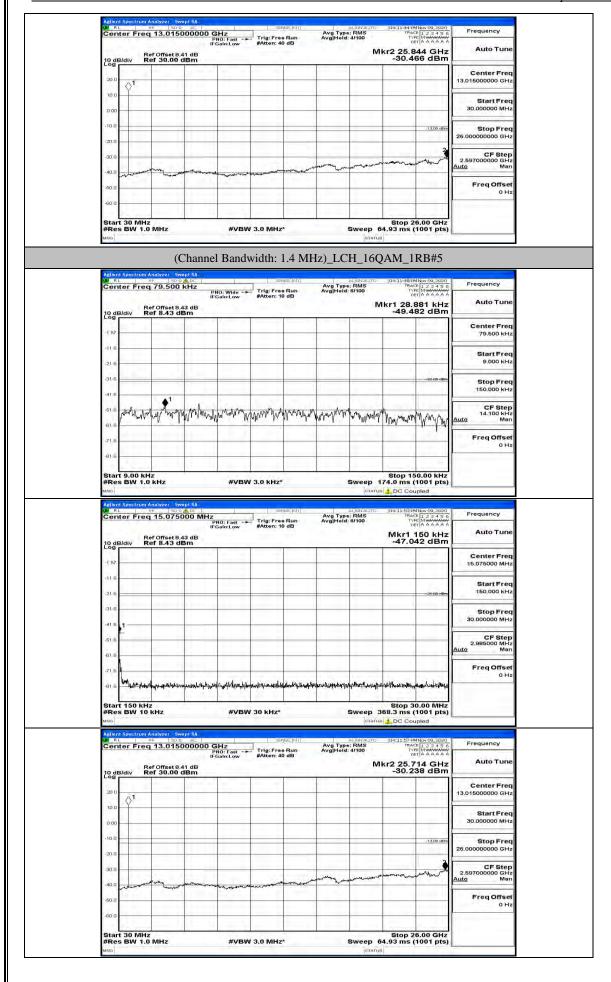


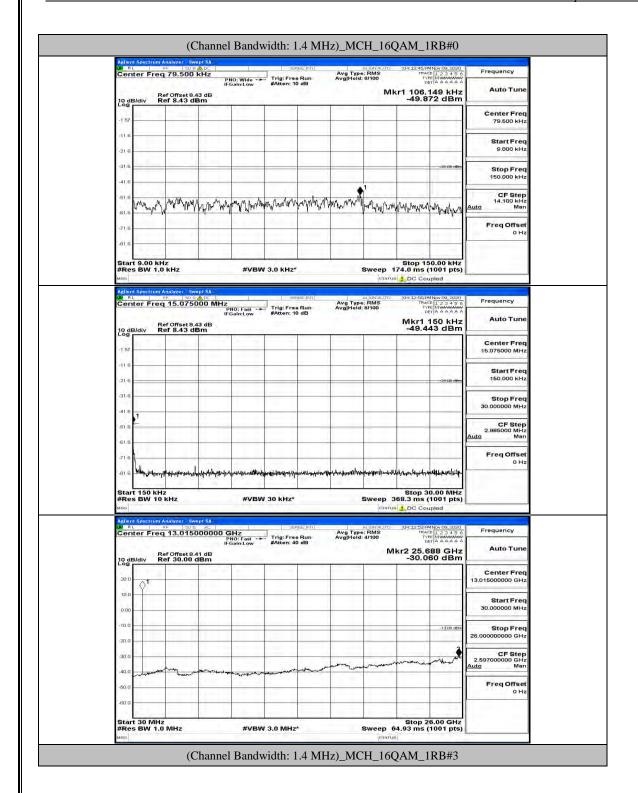


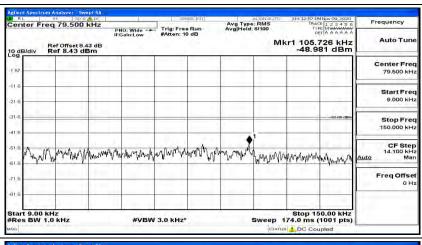


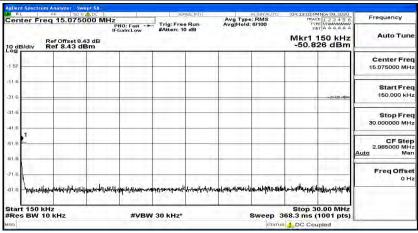




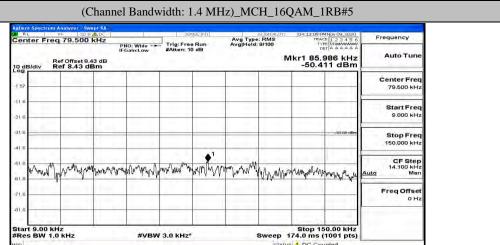


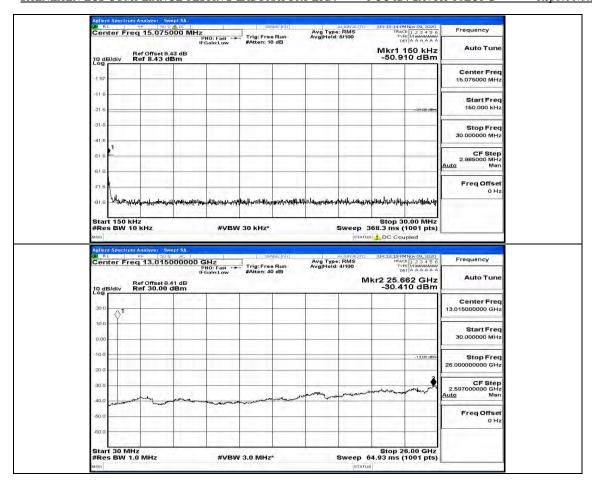


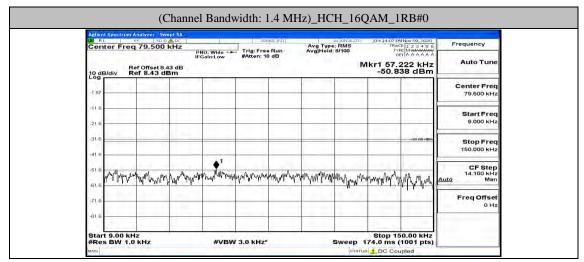


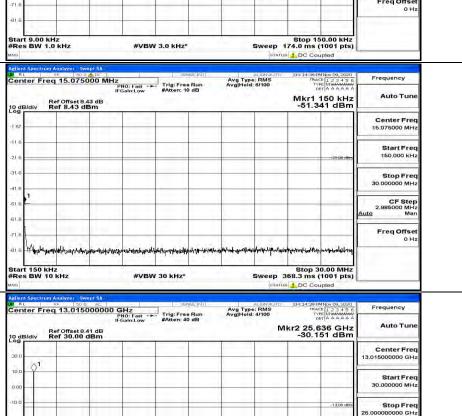












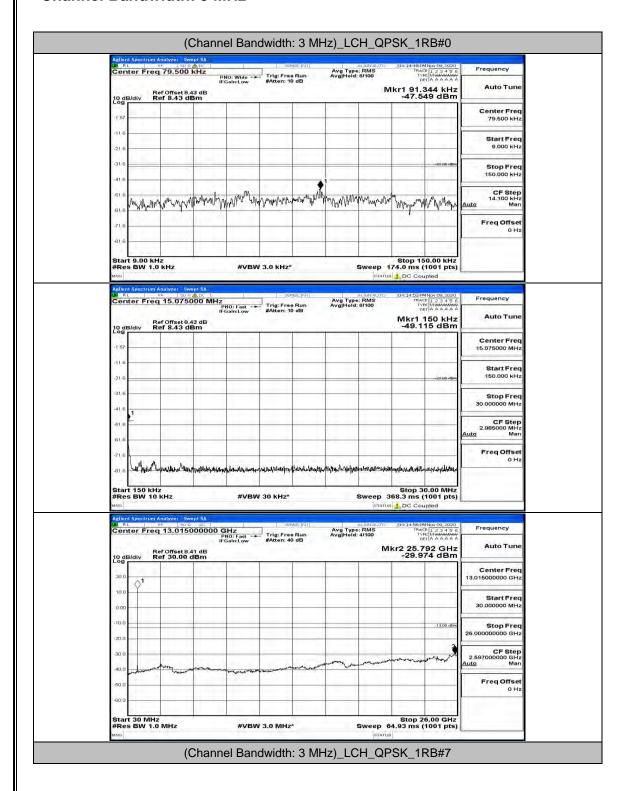
Start 30 MHz #Res BW 1.0 MHz

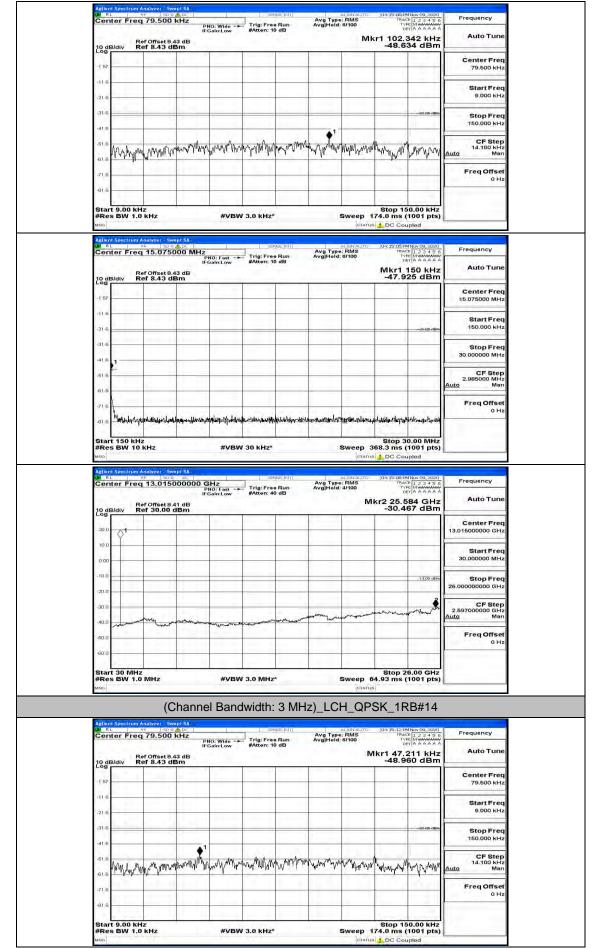
#VBW 3.0 MHz*

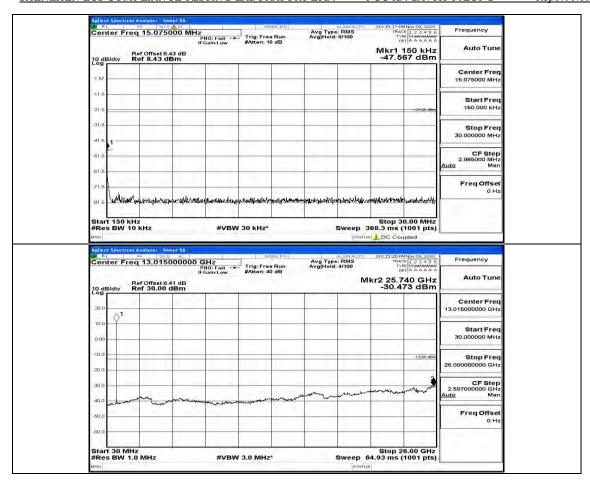
Stop 26.00 GHz Sweep 64.93 ms (1001 pts) CF Step 2.597000000 GHz

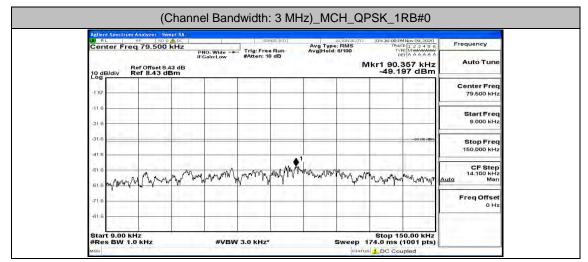
> Freq Offset 0 Hz

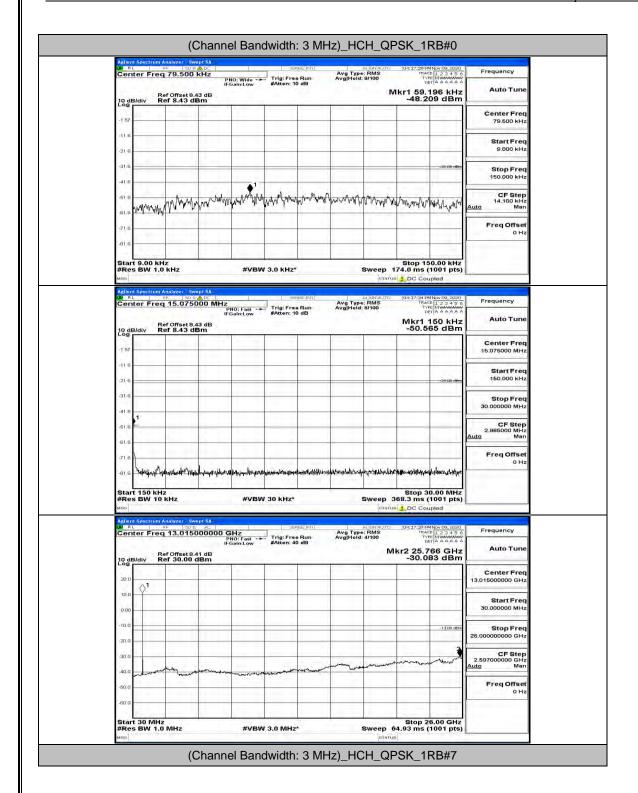
Channel Bandwidth: 3 MHz

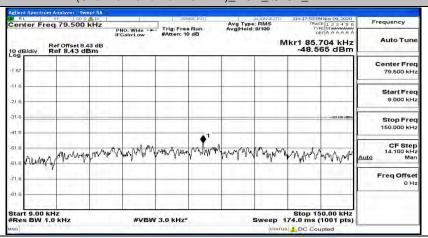


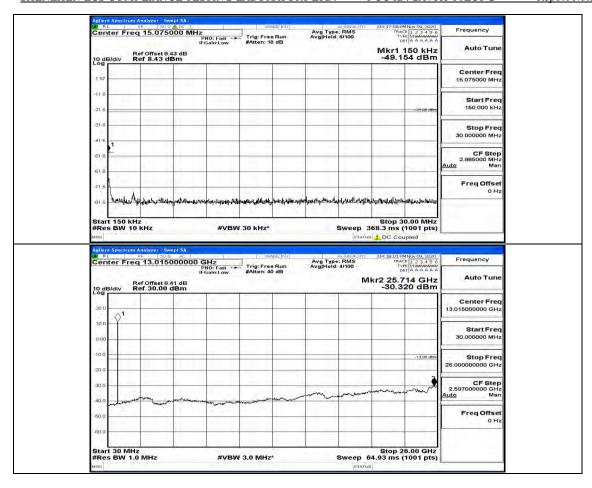


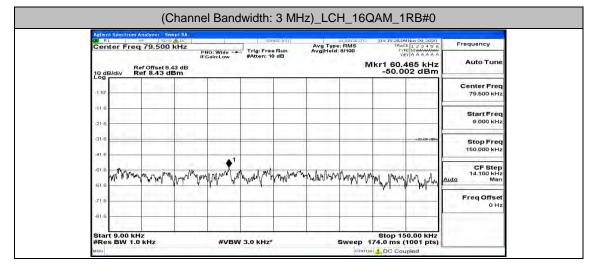


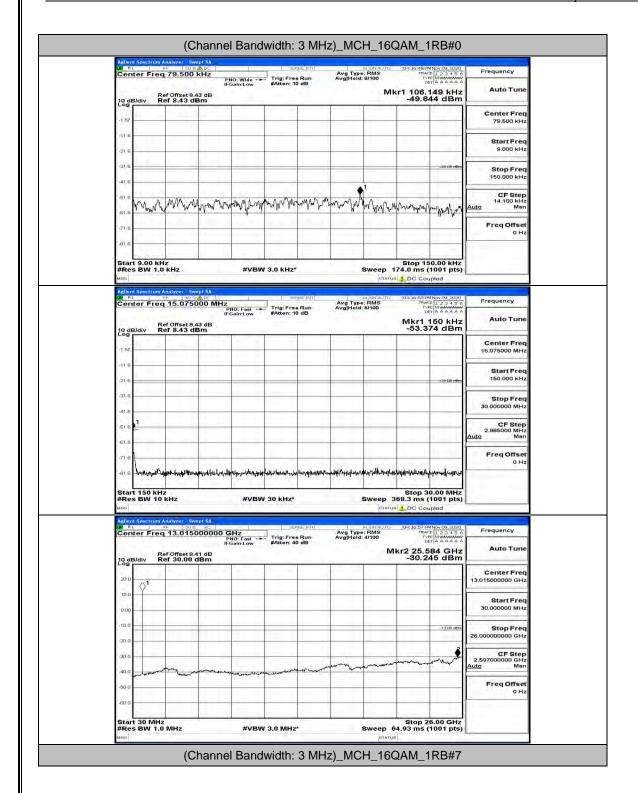




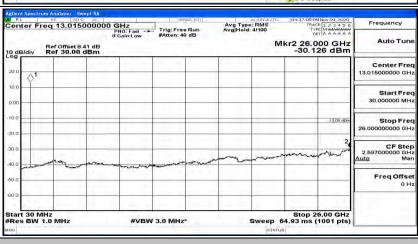






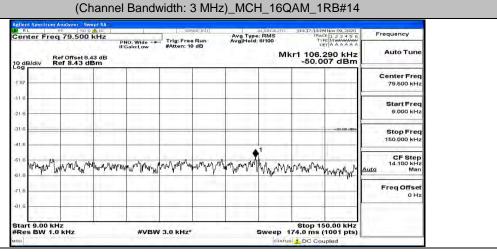


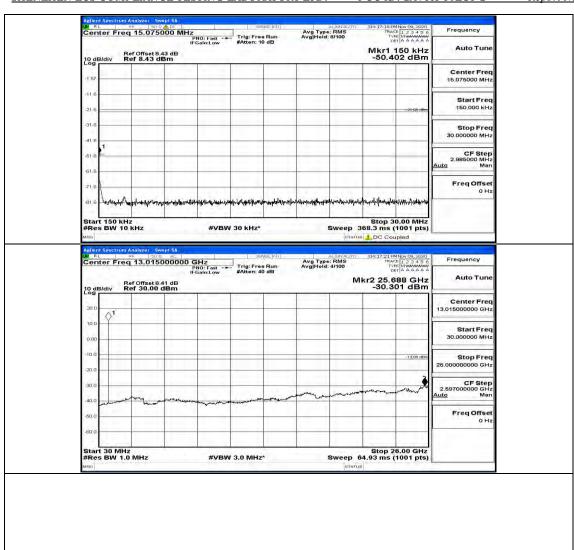
Stop 30.00 MHz Sweep 368.3 ms (1001 pts)

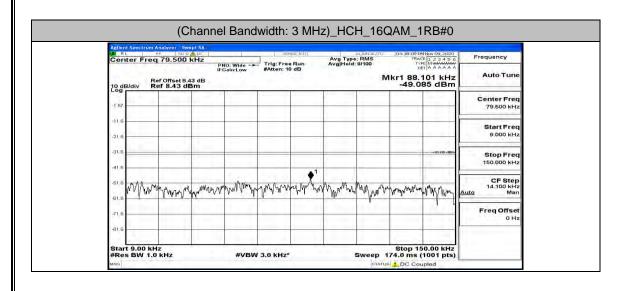


#VBW 30 kHz*

Start 150 kHz #Res BW 10 kHz







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Channel Bandwidth: 5 MHz

