

LAT 16QAM EIRP POWER FOR LTE BAND 25 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | |
|--|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Test Equipment: Receiving: Horn T344, and Chamber D SMA Cables Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.855 | 16.7 | V | 0.98 | 7.88 | 23.55 | 33.0 | -9.5 | |
| 1.855 | 19.2 | H | 0.98 | 7.88 | 26.05 | 33.0 | -7.0 | |
| Mid Ch | | | | | | | | |
| 1.883 | 16.2 | V | 0.98 | 7.86 | 23.09 | 33.0 | -9.9 | |
| 1.883 | 18.2 | H | 0.98 | 7.86 | 25.12 | 33.0 | -7.9 | |
| High Ch | | | | | | | | |
| 1.910 | 18.4 | V | 0.98 | 7.84 | 25.22 | 33.0 | -7.8 | |
| 1.910 | 19.0 | H | 0.98 | 7.84 | 25.82 | 33.0 | -7.2 | |

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LAT QPSK EIRP POWER FOR LTE BAND 25 (15.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | |
|--|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| <u>Test Equipment:</u> Receiving: Horn T344, and Chamber D SMA Cables Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.858 | 17.8 | V | 0.98 | 7.88 | 24.69 | 33.0 | -8.3 | |
| 1.858 | 20.0 | H | 0.98 | 7.88 | 26.86 | 33.0 | -6.1 | |
| Mid Ch | | | | | | | | |
| 1.883 | 17.3 | V | 0.98 | 7.86 | 24.15 | 33.0 | -8.9 | |
| 1.883 | 19.2 | H | 0.98 | 7.86 | 26.06 | 33.0 | -6.9 | |
| High Ch | | | | | | | | |
| 1.908 | 18.9 | V | 0.98 | 7.84 | 25.77 | 33.0 | -7.2 | |
| 1.908 | 19.8 | H | 0.98 | 7.84 | 26.65 | 33.0 | -6.4 | |
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LAT 16QAM EIRP POWER FOR LTE BAND 25 (15.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | |
|--|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Test Equipment: Receiving: Horn T344, and Chamber D SMA Cables Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.858 | 16.7 | V | 0.98 | 7.88 | 23.58 | 33.0 | -9.4 | |
| 1.858 | 18.9 | H | 0.98 | 7.88 | 25.82 | 33.0 | -7.2 | |
| Mid Ch | | | | | | | | |
| 1.883 | 16.1 | V | 0.98 | 7.86 | 23.02 | 33.0 | -10.0 | |
| 1.883 | 18.1 | H | 0.98 | 7.86 | 24.95 | 33.0 | -8.1 | |
| High Ch | | | | | | | | |
| 1.908 | 17.9 | V | 0.98 | 7.84 | 24.73 | 33.0 | -8.3 | |
| 1.908 | 18.7 | H | 0.98 | 7.84 | 25.60 | 33.0 | -7.4 | |

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LAT QPSK EIRP POWER FOR LTE BAND 25 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | |
|--|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Test Equipment: Receiving: Horn T344, and Chamber D SMA Cables Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.860 | 18.1 | V | 0.98 | 7.88 | 24.96 | 33.0 | -8.0 | |
| 1.860 | 19.9 | H | 0.98 | 7.88 | 26.84 | 33.0 | -6.2 | |
| Mid Ch | | | | | | | | |
| 1.883 | 17.2 | V | 0.98 | 7.86 | 24.09 | 33.0 | -8.9 | |
| 1.883 | 19.3 | H | 0.98 | 7.86 | 26.13 | 33.0 | -6.9 | |
| High Ch | | | | | | | | |
| 1.905 | 19.3 | V | 0.98 | 7.84 | 26.11 | 33.0 | -6.9 | |
| 1.905 | 19.9 | H | 0.98 | 7.84 | 26.72 | 33.0 | -6.3 | |

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LAT 16QAM EIRP POWER FOR LTE BAND 25 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | |
|--|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Test Equipment: Receiving: Horn T344, and Chamber D SMA Cables Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.860 | 17.0 | V | 0.98 | 7.88 | 23.91 | 33.0 | -9.1 | |
| 1.860 | 19.0 | H | 0.98 | 7.88 | 25.86 | 33.0 | -7.1 | |
| Mid Ch | | | | | | | | |
| 1.883 | 16.1 | V | 0.98 | 7.86 | 23.02 | 33.0 | -10.0 | |
| 1.883 | 18.2 | H | 0.98 | 7.86 | 25.08 | 33.0 | -7.9 | |
| High Ch | | | | | | | | |
| 1.905 | 18.3 | V | 0.98 | 7.84 | 25.13 | 33.0 | -7.9 | |
| 1.905 | 18.9 | H | 0.98 | 7.84 | 25.73 | 33.0 | -7.3 | |

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UAT QPSK EIRP POWER FOR LTE BAND 25 (1.4MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|----------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/24/14 | | | | | | | | | | | | | | | |
| Test Engineer: | R.Z | | | | | | | | | | | | | | | |
| Configuration: | EUT only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 25 QPSK 1.4MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 1.851 | 14.6 | V | 0.98 | 7.88 | 21.51 | 33.0 | -11.5 | | | | | | | | | |
| 1.851 | 16.2 | H | 0.98 | 7.88 | 23.05 | 33.0 | -10.0 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 1.883 | 15.0 | V | 0.98 | 7.86 | 21.84 | 33.0 | -11.2 | | | | | | | | | |
| 1.883 | 15.0 | H | 0.98 | 7.86 | 21.85 | 33.0 | -11.2 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 1.914 | 13.9 | V | 0.98 | 7.84 | 20.78 | 33.0 | -12.2 | | | | | | | | | |
| 1.914 | 15.9 | H | 0.98 | 7.84 | 22.79 | 33.0 | -10.2 | | | | | | | | | |
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UAT 16QAM EIRP POWER FOR LTE BAND 25 (1.4MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|-----------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/24/14 | | | | | | | | | | | | | | | |
| Test Engineer: | R.Z | | | | | | | | | | | | | | | |
| Configuration: | EUT only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 25 16QAM 1.4MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 1.851 | 13.7 | V | 0.98 | 7.88 | 20.64 | 33.0 | -12.4 | | | | | | | | | |
| 1.851 | 15.3 | H | 0.98 | 7.88 | 22.18 | 33.0 | -10.8 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 1.883 | 14.1 | V | 0.98 | 7.86 | 20.97 | 33.0 | -12.0 | | | | | | | | | |
| 1.883 | 14.1 | H | 0.98 | 7.86 | 20.98 | 33.0 | -12.0 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 1.914 | 13.1 | V | 0.98 | 7.84 | 19.91 | 33.0 | -13.1 | | | | | | | | | |
| 1.914 | 15.1 | H | 0.98 | 7.84 | 21.92 | 33.0 | -11.1 | | | | | | | | | |
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UAT QPSK EIRP POWER FOR LTE BAND 25 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | |
|--|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| 15.1 | V | 0.98 | 7.88 | 21.95 | 33.0 | -11.1 | |
| 16.1 | H | 0.98 | 7.88 | 22.98 | 33.0 | -10.0 | |
| | | | | | | | |
| 14.9 | V | 0.98 | 7.86 | 21.76 | 33.0 | -11.2 | |
| 15.3 | H | 0.98 | 7.86 | 22.17 | 33.0 | -10.8 | |
| | | | | | | | |
| 15.5 | V | 0.98 | 7.84 | 22.40 | 33.0 | -10.6 | |
| 16.2 | H | 0.98 | 7.84 | 23.07 | 33.0 | -9.9 | |
| | | | | | | | |

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UAT 16QAM EIRP POWER FOR LTE BAND 25 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|---------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/24/14 | | | | | | | | | | | | | | | |
| Test Engineer: | R.Z | | | | | | | | | | | | | | | |
| Configuration: | EUT only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 25 16QAM 3MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 1.852 | 14.0 | V | 0.98 | 7.88 | 20.91 | 33.0 | -12.1 | | | | | | | | | |
| 1.852 | 15.0 | H | 0.98 | 7.88 | 21.94 | 33.0 | -11.1 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 1.883 | 13.8 | V | 0.98 | 7.86 | 20.72 | 33.0 | -12.3 | | | | | | | | | |
| 1.883 | 14.3 | H | 0.98 | 7.86 | 21.13 | 33.0 | -11.9 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 1.914 | 14.5 | V | 0.98 | 7.84 | 21.36 | 33.0 | -11.6 | | | | | | | | | |
| 1.914 | 15.2 | H | 0.98 | 7.84 | 22.03 | 33.0 | -11.0 | | | | | | | | | |
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UAT QPSK EIRP POWER FOR LTE BAND 25 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | |
|--|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Test Equipment: Receiving: Horn T344, and Chamber D SMA Cables Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.853 | 15.6 | V | 0.98 | 7.88 | 22.52 | 33.0 | -10.5 | |
| 1.853 | 16.3 | H | 0.98 | 7.88 | 23.18 | 33.0 | -9.8 | |
| Mid Ch | | | | | | | | |
| 1.883 | 15.0 | V | 0.98 | 7.86 | 21.87 | 33.0 | -11.1 | |
| 1.883 | 15.1 | H | 0.98 | 7.86 | 21.98 | 33.0 | -11.0 | |
| High Ch | | | | | | | | |
| 1.913 | 15.2 | V | 0.98 | 7.84 | 22.01 | 33.0 | -11.0 | |
| 1.913 | 15.7 | H | 0.98 | 7.84 | 22.58 | 33.0 | -10.4 | |

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UAT 16QAM EIRP POWER FOR LTE BAND 25 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|---------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/24/14 | | | | | | | | | | | | | | | |
| Test Engineer: | R.Z | | | | | | | | | | | | | | | |
| Configuration: | EUT only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 25 16QAM 5MHz BW | | | | | | | | | | | | | | | |
| Test Equipment: | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 1.853 | 14.9 | V | 0.98 | 7.88 | 21.82 | 33.0 | -11.2 | | | | | | | | | |
| 1.853 | 15.6 | H | 0.98 | 7.88 | 22.48 | 33.0 | -10.5 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 1.883 | 14.3 | V | 0.98 | 7.86 | 21.17 | 33.0 | -11.8 | | | | | | | | | |
| 1.883 | 14.4 | H | 0.98 | 7.86 | 21.28 | 33.0 | -11.7 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 1.913 | 14.5 | V | 0.98 | 7.84 | 21.31 | 33.0 | -11.7 | | | | | | | | | |
| 1.913 | 15.0 | H | 0.98 | 7.84 | 21.88 | 33.0 | -11.1 | | | | | | | | | |
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UAT QPSK EIRP POWER FOR LTE BAND 25 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | |
|--|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| 15.4 | V | 0.98 | 7.88 | 22.25 | 33.0 | -10.8 | |
| 16.2 | H | 0.98 | 7.88 | 23.14 | 33.0 | -9.9 | |
| | | | | | | | |
| 14.8 | V | 0.98 | 7.86 | 21.69 | 33.0 | -11.3 | |
| 15.0 | H | 0.98 | 7.86 | 21.88 | 33.0 | -11.1 | |
| | | | | | | | |
| 15.1 | V | 0.98 | 7.84 | 21.93 | 33.0 | -11.1 | |
| 15.4 | H | 0.98 | 7.84 | 22.28 | 33.0 | -10.7 | |
| | | | | | | | |

UAT 16QAM EIRP POWER FOR LTE BAND 25 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | |
|--|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Test Equipment: Receiving: Horn T344, and Chamber D SMA Cables Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.855 | 14.2 | V | 0.98 | 7.88 | 21.09 | 33.0 | -11.9 | |
| 1.855 | 15.1 | H | 0.98 | 7.88 | 21.98 | 33.0 | -11.0 | |
| Mid Ch | | | | | | | | |
| 1.883 | 13.7 | V | 0.98 | 7.86 | 20.53 | 33.0 | -12.5 | |
| 1.883 | 13.8 | H | 0.98 | 7.86 | 20.72 | 33.0 | -12.3 | |
| High Ch | | | | | | | | |
| 1.910 | 13.9 | V | 0.98 | 7.84 | 20.77 | 33.0 | -12.2 | |
| 1.910 | 14.3 | H | 0.98 | 7.84 | 21.12 | 33.0 | -11.9 | |

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| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | |
|--|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| <u>Test Equipment:</u> Receiving: Horn T344, and Chamber D SMA Cables Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.858 | 15.7 | V | 0.98 | 7.88 | 22.56 | 33.0 | -10.4 | |
| 1.858 | 16.2 | H | 0.98 | 7.88 | 23.11 | 33.0 | -9.9 | |
| Mid Ch | | | | | | | | |
| 1.883 | 15.2 | V | 0.98 | 7.86 | 22.10 | 33.0 | -10.9 | |
| 1.883 | 15.6 | H | 0.98 | 7.86 | 22.48 | 33.0 | -10.5 | |
| High Ch | | | | | | | | |
| 1.908 | 15.5 | V | 0.98 | 7.84 | 22.39 | 33.0 | -10.6 | |
| 1.908 | 15.8 | H | 0.98 | 7.84 | 22.65 | 33.0 | -10.4 | |
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| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | |
|--|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Test Equipment: Receiving: Horn T344, and Chamber D SMA Cables Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.858 | 14.5 | V | 0.98 | 7.88 | 21.41 | 33.0 | -11.6 | |
| 1.858 | 15.1 | H | 0.98 | 7.88 | 21.96 | 33.0 | -11.0 | |
| Mid Ch | | | | | | | | |
| 1.883 | 14.1 | V | 0.98 | 7.86 | 20.95 | 33.0 | -12.1 | |
| 1.883 | 14.5 | H | 0.98 | 7.86 | 21.33 | 33.0 | -11.7 | |
| High Ch | | | | | | | | |
| 1.908 | 14.4 | V | 0.98 | 7.84 | 21.24 | 33.0 | -11.8 | |
| 1.908 | 14.6 | H | 0.98 | 7.84 | 21.50 | 33.0 | -11.5 | |

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UAT QPSK EIRP POWER FOR LTE BAND 25 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | |
|--|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Test Equipment: Receiving: Horn T344, and Chamber D SMA Cables Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.860 | 15.8 | V | 0.98 | 7.88 | 22.74 | 33.0 | -10.3 | |
| 1.860 | 15.9 | H | 0.98 | 7.88 | 22.84 | 33.0 | -10.2 | |
| Mid Ch | | | | | | | | |
| 1.883 | 15.8 | V | 0.98 | 7.86 | 22.63 | 33.0 | -10.4 | |
| 1.883 | 16.2 | H | 0.98 | 7.86 | 23.04 | 33.0 | -10.0 | |
| High Ch | | | | | | | | |
| 1.905 | 15.9 | V | 0.98 | 7.84 | 22.77 | 33.0 | -10.2 | |
| 1.905 | 15.9 | H | 0.98 | 7.84 | 22.78 | 33.0 | -10.2 | |

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UAT 16QAM EIRP POWER FOR LTE BAND 25 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|----------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/24/14 | | | | | | | | | | | | | | | |
| Test Engineer: | R.Z | | | | | | | | | | | | | | | |
| Configuration: | EUT only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 25 16QAM 20MHz BW | | | | | | | | | | | | | | | |
| Test Equipment: | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 1.860 | 14.7 | V | 0.98 | 7.88 | 21.59 | 33.0 | -11.4 | | | | | | | | | |
| 1.860 | 14.8 | H | 0.98 | 7.88 | 21.69 | 33.0 | -11.3 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 1.883 | 14.6 | V | 0.98 | 7.86 | 21.48 | 33.0 | -11.5 | | | | | | | | | |
| 1.883 | 15.0 | H | 0.98 | 7.86 | 21.89 | 33.0 | -11.1 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 1.905 | 14.8 | V | 0.98 | 7.84 | 21.62 | 33.0 | -11.4 | | | | | | | | | |
| 1.905 | 14.8 | H | 0.98 | 7.84 | 21.63 | 33.0 | -11.4 | | | | | | | | | |

Rev. 06.18.14

9.1.7. LTE BAND 26

LAT QPSK EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------|--------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|--|--|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | | | | | |
| Date: | 06/24/14 | | | | | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | | | | | |
| Mode: | LTE Band 26 QPSK 3MHz BW | | | | | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | | | | | |
| Receiving: Sunol T407, and Chamber D Cable | | | | | | | | | | | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, and 8ft SMA Cable | | | | | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes | | | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | | | | | |
| 820.30 | 11.50 | V | 0.62 | 0.0 | 10.88 | 13.03 | 38.45 | 40.60 | -27.6 | | | | | | | | | | | |
| 820.30 | 19.14 | H | 0.62 | 0.0 | 18.52 | 20.67 | 38.45 | 40.60 | -19.9 | | | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | | | | | |
| 821.30 | 11.88 | V | 0.62 | 0.0 | 11.26 | 13.41 | 38.45 | 40.60 | -27.2 | | | | | | | | | | | |
| 821.30 | 19.47 | H | 0.62 | 0.0 | 18.85 | 21.00 | 38.45 | 40.60 | -19.6 | | | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | | | | | |
| 822.30 | 11.95 | V | 0.62 | 0.0 | 11.33 | 13.48 | 38.45 | 40.60 | -27.1 | | | | | | | | | | | |
| 822.30 | 19.28 | H | 0.62 | 0.0 | 18.66 | 20.81 | 38.45 | 40.60 | -19.8 | | | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | | | | | |

LAT 16QAM EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------|--------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|--|--|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | | | | | |
| Date: | 06/24/14 | | | | | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | | | | | |
| Mode: | LTE Band 26 16QAM 3MHz BW | | | | | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | | | | | |
| Receiving: Sunol T407, and Chamber D Cable | | | | | | | | | | | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, and 8ft SMA Cable | | | | | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes | | | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | | | | | |
| 820.30 | 10.54 | V | 0.62 | 0.0 | 9.92 | 12.07 | 38.45 | 40.60 | -28.5 | | | | | | | | | | | |
| 820.30 | 18.25 | H | 0.62 | 0.0 | 17.63 | 19.78 | 38.45 | 40.60 | -20.8 | | | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | | | | | |
| 821.30 | 10.87 | V | 0.62 | 0.0 | 10.25 | 12.40 | 38.45 | 40.60 | -28.2 | | | | | | | | | | | |
| 821.30 | 18.55 | H | 0.62 | 0.0 | 17.93 | 20.08 | 38.45 | 40.60 | -20.5 | | | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | | | | | |
| 822.30 | 10.96 | V | 0.62 | 0.0 | 10.34 | 12.49 | 38.45 | 40.60 | -28.1 | | | | | | | | | | | |
| 822.30 | 18.52 | H | 0.62 | 0.0 | 17.90 | 20.05 | 38.45 | 40.60 | -20.6 | | | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | | | | | |

LAT QPSK EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | |
|--|---------------------|--------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: 14U17676 Date: 06/24/14 Test Engineer: M. Hua Configuration: EUT Only Mode: LTE Band 26 QPSK 5MHz BW | | | | | | | | | | |
| Test Equipment: Receiving: Sunol T407, and Chamber D Cable Substitution: Dipole S/N: 00022117, and 8ft SMA Cable | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Mid Ch | | | | | | | | | | |
| 821.30 | 12.06 | V | 0.62 | 0.0 | 11.44 | 13.59 | 38.45 | 40.60 | -27.0 | |
| 821.30 | 19.62 | H | 0.62 | 0.0 | 19.00 | 21.15 | 38.45 | 40.60 | -19.5 | |

Rev. 06.18.14

LAT 16QAM EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U17676 | | | | | | | | |
| Date: | | 06/24/14 | | | | | | | | |
| Test Engineer: | | M. Hua | | | | | | | | |
| Configuration: | | EUT Only | | | | | | | | |
| Mode: | | LTE Band 26 16QAM 5MHz BW | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | |
| Receiving: Sunol T407, and Chamber D Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, and 8ft SMA Cable | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Mid Ch | | | | | | | | | | |
| 821.30 | 11.16 | V | 0.62 | 0.0 | 10.54 | 12.69 | 38.45 | 40.60 | -27.9 | |
| 821.30 | 18.72 | H | 0.62 | 0.0 | 18.10 | 20.25 | 38.45 | 40.60 | -20.4 | |

Rev. 06.18.14

LAT QPSK EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | | | | | | | | | |
|---|---------------------------|--------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | | | |
| Date: | 6/20/2014 | | | | | | | | | | | | | | | | | |
| Test Engineer: | Macie | | | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | | | |
| Mode: | LTE Band 26 QPSK 10MHz BW | | | | | | | | | | | | | | | | | |
| <u>Test Equipment</u> | | | | | | | | | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | | | |
| 819.00 | 12.63 | V | 0.62 | 0.0 | 12.01 | 14.16 | 38.45 | 40.60 | -26.4 | | | | | | | | | |
| 819.00 | 19.17 | H | 0.62 | 0.0 | 18.55 | 20.70 | 38.45 | 40.60 | -19.9 | | | | | | | | | |
| Rev. 10.24.13 | | | | | | | | | | | | | | | | | | |

LAT 16QAM EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|----------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U17676 | | | | | | | | |
| Date: | | 6/20/2014 | | | | | | | | |
| Test Engineer: | | Macie | | | | | | | | |
| Configuration: | | EUT Only | | | | | | | | |
| Mode: | | LTE Band 26 16QAM 10MHz BW | | | | | | | | |
| Test Equipment: Receiving: Sunol T408, and Chamber E Cable Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 819.00 | 11.80 | V | 0.62 | 0.0 | 11.18 | 13.33 | 38.45 | 40.60 | -27.3 | |
| 819.00 | 18.59 | H | 0.62 | 0.0 | 17.97 | 20.12 | 38.45 | 40.60 | -20.5 | |

Rev. 10.24.13

UAT QPSK EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | |
|---|---------------------|--------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| <u>Test Equipment:</u> Receiving: Sunol T407, and Chamber D Cable Substitution: Dipole S/N: 00022117, and 8ft SMA Cable | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 820.30 | 14.12 | V | 0.62 | 0.0 | 13.50 | 15.65 | 38.45 | 40.60 | -25.0 | |
| 820.30 | 17.17 | H | 0.62 | 0.0 | 16.55 | 18.70 | 38.45 | 40.60 | -21.9 | |
| Mid Ch | | | | | | | | | | |
| 821.30 | 14.49 | V | 0.62 | 0.0 | 13.87 | 16.02 | 38.45 | 40.60 | -24.6 | |
| 821.30 | 17.23 | H | 0.62 | 0.0 | 16.61 | 18.76 | 38.45 | 40.60 | -21.8 | |
| High Ch | | | | | | | | | | |
| 822.30 | 14.67 | V | 0.62 | 0.0 | 14.05 | 16.20 | 38.45 | 40.60 | -24.4 | |
| 822.30 | 17.34 | H | 0.62 | 0.0 | 16.72 | 18.87 | 38.45 | 40.60 | -21.7 | |
| Rev. 06.18.14 | | | | | | | | | | |

UAT 16QAM EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------|--------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|--|--|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | | | | | |
| Date: | 06/24/14 | | | | | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | | | | | |
| Mode: | LTE Band 26 16QAM 3MHz BW | | | | | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | | | | | |
| Receiving: Sunol T407, and Chamber D Cable | | | | | | | | | | | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, and 8ft SMA Cable | | | | | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes | | | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | | | | | |
| 820.30 | 12.92 | V | 0.62 | 0.0 | 12.30 | 14.45 | 38.45 | 40.60 | -26.2 | | | | | | | | | | | |
| 820.30 | 15.92 | H | 0.62 | 0.0 | 15.30 | 17.45 | 38.45 | 40.60 | -23.2 | | | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | | | | | |
| 821.30 | 13.24 | V | 0.62 | 0.0 | 12.62 | 14.77 | 38.45 | 40.60 | -25.8 | | | | | | | | | | | |
| 821.30 | 16.08 | H | 0.62 | 0.0 | 15.46 | 17.61 | 38.45 | 40.60 | -23.0 | | | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | | | | | |
| 822.30 | 13.37 | V | 0.62 | 0.0 | 12.75 | 14.90 | 38.45 | 40.60 | -25.7 | | | | | | | | | | | |
| 822.30 | 16.12 | H | 0.62 | 0.0 | 15.50 | 17.65 | 38.45 | 40.60 | -23.0 | | | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | | | | | |

UAT QPSK EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | |
|--|---------------------|--------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: 14U17676 Date: 06/24/14 Test Engineer: M. Hua Configuration: EUT Only Mode: LTE Band 26 QPSK 5MHz BW | | | | | | | | | | |
| Test Equipment: Receiving: Sunol T407, and Chamber D Cable Substitution: Dipole S/N: 00022117, and 8ft SMA Cable | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Mid Ch | | | | | | | | | | |
| 821.30 | 14.45 | V | 0.62 | 0.0 | 13.83 | 15.98 | 38.45 | 40.60 | -24.6 | |
| 821.30 | 17.31 | H | 0.62 | 0.0 | 16.69 | 18.84 | 38.45 | 40.60 | -21.8 | |

Rev. 06.18.14

UAT 16QAM EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | |
|---|---------------------|--------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Test Equipment: Receiving: Sunol T407, and Chamber D Cable Substitution: Dipole S/N: 00022117, and 8ft SMA Cable | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Mid Ch | | | | | | | | | | |
| 821.30 | 13.71 | V | 0.62 | 0.0 | 13.09 | 15.24 | 38.45 | 40.60 | -25.4 | |
| 821.30 | 16.48 | H | 0.62 | 0.0 | 15.86 | 18.01 | 38.45 | 40.60 | -22.6 | |

Rev. 06.18.14

UAT QPSK EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | | | | | | | | | |
|---|---------------------------|--------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | | | |
| Date: | 6/20/2014 | | | | | | | | | | | | | | | | | |
| Test Engineer: | Macie | | | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | | | |
| Mode: | LTE Band 26 QPSK 10MHz BW | | | | | | | | | | | | | | | | | |
| Test Equipment: | | | | | | | | | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | | | |
| 819.00 | 15.25 | V | 0.62 | 0.0 | 14.63 | 16.78 | 38.45 | 40.60 | -23.8 | | | | | | | | | |
| 819.00 | 17.59 | H | 0.62 | 0.0 | 16.97 | 19.12 | 38.45 | 40.60 | -21.5 | | | | | | | | | |
| Rev. 10 24 13 | | | | | | | | | | | | | | | | | | |

UAT 16QAM EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|----------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U17676 | | | | | | | | |
| Date: | | 6/20/2014 | | | | | | | | |
| Test Engineer: | | Macie | | | | | | | | |
| Configuration: | | EUT Only | | | | | | | | |
| Mode: | | LTE Band 26 16QAM 10MHz BW | | | | | | | | |
| Test Equipment: Receiving: Sunol T408, and Chamber E Cable Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 819.00 | 15.33 | V | 0.62 | 0.0 | 14.71 | 16.86 | 38.45 | 40.60 | -23.7 | |
| 819.00 | 16.54 | H | 0.62 | 0.0 | 15.92 | 18.07 | 38.45 | 40.60 | -22.5 | |

Rev. 10.24.13

9.1.8. LTE BAND 41

LAT QPSK EIRP POWER FOR LTE BAND 41 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | |
|--|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Test Equipment: Receiving: Horn T344, and Chamber D SMA Cables Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 2.499 | 18.0 | V | 1.15 | 9.47 | 26.32 | 33.0 | -6.7 | |
| 2.499 | 23.3 | H | 1.15 | 9.47 | 31.65 | 33.0 | -1.3 | |
| Mid Ch | | | | | | | | |
| 2.593 | 17.0 | V | 1.16 | 9.51 | 25.31 | 33.0 | -7.7 | |
| 2.593 | 22.3 | H | 1.16 | 9.51 | 30.65 | 33.0 | -2.4 | |
| High Ch | | | | | | | | |
| 2.688 | 16.3 | V | 1.17 | 9.54 | 24.63 | 33.0 | -8.4 | |
| 2.688 | 20.1 | H | 1.17 | 9.54 | 28.47 | 33.0 | -4.5 | |
| Rev. 06.18.14 | | | | | | | | |

LAT 16QAM EIRP POWER FOR LTE BAND 41 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|---------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/25/14 | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 41 16QAM 5MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 2.499 | 17.7 | V | 1.15 | 9.47 | 26.04 | 33.0 | -7.0 | | | | | | | | | |
| 2.499 | 23.0 | H | 1.15 | 9.47 | 31.28 | 33.0 | -1.7 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 2.593 | 17.0 | V | 1.16 | 9.51 | 25.35 | 33.0 | -7.7 | | | | | | | | | |
| 2.593 | 22.0 | H | 1.16 | 9.51 | 30.35 | 33.0 | -2.7 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 2.688 | 16.1 | V | 1.17 | 9.54 | 24.48 | 33.0 | -8.5 | | | | | | | | | |
| 2.688 | 20.0 | H | 1.17 | 9.54 | 28.34 | 33.0 | -4.7 | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | |

LAT QPSK EIRP POWER FOR LTE BAND 41 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|---------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/25/14 | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 41 QPSK 10MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 2.501 | 18.6 | V | 1.15 | 9.47 | 26.92 | 33.0 | -6.1 | | | | | | | | | |
| 2.501 | 23.7 | H | 1.15 | 9.47 | 31.97 | 33.0 | -1.0 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 2.593 | 17.4 | V | 1.16 | 9.51 | 25.76 | 33.0 | -7.2 | | | | | | | | | |
| 2.593 | 22.7 | H | 1.16 | 9.51 | 31.06 | 33.0 | -1.9 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 2.685 | 16.9 | V | 1.17 | 9.54 | 25.29 | 33.0 | -7.7 | | | | | | | | | |
| 2.685 | 20.1 | H | 1.17 | 9.54 | 28.45 | 33.0 | -4.6 | | | | | | | | | |

Rev. 06.18.14

LAT 16QAM EIRP POWER FOR LTE BAND 41 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|----------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/25/14 | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 41 16QAM 10MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 2.501 | 18.2 | V | 1.15 | 9.47 | 26.52 | 33.0 | -6.5 | | | | | | | | | |
| 2.501 | 23.2 | H | 1.15 | 9.47 | 31.48 | 33.0 | -1.5 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 2.593 | 16.9 | V | 1.16 | 9.51 | 25.26 | 33.0 | -7.7 | | | | | | | | | |
| 2.593 | 22.3 | H | 1.16 | 9.51 | 30.64 | 33.0 | -2.4 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 2.685 | 16.4 | V | 1.17 | 9.54 | 24.81 | 33.0 | -8.2 | | | | | | | | | |
| 2.685 | 19.6 | H | 1.17 | 9.54 | 28.00 | 33.0 | -5.0 | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | |

LAT QPSK EIRP POWER FOR LTE BAND 41 (15.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|---------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/25/14 | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 41 QPSK 15MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 2.504 | 18.4 | V | 1.15 | 9.47 | 26.73 | 33.0 | -6.3 | | | | | | | | | |
| 2.504 | 23.7 | H | 1.15 | 9.47 | 32.00 | 33.0 | -1.0 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 2.593 | 17.2 | V | 1.16 | 9.51 | 25.58 | 33.0 | -7.4 | | | | | | | | | |
| 2.593 | 22.4 | H | 1.16 | 9.51 | 30.71 | 33.0 | -2.3 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 2.683 | 17.1 | V | 1.17 | 9.54 | 25.44 | 33.0 | -7.6 | | | | | | | | | |
| 2.683 | 19.9 | H | 1.17 | 9.54 | 28.30 | 33.0 | -4.7 | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | |

LAT 16QAM EIRP POWER FOR LTE BAND 41 (15.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|----------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/25/14 | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 41 16QAM 15MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 2.504 | 17.8 | V | 1.15 | 9.47 | 26.09 | 33.0 | -6.9 | | | | | | | | | |
| 2.504 | 23.2 | H | 1.15 | 9.47 | 31.55 | 33.0 | -1.5 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 2.593 | 16.7 | V | 1.16 | 9.51 | 25.09 | 33.0 | -7.9 | | | | | | | | | |
| 2.593 | 21.9 | H | 1.16 | 9.51 | 30.29 | 33.0 | -2.7 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 2.683 | 16.6 | V | 1.17 | 9.54 | 24.98 | 33.0 | -8.0 | | | | | | | | | |
| 2.683 | 19.5 | H | 1.17 | 9.54 | 27.85 | 33.0 | -5.2 | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | |

LAT QPSK EIRP POWER FOR LTE BAND 41 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|---------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/25/14 | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 41 QPSK 20MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 2.506 | 17.4 | V | 1.15 | 9.47 | 25.70 | 33.0 | -7.3 | | | | | | | | | |
| 2.506 | 23.5 | H | 1.15 | 9.47 | 31.86 | 33.0 | -1.1 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 2.593 | 16.7 | V | 1.16 | 9.51 | 25.00 | 33.0 | -8.0 | | | | | | | | | |
| 2.593 | 22.0 | H | 1.16 | 9.51 | 30.39 | 33.0 | -2.6 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 2.680 | 16.4 | V | 1.17 | 9.54 | 24.74 | 33.0 | -8.3 | | | | | | | | | |
| 2.680 | 19.8 | H | 1.17 | 9.54 | 28.18 | 33.0 | -4.8 | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | |

LAT 16QAM EIRP POWER FOR LTE BAND 41 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|----------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/25/14 | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 41 16QAM 20MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 2.506 | 16.1 | V | 1.15 | 9.47 | 24.38 | 33.0 | 8.6 | | | | | | | | | |
| 2.506 | 22.2 | H | 1.15 | 9.47 | 30.55 | 33.0 | -2.5 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 2.593 | 15.6 | V | 1.16 | 9.51 | 23.95 | 33.0 | -9.1 | | | | | | | | | |
| 2.593 | 20.9 | H | 1.16 | 9.51 | 29.21 | 33.0 | -3.8 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 2.680 | 15.4 | V | 1.17 | 9.54 | 23.73 | 33.0 | -9.3 | | | | | | | | | |
| 2.680 | 18.5 | H | 1.17 | 9.54 | 26.88 | 33.0 | -6.1 | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | |

UAT QPSK EIRP POWER FOR LTE BAND 41 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|--------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/25/14 | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 41 QPSK 5MHz BW | | | | | | | | | | | | | | | |
| Test Equipment: | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 2.499 | 6.7 | V | 1.15 | 9.47 | 14.98 | 33.0 | -18.0 | | | | | | | | | |
| 2.499 | 19.8 | H | 1.15 | 9.47 | 28.10 | 33.0 | -4.9 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 2.593 | 10.0 | V | 1.16 | 9.51 | 18.30 | 33.0 | -14.7 | | | | | | | | | |
| 2.593 | 19.4 | H | 1.16 | 9.51 | 27.77 | 33.0 | -5.2 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 2.688 | 9.8 | V | 1.17 | 9.54 | 18.12 | 33.0 | -14.9 | | | | | | | | | |
| 2.688 | 20.7 | H | 1.17 | 9.54 | 29.04 | 33.0 | -4.0 | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | |

UAT 16QAM EIRP POWER FOR LTE BAND 41 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|---------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/25/14 | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 41 16QAM 5MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 2.499 | 6.5 | V | 1.15 | 9.47 | 14.77 | 33.0 | -18.2 | | | | | | | | | |
| 2.499 | 19.7 | H | 1.15 | 9.47 | 27.97 | 33.0 | -5.0 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 2.593 | 9.8 | V | 1.16 | 9.51 | 18.10 | 33.0 | -14.9 | | | | | | | | | |
| 2.593 | 19.0 | H | 1.16 | 9.51 | 27.35 | 33.0 | -5.7 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 2.688 | 9.5 | V | 1.17 | 9.54 | 17.86 | 33.0 | -15.1 | | | | | | | | | |
| 2.688 | 20.5 | H | 1.17 | 9.54 | 28.82 | 33.0 | -4.2 | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | |

UAT QPSK EIRP POWER FOR LTE BAND 41 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|---------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/25/14 | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 41 QPSK 10MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 2.501 | 7.8 | V | 1.15 | 9.47 | 16.16 | 33.0 | -16.8 | | | | | | | | | |
| 2.501 | 20.6 | H | 1.15 | 9.47 | 28.91 | 33.0 | -4.1 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 2.593 | 10.7 | V | 1.16 | 9.51 | 19.09 | 33.0 | -13.9 | | | | | | | | | |
| 2.593 | 19.9 | H | 1.16 | 9.51 | 28.25 | 33.0 | -4.8 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 2.685 | 10.2 | V | 1.17 | 9.54 | 18.55 | 33.0 | -14.5 | | | | | | | | | |
| 2.685 | 21.2 | H | 1.17 | 9.54 | 29.58 | 33.0 | -3.4 | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | |

UAT 16QAM EIRP POWER FOR LTE BAND 41 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|----------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/25/14 | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 41 16QAM 10MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 2.501 | 7.4 | V | 1.15 | 9.47 | 15.67 | 33.0 | -17.3 | | | | | | | | | |
| 2.501 | 20.3 | H | 1.15 | 9.47 | 28.59 | 33.0 | -4.4 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 2.593 | 10.2 | V | 1.16 | 9.51 | 18.50 | 33.0 | -14.5 | | | | | | | | | |
| 2.593 | 19.4 | H | 1.16 | 9.51 | 27.78 | 33.0 | -5.2 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 2.685 | 10.2 | V | 1.17 | 9.54 | 18.60 | 33.0 | -14.4 | | | | | | | | | |
| 2.685 | 20.6 | H | 1.17 | 9.54 | 29.01 | 33.0 | -4.0 | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | |

UAT QPSK EIRP POWER FOR LTE BAND 41 (15.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|---------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/25/14 | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 41 QPSK 15MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 2.504 | 7.2 | V | 1.15 | 9.47 | 15.51 | 33.0 | -17.5 | | | | | | | | | |
| 2.504 | 20.7 | H | 1.15 | 9.47 | 28.97 | 33.0 | -4.0 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 2.593 | 8.8 | V | 1.16 | 9.51 | 17.18 | 33.0 | -15.8 | | | | | | | | | |
| 2.593 | 20.0 | H | 1.16 | 9.51 | 28.36 | 33.0 | -4.6 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 2.683 | 10.0 | V | 1.17 | 9.54 | 18.35 | 33.0 | -14.7 | | | | | | | | | |
| 2.683 | 21.2 | H | 1.17 | 9.54 | 29.57 | 33.0 | -3.4 | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | |

UAT 16QAM EIRP POWER FOR LTE BAND 41 (15.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|----------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/25/14 | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 41 16QAM 15MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 2.504 | 7.0 | V | 1.15 | 9.47 | 15.30 | 33.0 | -17.7 | | | | | | | | | |
| 2.504 | 20.6 | H | 1.15 | 9.47 | 28.91 | 33.0 | -4.1 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 2.593 | 8.9 | V | 1.16 | 9.51 | 17.21 | 33.0 | -15.8 | | | | | | | | | |
| 2.593 | 19.9 | H | 1.16 | 9.51 | 28.29 | 33.0 | -4.7 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 2.683 | 10.0 | V | 1.17 | 9.54 | 18.34 | 33.0 | -14.7 | | | | | | | | | |
| 2.683 | 20.9 | H | 1.17 | 9.54 | 29.28 | 33.0 | -3.7 | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | |

UAT QPSK EIRP POWER FOR LTE BAND 41 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|---------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/25/14 | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 41 QPSK 20MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 2.506 | 7.5 | V | 1.15 | 9.47 | 15.83 | 33.0 | -17.2 | | | | | | | | | |
| 2.506 | 21.2 | H | 1.15 | 9.47 | 29.48 | 33.0 | -3.5 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 2.593 | 9.3 | V | 1.16 | 9.51 | 17.68 | 33.0 | -15.3 | | | | | | | | | |
| 2.593 | 20.5 | H | 1.16 | 9.51 | 28.89 | 33.0 | -4.1 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 2.680 | 10.9 | V | 1.17 | 9.54 | 19.26 | 33.0 | -13.7 | | | | | | | | | |
| 2.680 | 21.5 | H | 1.17 | 9.54 | 29.84 | 33.0 | -3.2 | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | |

UAT 16QAM EIRP POWER FOR LTE BAND 41 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber D | | | | | | | | | | | | | | | | |
|--|----------------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|--|--|--|--|--|--|--|--|
| Project #: | 14U17676 | | | | | | | | | | | | | | | |
| Date: | 06/25/14 | | | | | | | | | | | | | | | |
| Test Engineer: | M. Hua | | | | | | | | | | | | | | | |
| Configuration: | EUT Only | | | | | | | | | | | | | | | |
| Mode: | LTE Band 41 16QAM 20MHz BW | | | | | | | | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | | | | | | | |
| Receiving: Horn T344, and Chamber D SMA Cables | | | | | | | | | | | | | | | | |
| Substitution: Horn T60 Substitution, and 8ft SMA Cable | | | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | |
| 2.506 | 7.2 | V | 1.15 | 9.47 | 15.49 | 33.0 | -17.5 | | | | | | | | | |
| 2.506 | 20.9 | H | 1.15 | 9.47 | 29.22 | 33.0 | -3.8 | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | |
| 2.593 | 9.1 | V | 1.16 | 9.51 | 17.47 | 33.0 | -15.5 | | | | | | | | | |
| 2.593 | 20.2 | H | 1.16 | 9.51 | 28.50 | 33.0 | -4.5 | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | |
| 2.680 | 10.9 | V | 1.17 | 9.54 | 19.25 | 33.0 | -13.8 | | | | | | | | | |
| 2.680 | 21.2 | H | 1.17 | 9.54 | 29.56 | 33.0 | -3.4 | | | | | | | | | |
| Rev. 06.18.14 | | | | | | | | | | | | | | | | |

9.2. PEAK-TO-AVERAGE RATIO

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB

Note: 0.0001% data on all mode were used for PAR as the worst case condition

9.2.1. LTE BAND 2

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|-------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 1.4 | 1733 | 29.12 | 24.01 | 5.11 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 1.4 | 1733 | 29.22 | 23.06 | 6.16 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|-------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 3.0 | 1733 | 29.25 | 24.09 | 5.16 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 3.0 | 1733 | 29 | 23.06 | 5.94 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|-------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 5.0 | 1733 | 29.04 | 23.98 | 5.06 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 5.0 | 1733 | 28.88 | 22.91 | 5.97 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 10 | 1733 | 29.04 | 24.06 | 4.98 |

| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
|-------|--------------------|---------|-----------------------|---------|-----------------------|
| | | | *Peak | Average | |
| 16QAM | 10 | 1733 | 28.88 | 23.04 | 5.84 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 15 | 1733 | 28.96 | 23.99 | 4.97 |

| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
|-------|--------------------|---------|-----------------------|---------|-----------------------|
| | | | *Peak | Average | |
| 16QAM | 15 | 1733 | 28.88 | 23.06 | 5.82 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 20 | 1733 | 28.98 | 23.8 | 5.18 |

| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
|-------|--------------------|---------|-----------------------|---------|-----------------------|
| | | | *Peak | Average | |
| 16QAM | 20 | 1733 | 28.76 | 22.82 | 5.94 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

9.2.2. LTE BAND 4

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 1.4 | 1733 | 28.98 | 23.87 | 5.11 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 1.4 | 1733 | 29.1 | 22.99 | 6.11 |
| <hr/> | | | | | |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | |

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 3.0 | 1733 | 29.11 | 24 | 5.11 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 3.0 | 1733 | 28.82 | 23 | 5.82 |
| <hr/> | | | | | |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | |

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 5.0 | 1733 | 28.86 | 23.85 | 5.01 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 5.0 | 1733 | 28.68 | 22.81 | 5.87 |
| <hr/> | | | | | |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | |

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 10 | 1733 | 28.86 | 23.99 | 4.87 |

| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
|-------|--------------------|---------|-----------------------|---------|-----------------------|
| | | | *Peak | Average | |
| 16QAM | 10 | 1733 | 28.66 | 22.98 | 5.68 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 15 | 1733 | 28.83 | 23.94 | 4.89 |

| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
|-------|--------------------|---------|-----------------------|---------|-----------------------|
| | | | *Peak | Average | |
| 16QAM | 15 | 1733 | 28.6 | 23 | 5.6 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 10 | 1733 | 28.6 | 23.78 | 4.82 |

| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
|-------|--------------------|---------|-----------------------|---------|-----------------------|
| | | | *Peak | Average | |
| 16QAM | 10 | 1733 | 28.28 | 22.78 | 5.5 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

9.2.3. LTE BAND 5

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 1.4 | 836.5 | 29.28 | 24.08 | 5.2 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 1.4 | 836.5 | 35.67 | 29.44 | 6.23 |
| <hr/> | | | | | |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | |

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 3.0 | 836.5 | 29.23 | 24 | 5.23 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 3.0 | 836.5 | 28.96 | 23.04 | 5.92 |
| <hr/> | | | | | |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | |

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 5.0 | 836.5 | 28.97 | 23.89 | 5.08 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 5.0 | 836.5 | 28.85 | 22.89 | 5.96 |
| <hr/> | | | | | |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | |

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|-------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 10.0 | 836.5 | 28.72 | 23.96 | 4.76 |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 10.0 | 836.5 | 28.58 | 23.05 | 5.53 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

9.2.4. LTE BAND 13

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|-------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 5.0 | 782 | 27.78 | 23.96 | 3.82 |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 5.0 | 782 | 27.82 | 23.02 | 4.8 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|-------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 10.0 | 782 | 27.88 | 24 | 3.88 |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 10.0 | 782 | 27.96 | 23.23 | 4.73 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

9.2.5. LTE BAND 17

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|-------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 5.0 | 710.0 | 61.96 | 23.86 | 38.1 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 5.0 | 710.0 | 27.74 | 22.83 | 4.91 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|-------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 10.0 | 710.0 | 27.76 | 23.89 | 3.87 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 10.0 | 710.0 | 27.81 | 22.91 | 4.9 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

9.2.6. LTE BAND 25

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|-------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 1.4 | 1733 | 29.06 | 23.92 | 5.14 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 1.4 | 1733 | 29.18 | 23 | 6.18 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

| Mode | Channel Band-width (MHZ) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 3.0 | 1733 | 29.13 | 23.98 | 5.15 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 3.0 | 1733 | 28.92 | 22.99 | 5.93 |
| <hr/> | | | | | |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 5.0 | 1733 | 28.98 | 23.89 | 5.09 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 5.0 | 1733 | 28.74 | 22.79 | 5.95 |
| <hr/> | | | | | |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 10 | 1733 | 29 | 23.96 | 5.04 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 10 | 1733 | 28.76 | 22.94 | 5.82 |
| <hr/> | | | | | |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | |

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 15 | 1733 | 28.84 | 23.89 | 4.95 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 15 | 1733 | 28.66 | 22.9 | 5.76 |
| <hr/> | | | | | |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | |

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 20 | 1733 | 28.81 | 23.74 | 5.07 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 20 | 1733 | 28.58 | 22.7 | 5.88 |
| <hr/> | | | | | |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | |

9.2.7. LTE BAND 26

| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 3.0 | 821.3 | 27.58 | 22.43 | 5.15 |
| <hr/> | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| | | | *Peak | Average | |
| 16QAM | 3.0 | 821.3 | 26.88 | 21.43 | 5.45 |
| <hr/> | | | | | |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | |

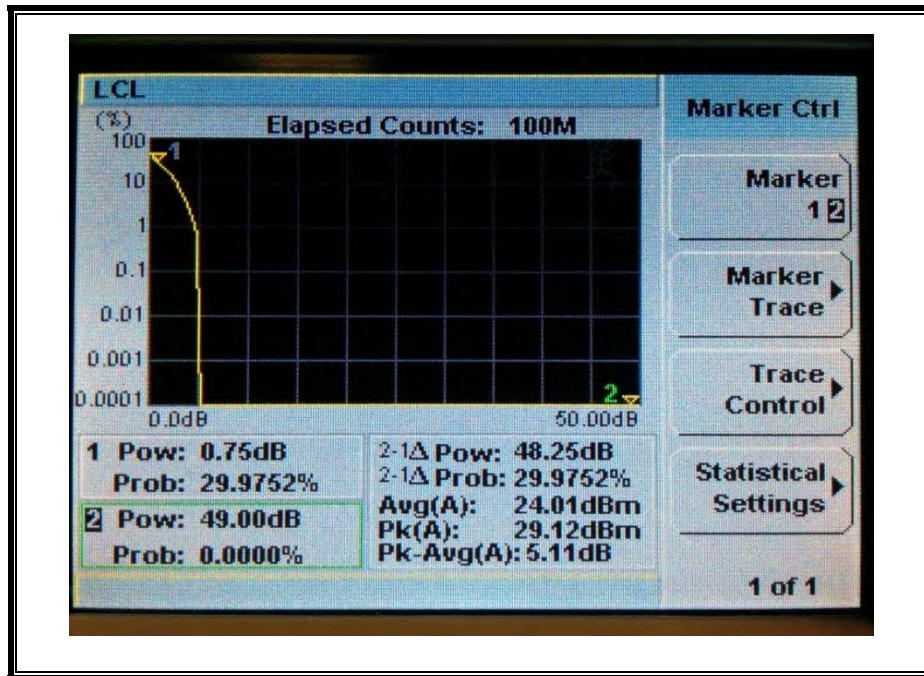
| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|-------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 5.0 | 821.3 | 27.27 | 22.34 | 4.93 |
| | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| 16QAM | 5.0 | 821.3 | 26.85 | 21.27 | 5.58 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

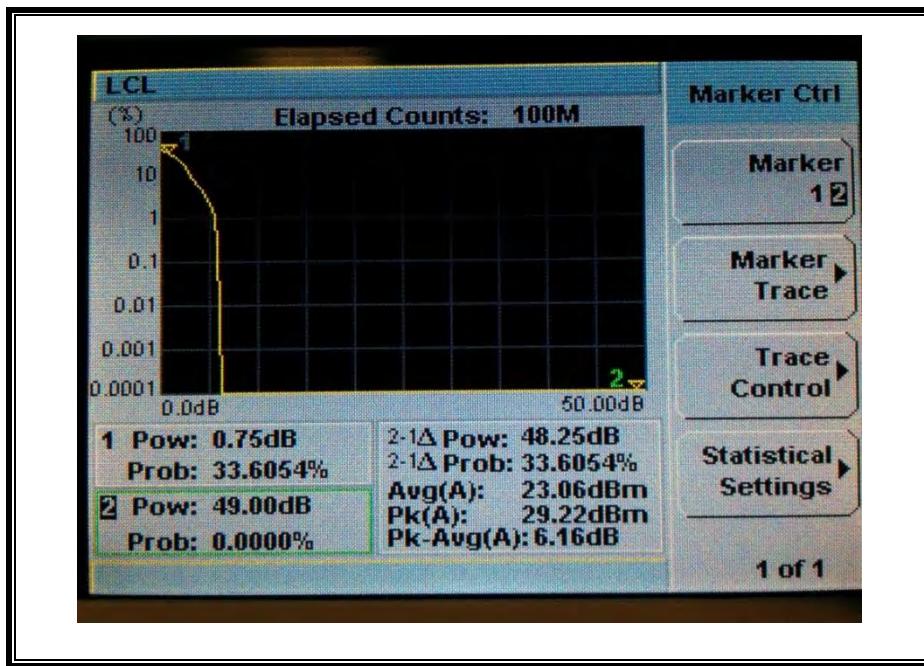
| Mode | Channel Band-width (MHz) | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|-------|--------------------------|---------|-----------------------|---------|-----------------------------|
| | | | *Peak | Average | |
| QPSK | 10.0 | 819.0 | 27.84 | 23.23 | 4.61 |
| | | | | | |
| Mode | Channel Band-width | f (MHz) | Couducted Power (dBm) | | Peak-to-Average Ratio |
| 16QAM | 10.0 | 819.0 | 27.76 | 22.4 | 5.36 |

*Peak Reading = Average Reading + Peak-to-Average Ratio

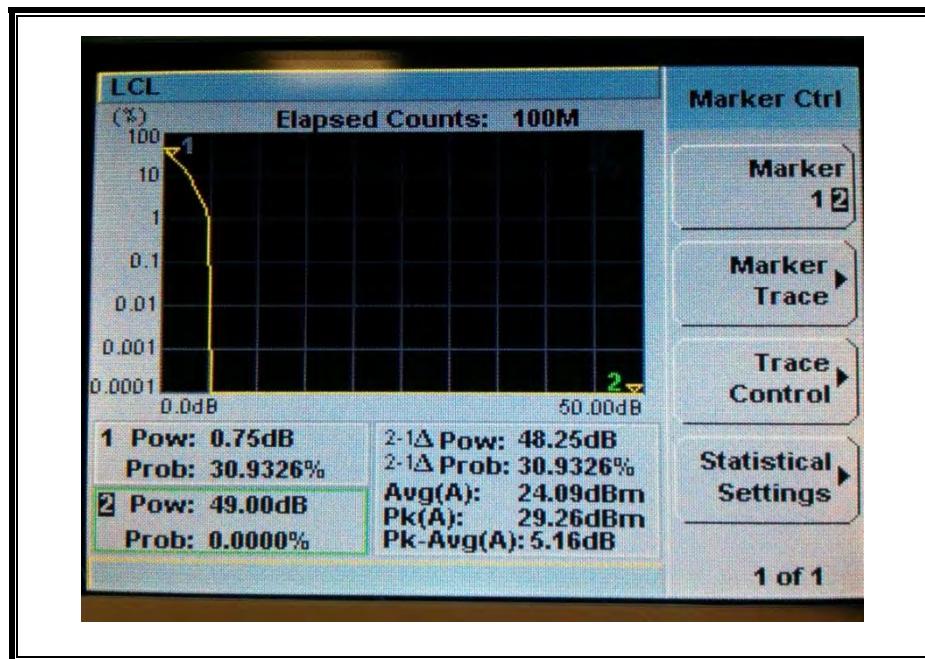
QPSK Band 2 (1.4 MHz BAND WIDTH)



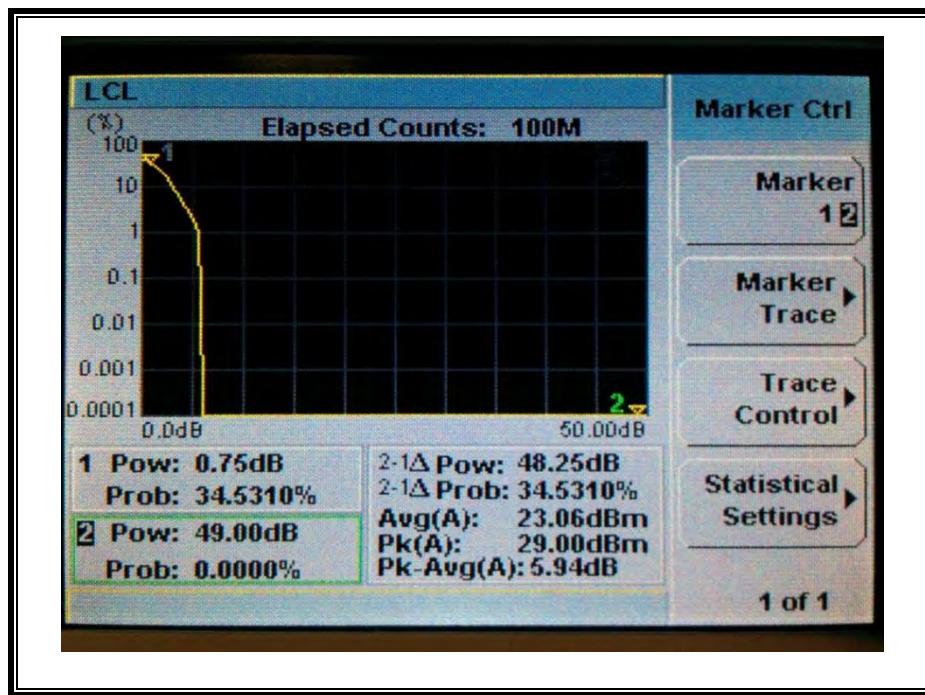
16QAM Band 2 (1.4 MHz BAND WIDTH)



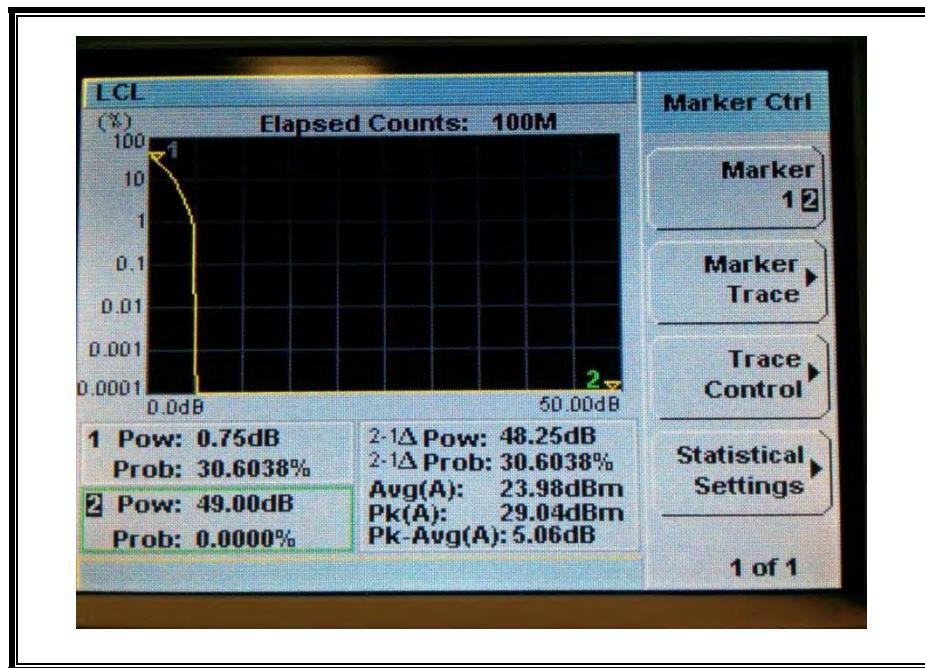
QPSK Band 2 (3 MHz BAND WIDTH)



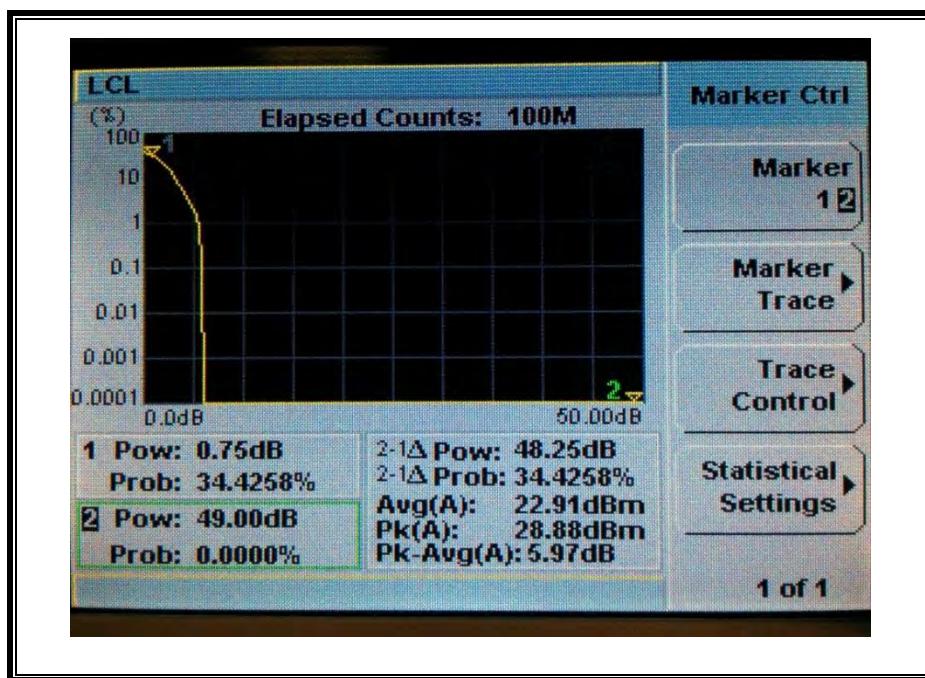
16QAM Band 2 (3 MHz BAND WIDTH)



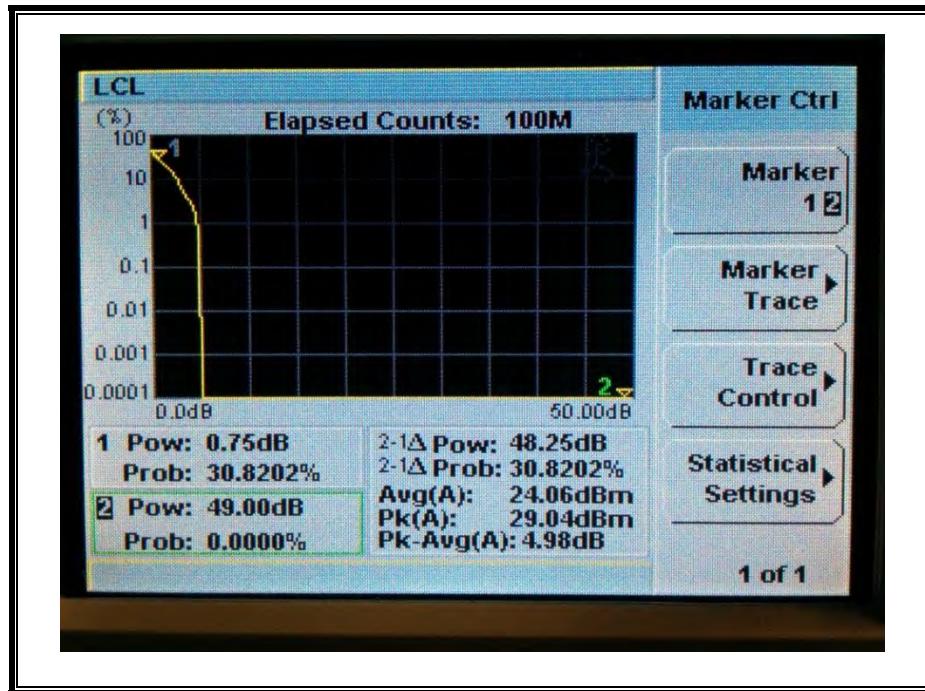
QPSK Band 2 (5 MHz BAND WIDTH)



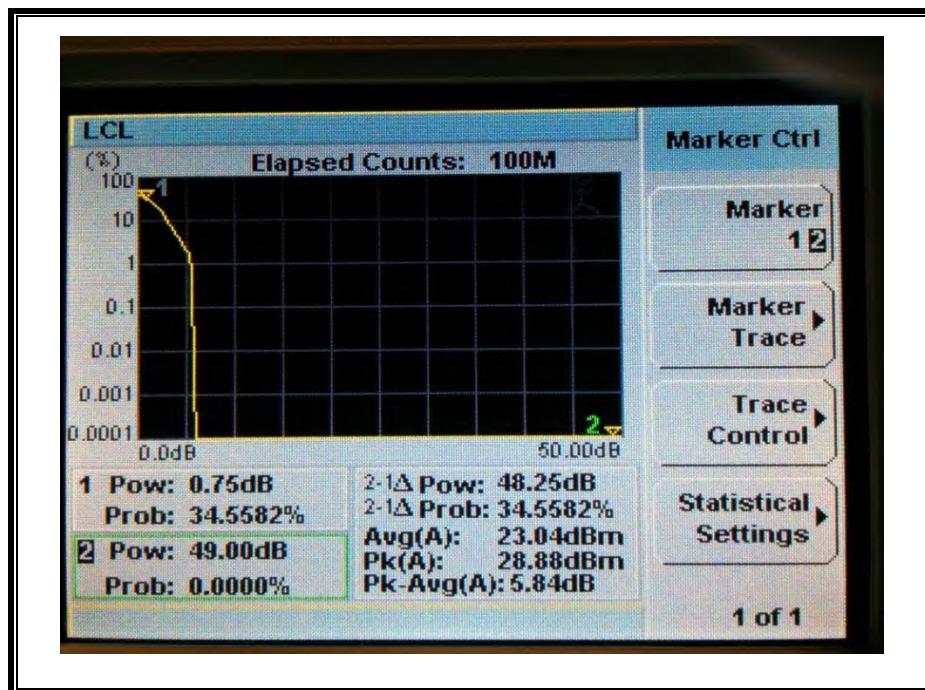
16QAM Band 2 (5 MHz BAND WIDTH)



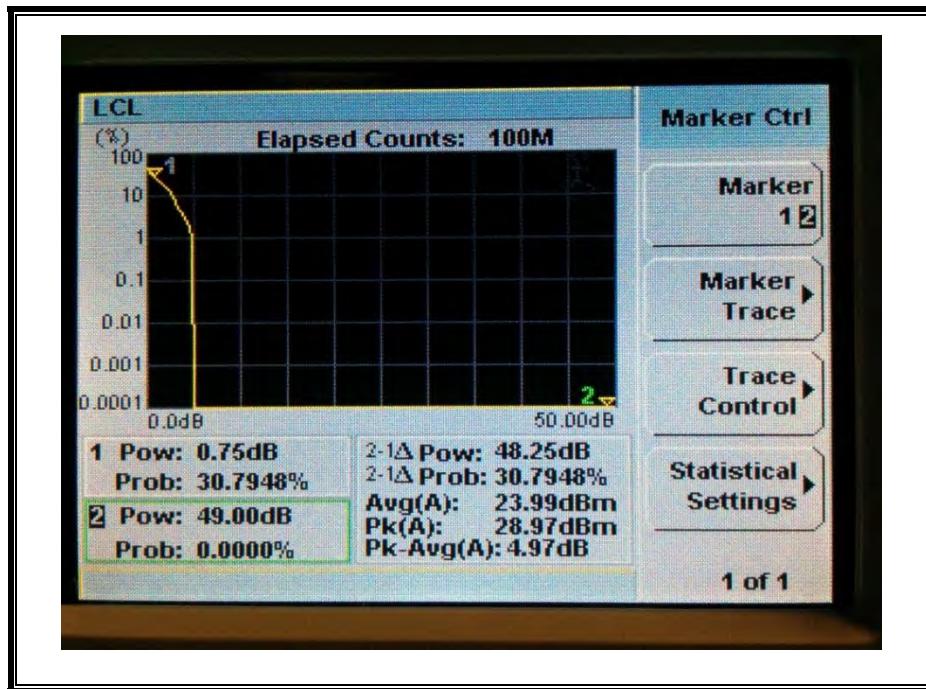
QPSK Band 2 (10 MHz BAND WIDTH)



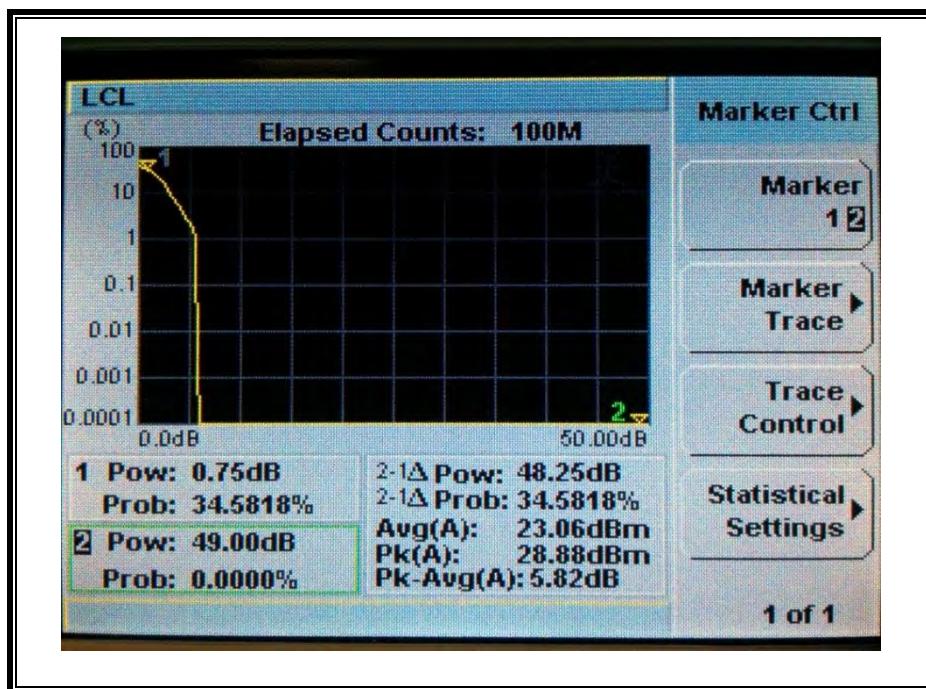
16QAM Band 2 (10 MHz BAND WIDTH)



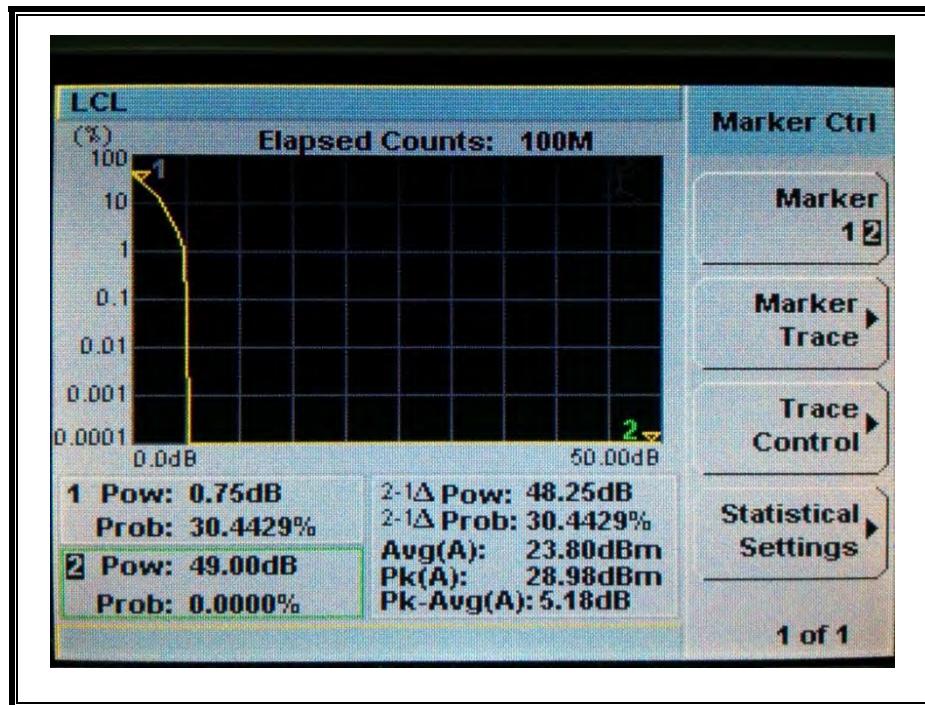
QPSK Band 2 (15 MHz BAND WIDTH)



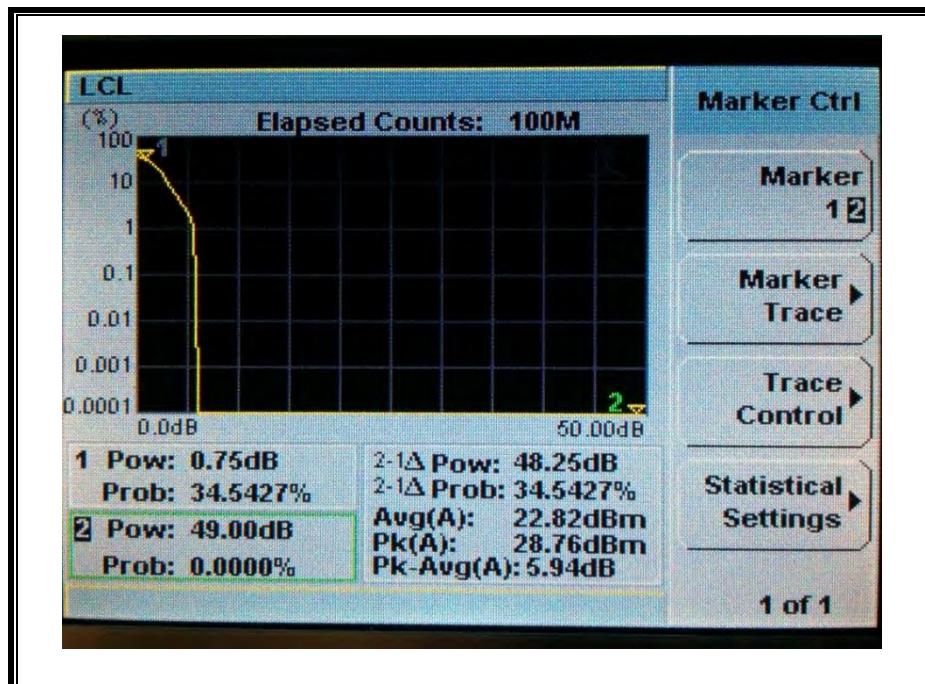
16QAM Band 2 (15 MHz BAND WIDTH)



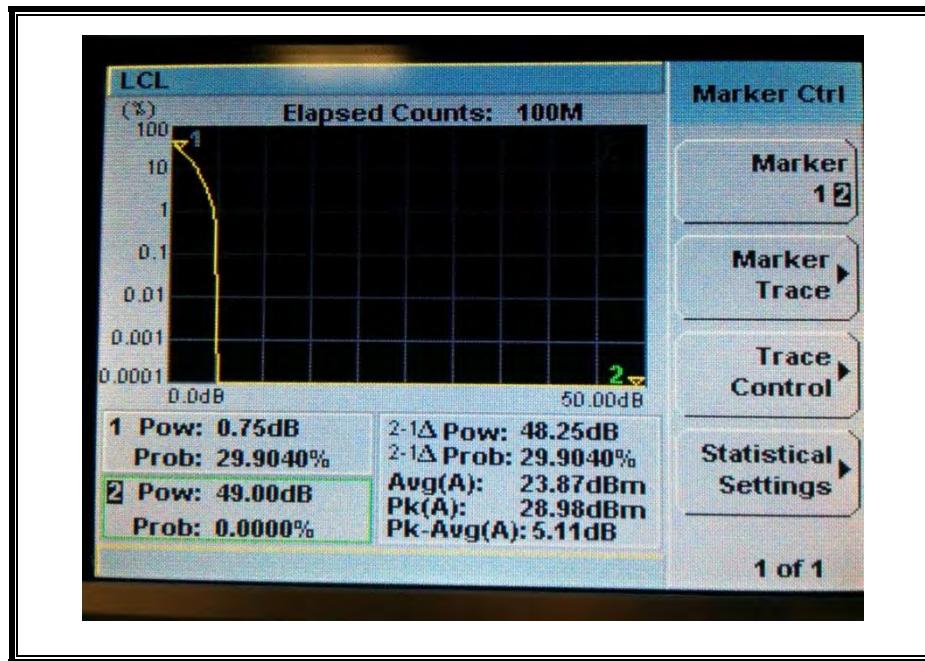
QPSK Band 2 (20 MHz BAND WIDTH)



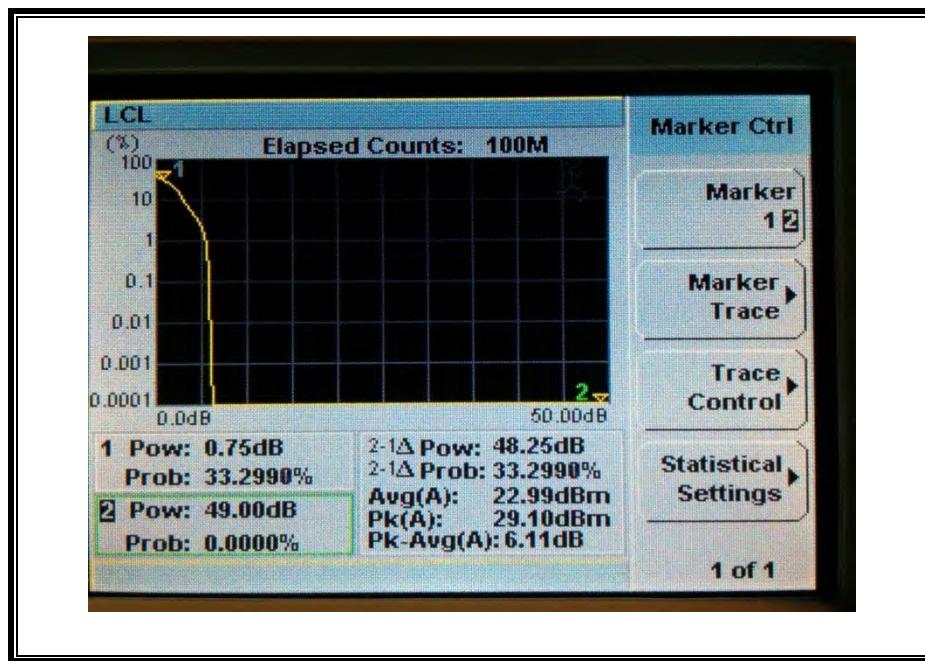
16QAM Band 2 (20 MHz BAND WIDTH)



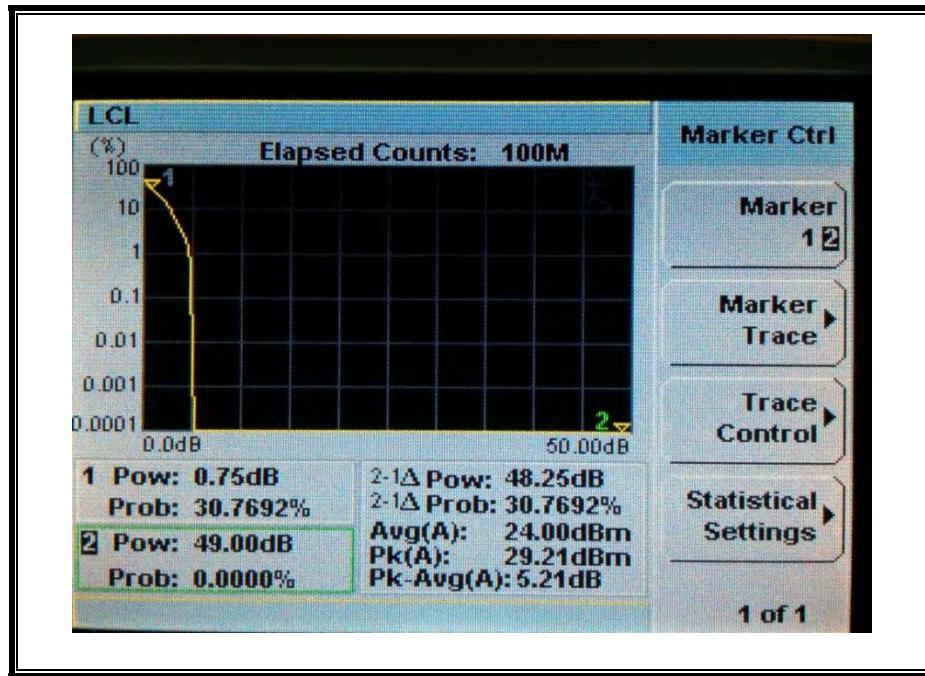
QPSK Band 4 (1.4 MHz BAND WIDTH)



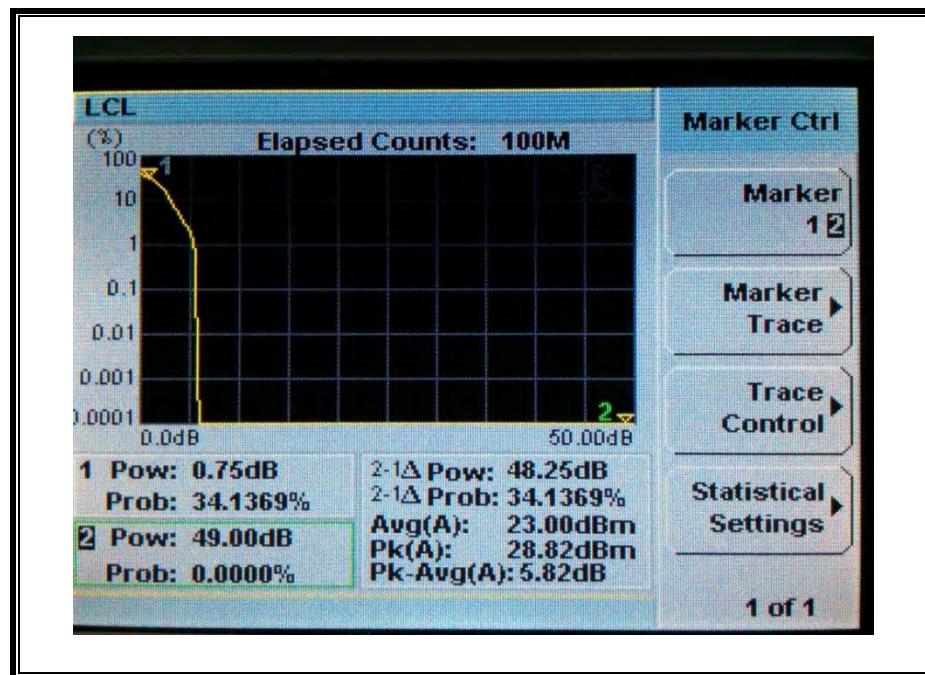
16QAM Band 4 (1.4 MHz BAND WIDTH)



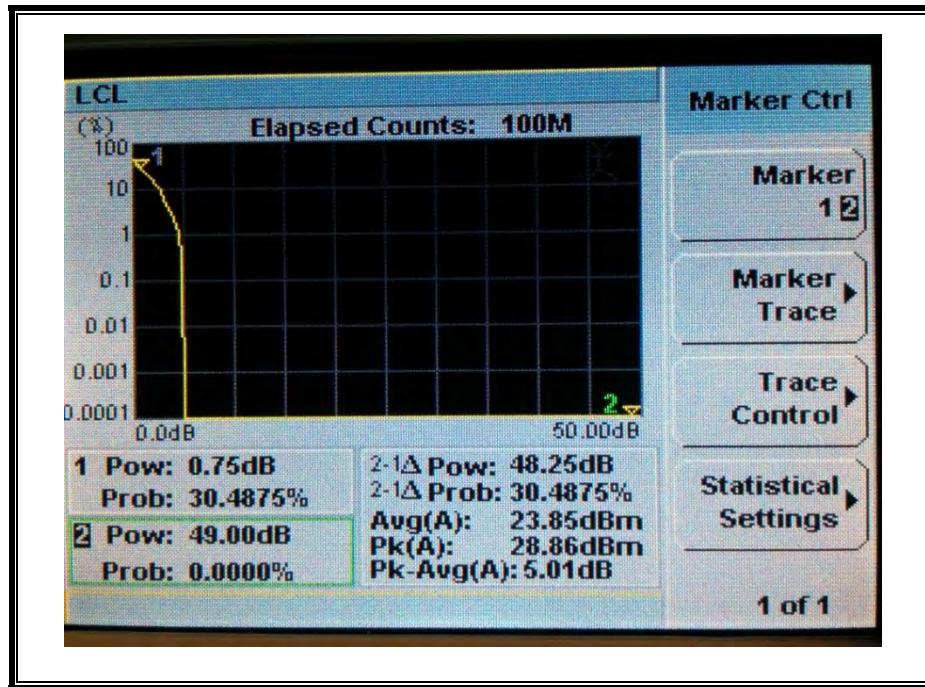
QPSK Band 4 (3 MHz BAND WIDTH)



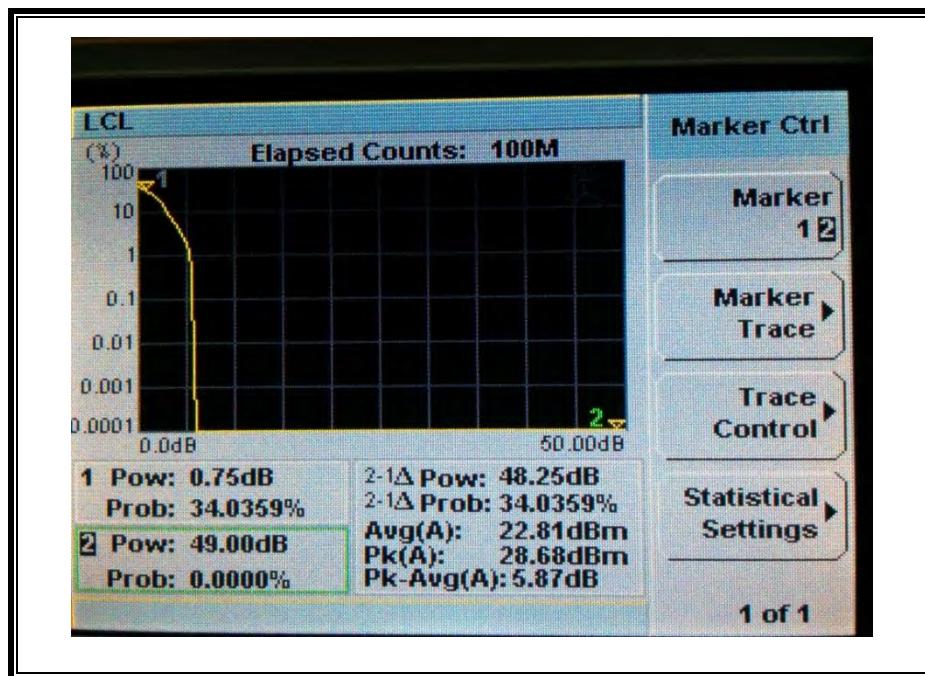
16QAM Band 4 (3 MHz BAND WIDTH)



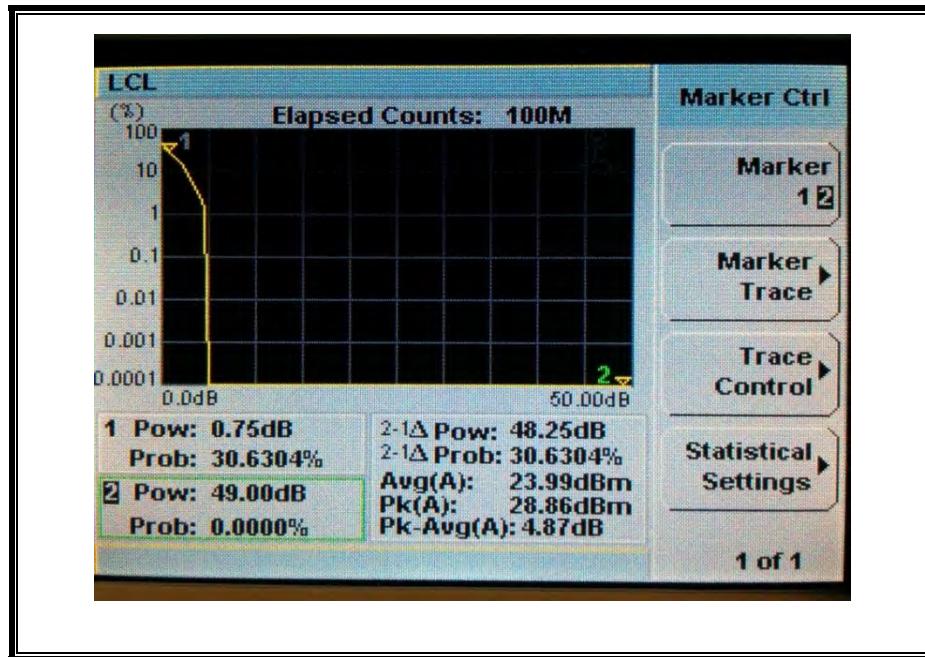
QPSK Band 4 (5 MHz BAND WIDTH)



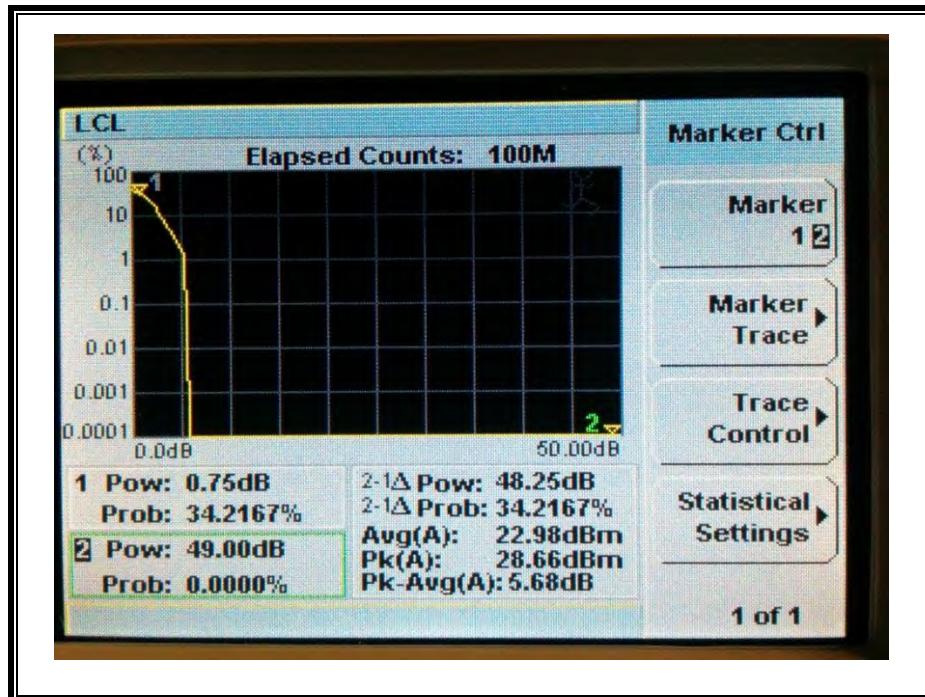
16QAM Band 4 (5 MHz BAND WIDTH)



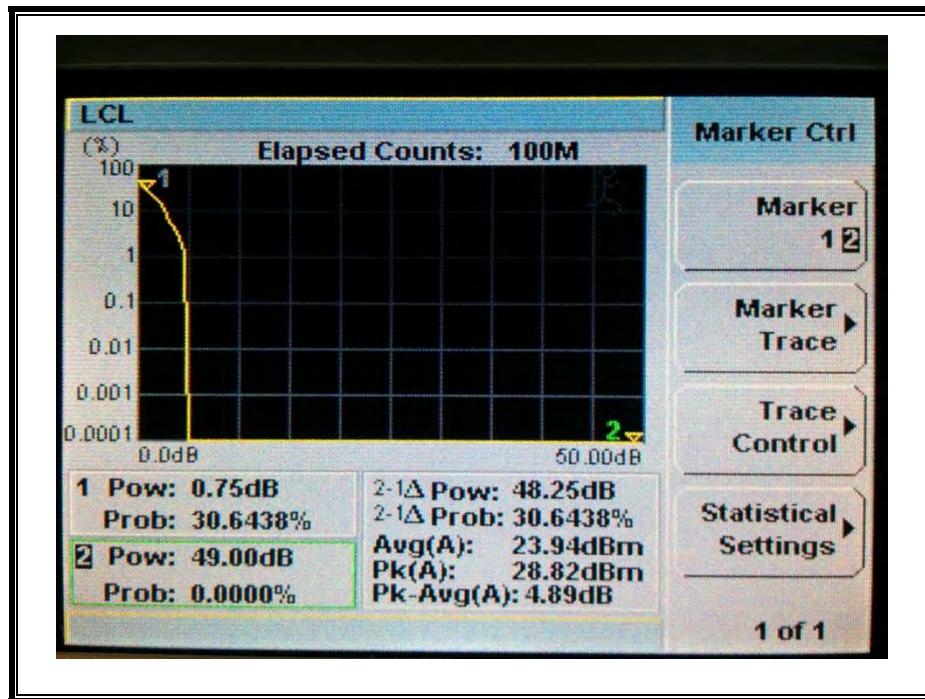
QPSK Band 4 (10 MHz BAND WIDTH)



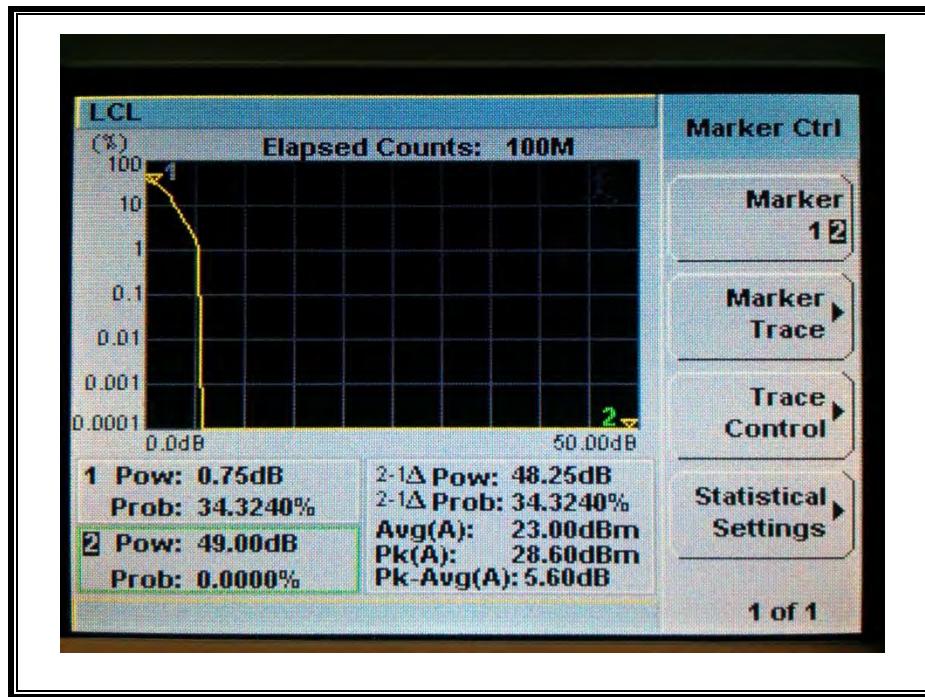
16QAM Band 4 (10 MHz BAND WIDTH)



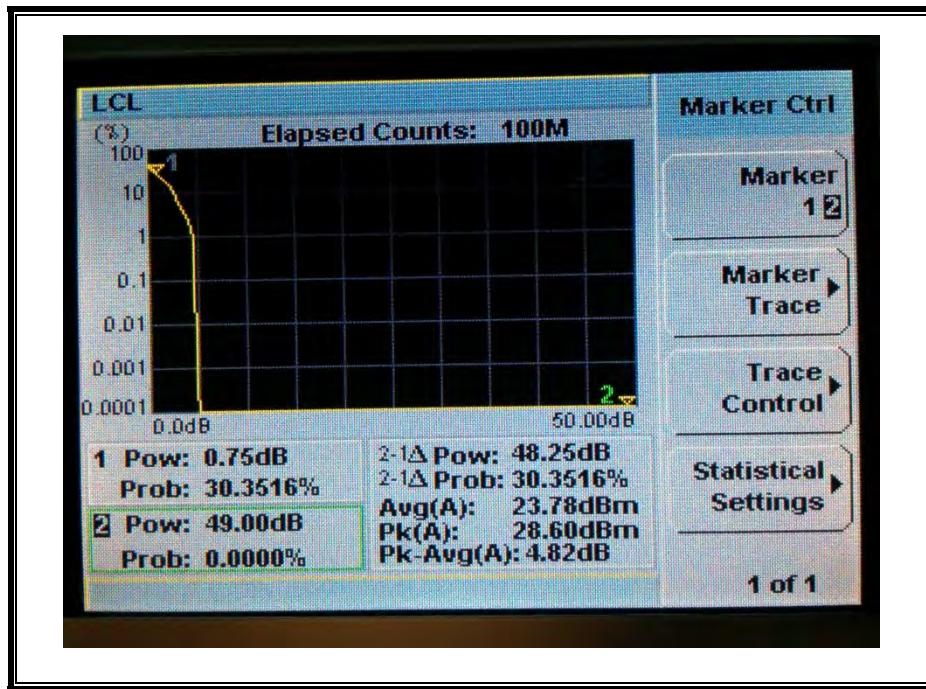
QPSK Band 4 (15 MHz BAND WIDTH)



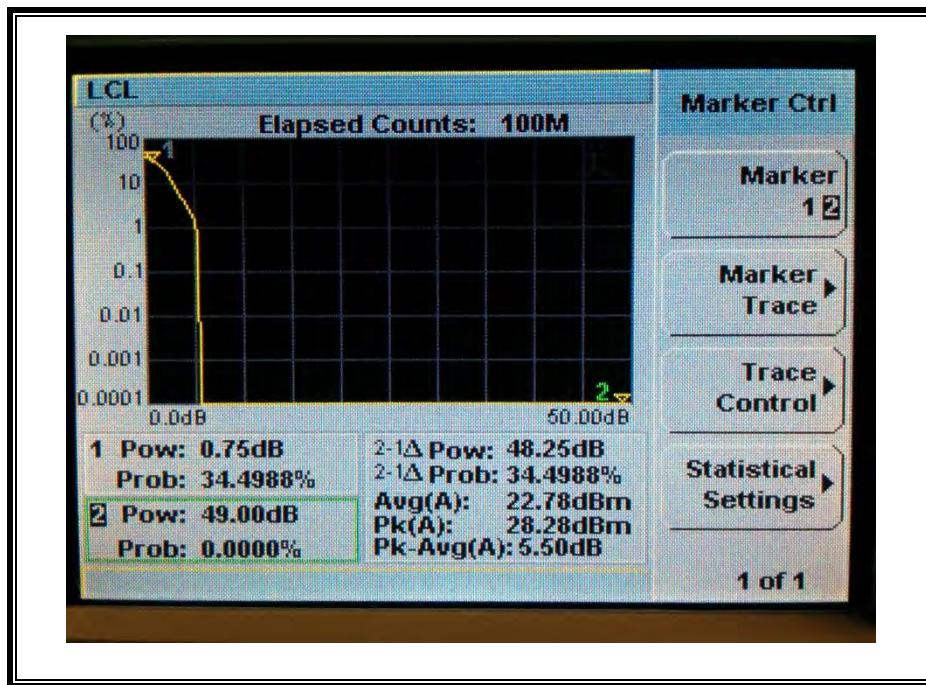
16QAM Band 4 (15 MHz BAND WIDTH)



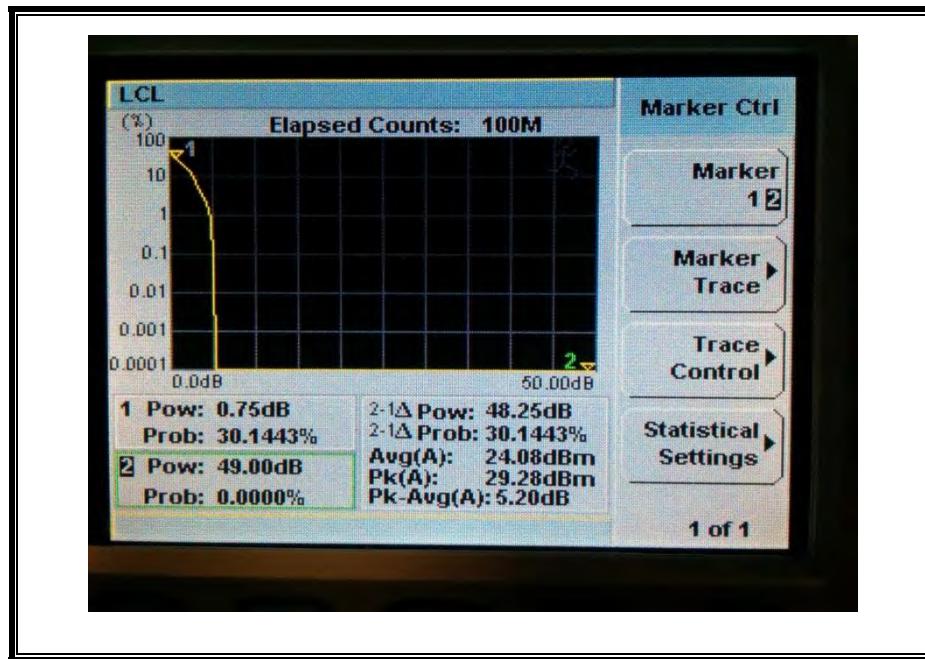
QPSK Band 4 (20 MHz BAND WIDTH)



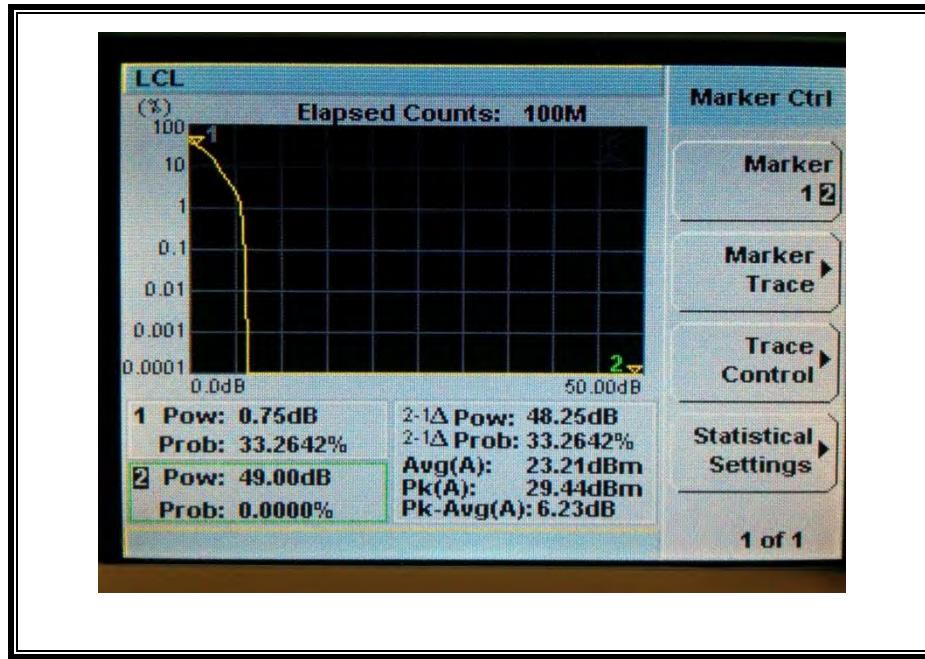
16QAM Band 4 (20 MHz BAND WIDTH)



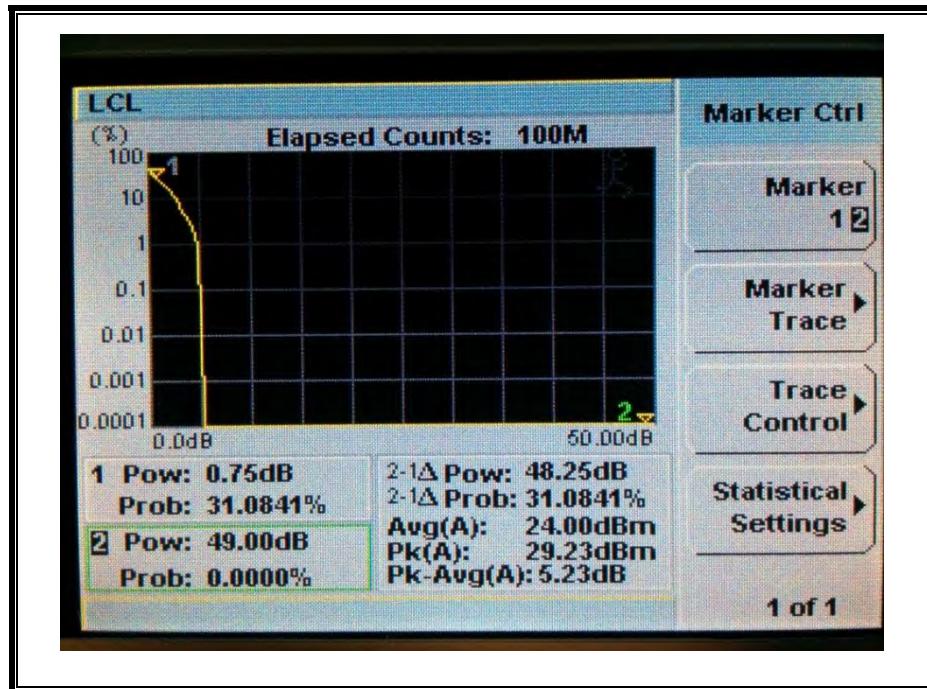
QPSK Band 5 (1.4 MHz BAND WIDTH)



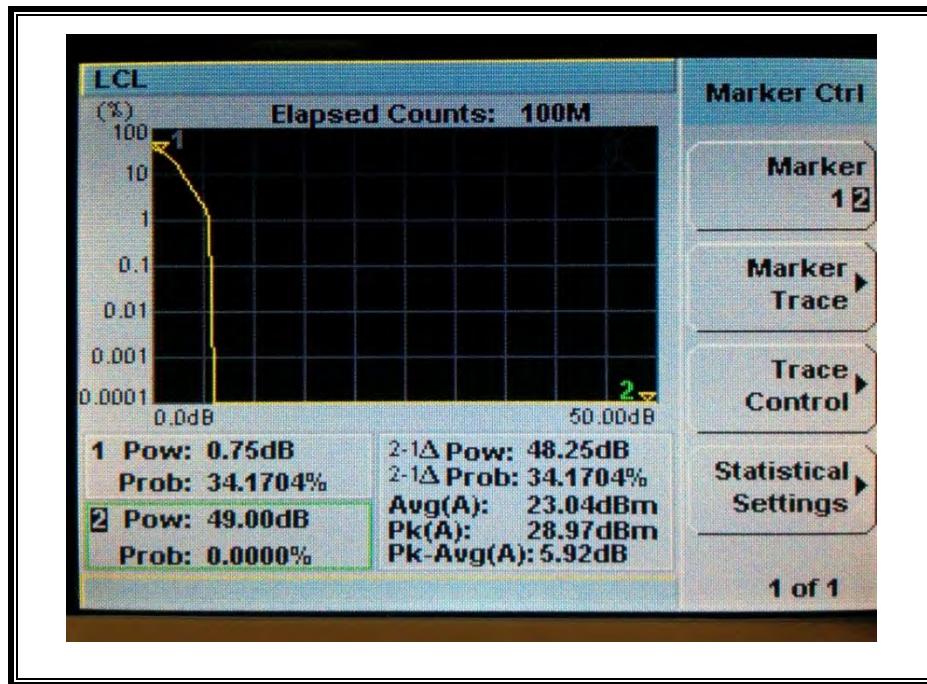
LTE 16QAM Band 5 (1.4 MHz BAND WIDTH)



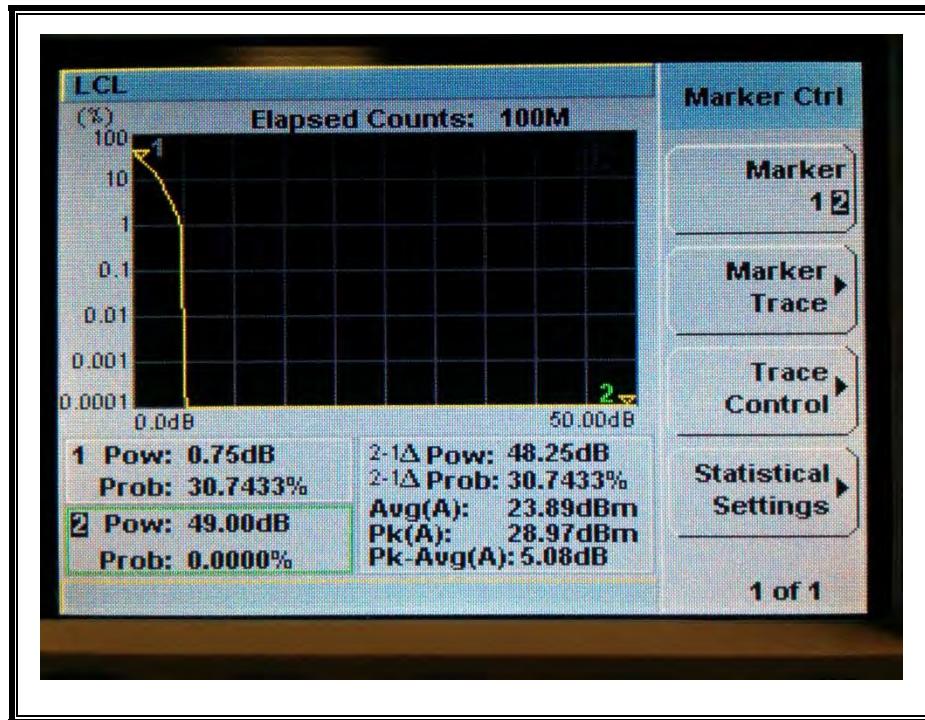
QPSK Band 5 (3 MHz BAND WIDTH)



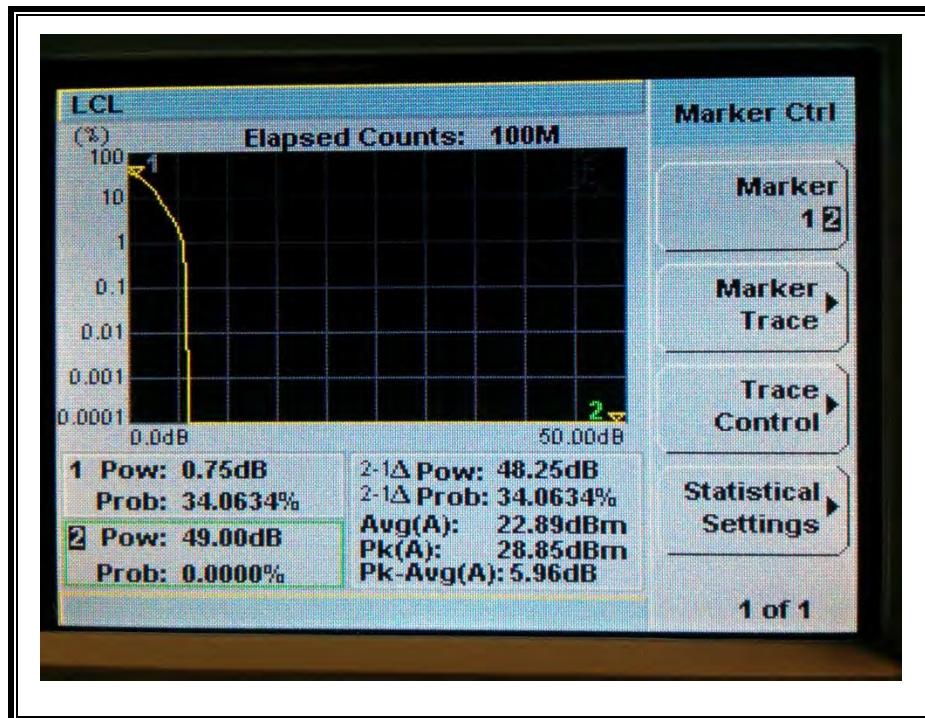
LTE 16QAM Band 5 (3 MHz BAND WIDTH)



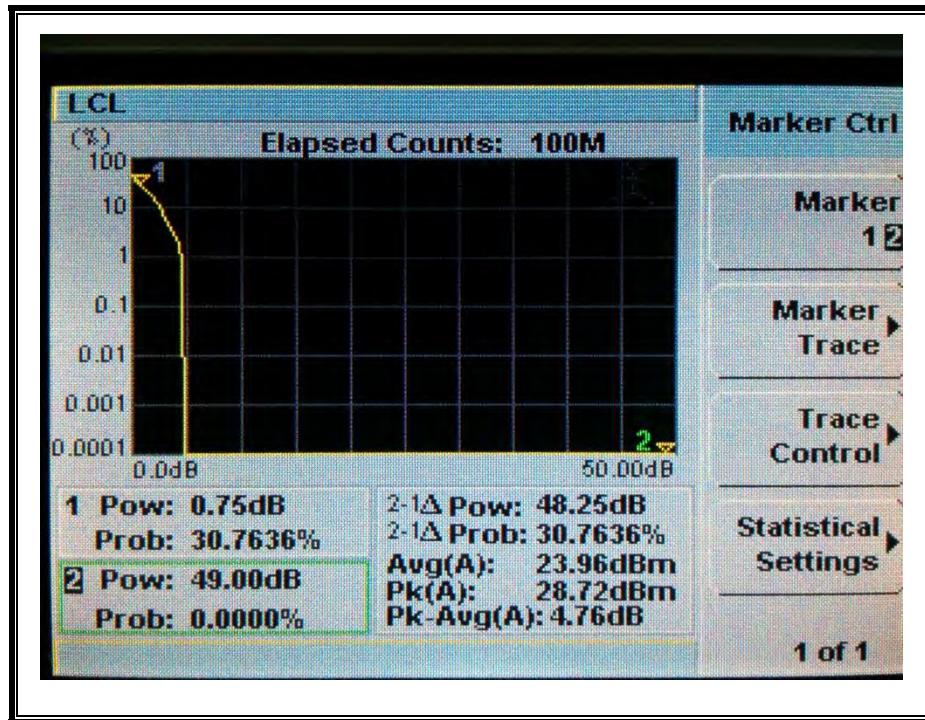
QPSK Band 5 (5 MHz BAND WIDTH)



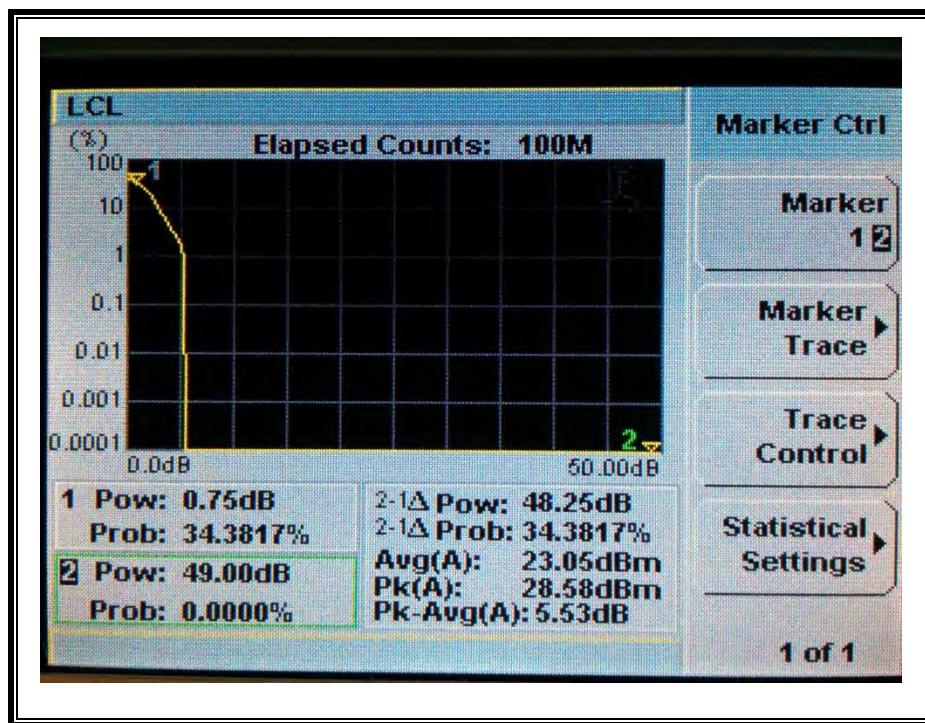
LTE 16QAM Band 5 (5 MHz BAND WIDTH)



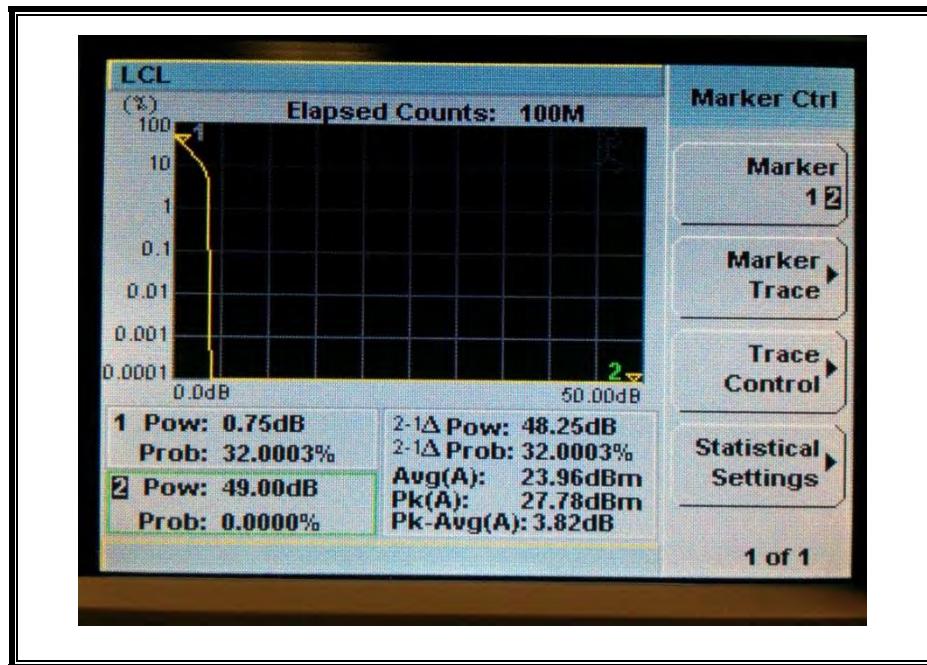
QPSK Band 5 (10 MHz BAND WIDTH)



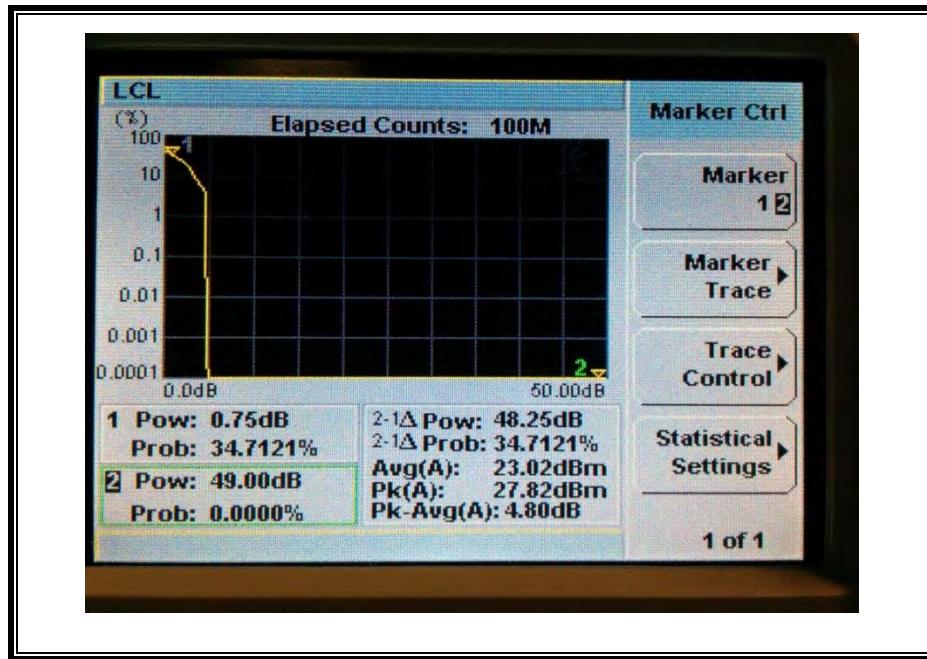
LTE 16QAM Band 5 (10 MHz BAND WIDTH)



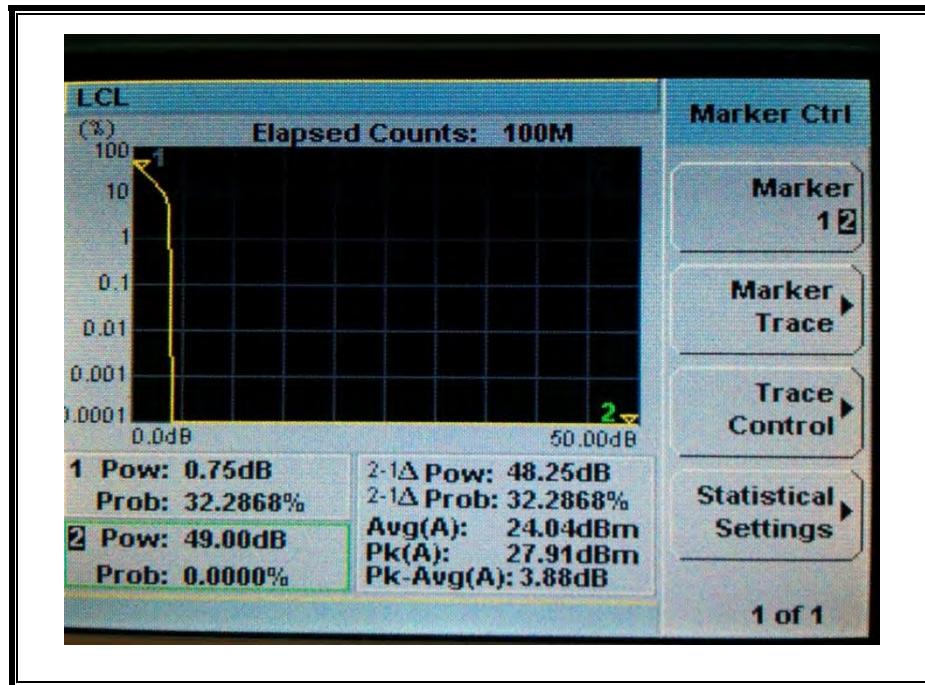
QPSK Band 13 (5 MHz BAND WIDTH)



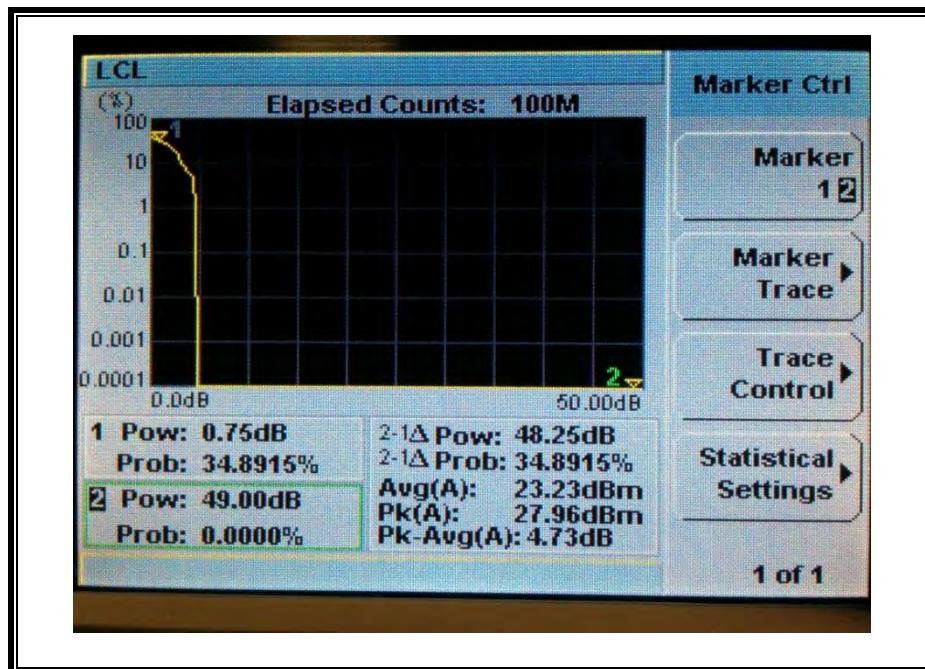
LTE 16QAM Band 13 (5 MHz BAND WIDTH)



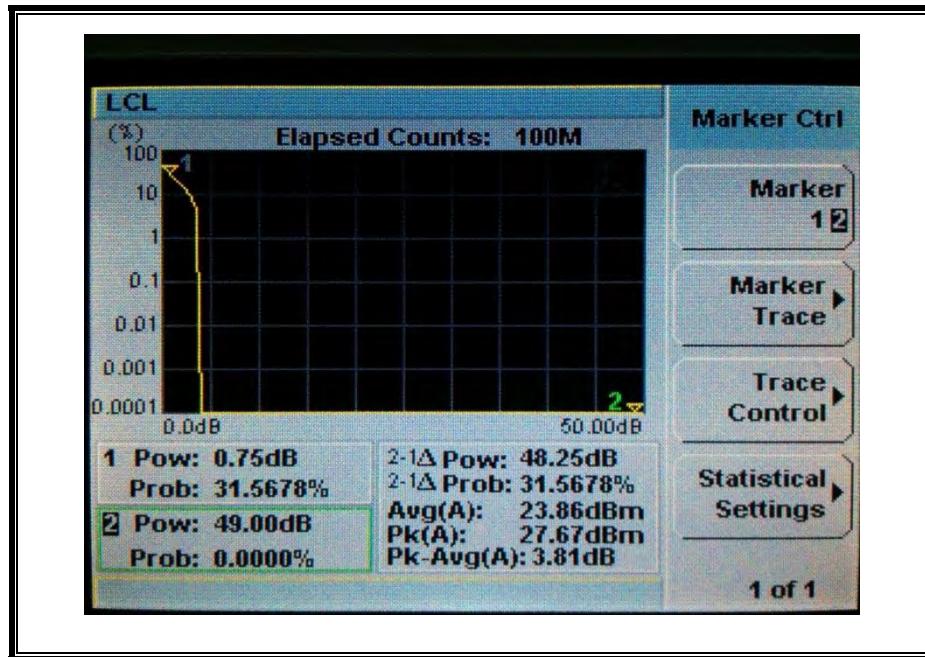
QPSK Band 13 (10 MHz BAND WIDTH)



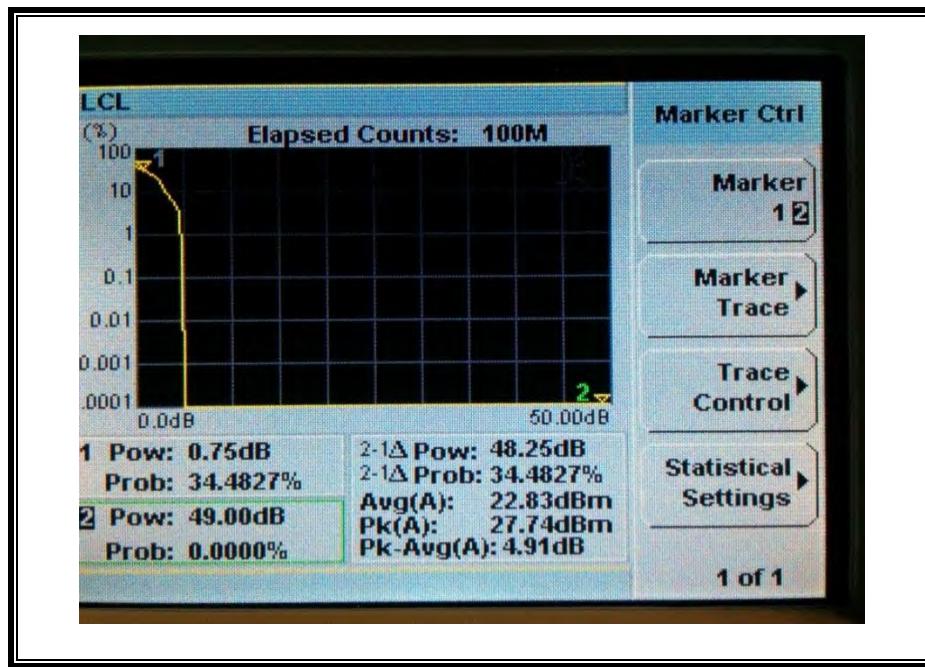
LTE 16QAM Band 13 (10 MHz BAND WIDTH)



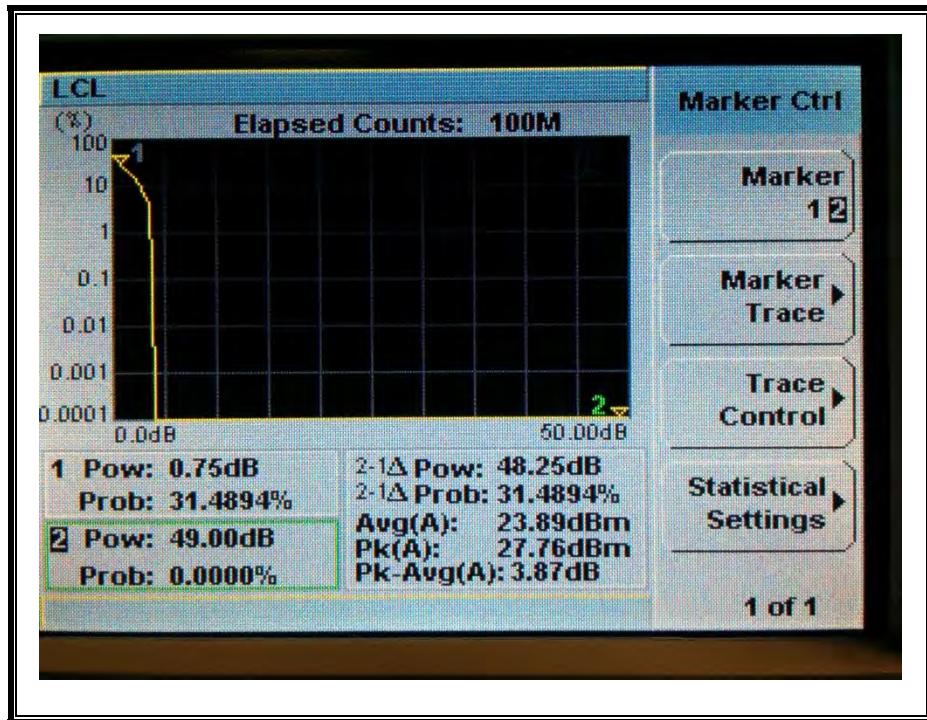
QPSK Band 17 (5 MHz BAND WIDTH)



LTE 16QAM Band 17 (5 MHz BAND WIDTH)



QPSK Band 17 (10 MHz BAND WIDTH)



LTE 16QAM Band 17 (10 MHz BAND WIDTH)

