

5.4. Band Edge Compliance

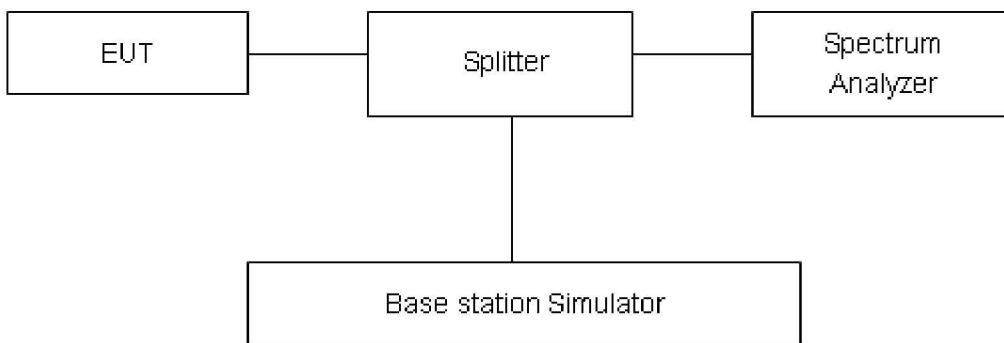
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured. The average detector is used. RBW is set to 3kHz,VBW is set to 10kHz for GSM 850, RBW is set to 15 kHz, VBW is set to 51 kHz for LTE Band 5/26. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 22.917(a) specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.”

Limit	-13 dBm
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Measurement Uncertainty

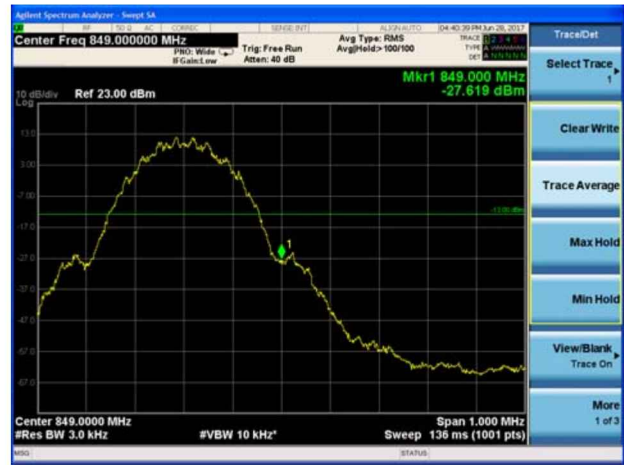
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U=0.684$ dB.

Test Result:

GSM 850 GPRS CH-Low



GSM 850 GPRS CH-High



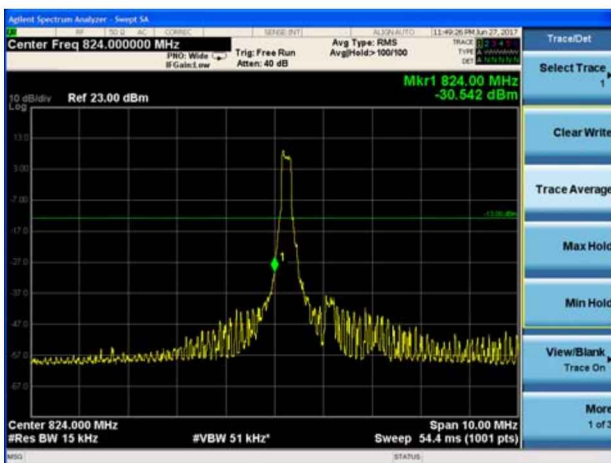
GSM 850 EGPRS CH-Low



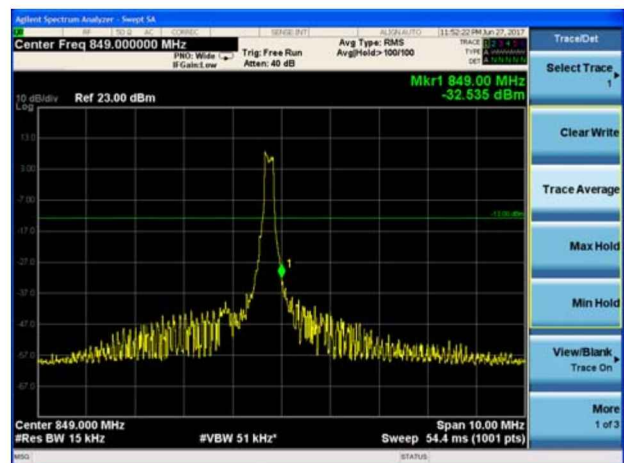
GSM 850 EGPRS CH-High



LTE Band 5 QPSK 1.4MHz CH-Low 1RB

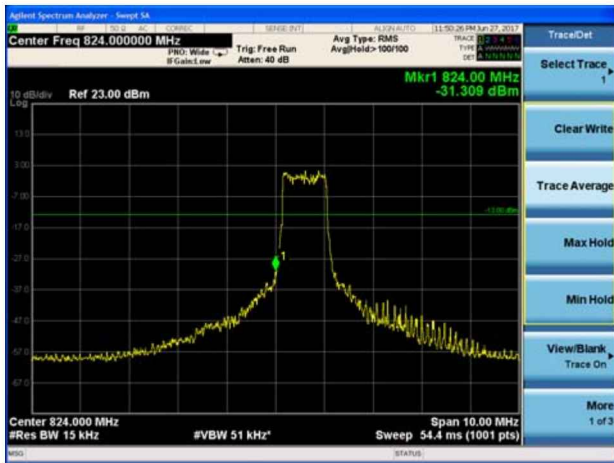


LTE Band 5 QPSK 1.4MHz CH-High 1RB

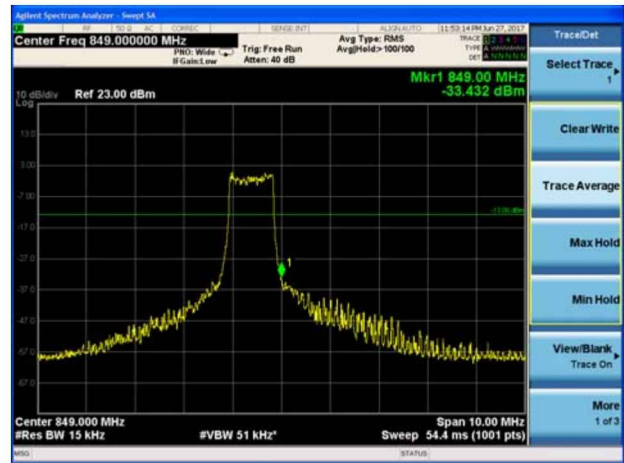




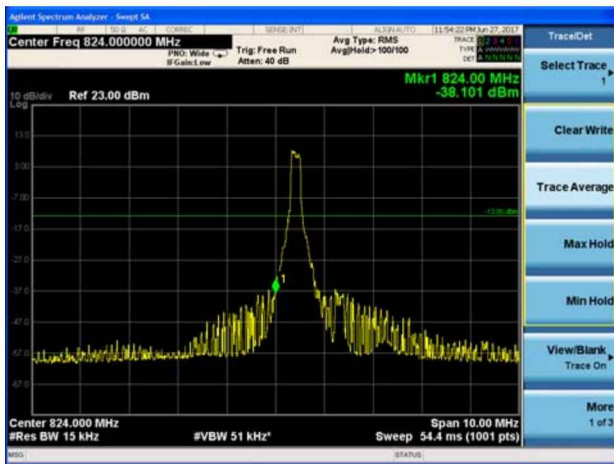
LTE Band 5 QPSK 1.4MHz CH-Low 100%RB



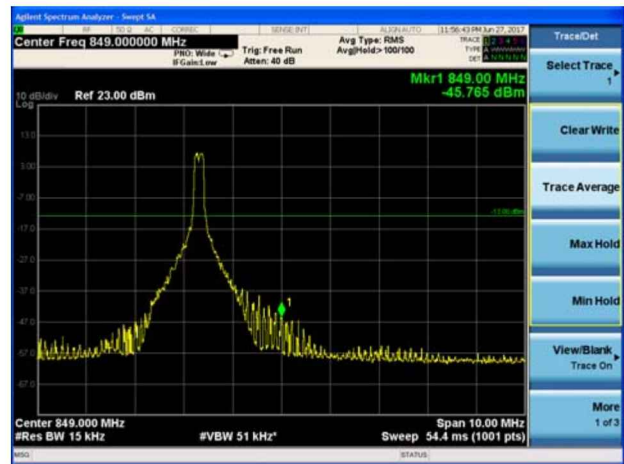
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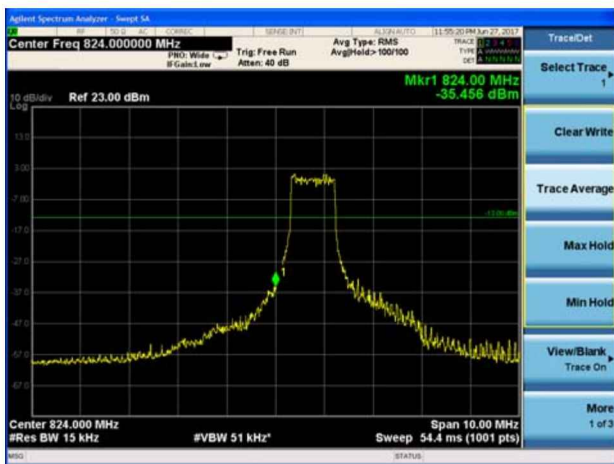
LTE Band 5 QPSK 3MHz CH-Low 1RB



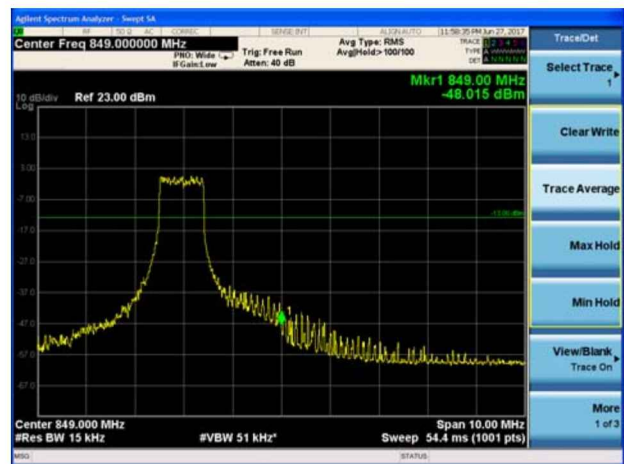
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LTE Band 5 QPSK 3MHz CH-Low 100%RB

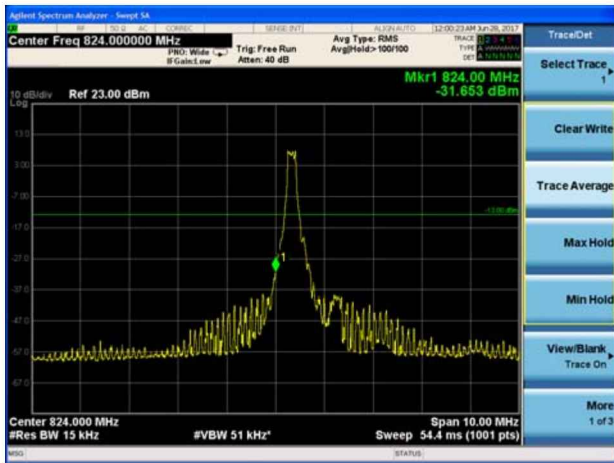


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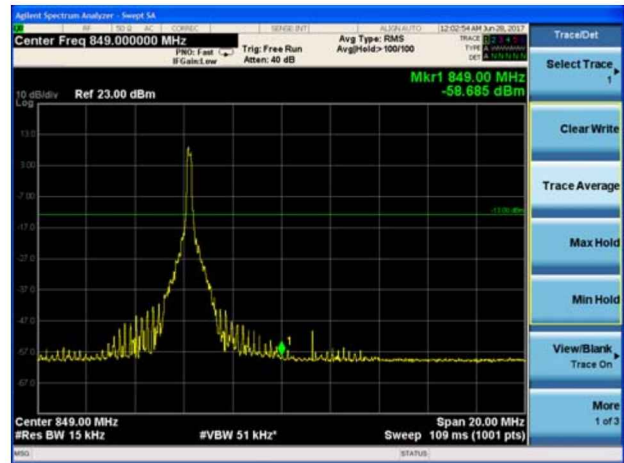




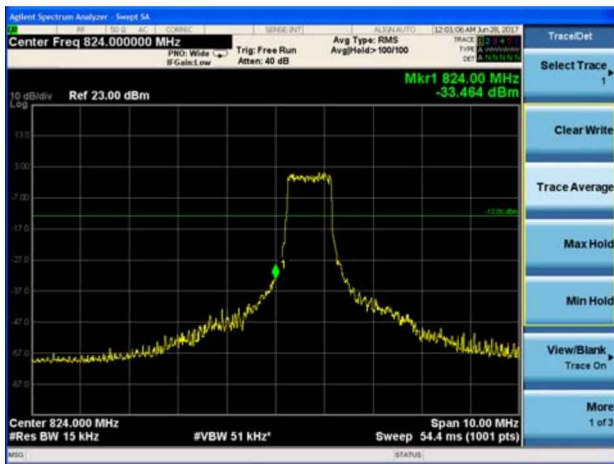
LTE Band 5 QPSK 5MHz CH-Low 1RB



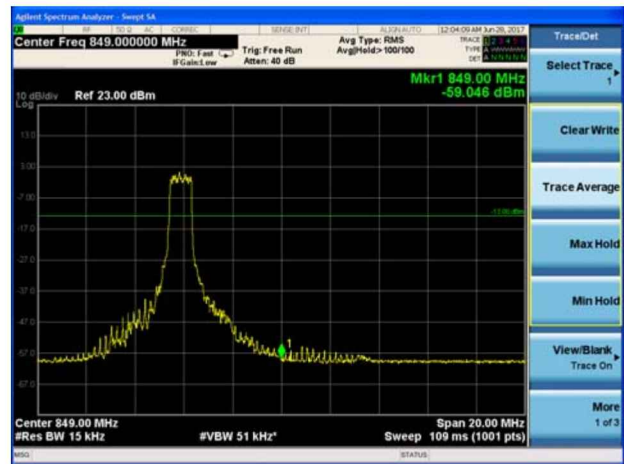
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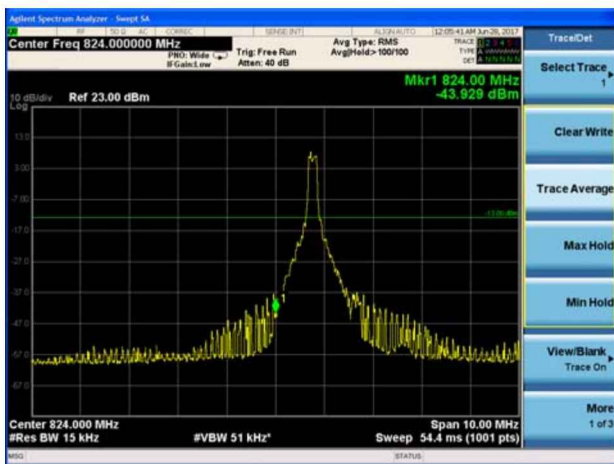
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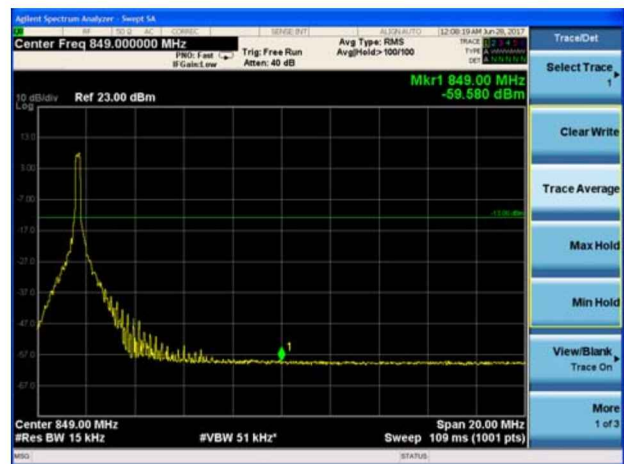
LTE Band 5 QPSK 5MHz CH-High 100%RB



LTE Band 5 QPSK 10MHz CH-Low 1RB

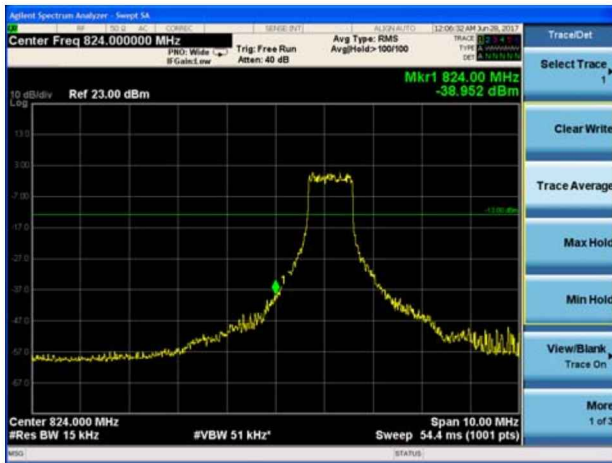


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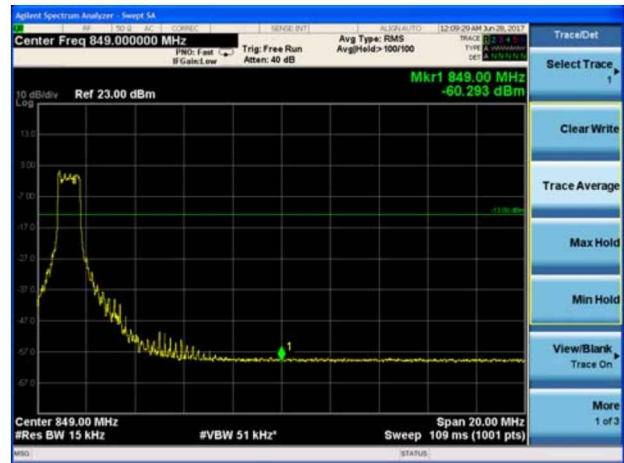




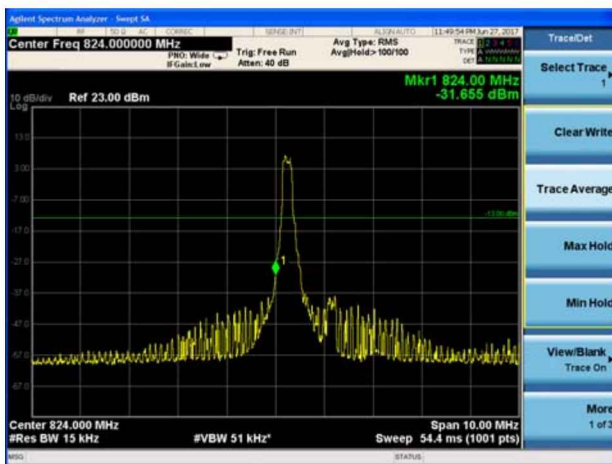
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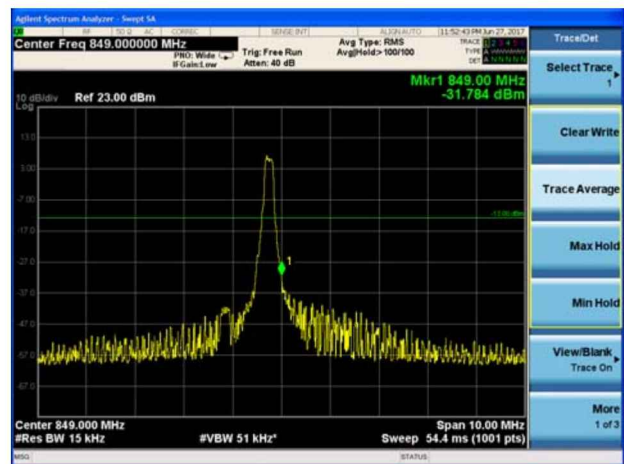
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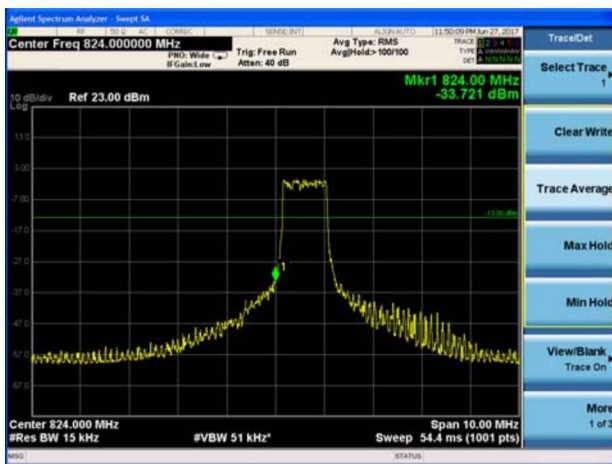
LTE Band 5 16QAM 1.4MHz CH-Low 1RB



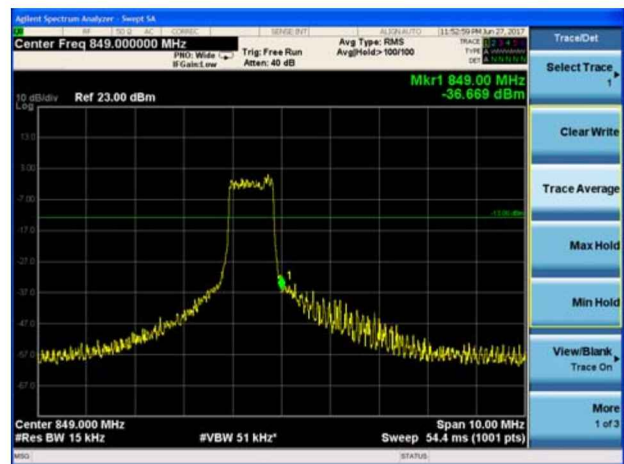
LTE Band 5 16QAM 1.4MHz CH-High 1RB



LTE Band 5 16QAM 1.4MHz CH-Low 100%RB

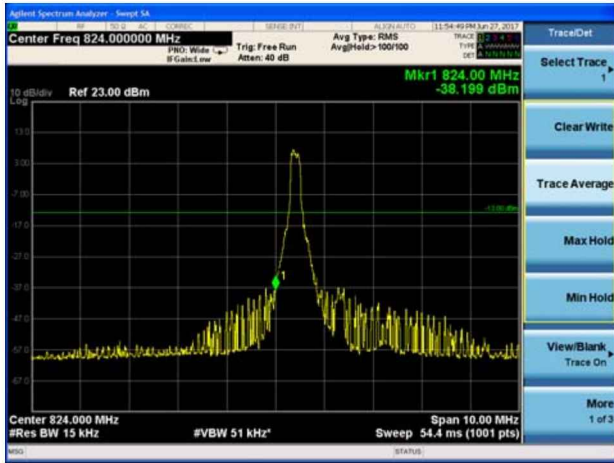


LTE Band 5 16QAM 1.4MHz CH-High 100%RB

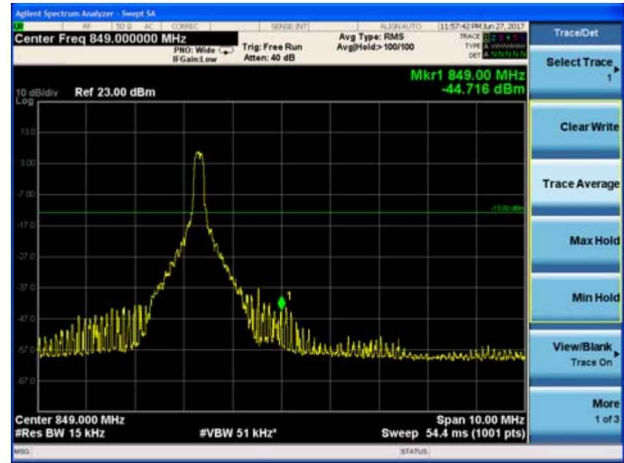




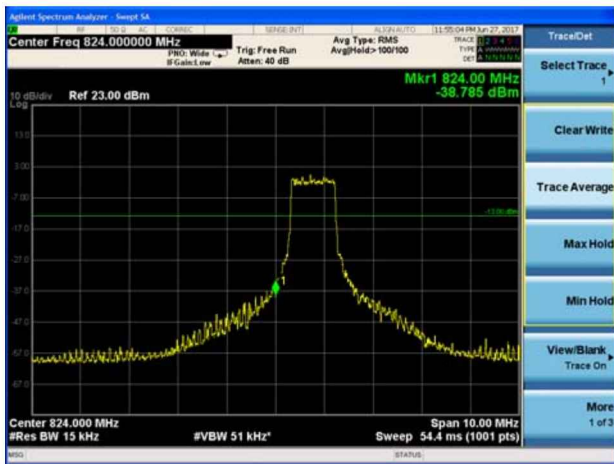
LTE Band 5 16QAM 3MHz CH-Low 1RB



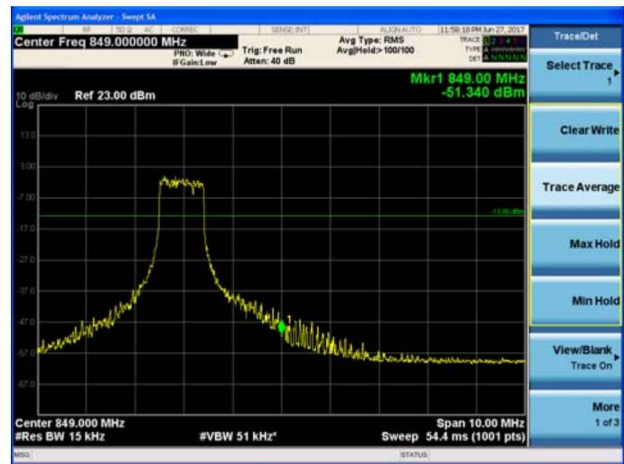
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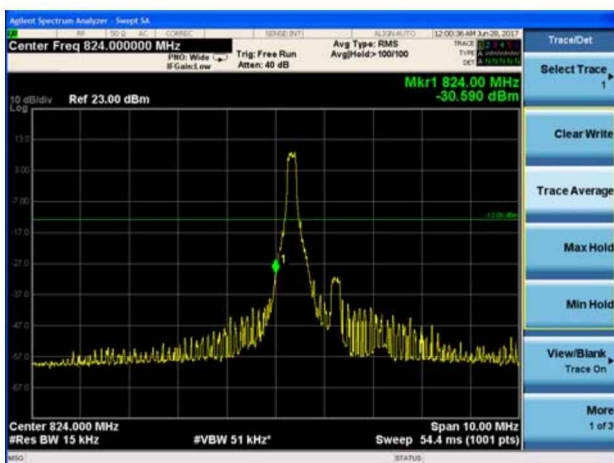
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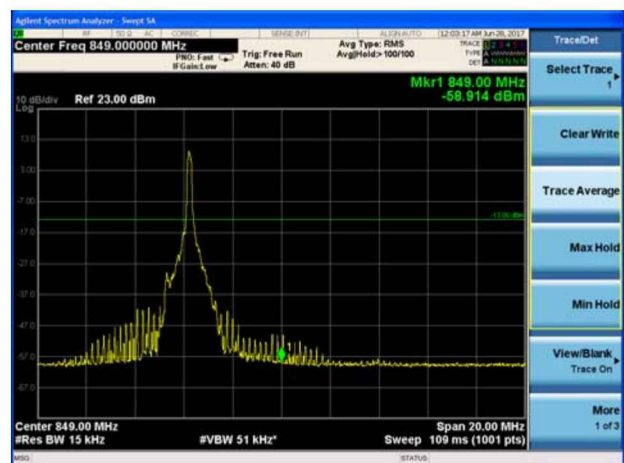
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LTE Band 5 16QAM 5MHz CH-Low 1RB

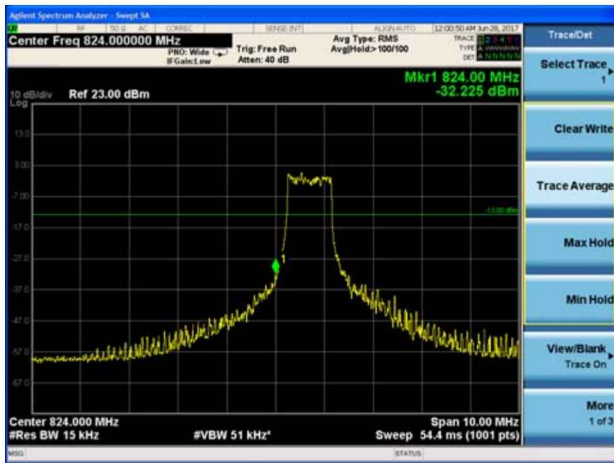


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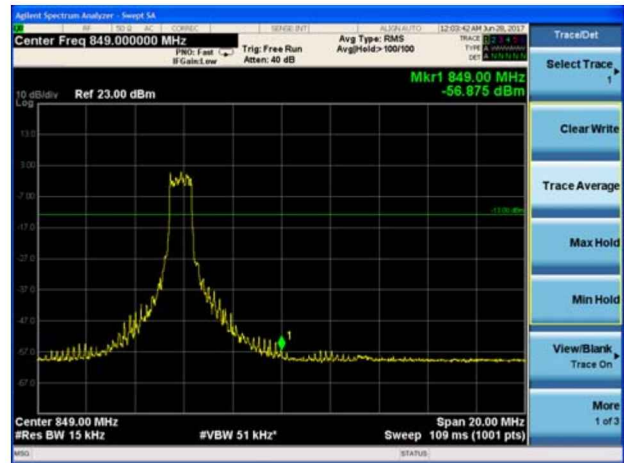




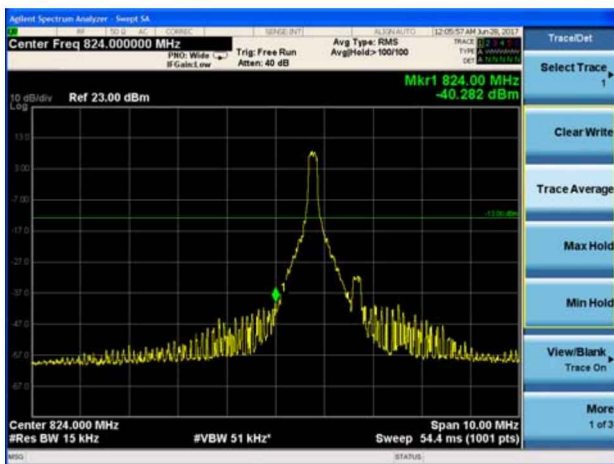
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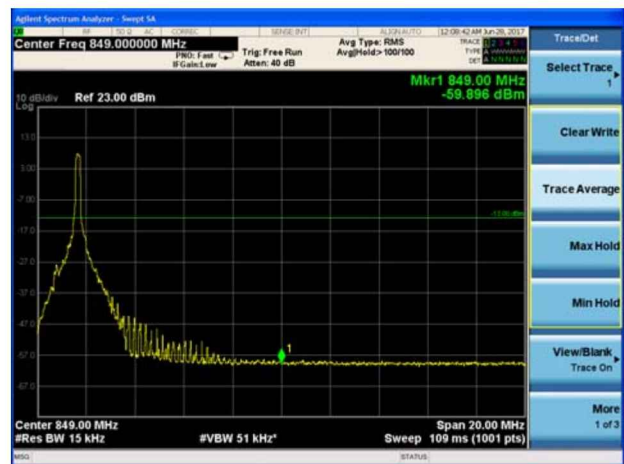
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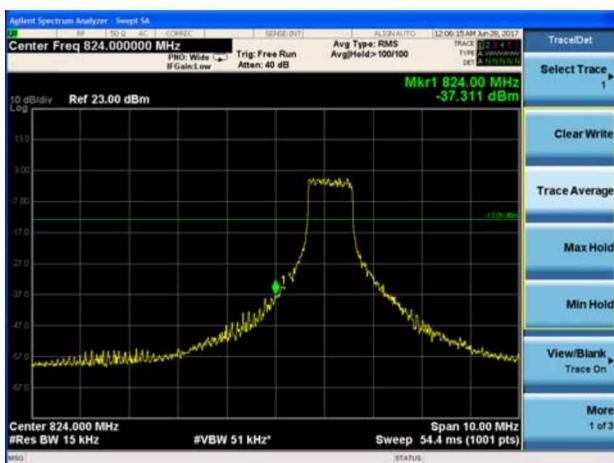
LTE Band 5 16QAM 10MHz CH-Low 1RB



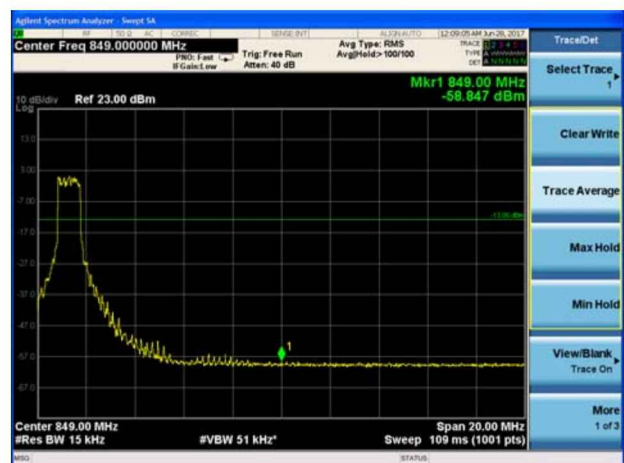
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LTE Band 5 16QAM 10MHz CH-Low 100%RB

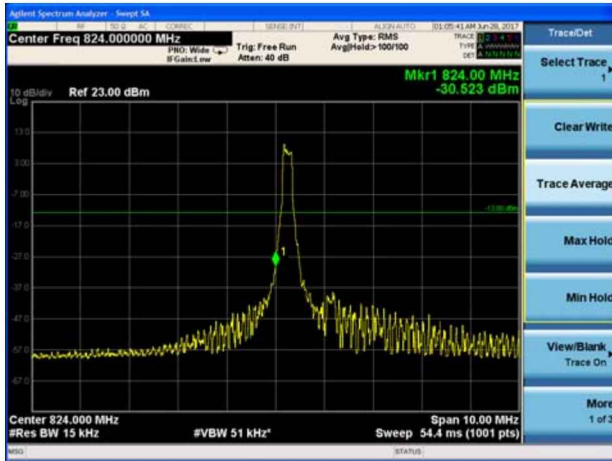


LTE Band 5 16QAM 10MHz CH-High 100%RB

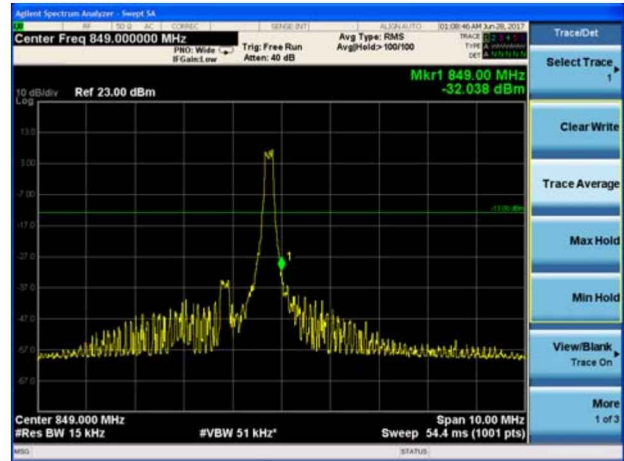




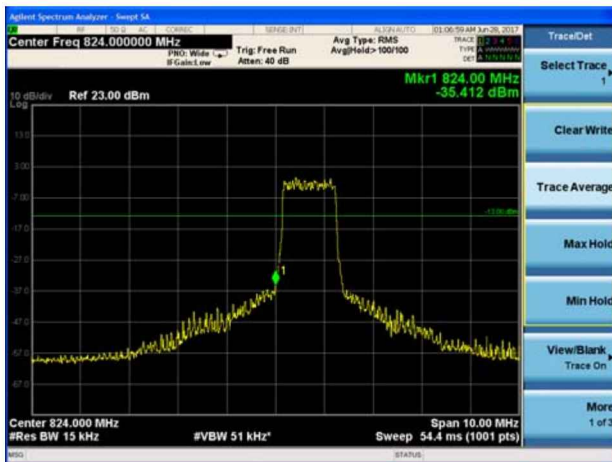
LTE Band 26 QPSK 1.4MHz CH-Low 1RB



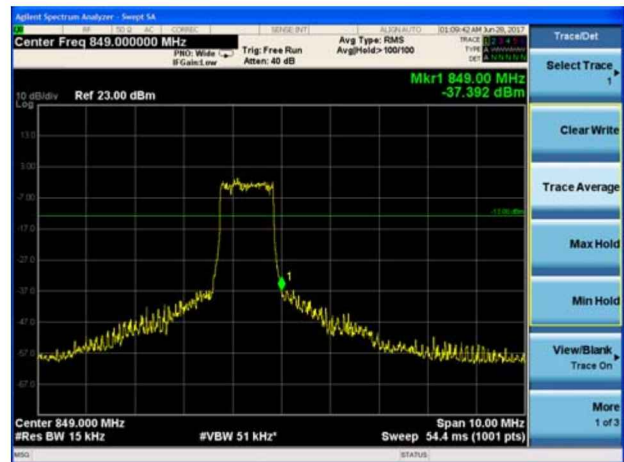
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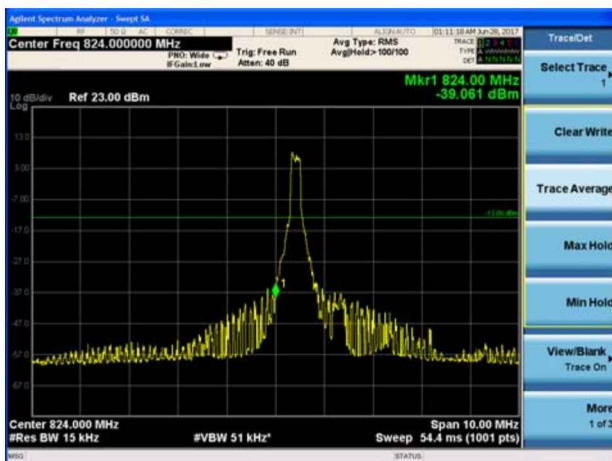
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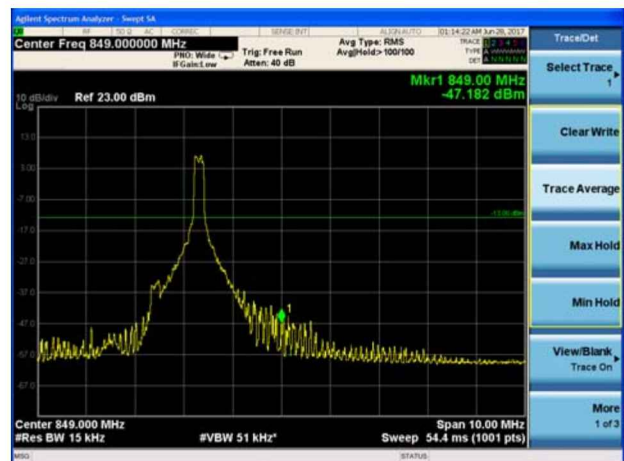
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LTE Band 26 QPSK 3MHz CH-Low 1RB

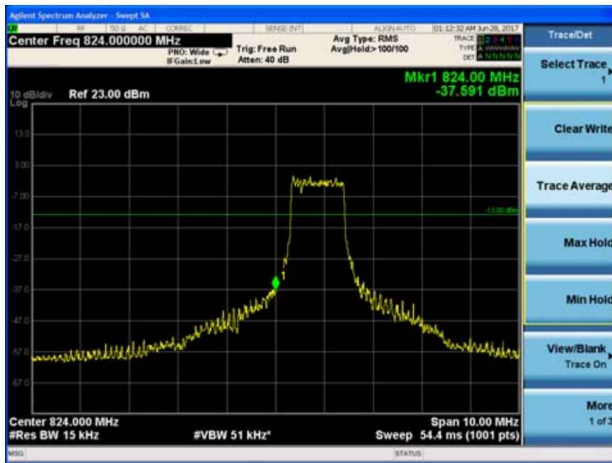


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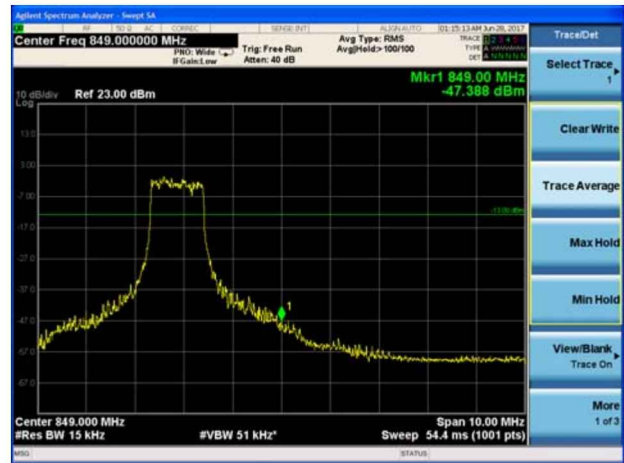




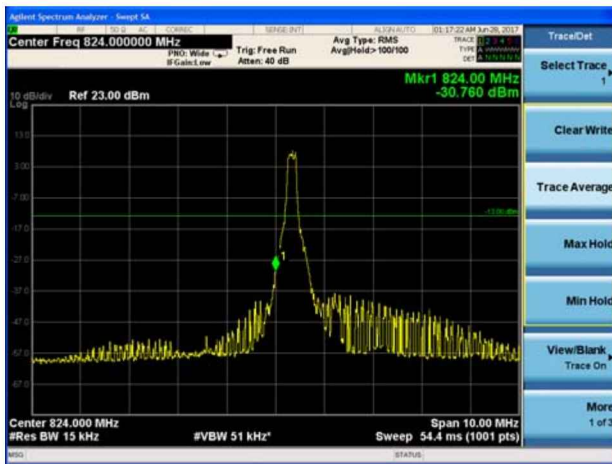
LTE Band 26 QPSK 3MHz CH-Low 100%RB



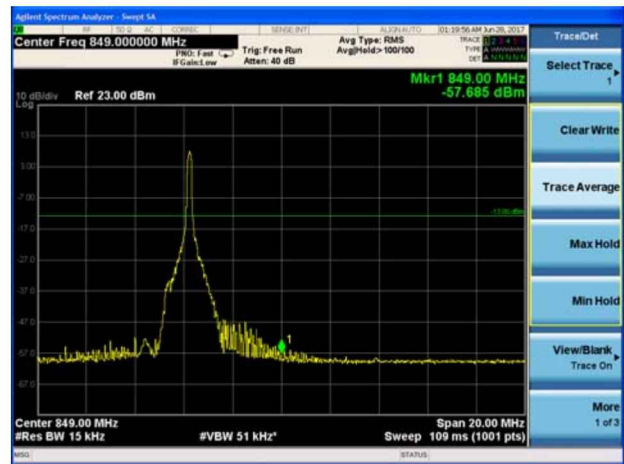
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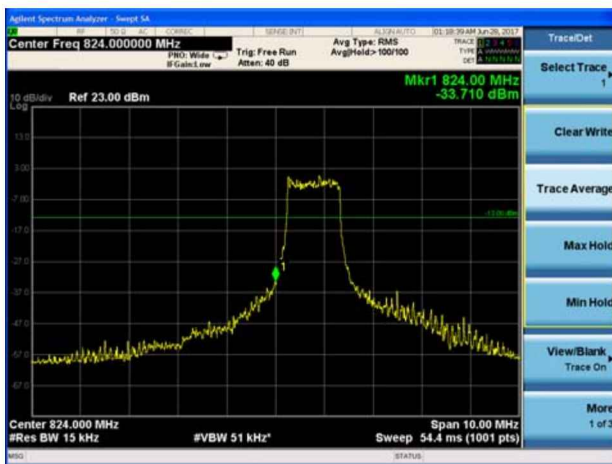
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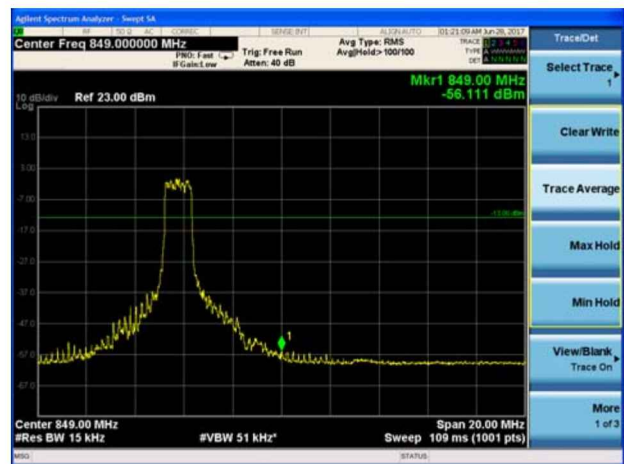
LTE Band 26 QPSK 5MHz CH-High 1RB



LTE Band 26 QPSK 5MHz CH-Low 100%RB

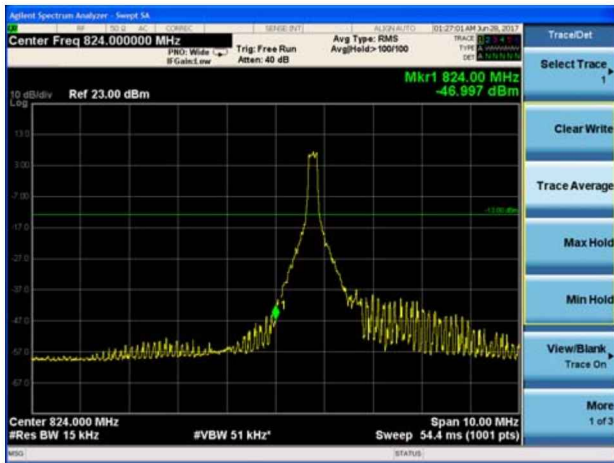


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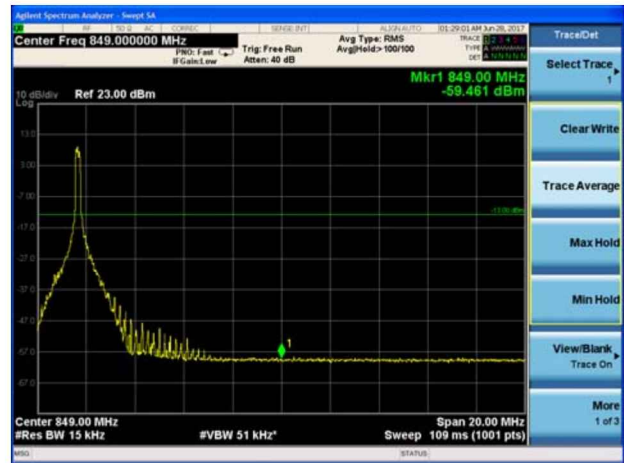




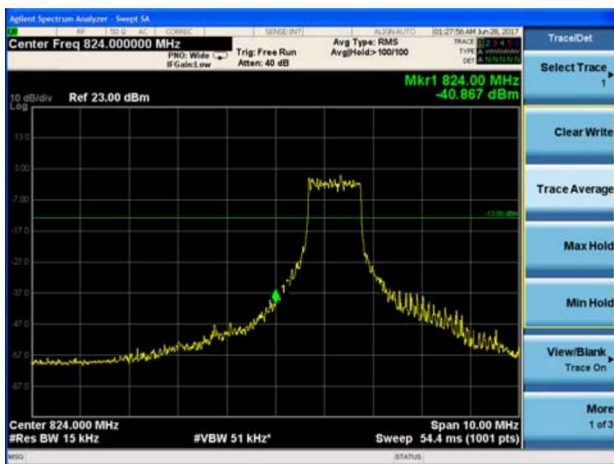
LTE Band 26 QPSK 10MHz CH-Low 1RB



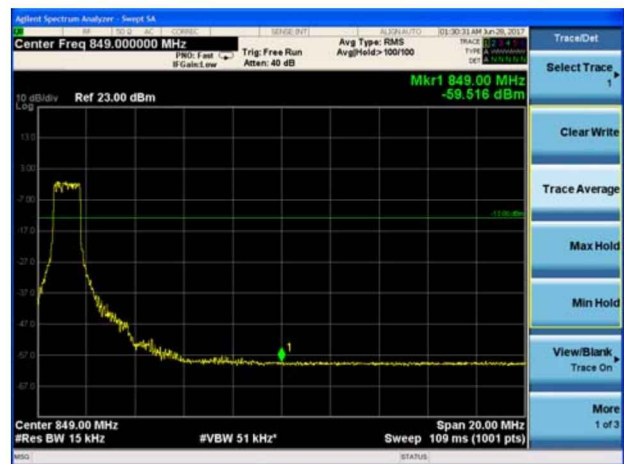
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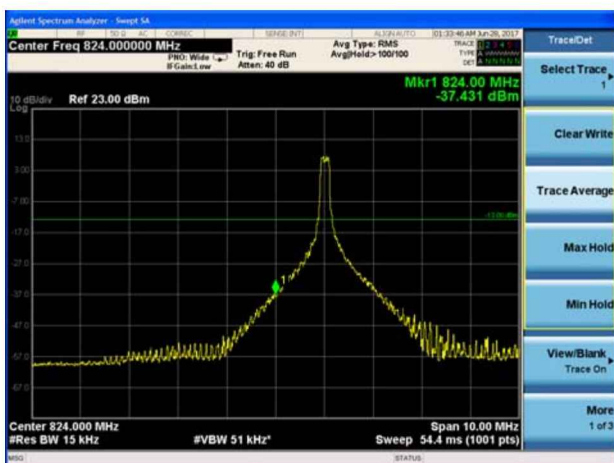
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LTE Band 26 QPSK 10MHz CH-High 100%RB



LTE Band 26 QPSK 15MHz CH-Low 1RB



LTE Band 26 QPSK 15MHz CH-High 1RB





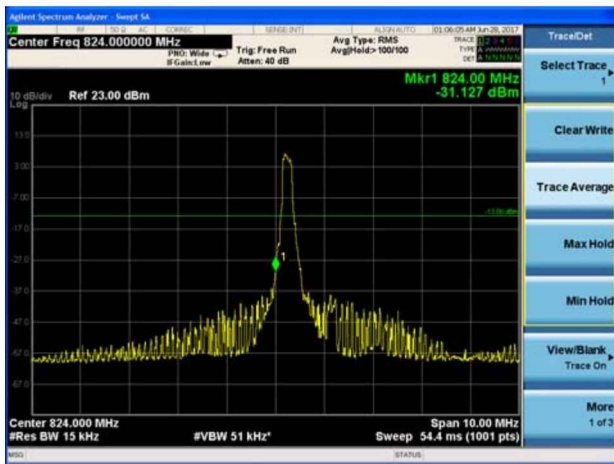
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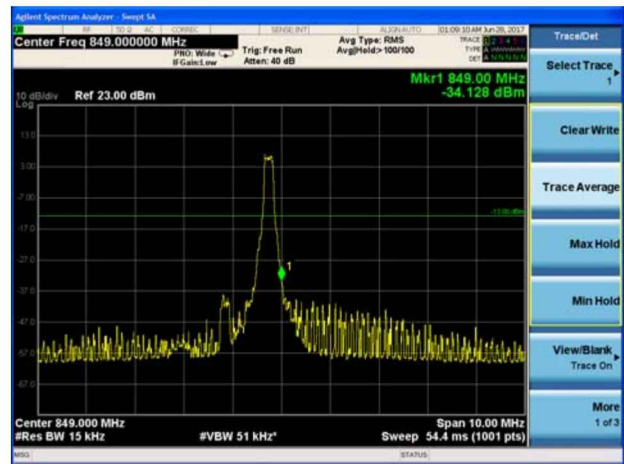
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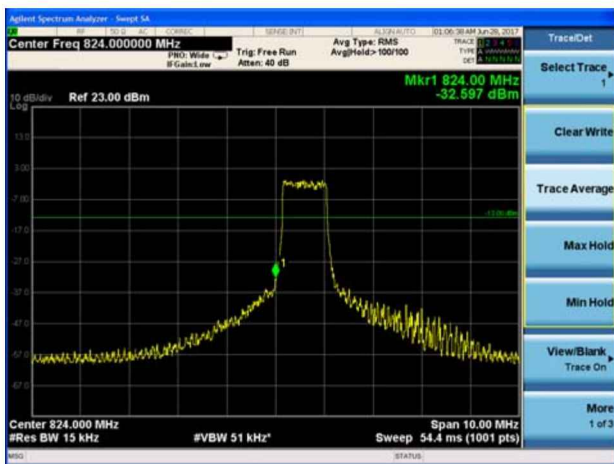
LTE Band 26 16QAM 1.4MHz CH-Low 1RB



LTE Band 26 16QAM 1.4MHz CH-High 1RB



LTE Band 26 16QAM 1.4MHz CH-Low 100%RB



LTE Band 26 16QAM 1.4MHz CH-High 100%RB

