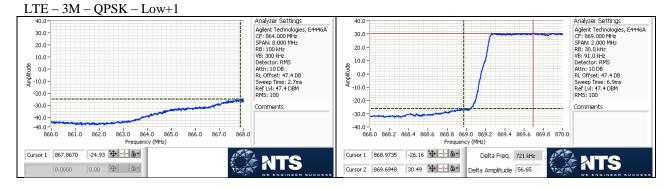
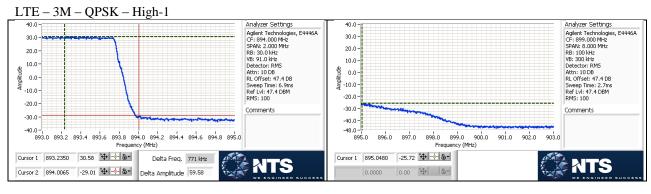
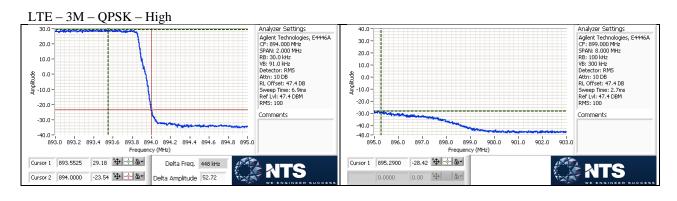
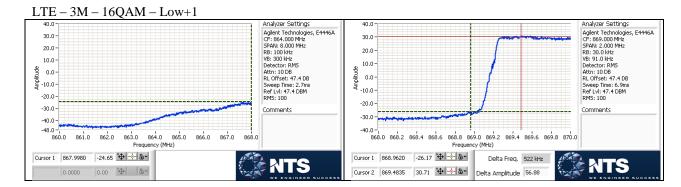
LTE - 3M - QPSK - LowAnalyzer Settings 30.0 Analyzer Settings Analyzer Settings Agilent Technologies, E4446A CF: 864.000 MHz SPAN: 8.000 MHz RB: 100 HHz UB: 300 HHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 2.7ms Ref Lyi: 47.4 DBM RM5: 100 Agilent Technologies, E4446A CF: 869.000 MHz SPAN: 2.000 MHz RB: 30.0 kHz 30.0 20.0 10.0 RB: 30.0 kHz VB: 91.0 kHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 6.9ms Ref Lvl: 47.4 DBM RMS: 100 10.0 90.0 - 10.0 - 0.0 0.0 -10.0 -20.0 -20.0 -30.0 Comments Comments -30.0 -40.0 .0-| 860.0 861.0 862.0 863.0 864.0 865.0 866.0 867.0 Frequency (MHz) 868.0 868.2 868.4 868.6 868.8 869.0 869.2 869.4 869.6 869.8 870.0 Cursor 1 867.7290 -27.83 ♣ -× 🐿 Cursor 1 869,0000 -23,99 💠 🖟 🗞 Delta Freq. 819 kHz 0.0000 0.00 🕁 🗟-Cursor 2 869.8187 29.38 💠 🛬 🖫 Delta Amplitude 53.37

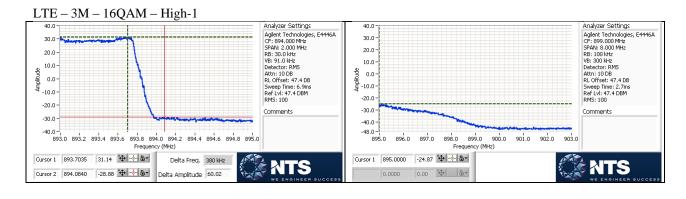


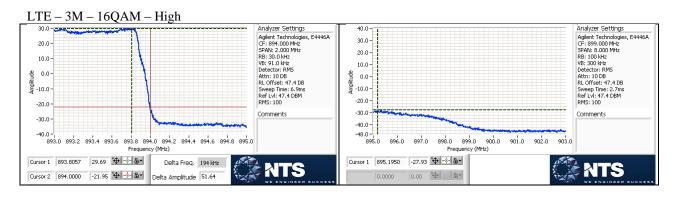




LTE - 3M - 16QAM - LowAnalyzer Settings 30.0 Analyzer Settings Analyzer Settings Agilent Technologies, E4446A CF: 864.000 MHz SPAN: 8.000 MHz RB: 100 HHz UB: 300 HHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 2.7ms Ref Lyi: 47.4 DBM RM5: 100 Agilent Technologies, E4446A CF: 869.000 MHz SPAN: 2.000 MHz RB: 30.0 kHz 30.0 20.0 10.0 RB: 30.0 kHz VB: 91.0 kHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 6.9ms Ref Lvl: 47.4 DBM RMS: 100 10.0 90.0 - 10.0 - 0.0 0.0 -10.0 -20.0 -20.0 -30.0 Comments Comments -30.0 -40.0 -48.0 861.0 862.0 863.0 864.0 865.0 866.0 867.0 Frequency (MHz) 868.0 868.2 868.4 868.6 868.8 869.0 869.2 869.4 869.6 869.8 870.0 Cursor 1 867.9230 -28.18 💠 🔆 🖫 Cursor 1 869,0000 -24,39 💠 🕸 🚳 Delta Freq. 471 kHz 0.0000 0.00 🗘 🔊 Cursor 2 869.4713 29.65 💠 🔆 🖫 Delta Amplitude 54.03







-30.0

Cursor 1 893.5937 29.44 💠 🕸

893.0 893.2 893.4 893.6 893.8 894.0 894.2 894.4 894.6 894.8 895.0

Cursor 2 894.0000 -23.31 + - 1 Delta Amplitude 52.75

Delta Freq. 406 kHz

LTE - 3M - 64QAM - LowAnalyzer Settings 30.0 Analyzer Settings Analyzer Settings Agilent Technologies, E4446A CF: 864.000 MHz SPAN: 8.000 MHz RB: 100 HHz UB: 300 HHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 2.7ms Ref Lyi: 47.4 DBM RM5: 100 Agilent Technologies, E4446A CF: 869.000 MHz SPAN: 2.000 MHz RB: 30.0 kHz 30.0 20.0 10.0 RB: 30.0 kHz VB: 91.0 kHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 6.9ms Ref Lvl: 47.4 DBM RMS: 100 10.0 90.0 - 10.0 - 0.0 0.0 -10.0 -20.0 -20.0 -30.0 Comments Comments -30.0 -40.0 .0-| 860.0 861.0 862.0 863.0 864.0 865.0 866.0 867.0 Frequency (MHz) 868.0 868.2 868.4 868.6 868.8 869.0 869.2 869.4 869.6 869.8 870.0 Cursor 1 867.7080 -27.92 💠 🔆 🖫 Cursor 1 869,0000 -24,60 💠 🕸 🖫 Delta Freq. 386 kHz 0.0000 0.00 🕁 🔠 Cursor 2 869.3865 29.33 💠 🐣 🖫 Delta Amplitude 53.94 LTE - 3M - 64QAM - Low+1Analyzer Settings Analyzer Settings Agilent Technologies, E4446A CF: 864.000 MHz Agilent Technologies, E4446A CF: 869.000 MHz 30.0 CF: 864.000 MHz SPAN: 8.000 MHz RB: 100 kHz VB: 300 kHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 2.7ms Ref Lvl: 47.4 DBM RMS: 100 CF: 869.000 MHz SPAN: 2.000 MHz RB: 30.0 kHz VB: 91.0 kHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 6.9ms Ref Lvl: 47.4 DBM RMS: 100 20.0 20.0 10.0 10.0 -0.0 - 0.0 0.0 -10.0 -20.0 -20.0 -30.0 Comments Comments -30.0 -40.0 -48.0 -40.0 868.0 868.2 868.4 868.6 868.8 869.0 869.2 869.4 869.6 869.8 870.0 860.0 861.0 862.0 863.0 864.0 865.0 866.0 867.0 868.0 Cursor 1 867.8100 -24.81 💠 🕸 Cursor 1 868.9603 -26.10 💠 🕸 🖫 Delta Freq. 318 kHz 0.0000 0.00 🕁 🔊 Cursor 2 869.2778 30.75 💠 🛧 🖫 Delta Amnlitude 56.85 LTE - 3M - 64QAM - High-1Analyzer Settings Analyzer Settings Analyzer Settings Agilent Technologies, E4446A CF: 894.000 MHz SPAN: 2.000 MHz BB: 30.0 Htz VB: 91.0 kHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sween Time: 6 9ms Analyzer Settings Agilent Technologies, E4446A CF: 899.000 MHz SPAN: 8.000 MHz RB: 100 Htz VB: 300 KHz Detector: RM5 Attn: 10 DB RL Offset: 47.4 DB Sween Time: 2.7ms 30.0-30.0 20.0-20.0 10.0-10.0 0.0-0.0 10.0--10.0 -20.0--20.0 -30.0 -Comments Comments -30.0 -40.0 896.0 897.0 898.0 899.0 900.0 901.0 902.0 Frequency (MHz) Cursor 1 893.4703 30.67 🕁 🔆 🖫 Cursor 1 895.1010 -25.09 💠 🕸 0.0000 0.00 🕁 🗟 -Cursor 2 894.1520 -28.63 + - - Delta Amplitude 59.30 LTE - 3M - 64QAM - HighAnalyzer Settings Agilent Technologies, E4446A CF: 894.000 MHz SPAN: 2.000 MHz Analyzer Settings Agilent Technologies, E4446A CF: 899.000 MHz SPAN: 8.000 MHz 40.0 30.0 20.0 20.0 SPAN: 2.000 MHz RB: 30.0 kHz VB: 91.0 kHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 6.9ms Ref LVI: 47.4 DBM SPAN: 8.000 MHz RB: 100 kHz VB: 300 kHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 2.7ms Ref Lvl: 47.4 DBM 10.0 용 0.0 0.0 # -10.0 변 -10.0-RMS: 100 RMS: 100

-30.0

-40.0

895.0 896.0

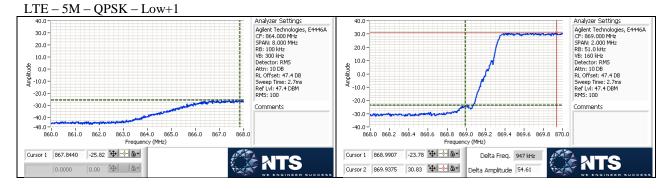
Cursor 1 895.3200 -27.66 + -- 6

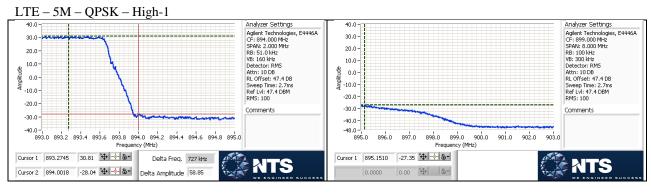
0.00 🕁 🎳

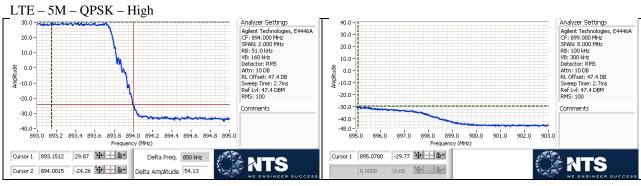
897.0 898.0 899.0 900.0 901.0 902.0 903.0

ncy (MHz)

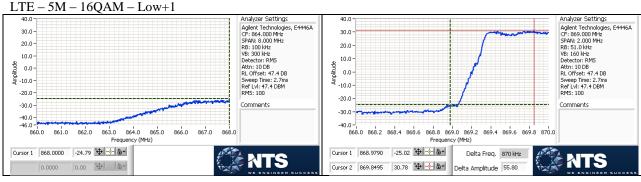
LTE - 5M - QPSK - LowAnalyzer Settings 30.0 Analyzer Settings Analyzer Settings Agilent Technologies, E4446A CF: 864.000 MHz SPAN: 8.000 MHz RB: 100 HHz UB: 300 HHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 2.7ms Ref Lyi: 47.4 DBM RM5: 100 Agilent Technologies, E4446A CF: 869.000 MHz SPAN: 2.000 MHz RB: 51.0 kHz 30.0 20.0 10.0 RB: 51.0 kHz VB: 160 kHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 2.7ms Ref LvI: 47.4 DBM RMS: 100 10.0 -0.0 - White 0.0 -10.0 -20.0 -20.0 Comments -30.0 -30.0 -40.0 860.0 861.0 862.0 863.0 864.0 865.0 866.0 867.0 868.0 Frequency (MHz) 868.0 868.2 868.4 868.6 868.8 869.0 869.2 869.4 869.6 869.8 870.0 Cursor 1 867.4780 -29.34 💠 🔆 🖫 Cursor 1 869.0000 -22.82 💠 🗻 🖫 Delta Freq. 955 kHz Cursor 2 869,9550 29.50 🕁 🕸 Delta Amplitude 52.32 0.0000 0.00 🗘 🗟 -

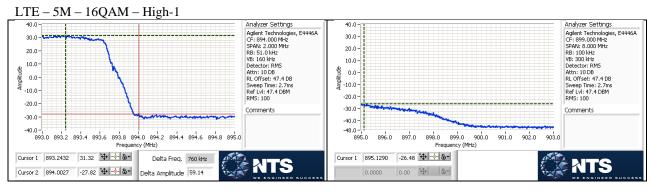


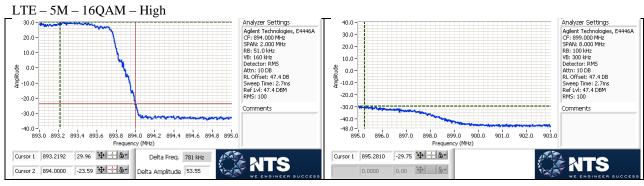




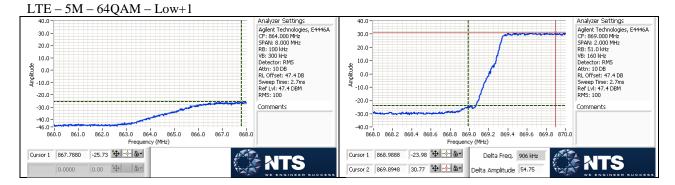
LTE - 5M - 16QAM - LowAnalyzer Settings 30.0 Analyzer Settings Analyzer Settings Agilent Technologies, E4446A CF: 864.000 MHz SPAN: 8.000 MHz RB: 100 HHz UB: 300 HHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 2.7ms Ref Lyi: 47.4 DBM RM5: 100 Agilent Technologies, E4446A CF: 869.000 MHz SPAN: 2.000 MHz RB: 51.0 kHz 30.0 20.0 10.0 RB: 51.0 kHz VB: 160 kHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 2.7ms Ref Lvl: 47.4 DBM RMS: 100 10.0 90.0 - 10.0 - 0.0 0.0 -10.0 -20.0 -20.0 -30.0 Comments Comments -30.0 -40.0 868.0 868.2 868.4 868.6 868.8 869.0 869.2 869.4 869.6 869.8 870.0 Cursor 1 867.8490 -28.93 ♣ -× 🐿 Cursor 1 869,0000 -23,68 + * & Delta Freq. 686 kHz 0.0000 0.00 🕁 🗟-Cursor 2 869.6860 29.76 💠 🛬 🖫 Delta Amplitude 53.44

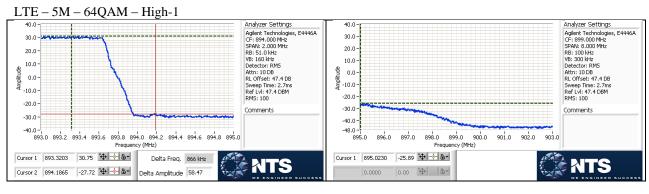


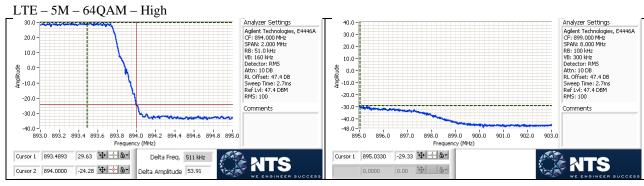




LTE - 5M - 64QAM - LowAnalyzer Settings 30.0 Analyzer Settings Analyzer Settings Agilent Technologies, E4446A CF: 864.000 MHz SPAN: 8.000 MHz RB: 100 HHz UB: 300 HHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 2.7ms Ref Lyi: 47.4 DBM RM5: 100 Agilent Technologies, E4446A CF: 869.000 MHz SPAN: 2.000 MHz RB: 51.0 kHz 30.0 20.0 10.0 RB: 51.0 kHz VB: 160 kHz Detector: RMS Attn: 10 DB RL Offset: 47.4 DB Sweep Time: 2.7ms Ref Lvl: 47.4 DBM RMS: 100 10.0 90.0 - 10.0 - 0.0 0.0 -10.0 -20.0 -20.0 -30.0 Comments -30.0 -40.0 868.0 868.2 868.4 868.6 868.8 869.0 869.2 869.4 869.6 869.8 870.0 860.0 861.0 862.0 863.0 864.0 865.0 866.0 867.0 868.0 Frequency (MHz) Cursor 1 867.4400 -28.64 💠 -*- 🖫 Cursor 1 869,0000 -23,89 💠 🕸 🚳 Delta Freq. 378 kHz 0.0000 0.00 🕁 🗟-Cursor 2 869.3782 29.67 💠 🔆 🖫 Delta Amplitude 53.55



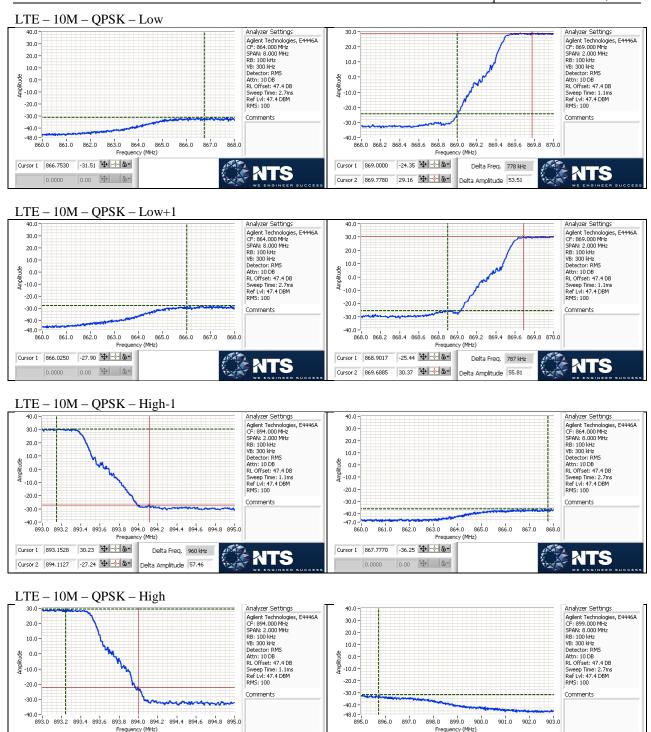




Cursor 1 893.2468 29.41 🗘 🔆 🖫

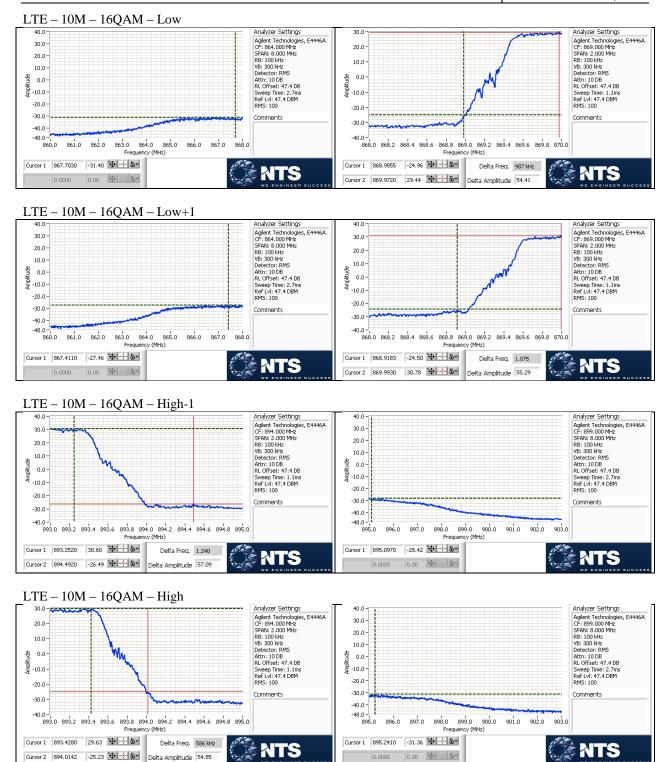
Cursor 2 894.0000 -22.43 + - - - Delta Amplitude 51.83

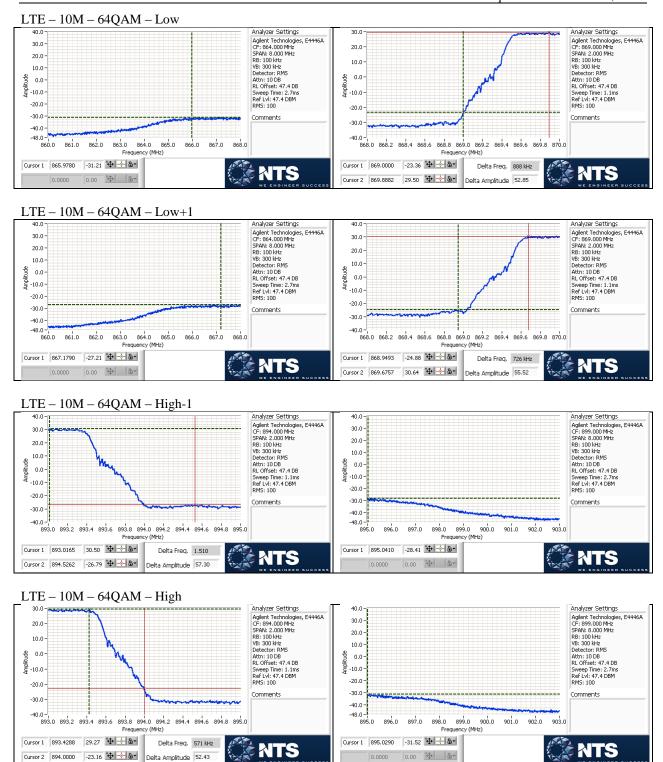
Delta Freq. 753 kHz



Cursor 1 895.7380 -31.80 + -- 6

0.00 🕁 🎳





Transmitter Antenna Port Conducted Spurious Emissions

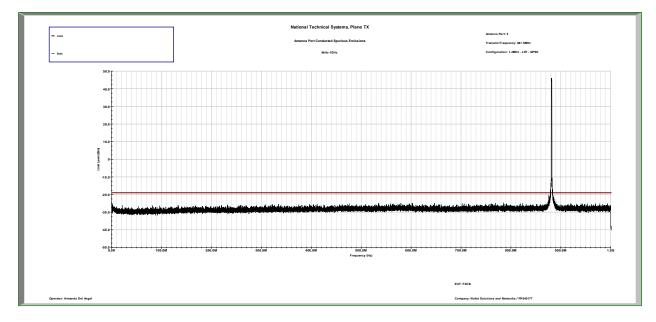
Tests performed at Port 5 on center channel for all modulations and bandwidth modes. Due to 4x4 MIMO operation, limit is -19.03dBm (-13dBm -10*log(4)) per FCC KDB 662911D01 v02r01.

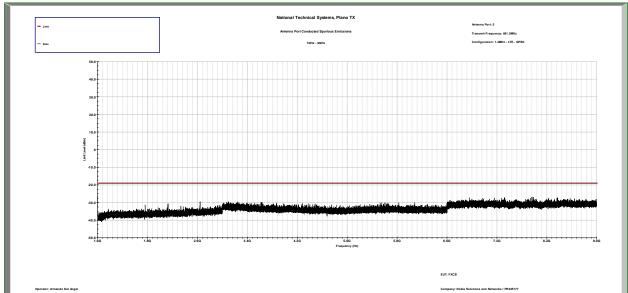
TILE6 measurement software was used during testing with the following settings:

Frequency Range	RBW	VBW	Number of data points	Divided into	Detector	Sweep Time	Max hold over
9kHz-150kHz	1kHz	3kHz	8000	1 segment	Peak	Auto	50 sweeps
150kHz-9GHz	100kHz	300kHz	8000	12 segments	Peak	Auto	50 sweeps

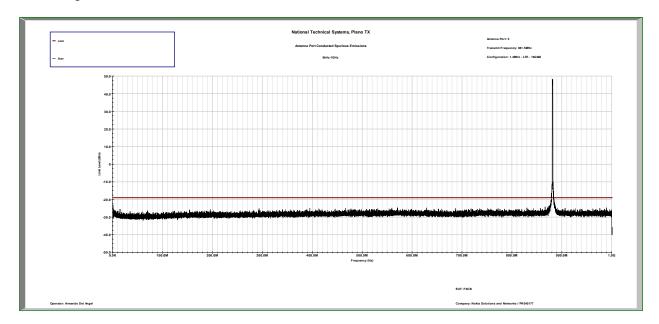
Corresponding plots are included on the following pages.

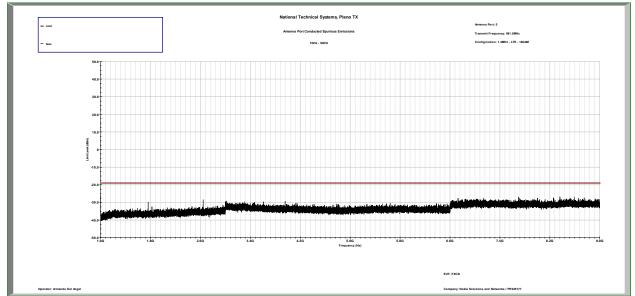
LTE-QPSK-1.4M





LTE - 16QAM - 1.4M





LTE - 64QAM - 1.4M

