

Antenna Port Conducted Bandedge

90.691 Limits (dBm)			
Frequency Range (MHz)		Limit (dBm)	RBW
<851.9625		-19.02	100kHz
851.9625	851.9875	-26	27kHz
869.0125	869.0375	-26	27kHz
>869.0375		-19.02	100kHz

Tests performed at Port 1 on lowest and highest channels for all modulations and channel bandwidth modes. Limits are reduced by 10 Log (4) per FCC KDB 66291D01 v02r01 due to 4x4 MIMO operation. LTE 1.4 MHz and 3 MHz modes required power reduction at the lowest and highest channels to meet bandedge limits as described in output power section of this report.

Results summary:

851.9625-851.9875MHz & 869.0125-869.0375MHz

	LTE - QPSK		LTE - 16QAM		LTE - 64QAM		Limit
	Low	High	Low	High	Low	High	
1.4M	-32.70dBm*	-33.12dBm*	-32.41dBm*	-34.66dBm*	-32.43dBm*	-34.55dBm*	-26dBm
1.4M±1	-36.23dBm*	-43.07dBm*	-36.22dBm*	-41.95dBm*	-36.13dBm*	-42.86dBm*	-26dBm
1.4M±2	-36.25dBm*	-45.41dBm*	-37.00dBm*	-44.22dBm*	-37.20dBm*	-45.92dBm*	-26dBm
1.4M±3	-37.09dBm*	-45.93dBm*	-36.44dBm*	-44.32dBm*	-37.10dBm*	-44.93dBm*	-26dBm
1.4M±4	-26.48dBm	-45.95dBm*	-26.82dBm	-45.97dBm	-26.55dBm	-45.21dBm*	-26dBm
1.4M±5	N/A	-27.00dBm	N/A	-26.44dBm	N/A	-26.33dBm	-26dBm
3M	-34.05dBm*	-34.38dBm*	-35.02dBm*	-34.08dBm*	-35.06dBm	-33.71dBm*	-26dBm
3M+1	-28.58dBm	-30.79dBm	-29.12dBm	-30.70dBm	-28.74dBm	-30.26dBm	-26dBm
5M	-28.97dBm	-28.73dBm	-29.36dBm	-29.47dBm	-29.55dBm	-28.07dBm	-26dBm
10M	-29.89dBm	-30.23dBm	-30.78dBm	-31.11dBm	-30.05dBm	-30.47dBm	-26dBm
15M	-29.69dBm	-29.73dBm	-30.07dBm	-30.66dBm	-30.38dBm	-30.08dBm	-26dBm
1.4M Dual	-26.30dBm*	-26.61dBm*	-27.09dBm*	-27.29dBm	-26.72dBm*	-26.89dBm	-26dBm
1.4M Dual ±1	-26.95dBm	-28.31dBm	-28.07dBm	-28.42dBm	-27.43dBm	-28.98dBm	-26dBm

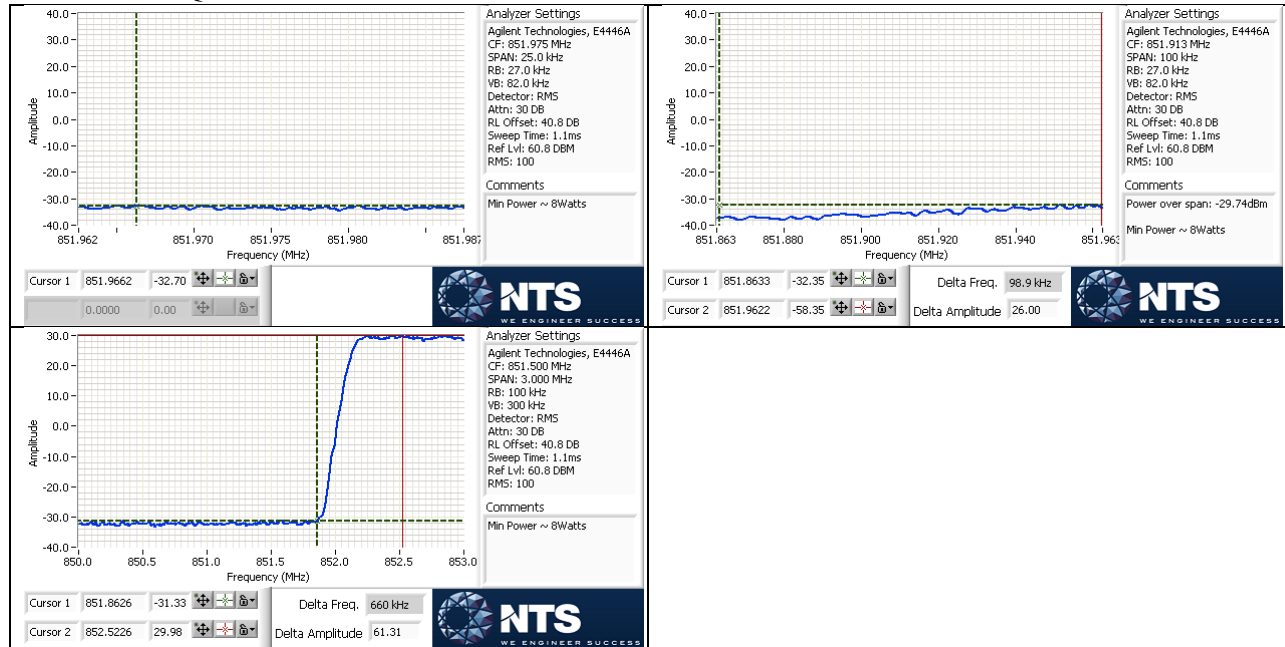
< 851.9625MHz & >869.0375MHz

	LTE - QPSK		LTE - 16QAM		LTE - 64QAM		Limit
	Low	High	Low	High	Low	High	
1.4M	-29.74dBm*	-30.1dBm*	-29.75dBm*	-30.25dBm*	-29.76dBm*	-30.28dBm*	-19.00dBm
1.4M±1	-32.18dBm*	-32.48dBm*	-32.14dBm*	-32.32dBm*	-32.3dBm*	-32.56dBm*	-19.00dBm
1.4M±2	-32.45dBm*	-32.58dBm*	-32.46dBm*	-32.51dBm*	-32.33dBm*	-32.54dBm*	-19.00dBm
1.4M±3	-32.44dBm*	-32.62dBm*	-32.52dBm*	-32.31dBm*	-32.57dBm*	-32.59dBm*	-19.00dBm
1.4M±4	-20.07dBm	-32.62dBm*	-20.74dBm	-32.62dBm*	-20.46dBm	-32.58dBm	-19.00dBm
1.4M±5	N/A	-22.65dBm	N/A	-22.2dBm	N/A	-21.44dBm	-19.00dBm
3M	-32.04dBm*	-32.09dBm*	-32.19dBm*	-32.10dBm*	-32.04dBm*	-32.15dBm*	-19.00dBm
3M+1	-24.79dBm	-25.38dBm	-25.45dBm	-25.23dBm	-25.21dBm	-25.66dBm	-19.00dBm
5M	-25.74dBm	-26.61dBm	-25.71dBm	-26.92dBm	-25.92dBm	-27.02dBm	-19.00dBm
10M	-29.49dBm	-30dBm	-29.59dBm	-29.96dBm	-29.61dBm	-29.83dBm	-19.00dBm
15M	-27.53dBm	-27.63dBm	-27.74dBm	-27.84dBm	-28.24dBm	-27.74dBm	-19.00dBm
1.4M Dual	-23.44dBm*	-23.45dBm*	-24.30dBm*	-23.79dBm*	-23.97dBm	-23.63dBm*	-19.00dBm
1.4M Dual ±1	-24.49dBm	-24.56dBm	-24.40dBm	-24.77dBm	-24.57dBm	-24.95dBm	-19.00dBm

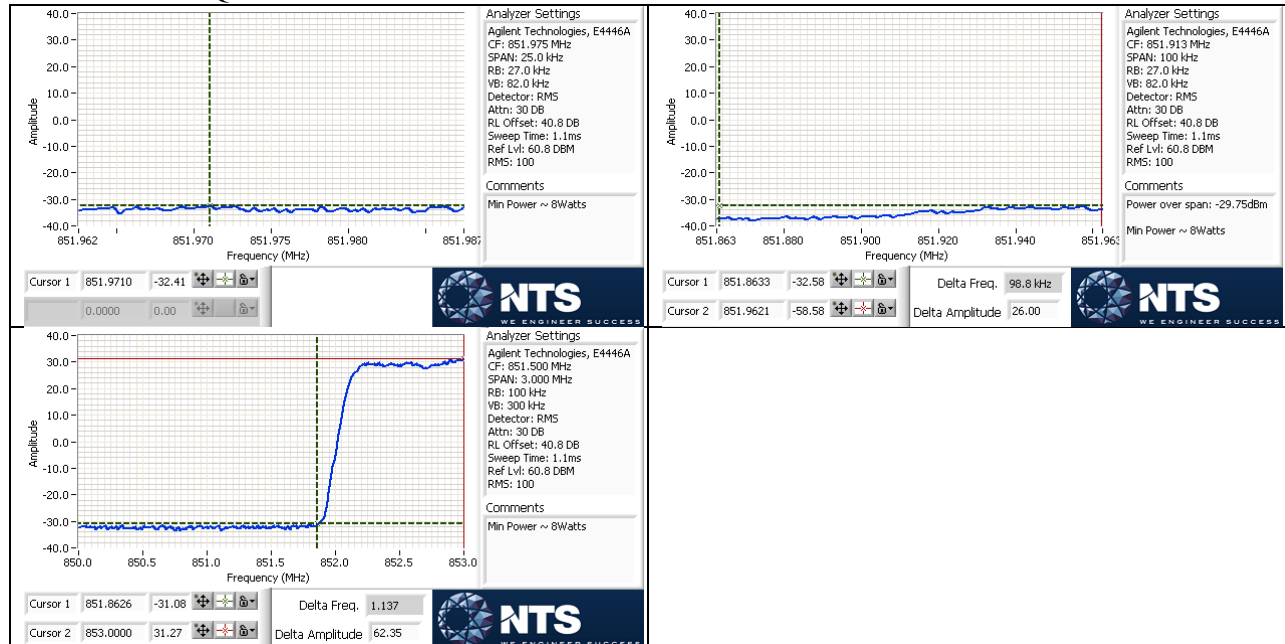
* = Min Power ~ 8Watts Per Channel

All corresponding plots are included on the following pages. Measurements were performed at Port 1 in RMS average mode over 100 traces. Total path loss of 40.8dB accounted in via reference level offset to the spectrum analyzer.

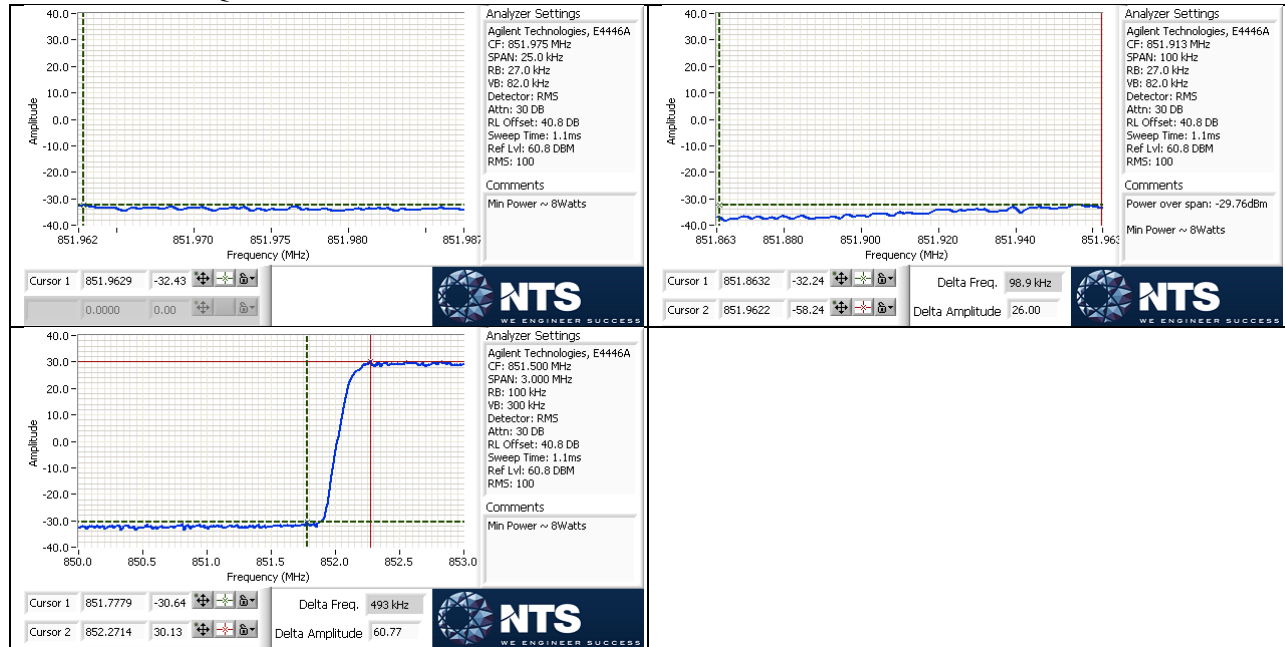
1.4M – LTE – QPSK – LOW



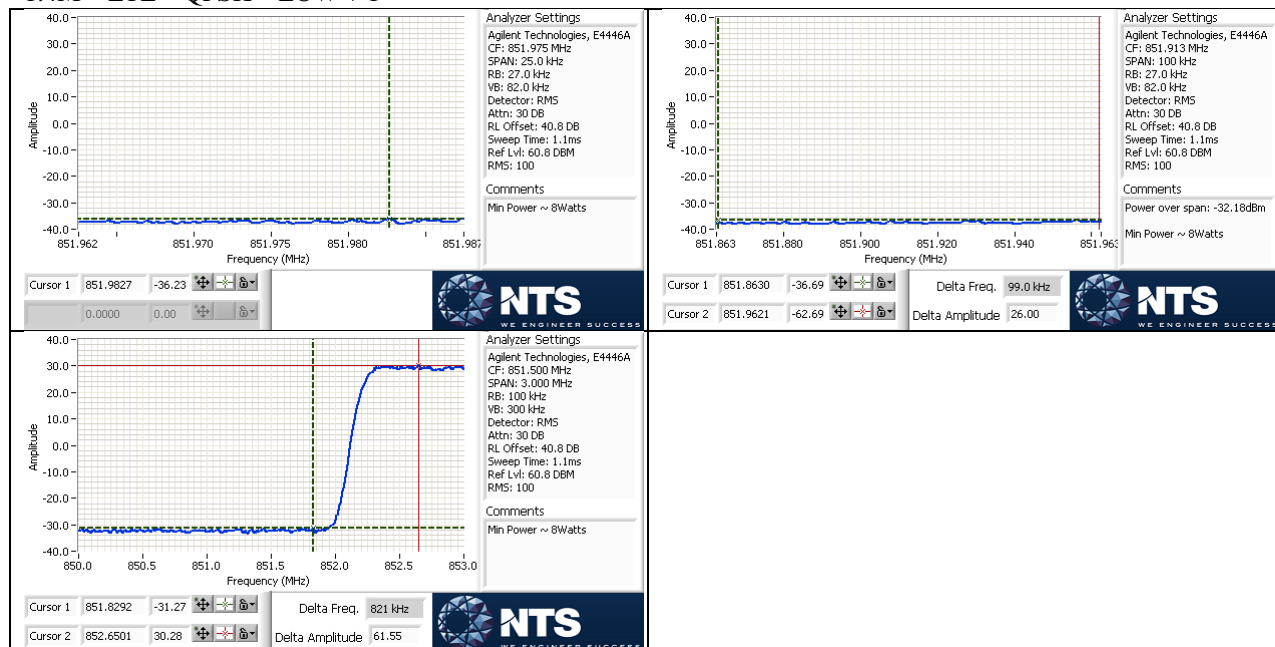
1.4M – LTE – 16QAM – LOW



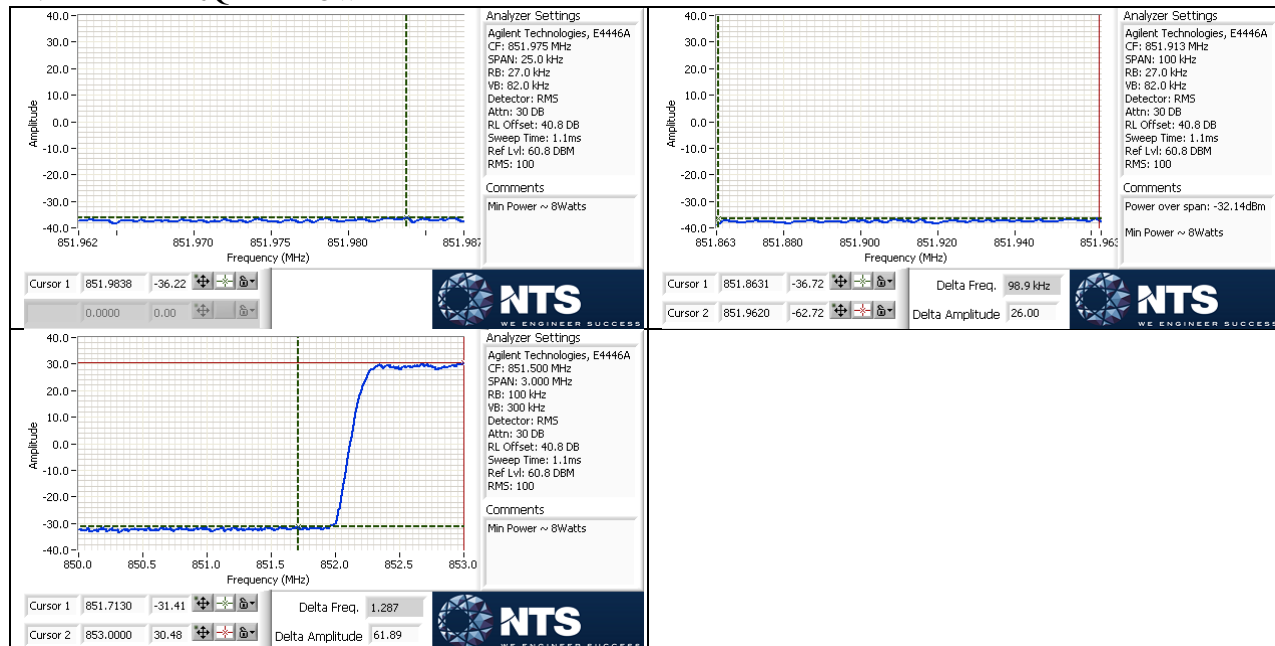
1.4M – LTE – 64QAM – LOW



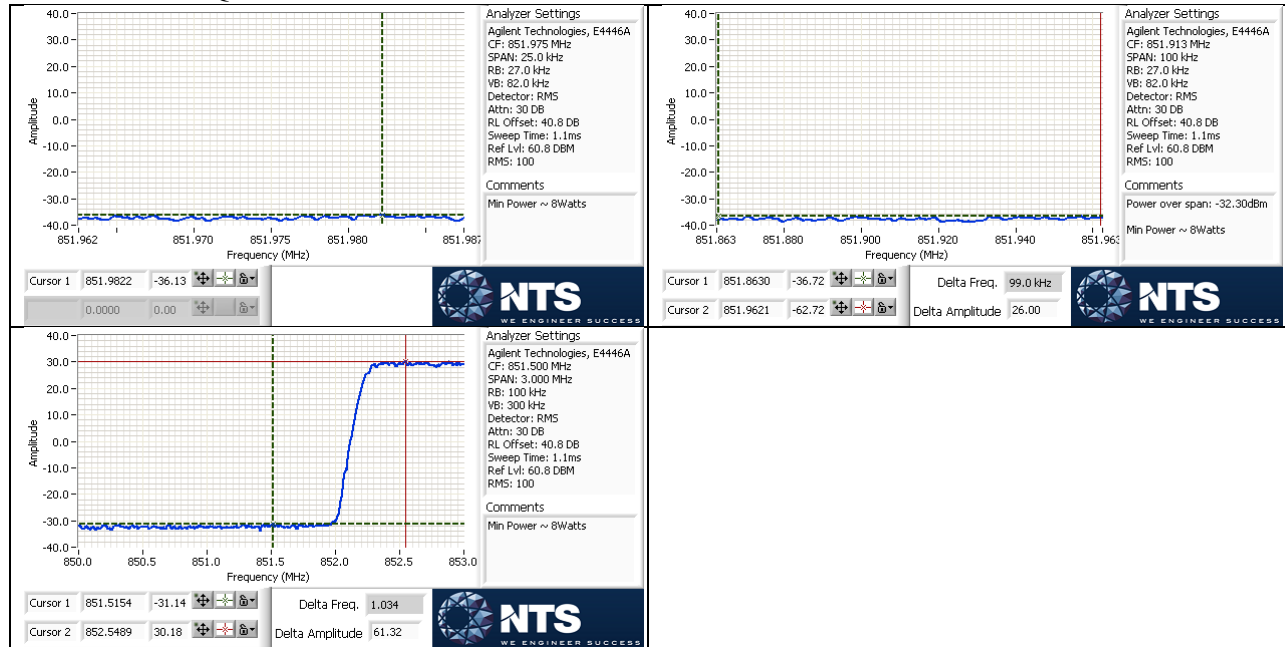
1.4M – LTE – QPSK – LOW + 1



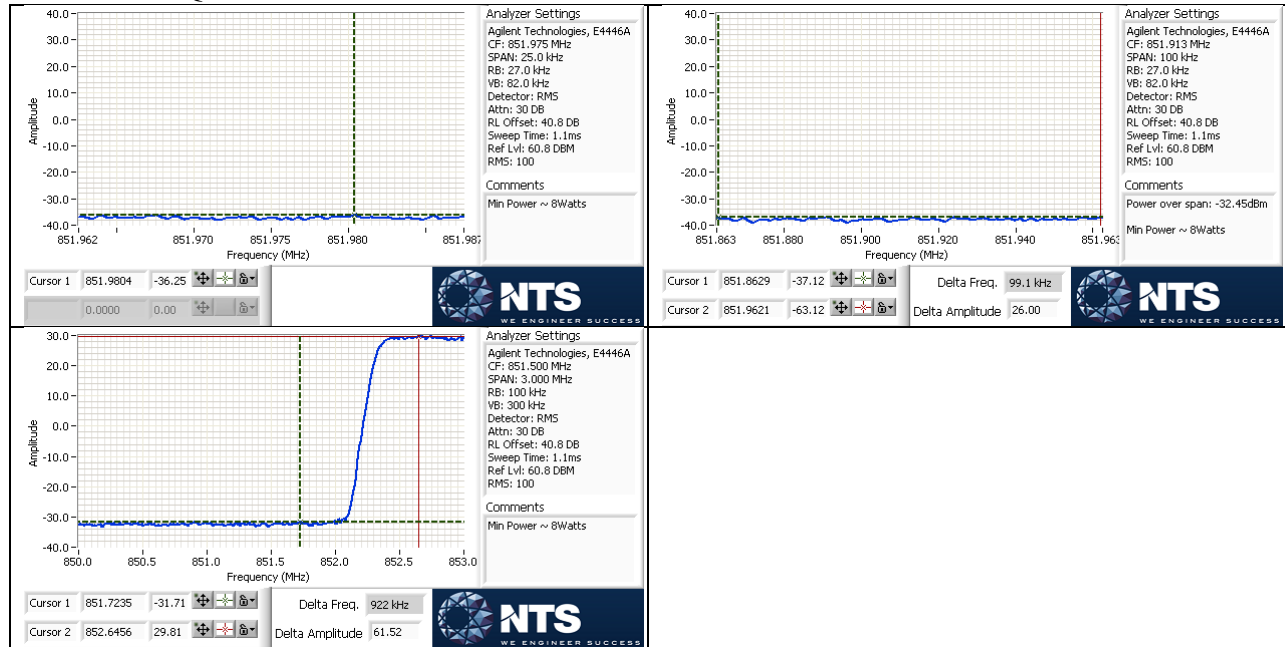
1.4M – LTE – 16QAM – LOW + 1



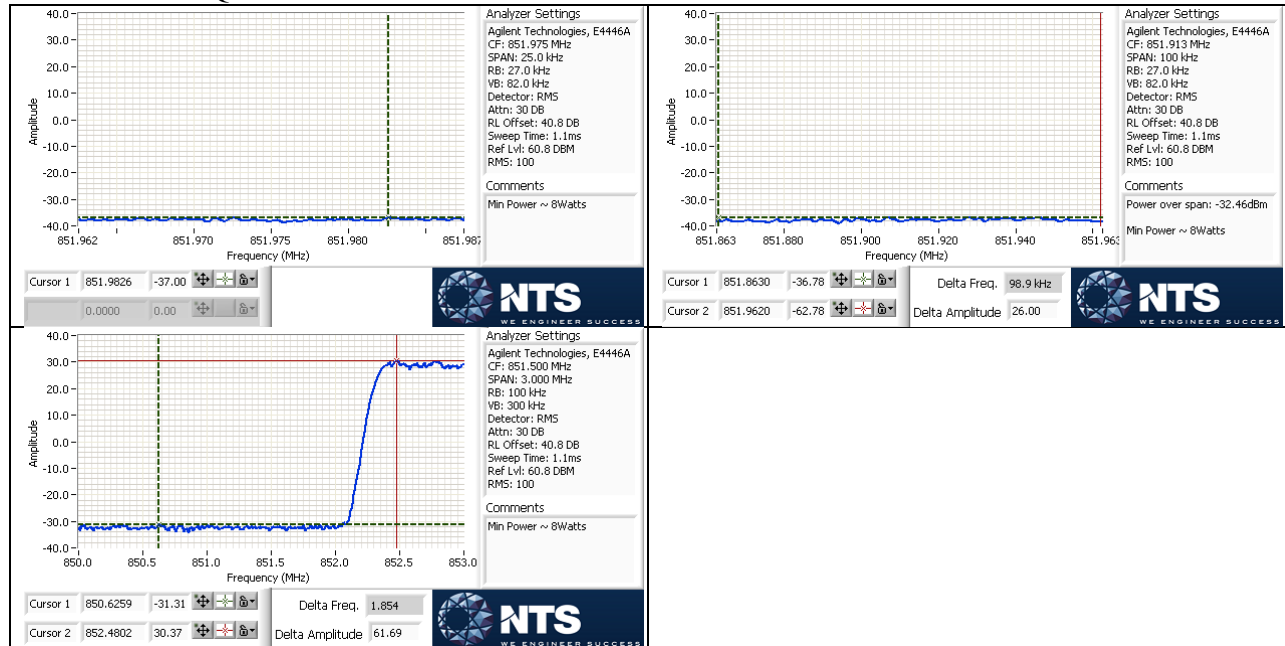
1.4M – LTE – 64QAM – LOW + 1



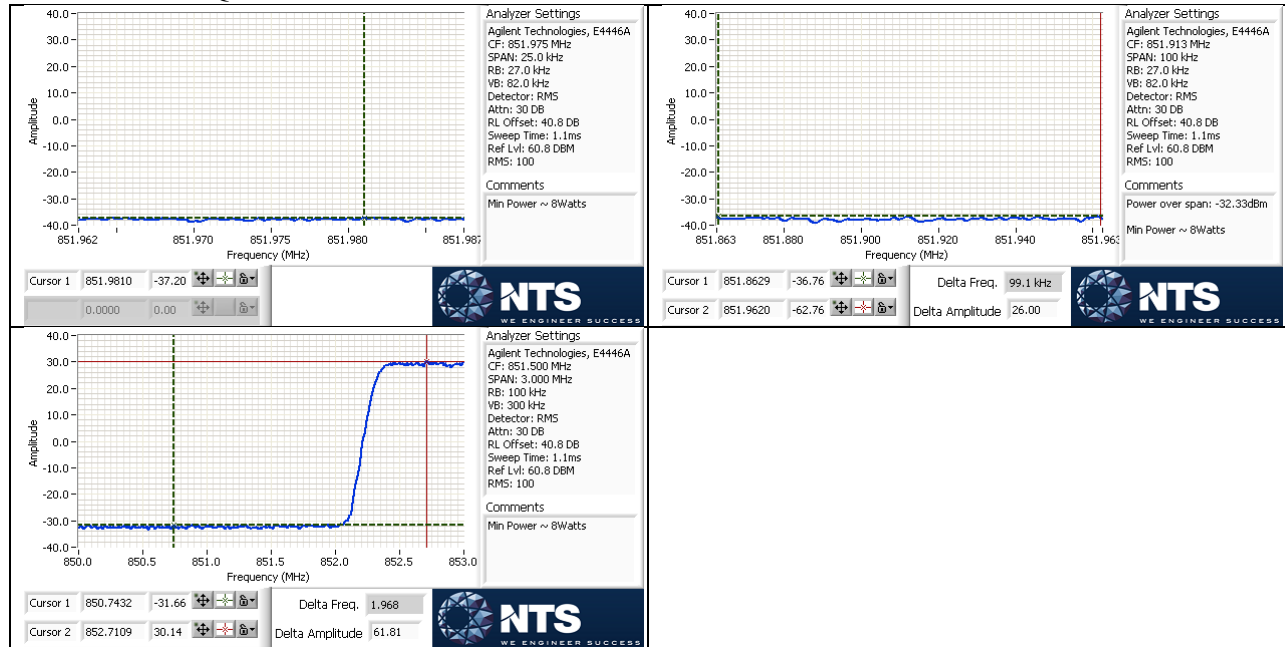
1.4M – LTE – QPSK – LOW + 2



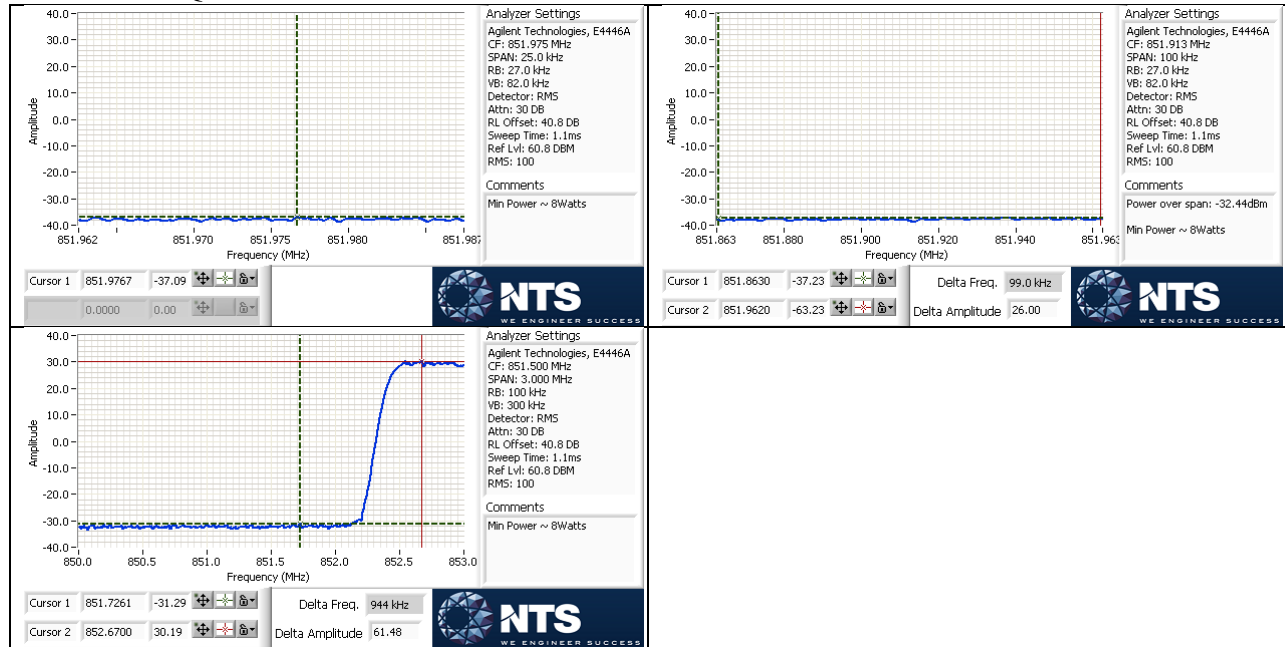
1.4M – LTE – 16QAM – LOW + 2



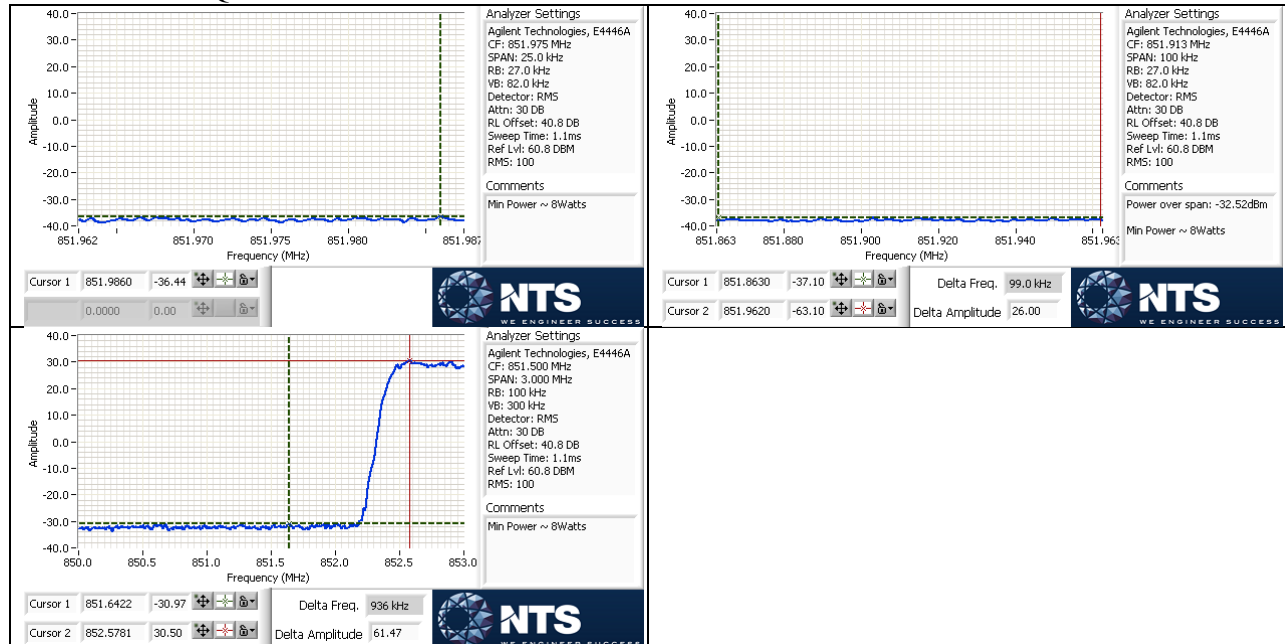
1.4M – LTE – 64QAM – LOW + 2



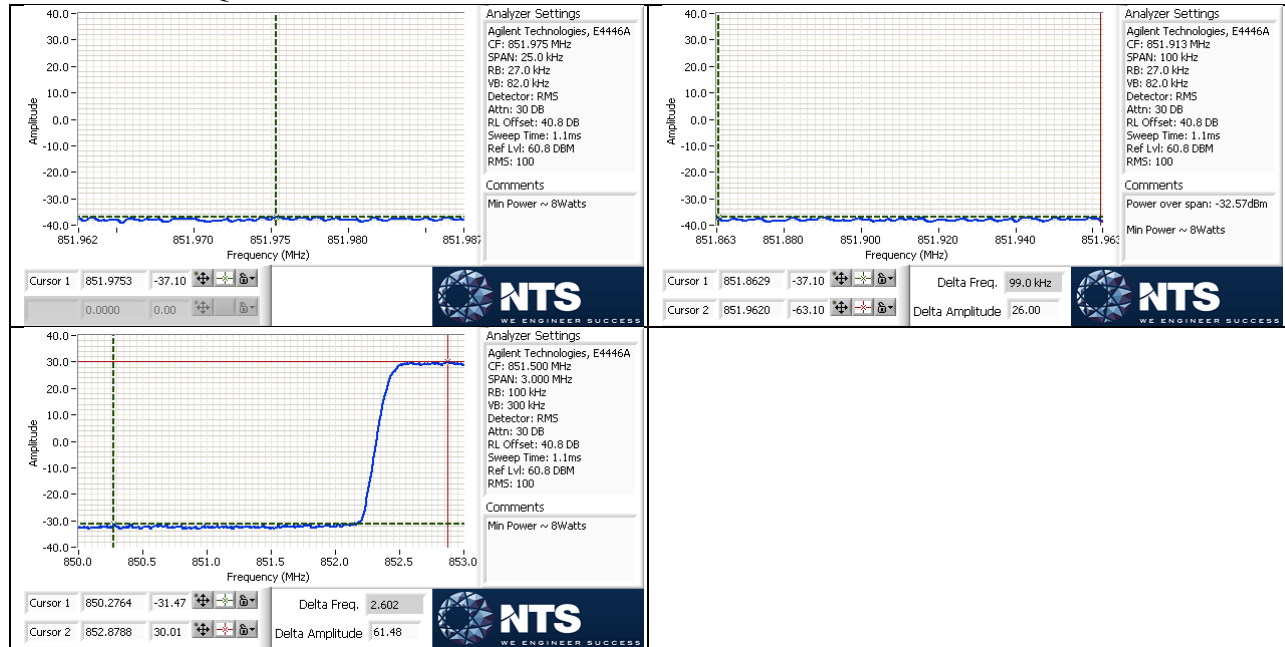
1.4M – LTE – QPSK – LOW + 3



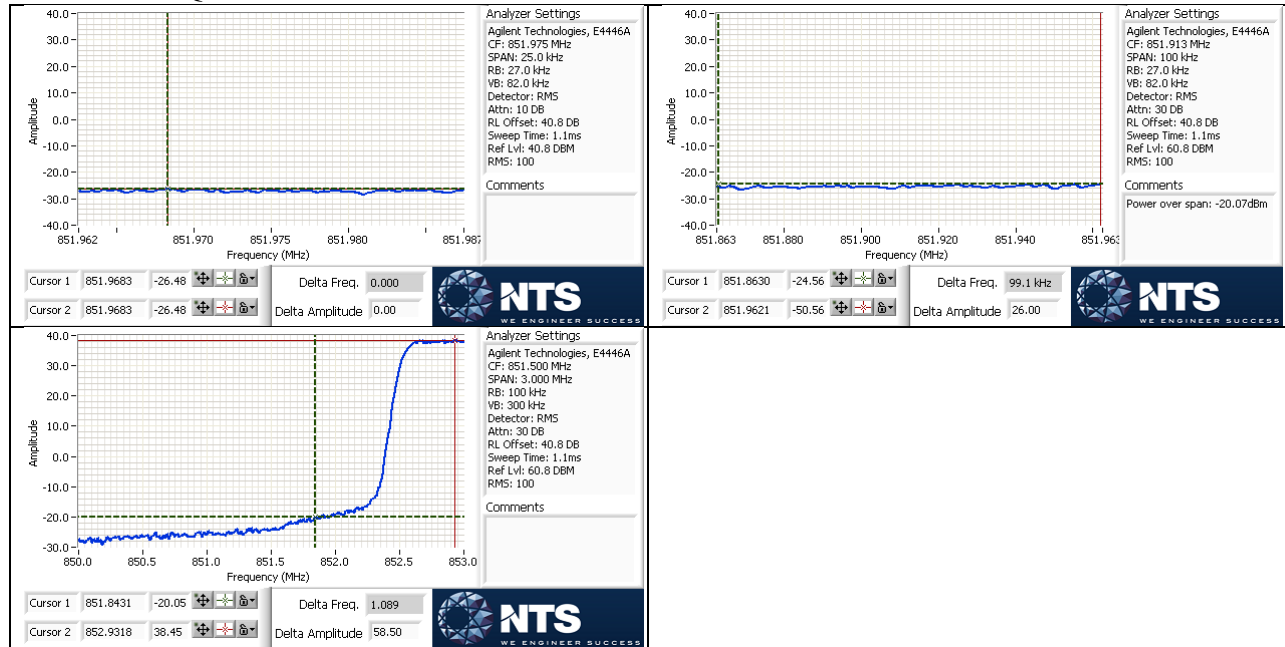
1.4M – LTE – 16QAM – LOW + 3



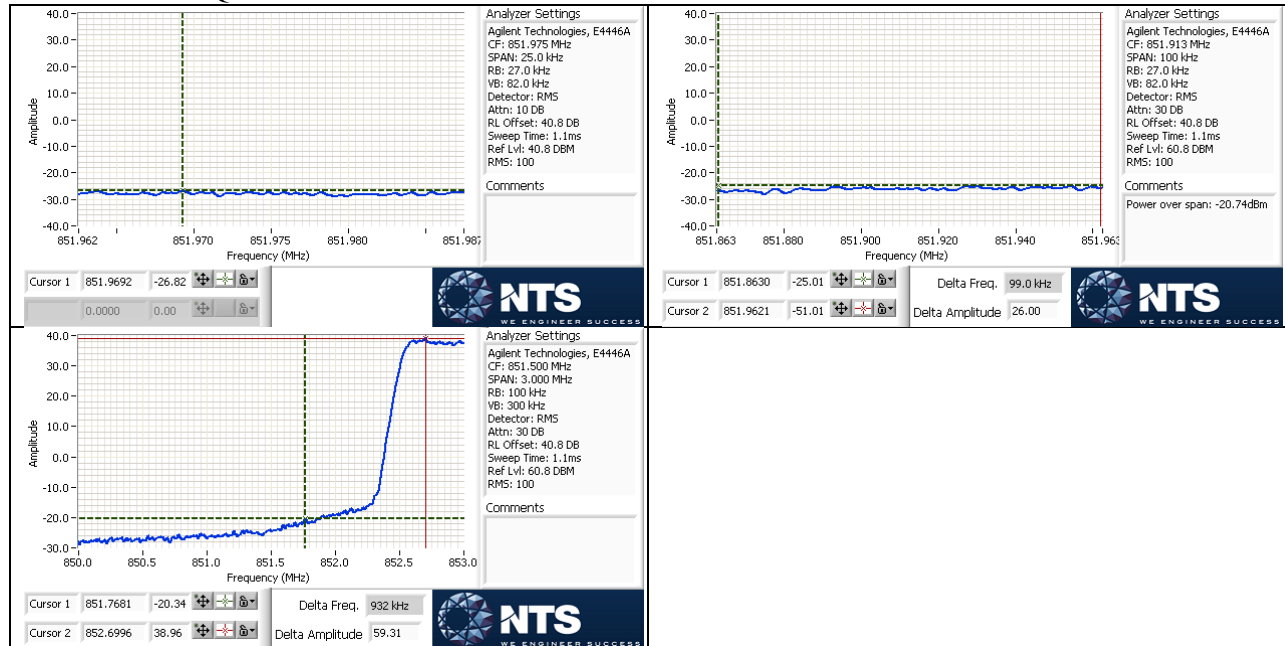
1.4M – LTE – 64QAM – LOW + 3



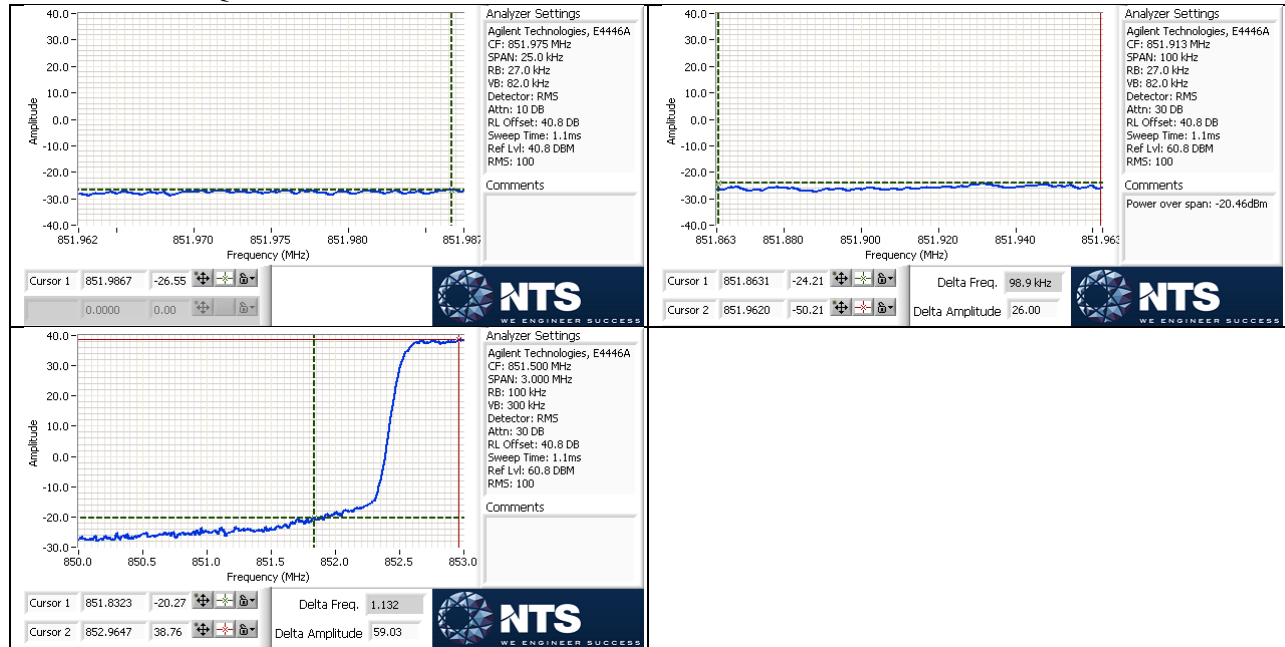
1.4M – LTE – QPSK – LOW + 4



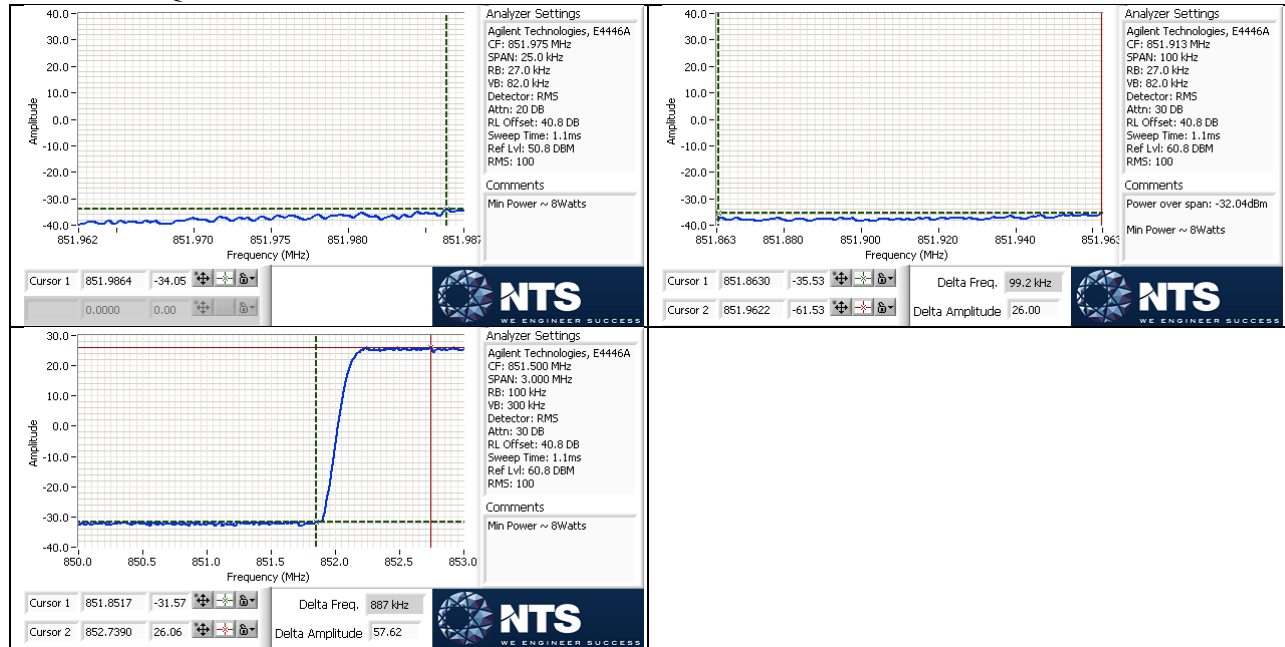
1.4M – LTE – 16QAM – LOW + 4



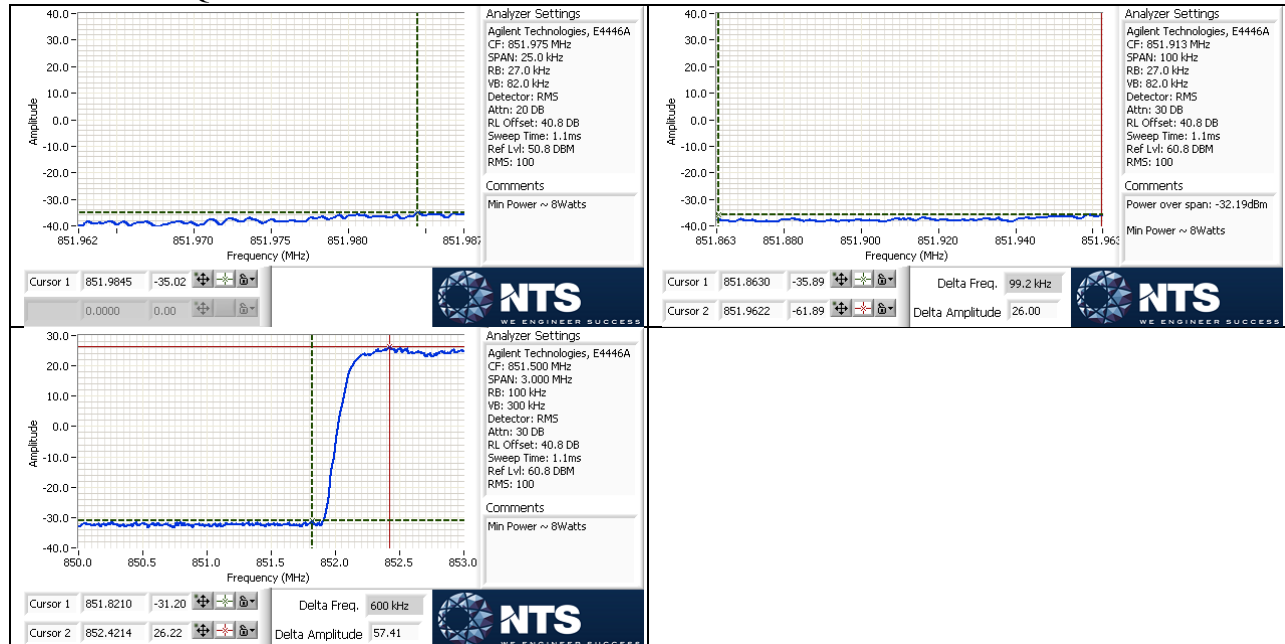
1.4M – LTE – 64QAM – LOW + 4



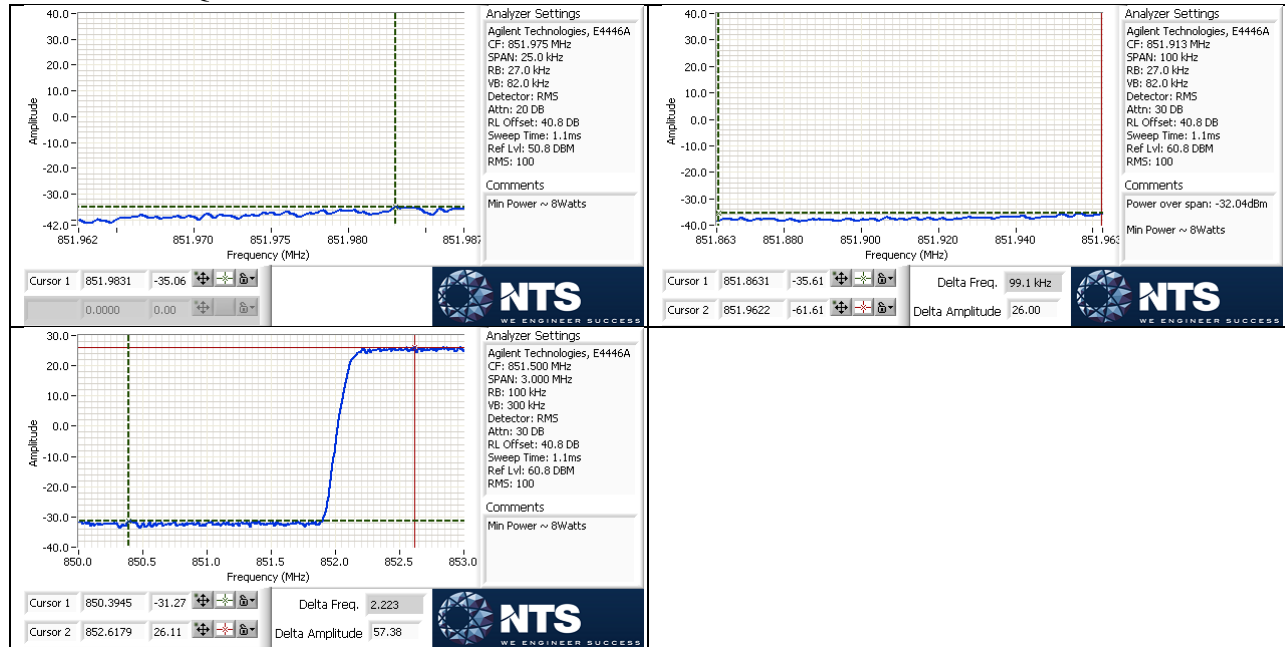
3M – LTE – QPSK – LOW



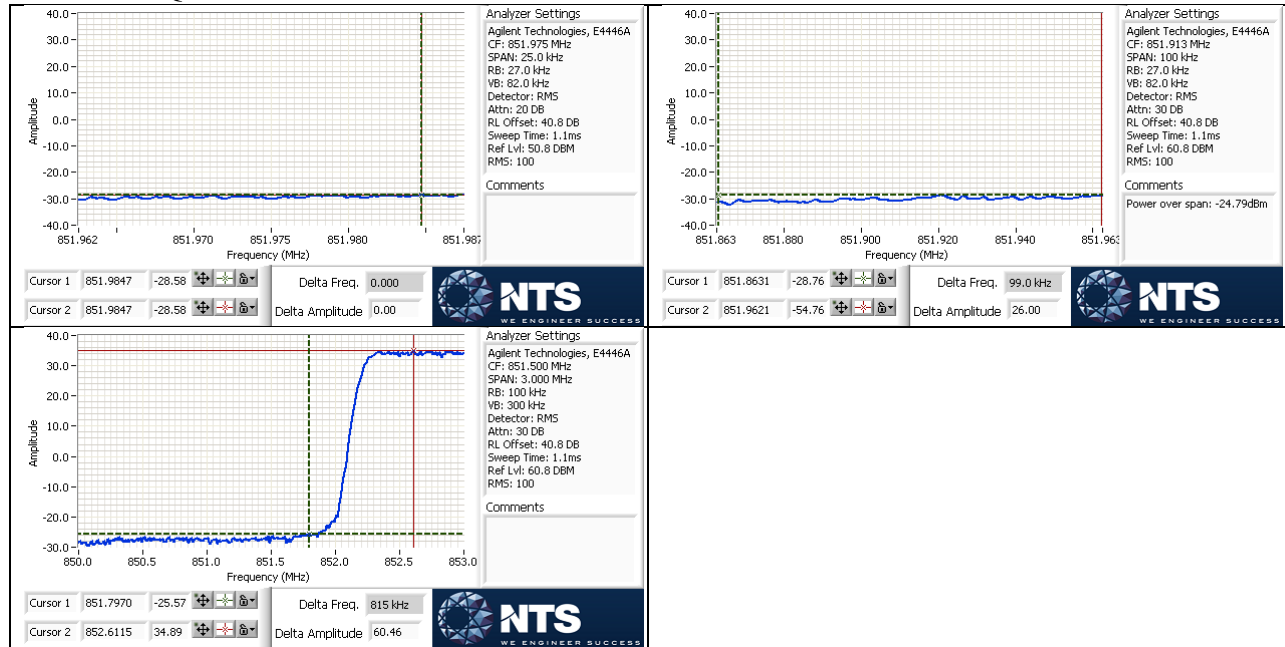
3M – LTE – 16QAM – LOW



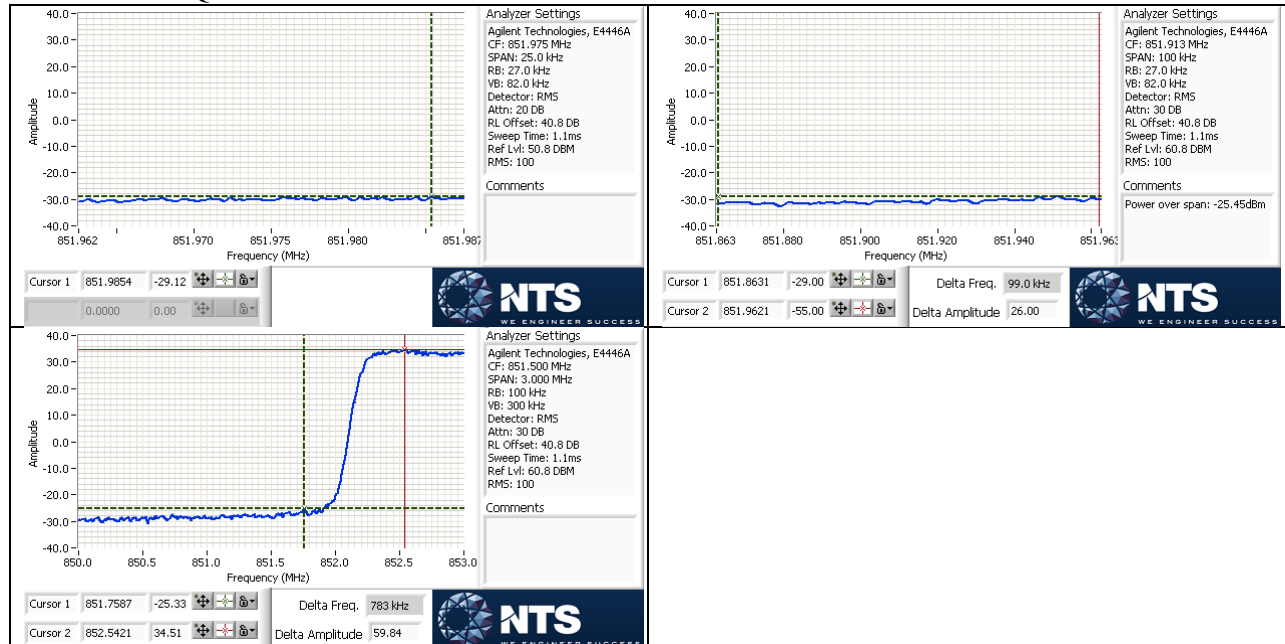
3M – LTE – 64QAM – LOW



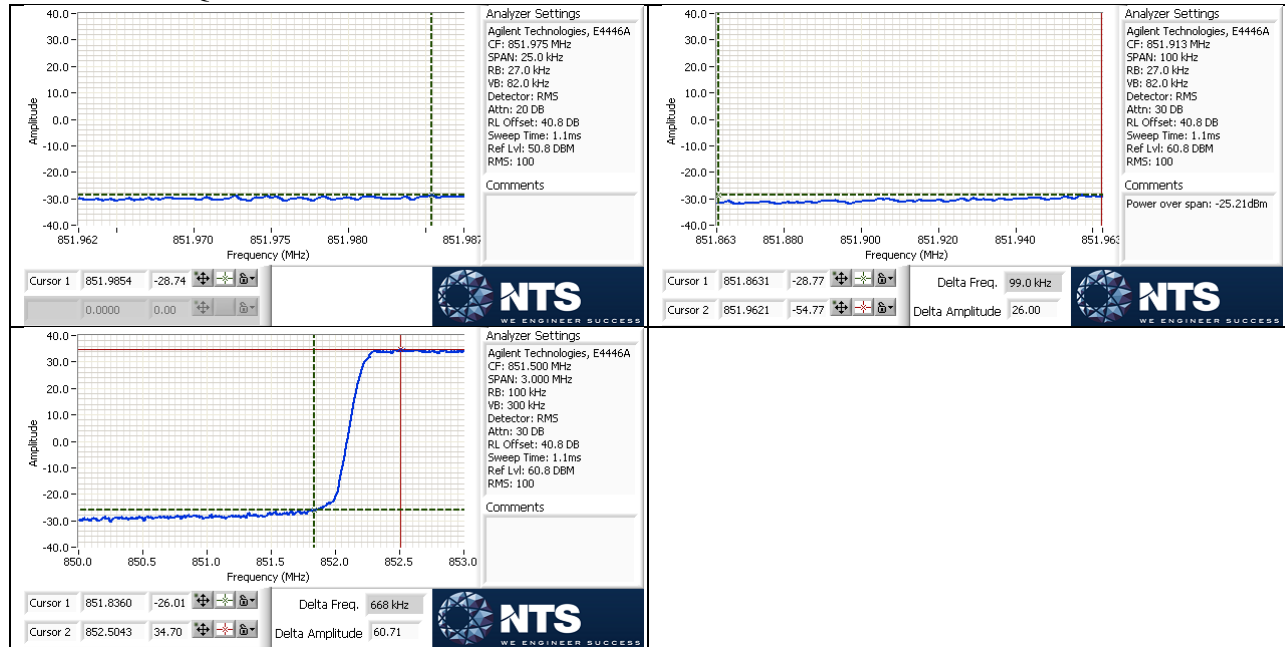
3M – LTE – QPSK – LOW + 1



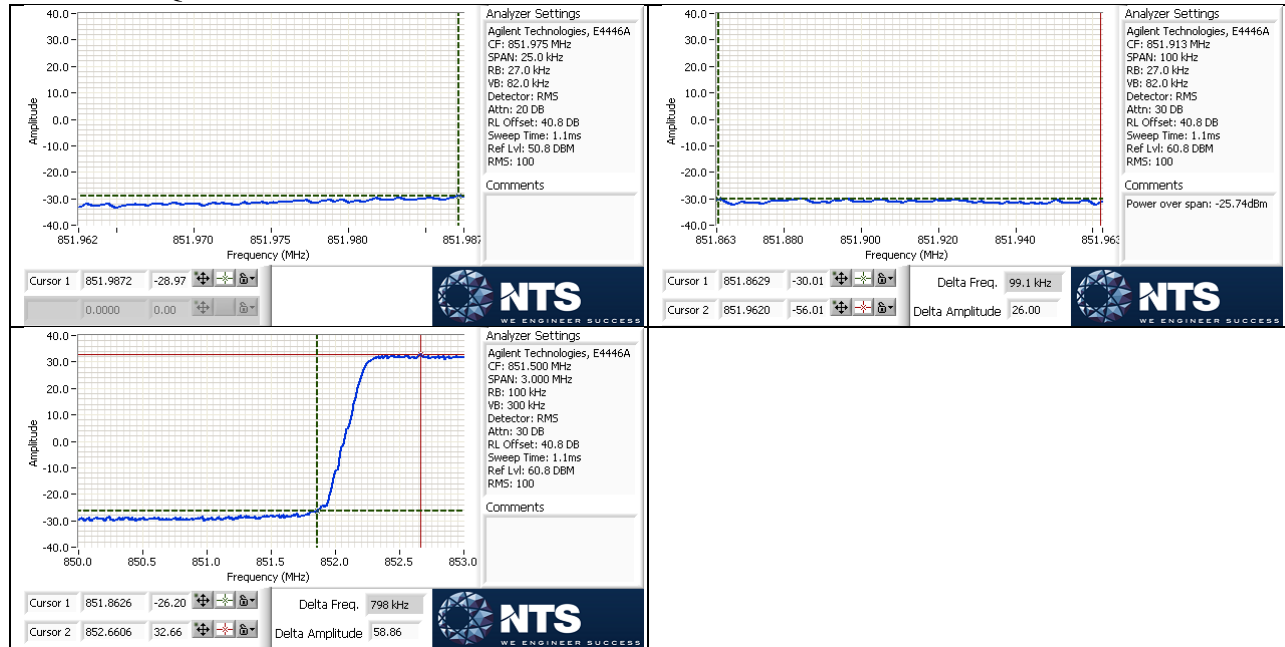
3M – LTE – 16QAM – LOW + 1



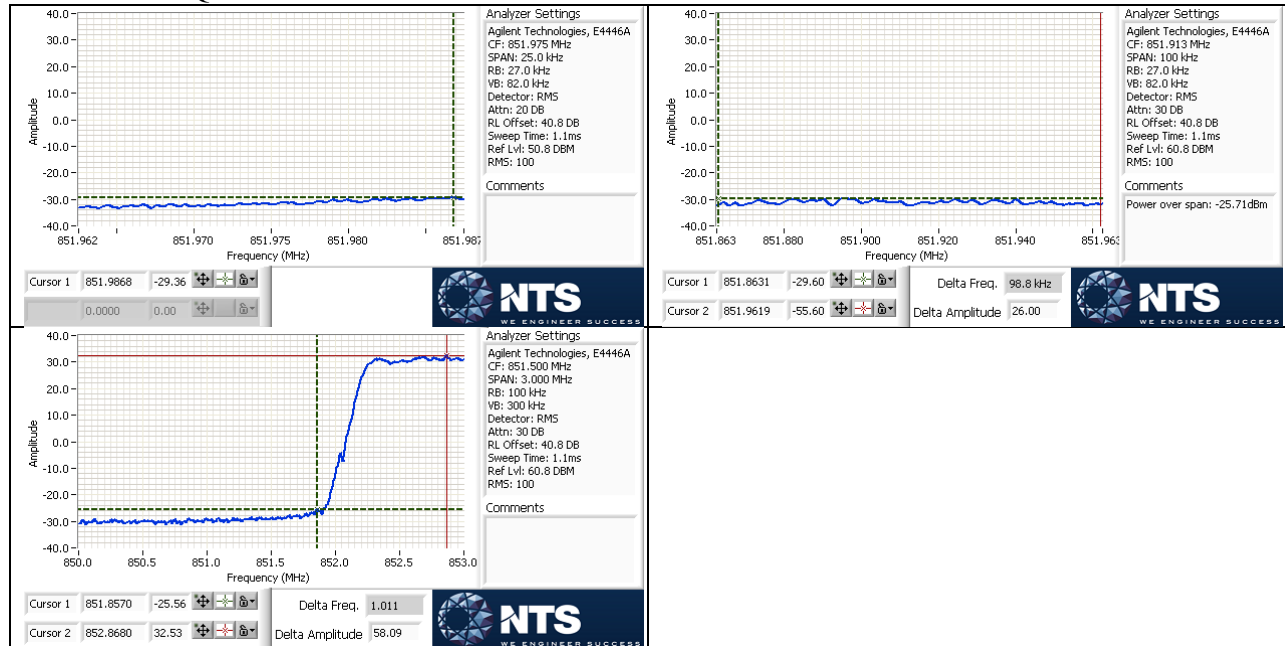
3M – LTE – 64QAM – LOW + 1



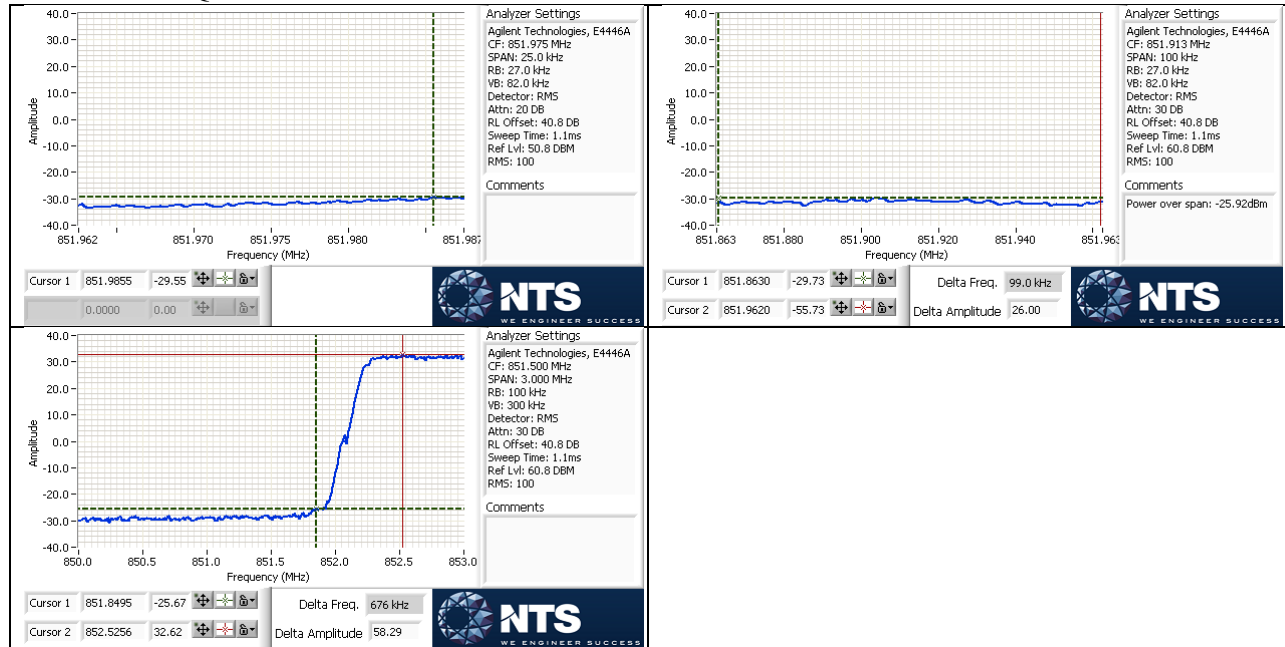
5M - LTE - QPSK - LOW



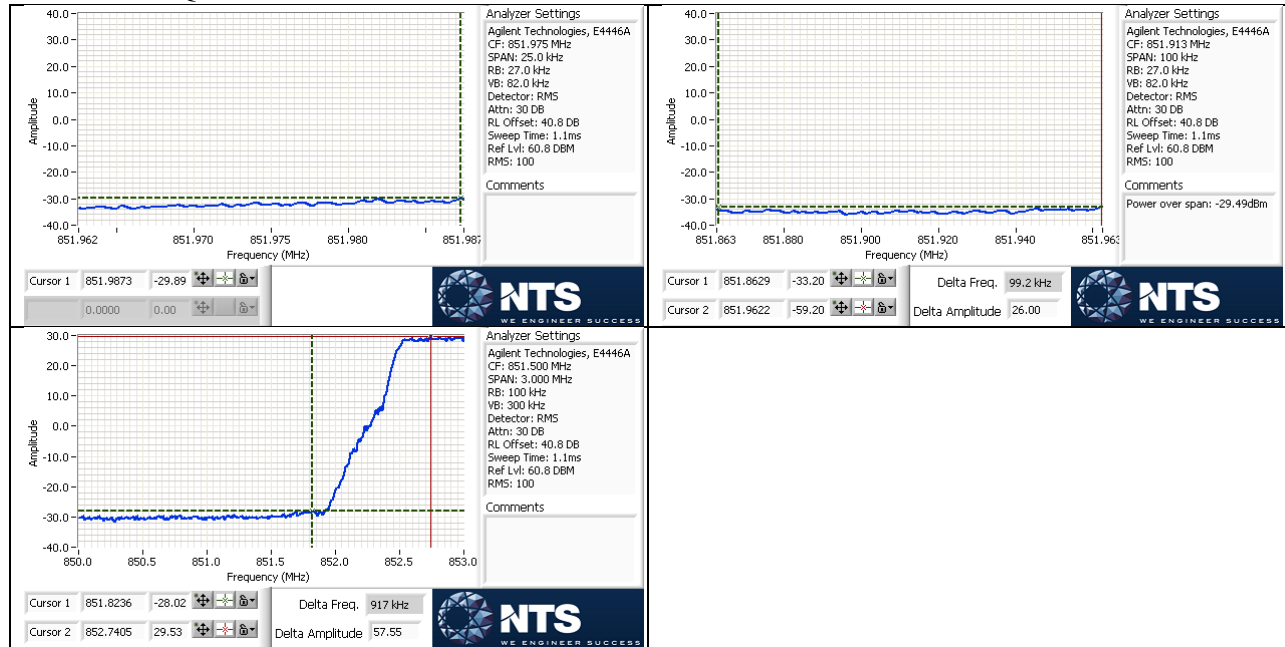
5M - LTE - 16QAM - LOW



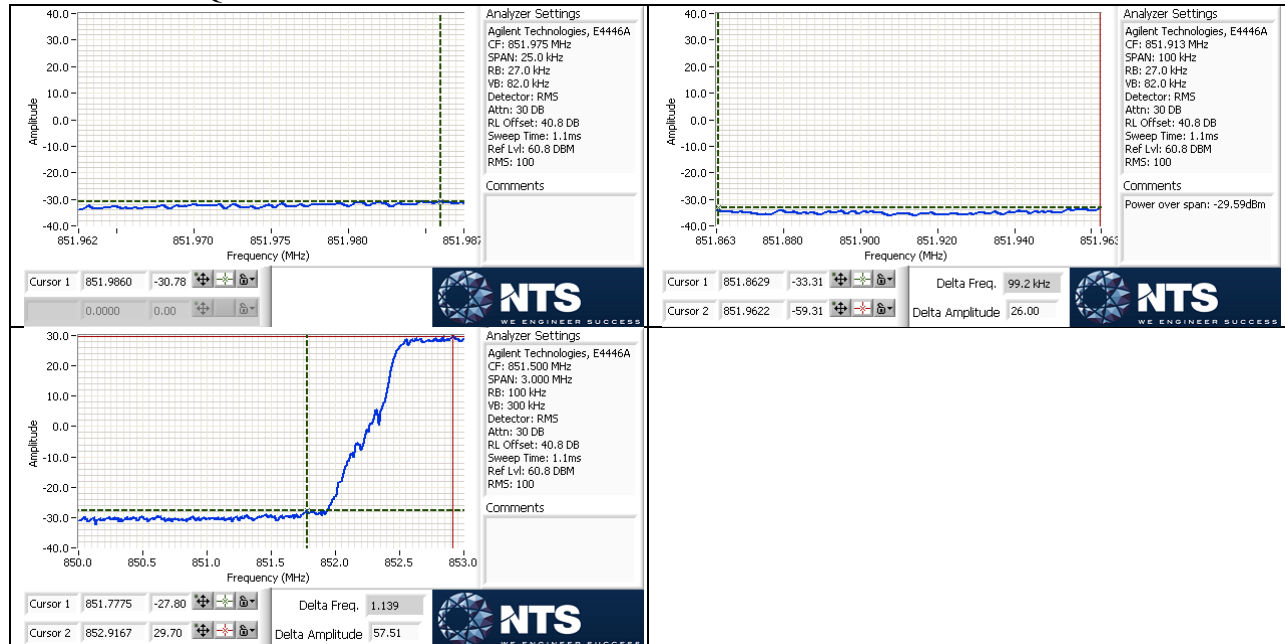
5M - LTE - 64QAM - LOW



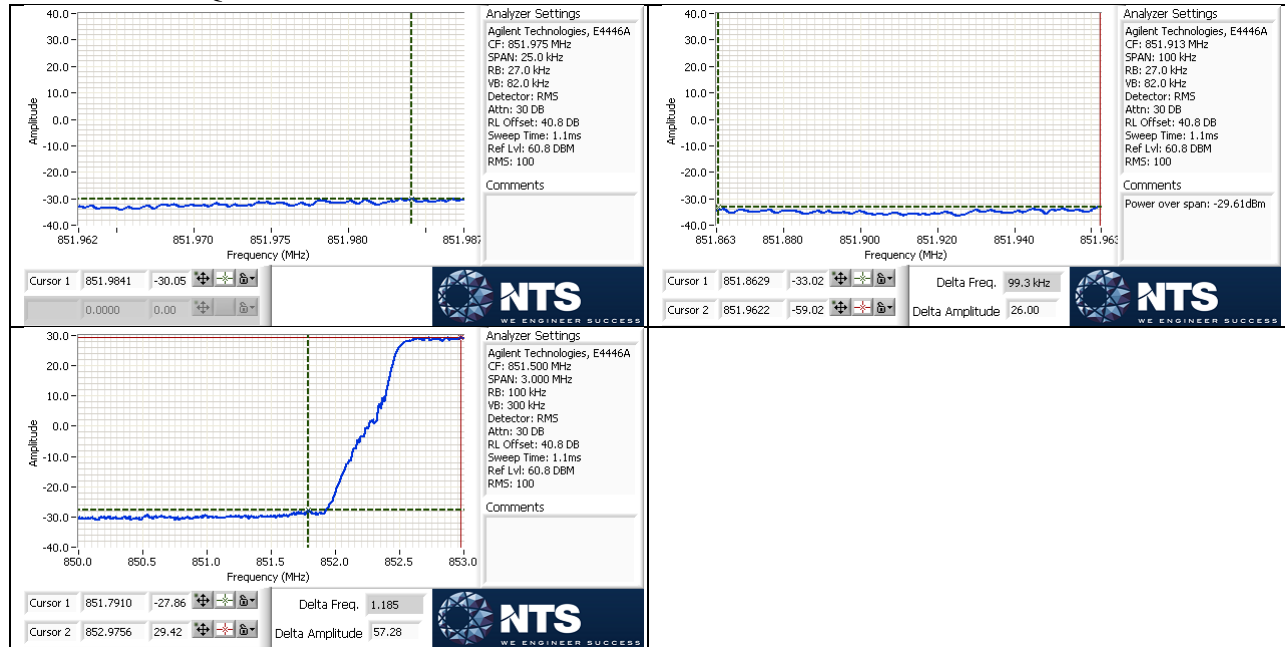
10M – LTE – QPSK – LOW



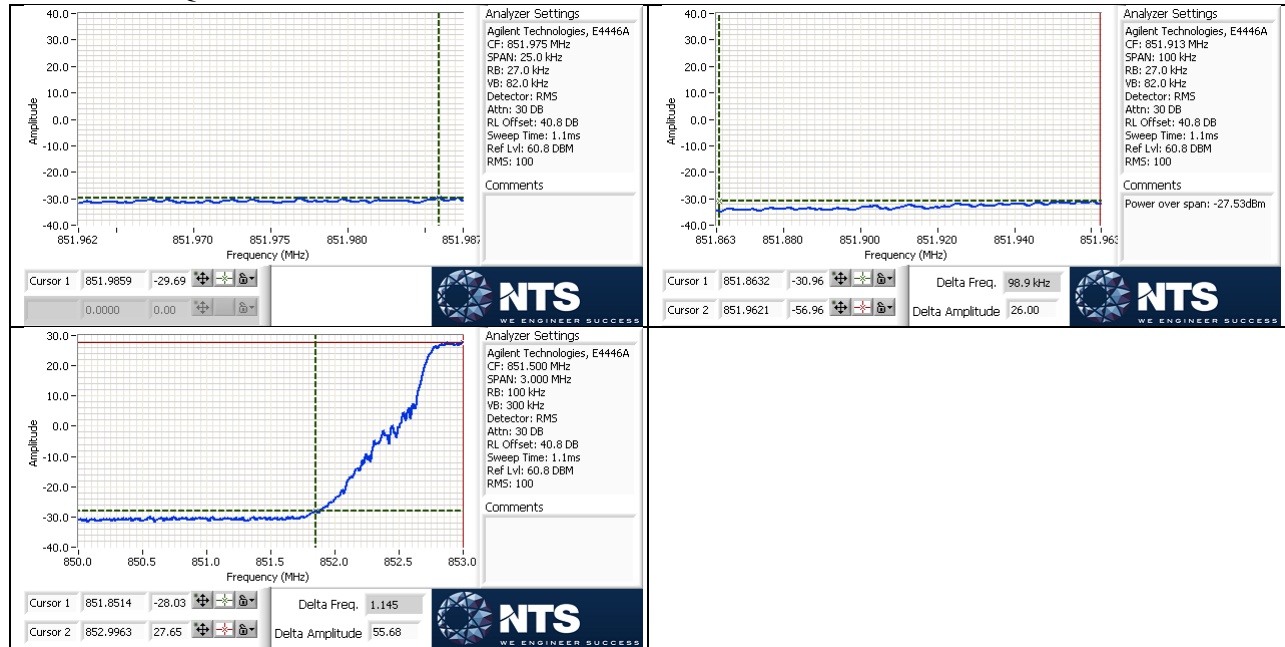
10M – LTE – 16QAM – LOW



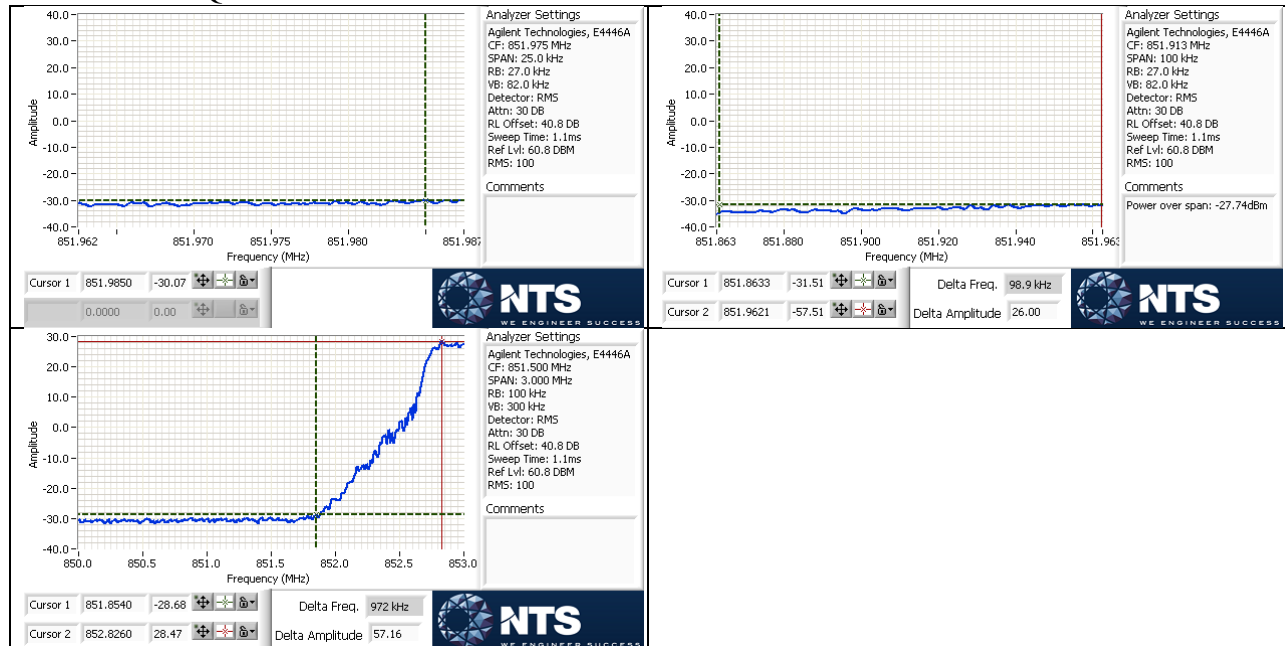
10M – LTE – 64QAM – LOW



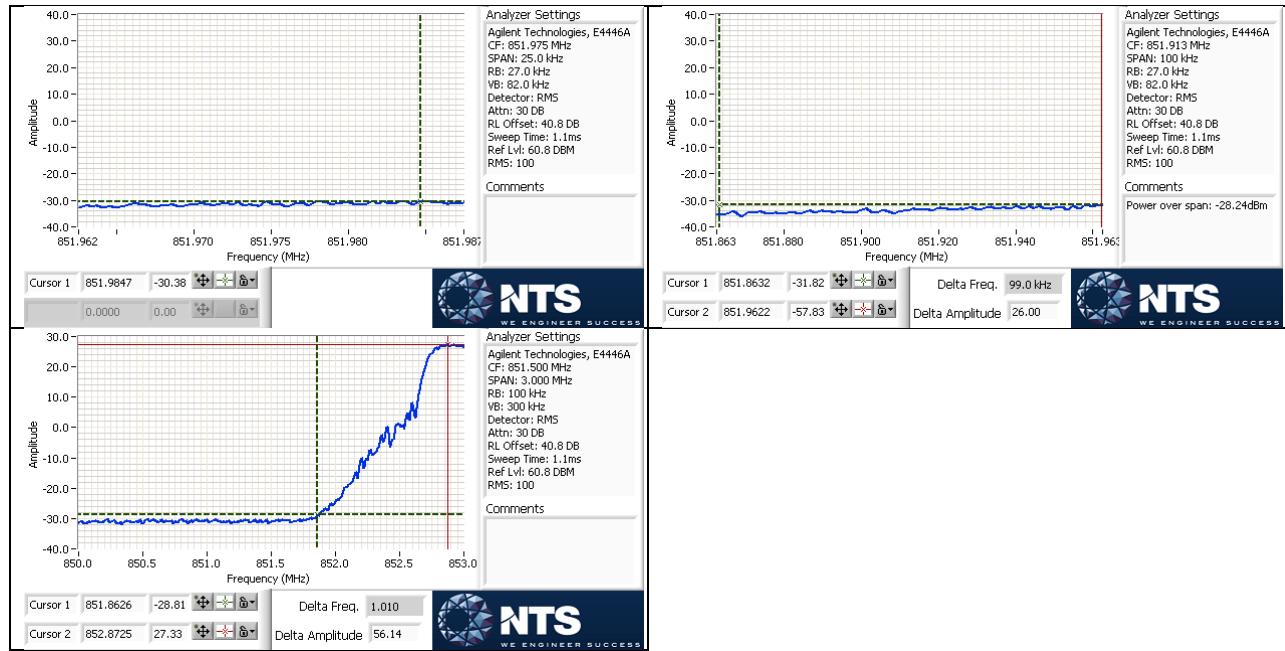
15M – LTE – QPSK – LOW

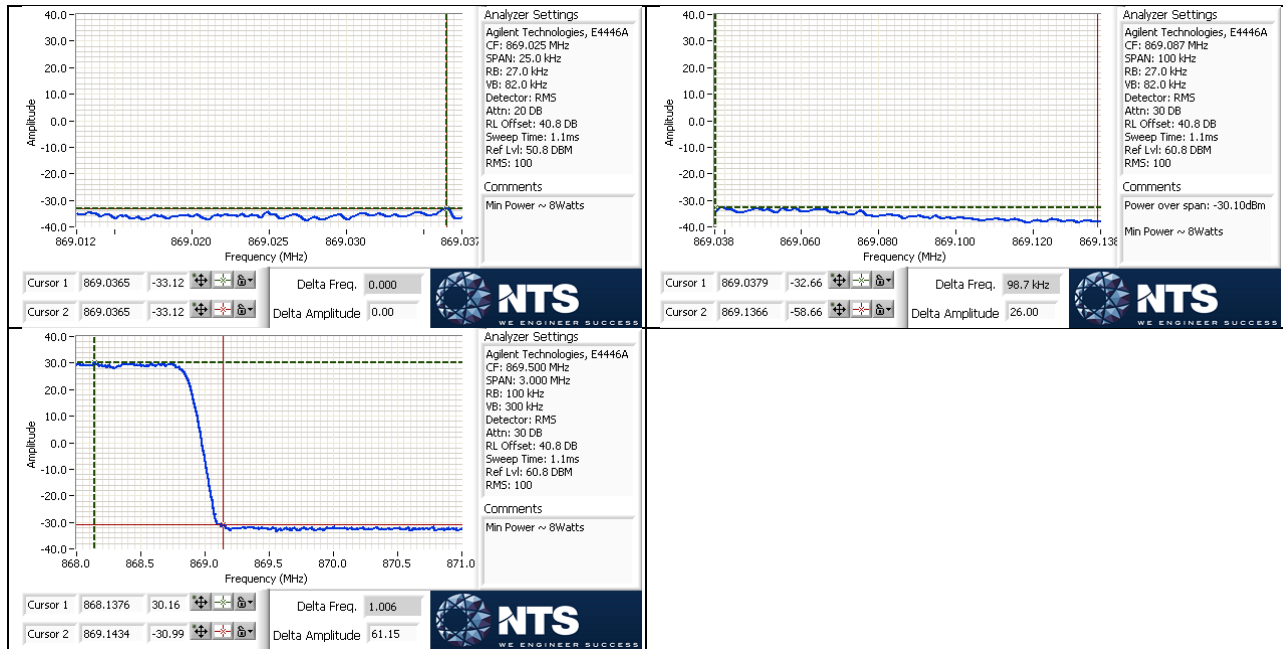


15M – LTE – 16QAM – LOW

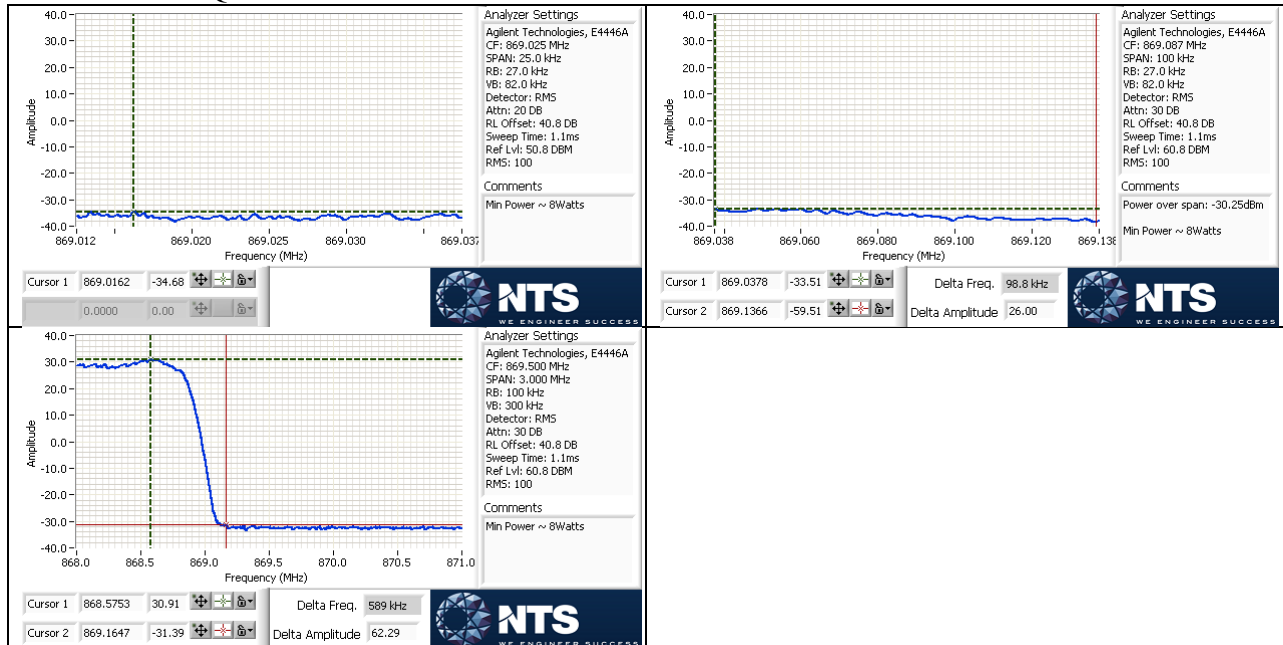


15M – LTE – 64QAM – LOW

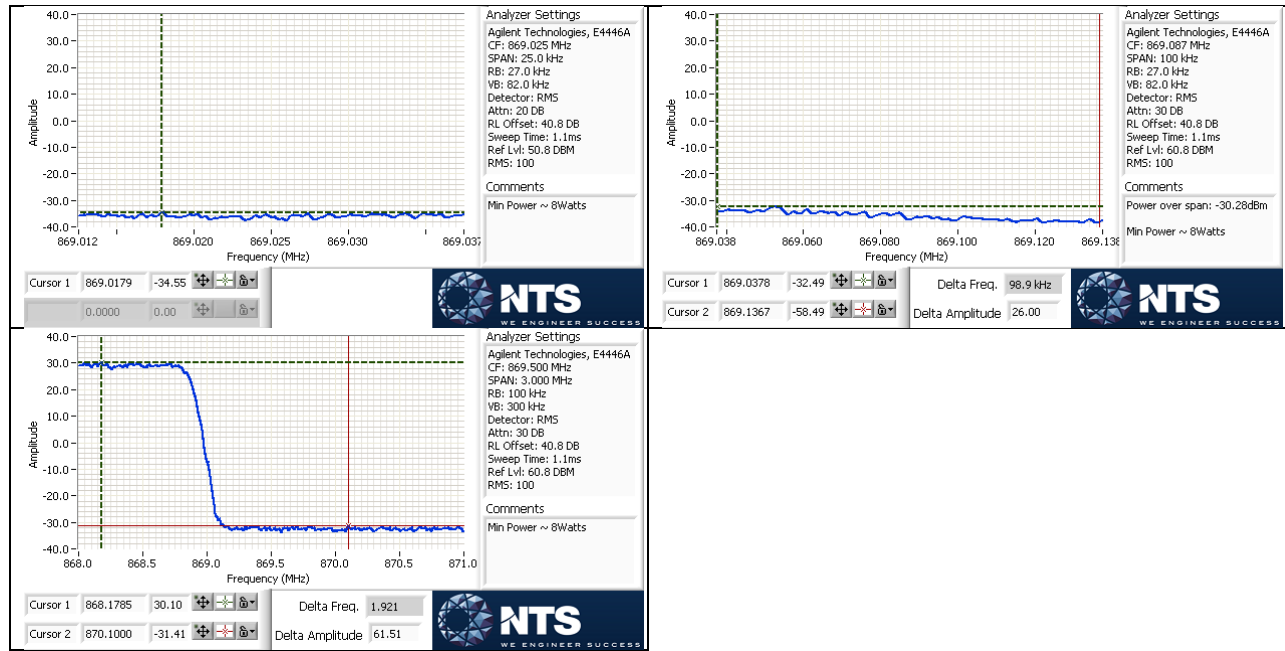


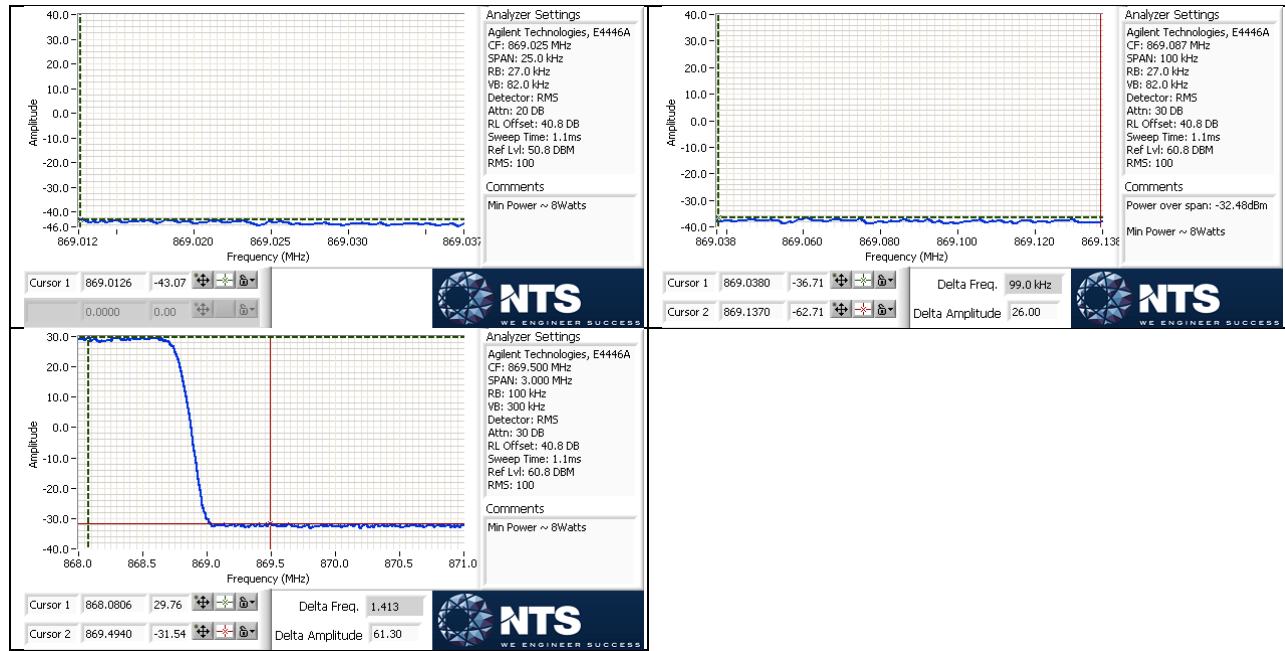


1.4M – LTE – 16QAM – HIGH

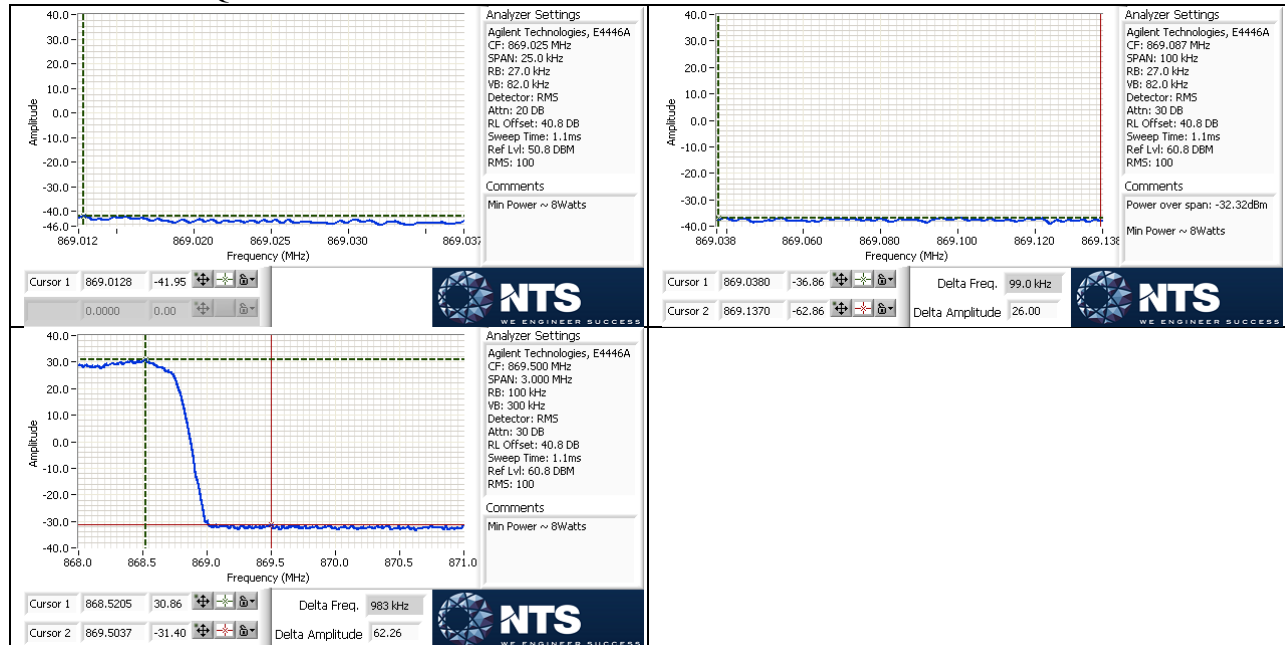


1.4M – LTE – 64QAM – HIGH

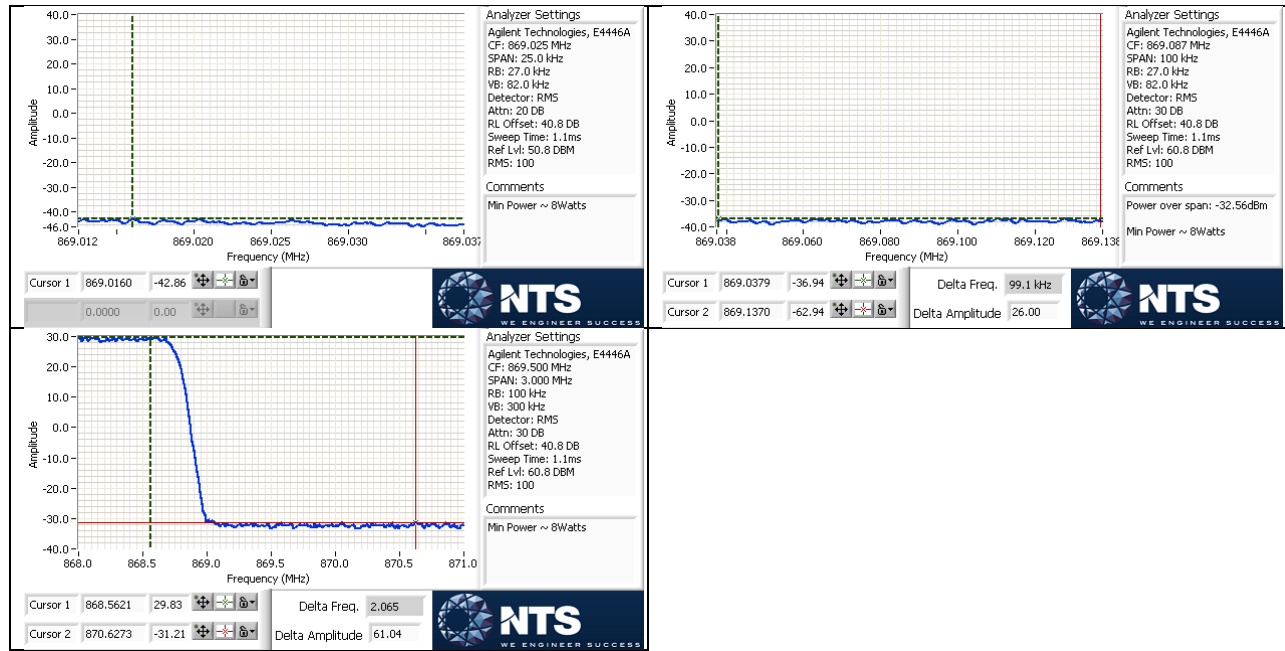


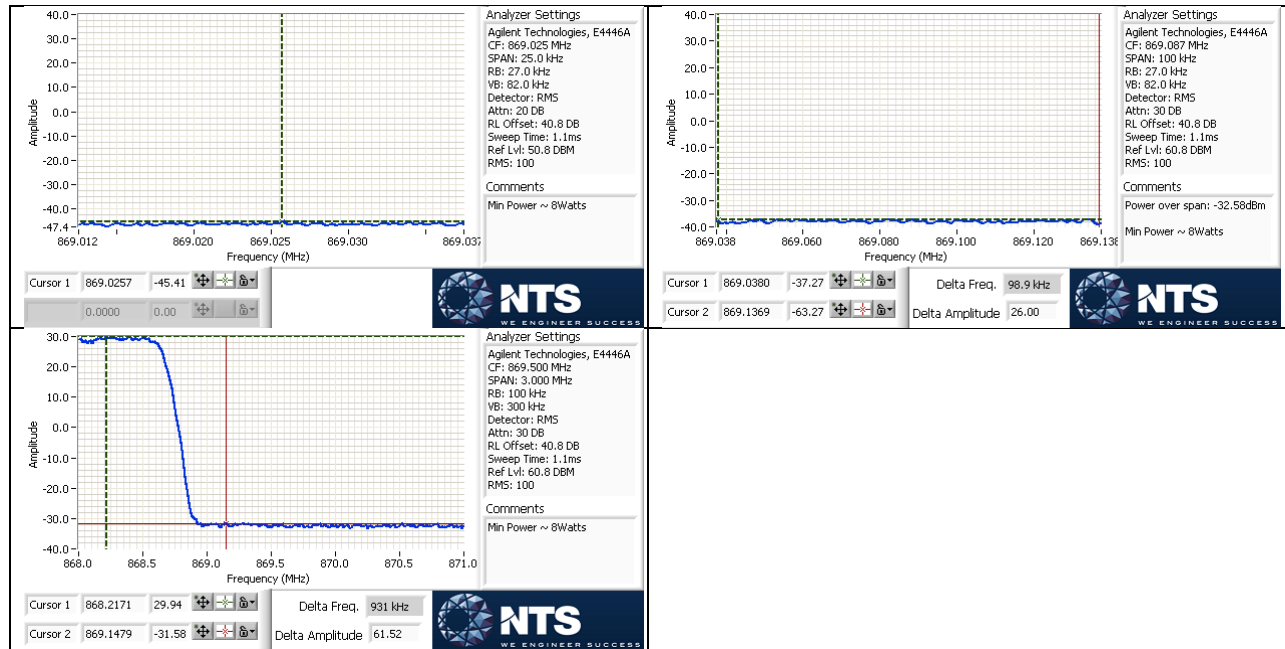


1.4M – LTE – 16QAM – HIGH-1

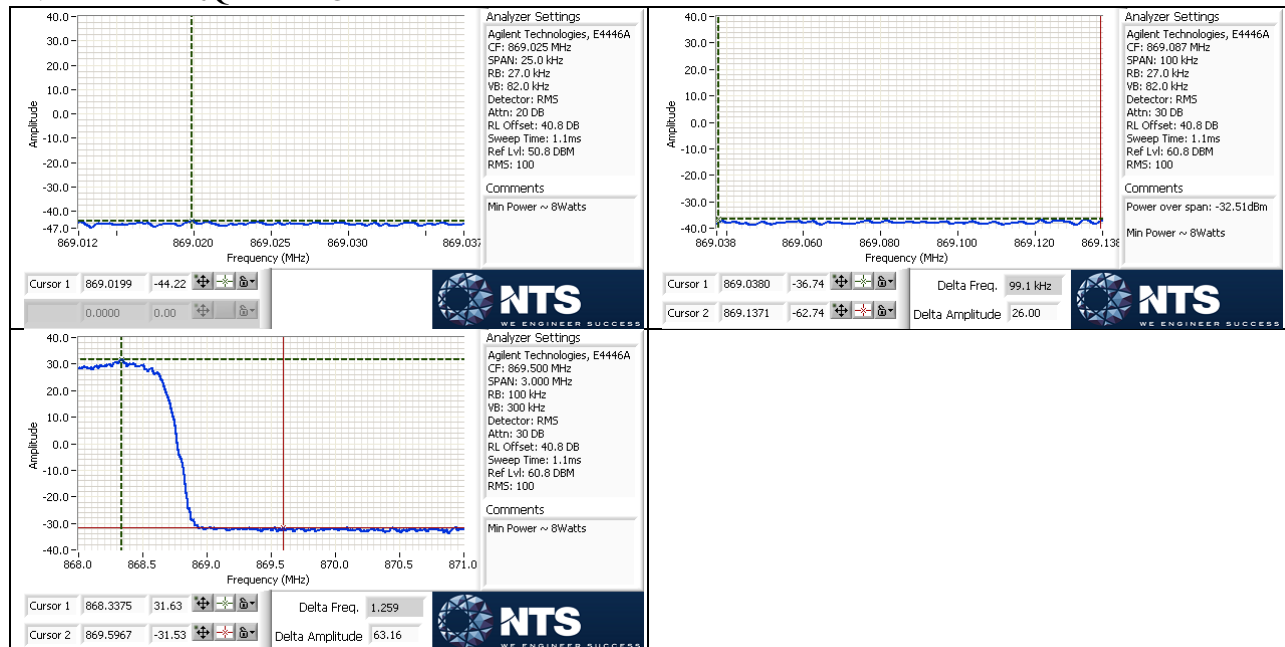


1.4M – LTE – 64QAM – HIGH-1

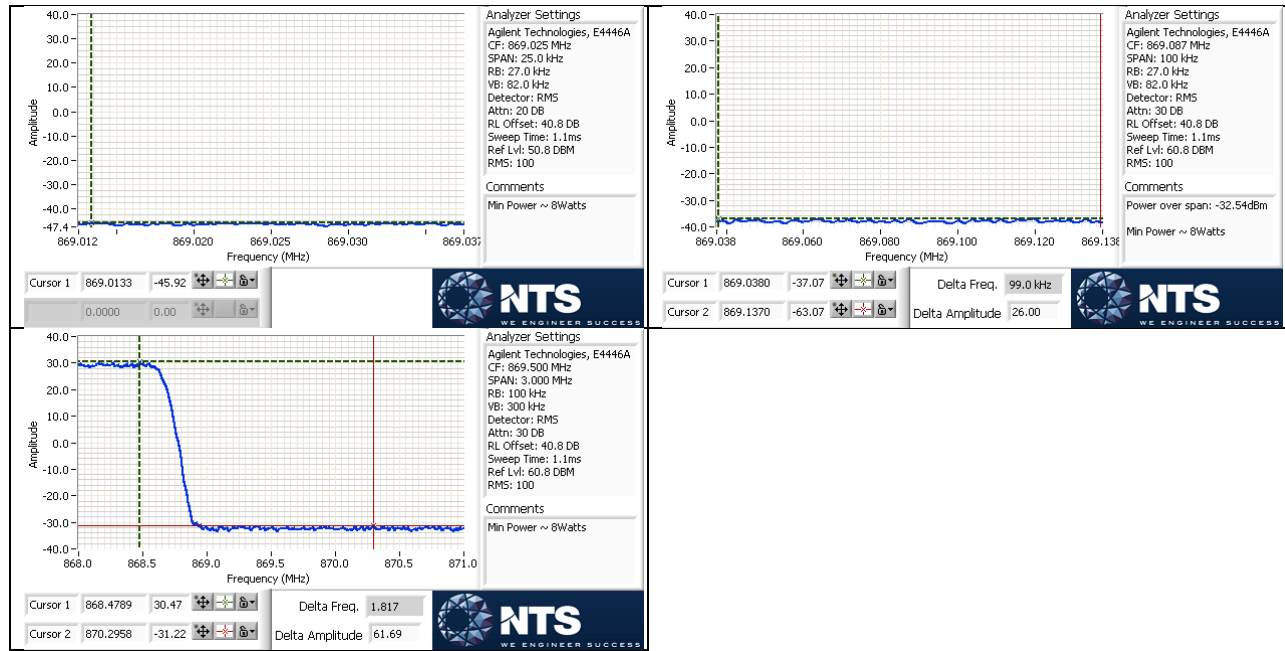


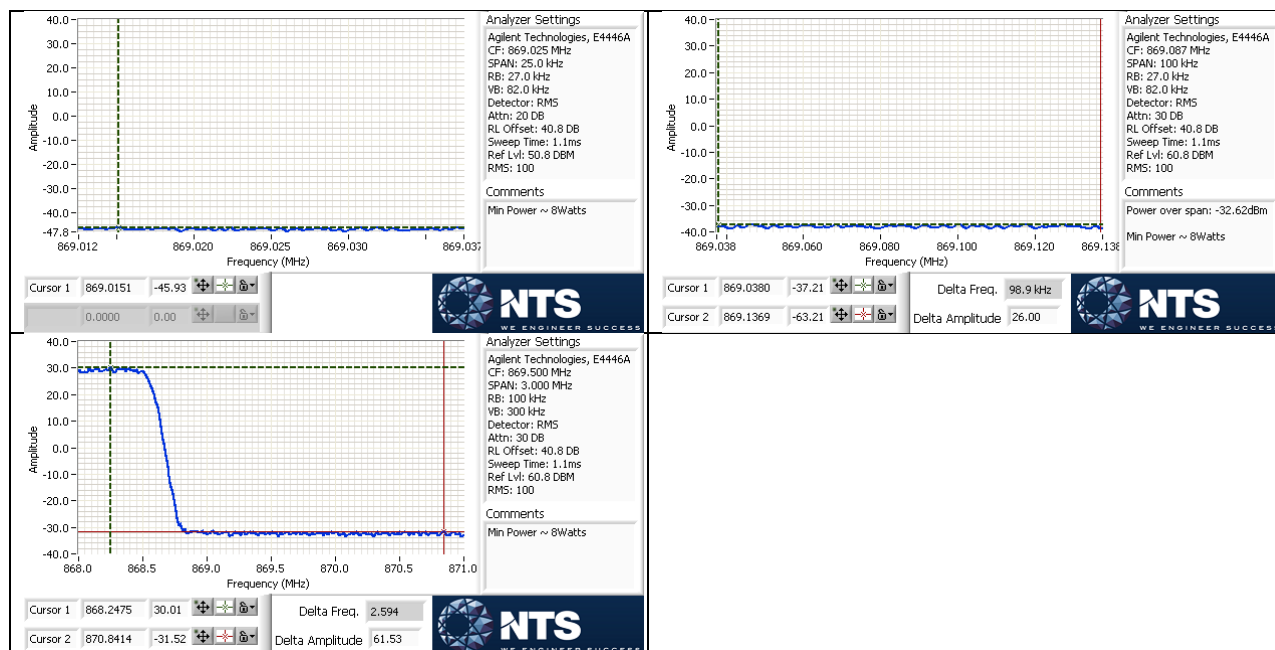


1.4M – LTE – 16QAM – HIGH-2

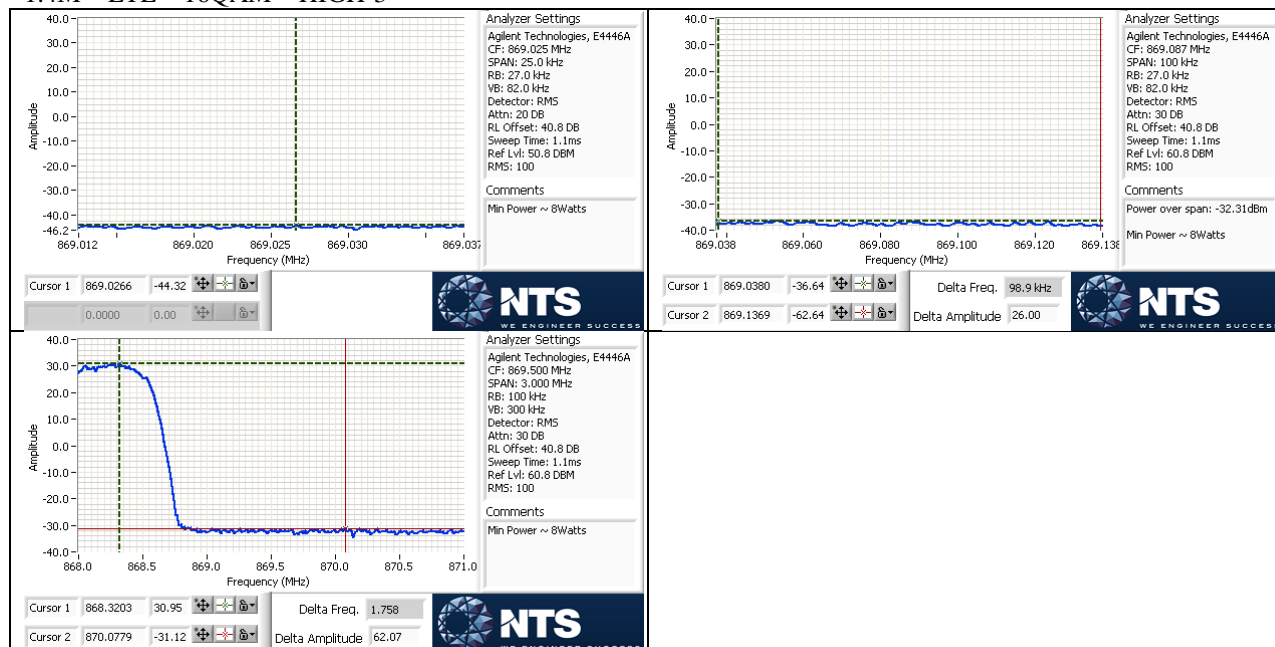


1.4M – LTE – 64QAM – HIGH-2

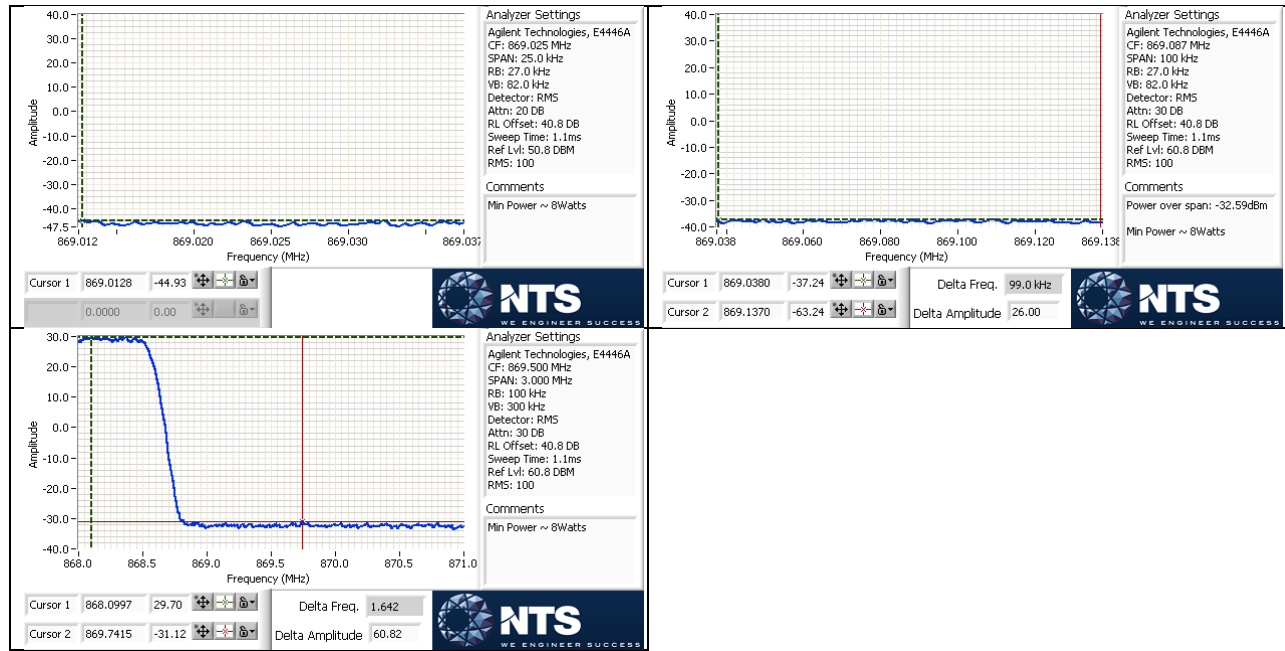


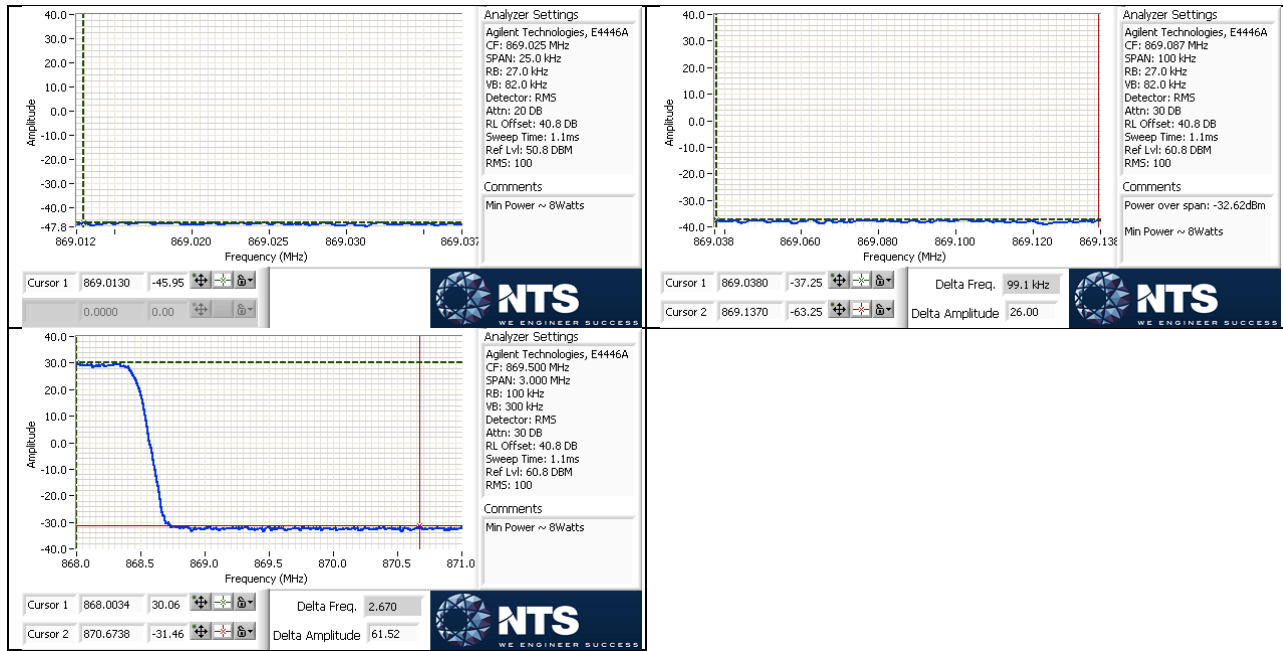


1.4M – LTE – 16QAM – HIGH-3

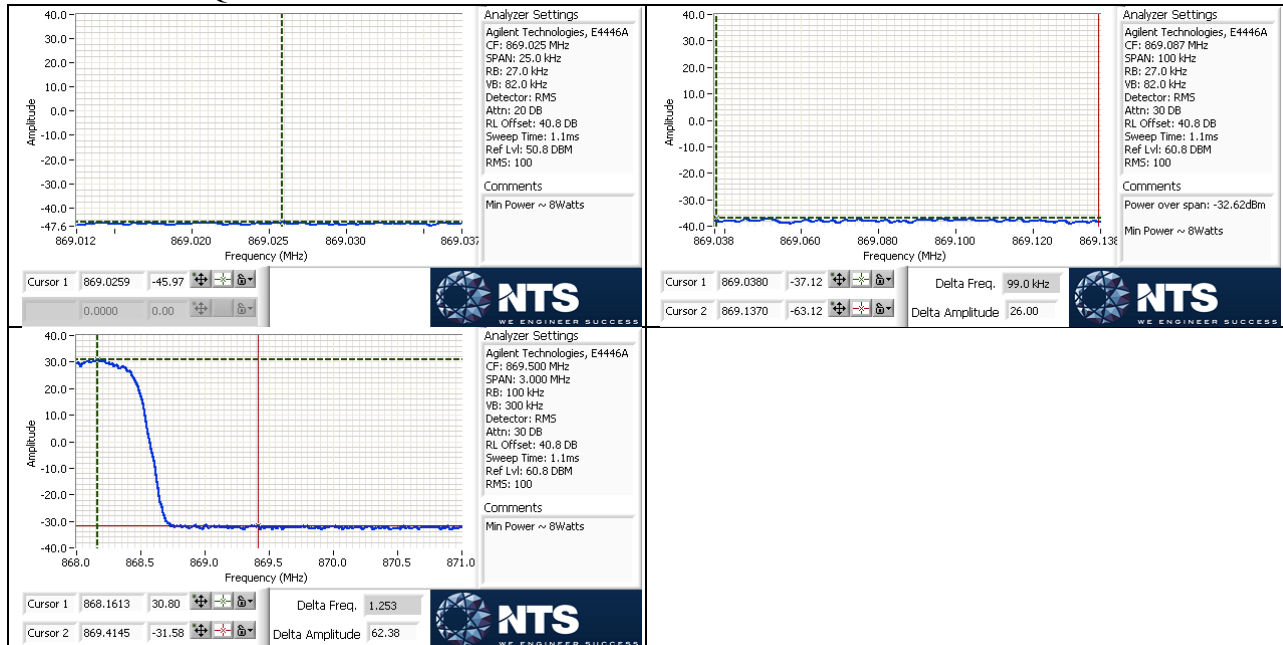


1.4M – LTE – 64QAM – HIGH-3

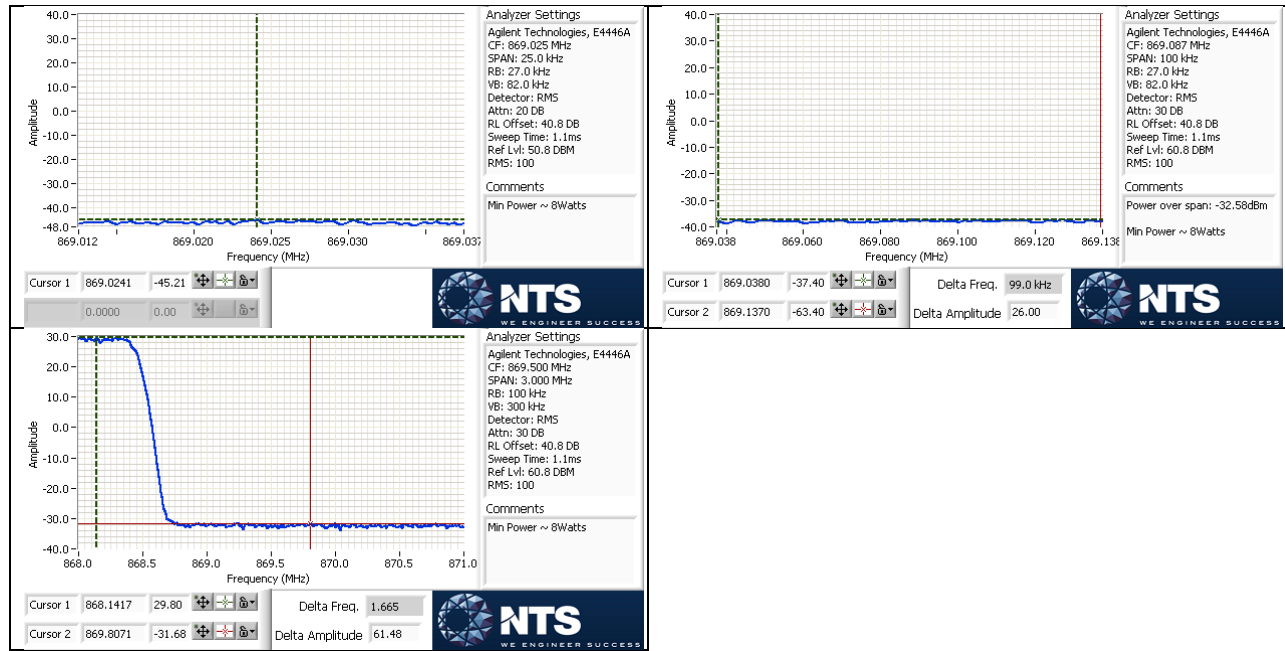


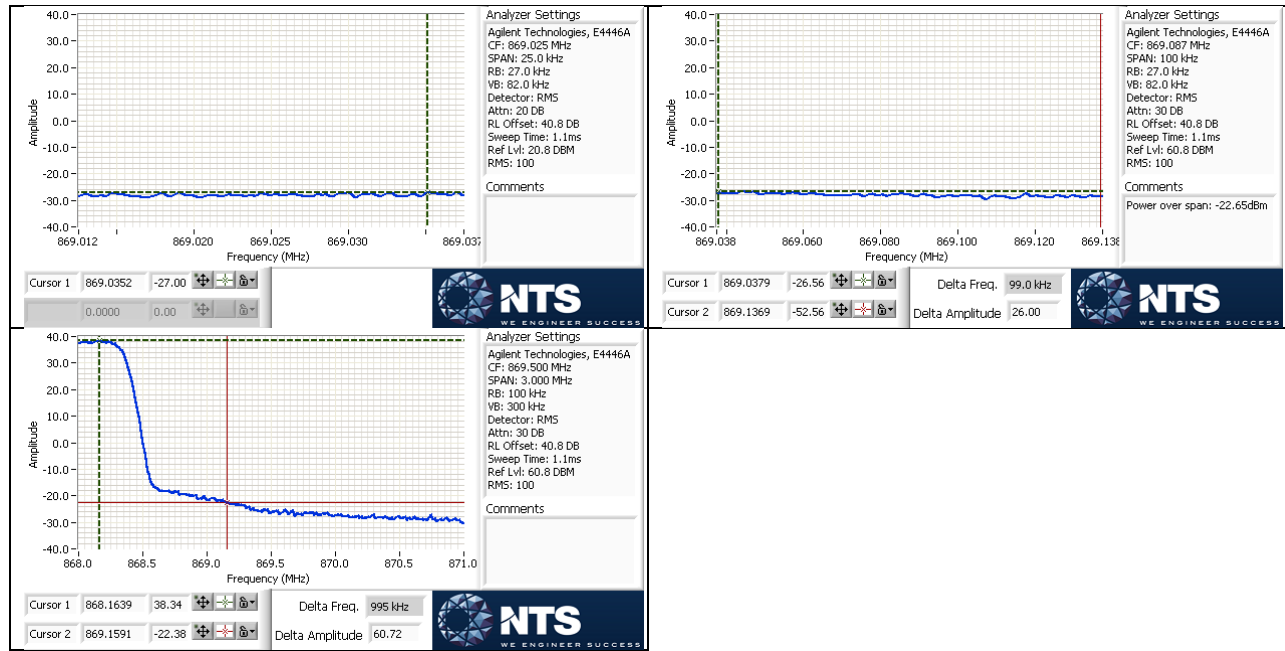


1.4M – LTE – 16QAM – HIGH-4

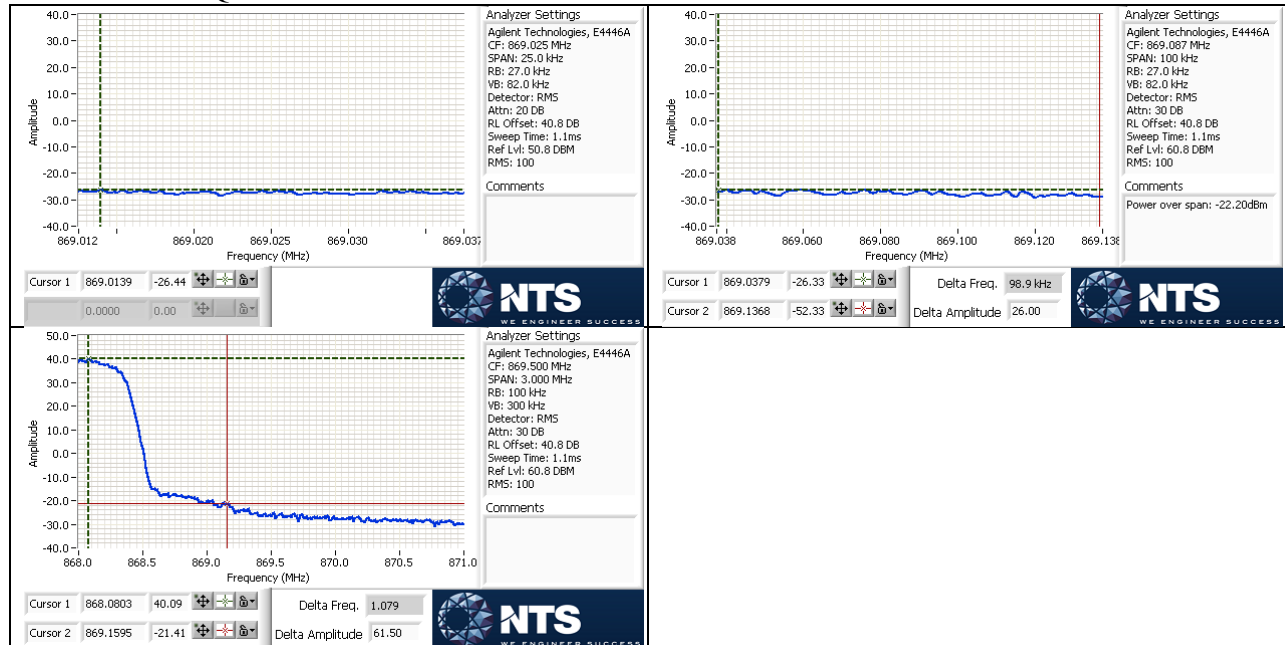


1.4M – LTE – 64QAM – HIGH-4

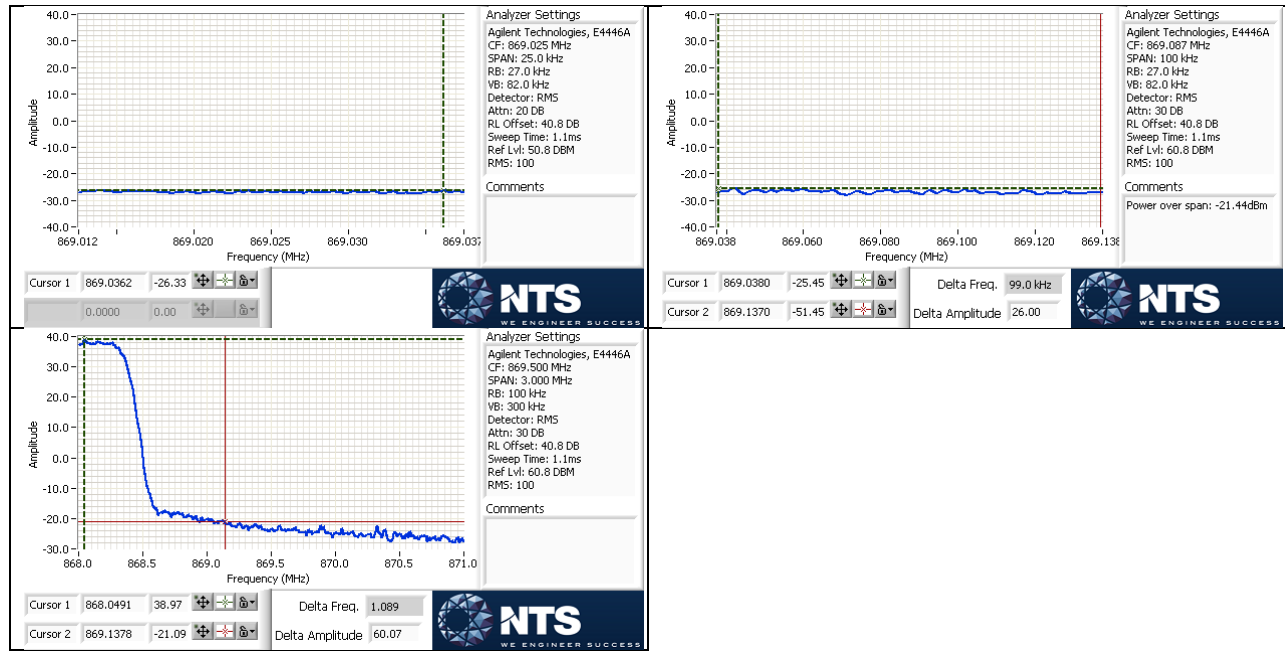


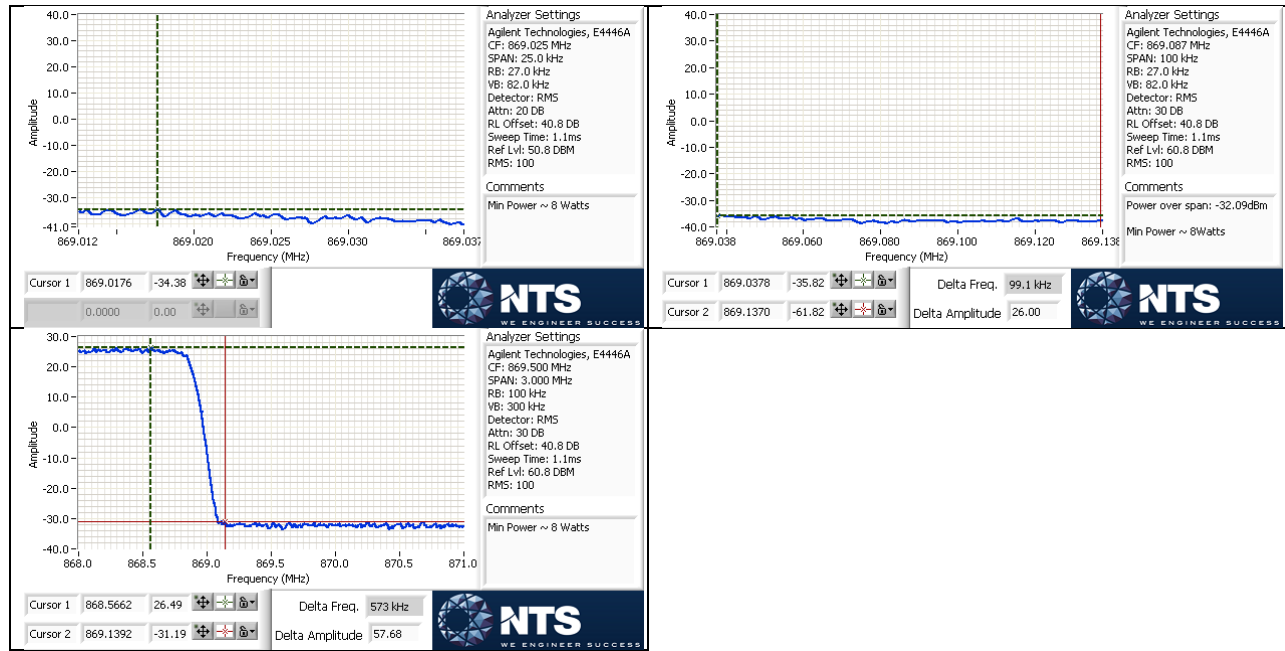


1.4M – LTE – 16QAM – HIGH-5

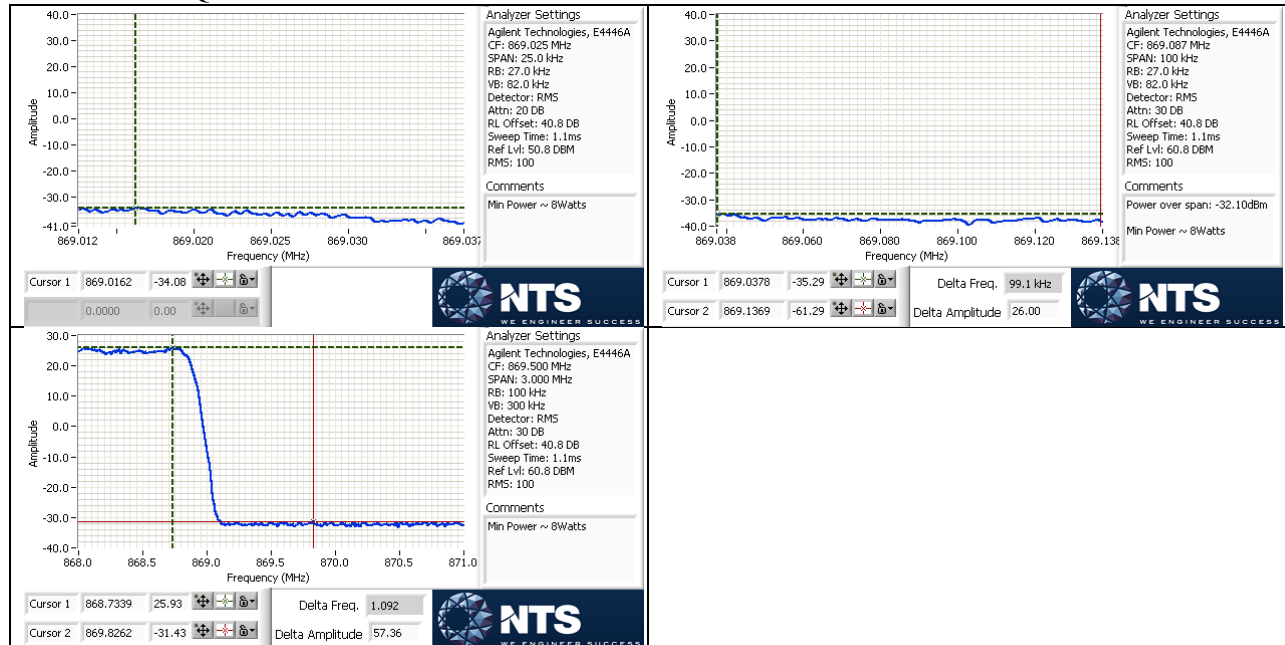


1.4M – LTE – 64QAM – HIGH-5

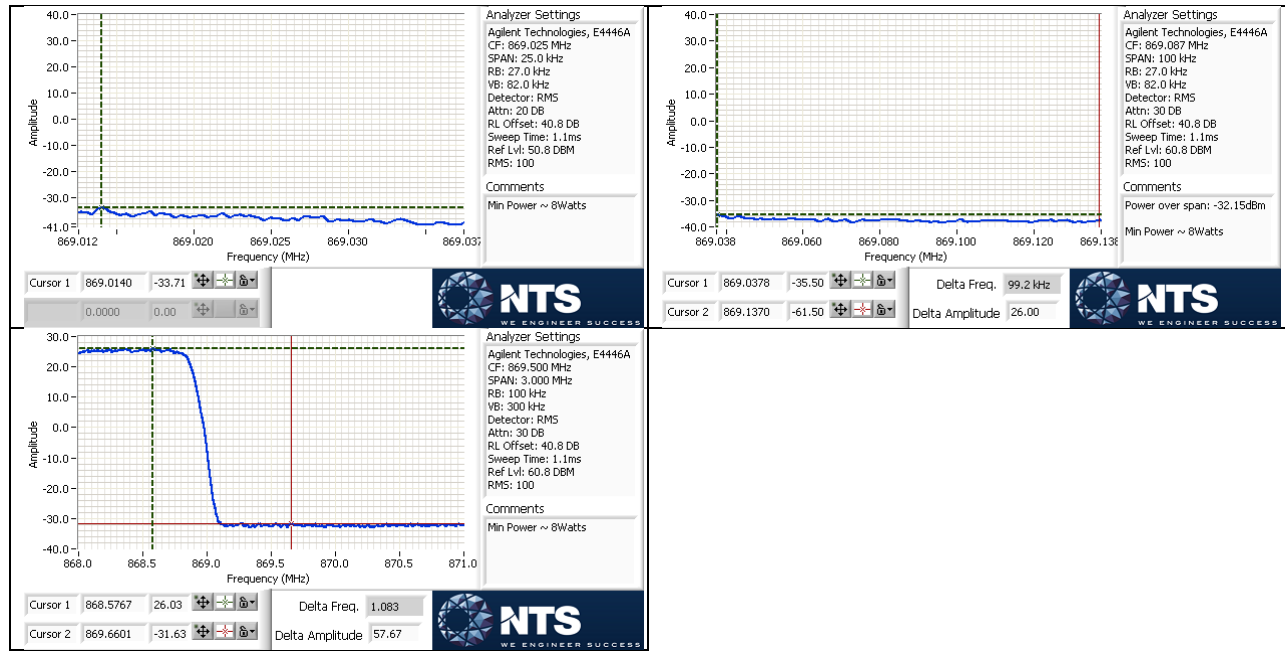


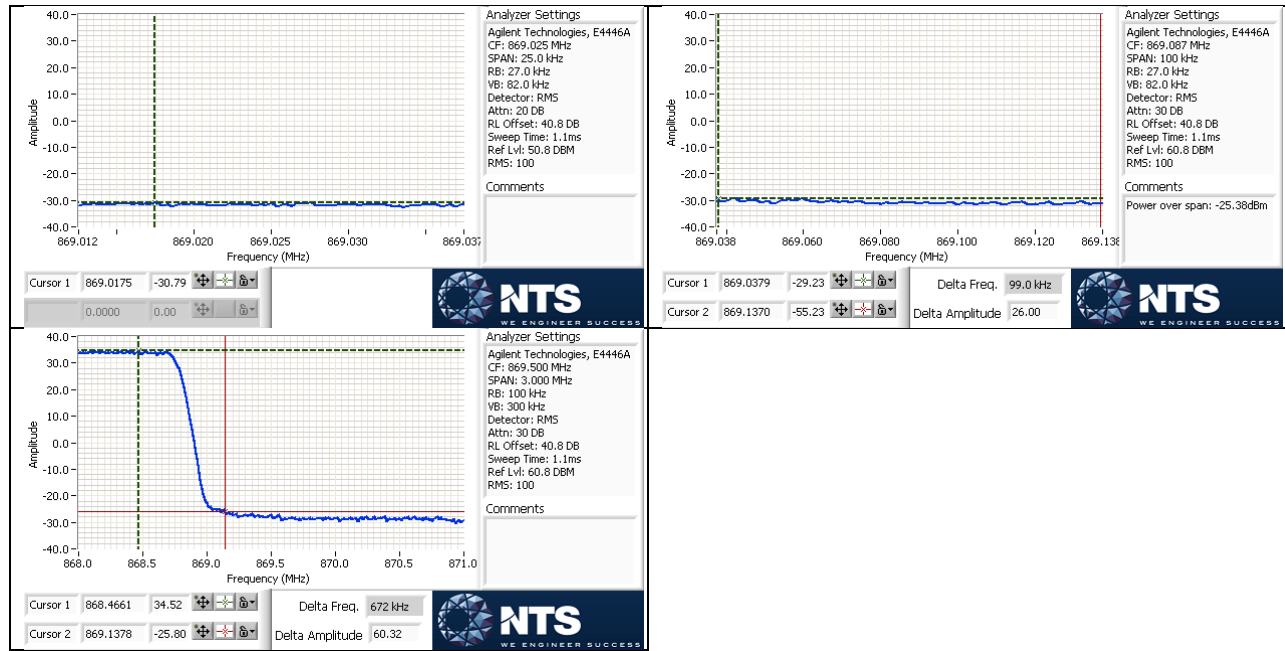


3M – LTE – 16QAM – HIGH

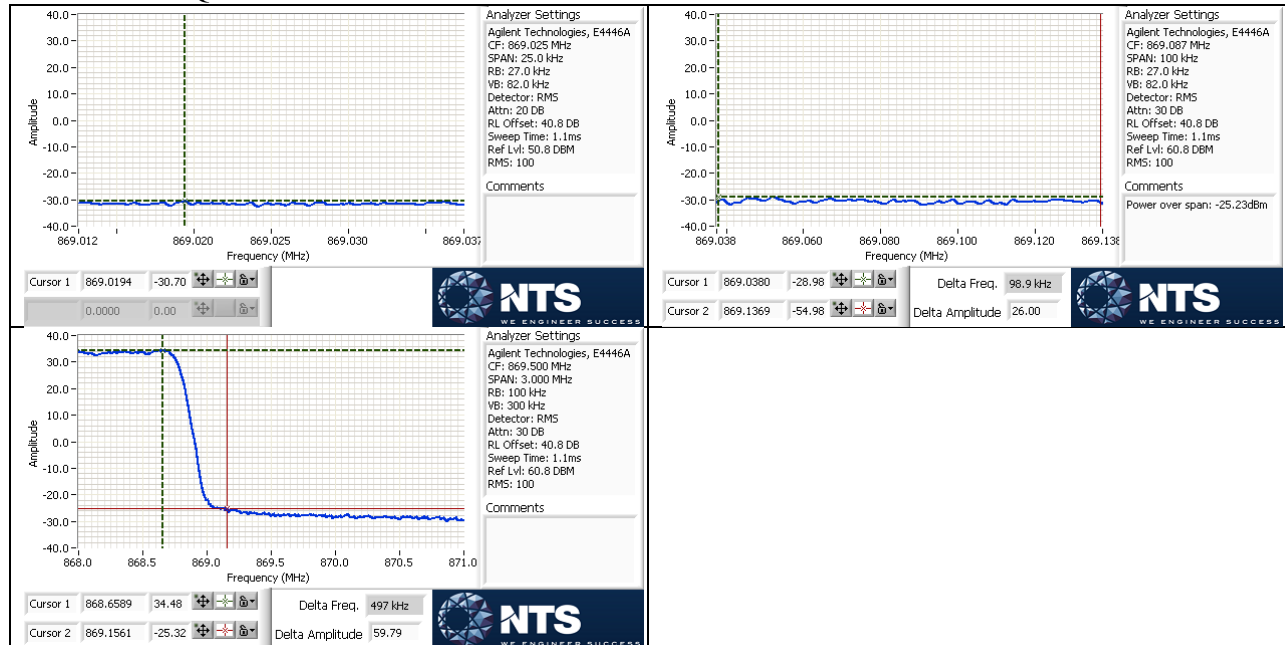


3M – LTE – 64QAM – HIGH

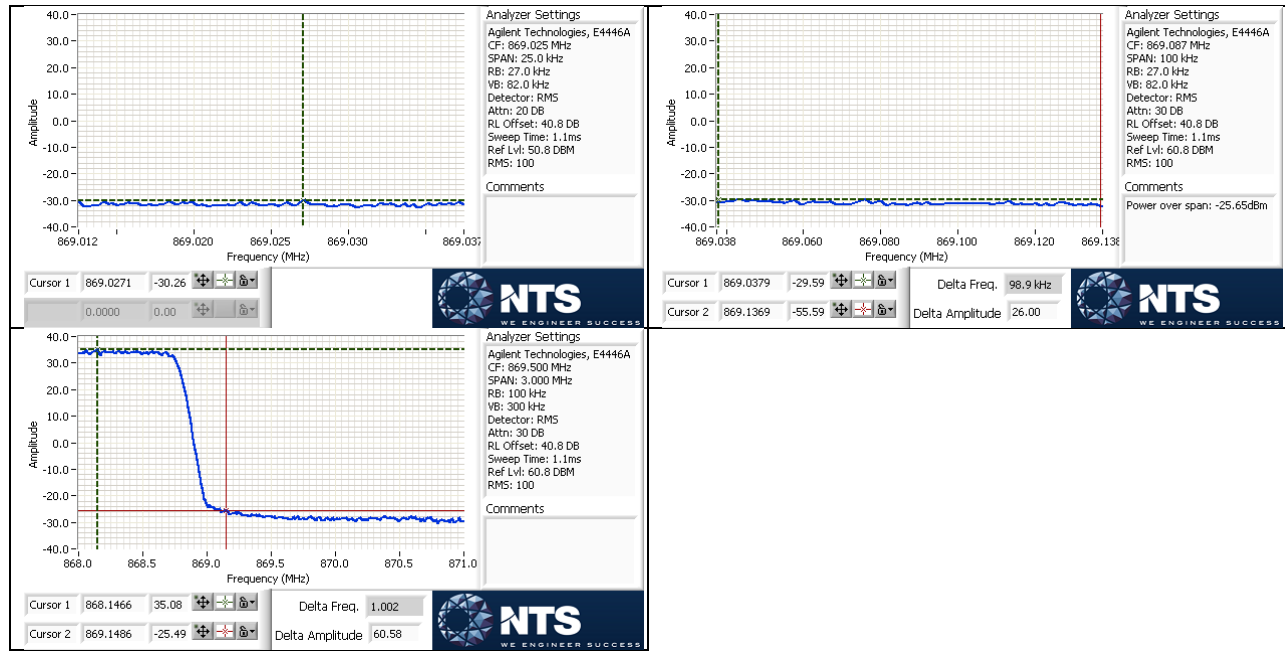


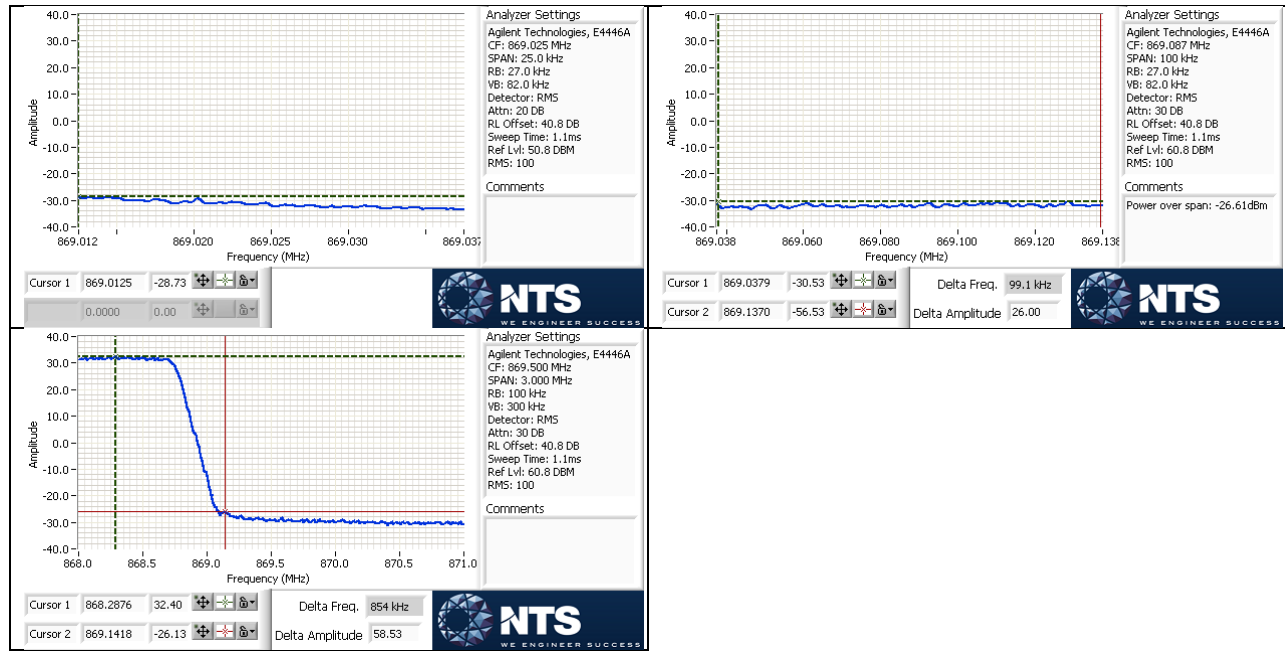


3M – LTE – 16QAM – HIGH-1

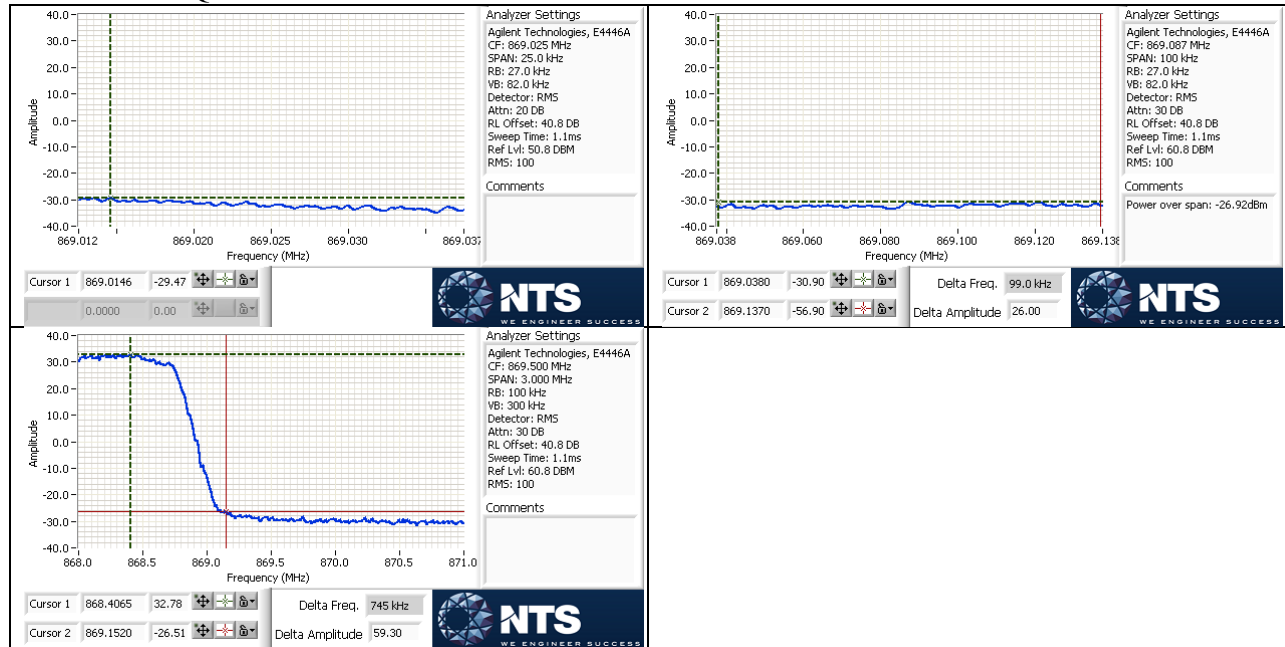


3M – LTE – 64QAM – HIGH-1

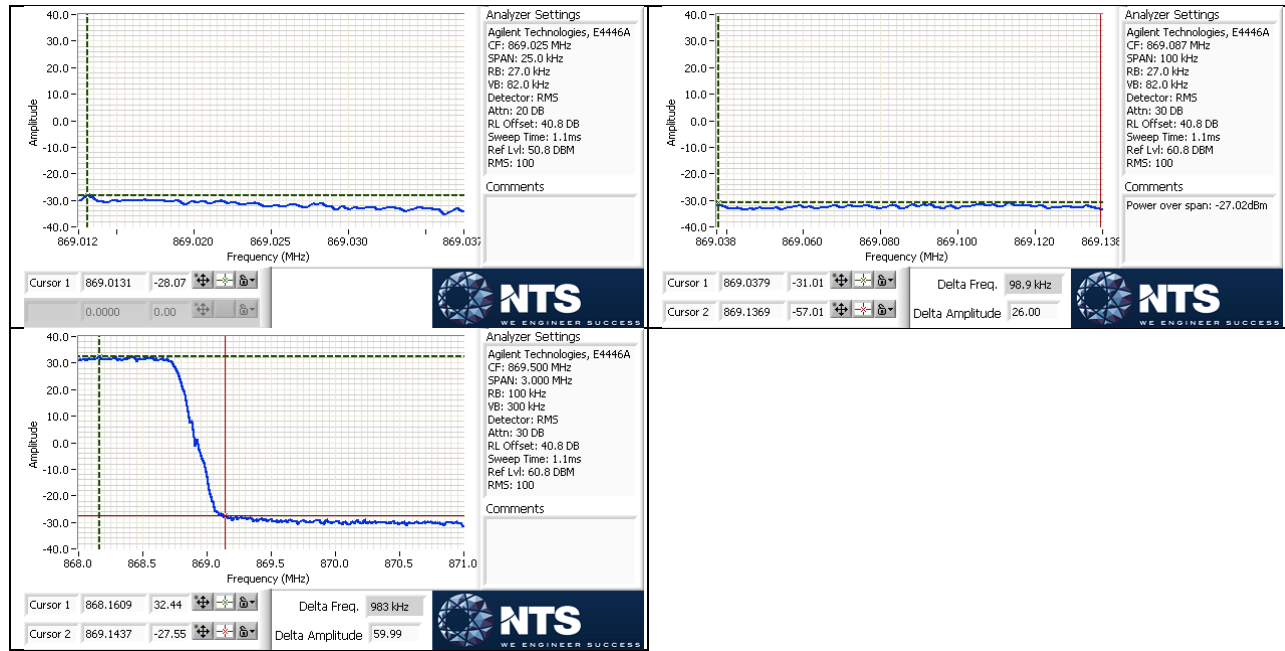


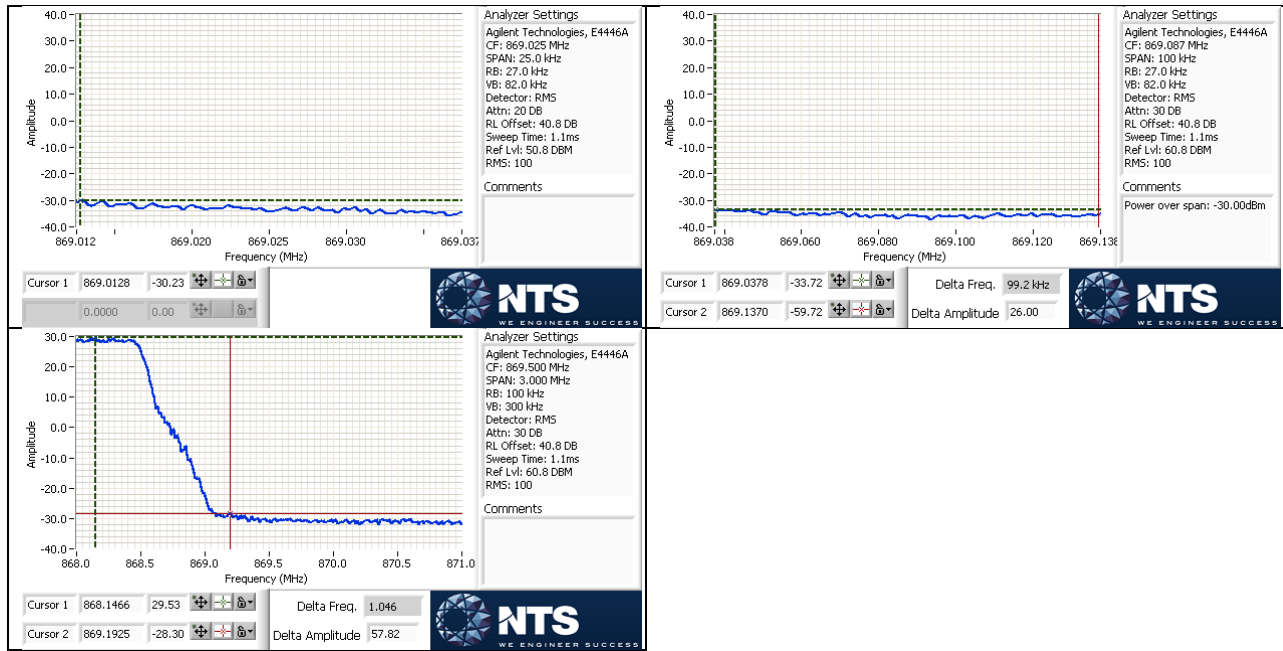


5M – LTE – 16QAM – HIGH

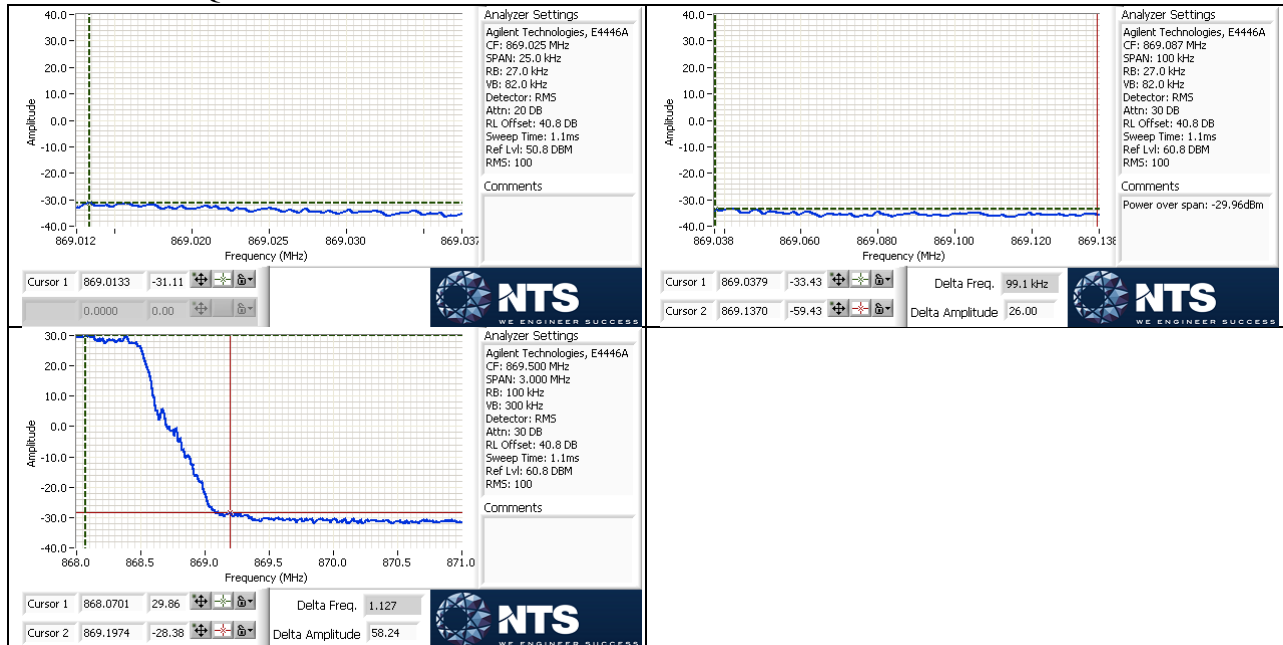


5M – LTE – 64QAM – HIGH

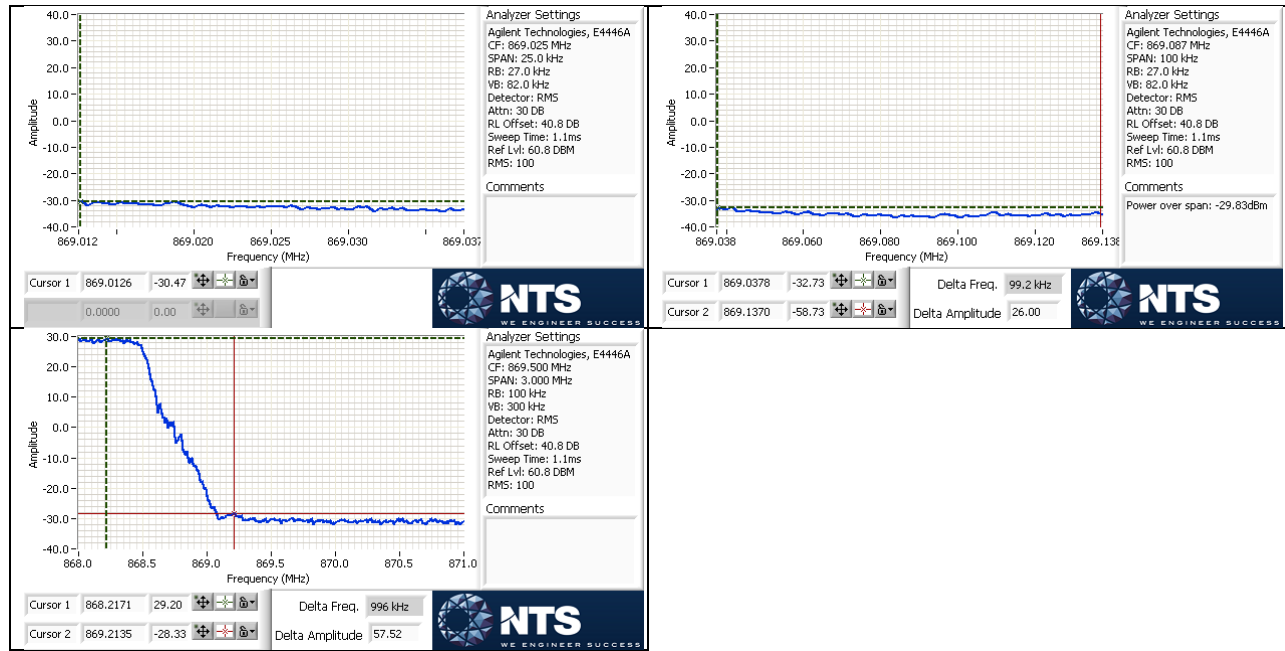


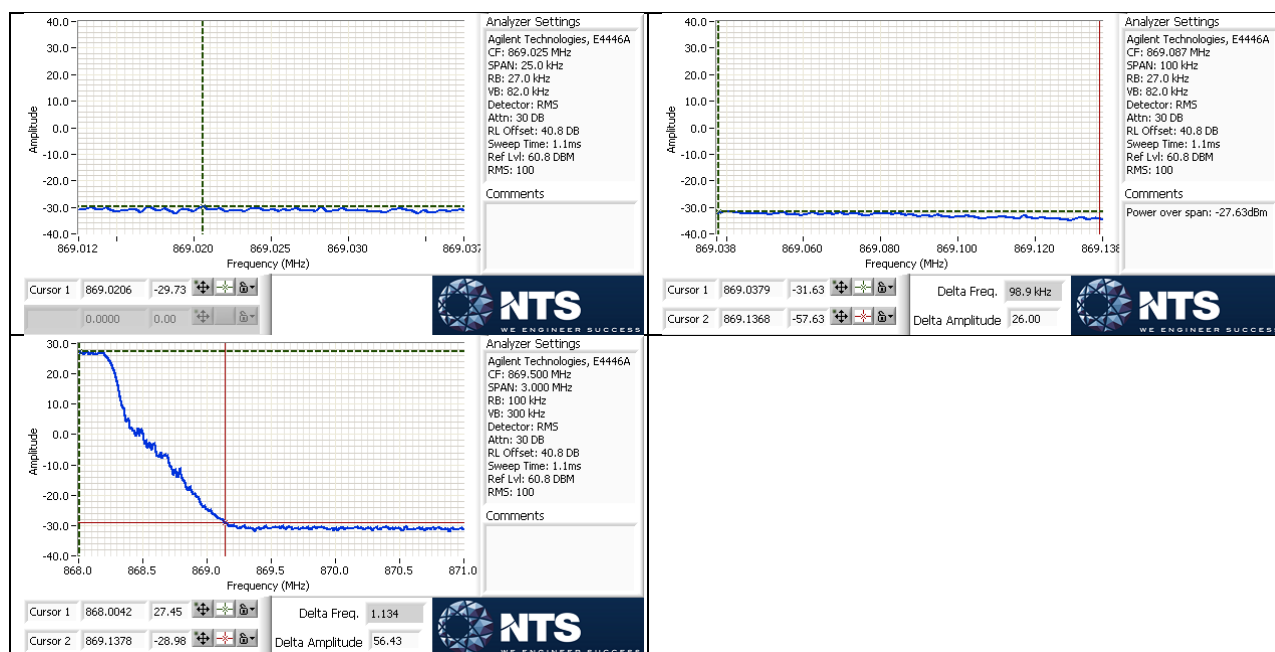


10M – LTE – 16QAM – HIGH

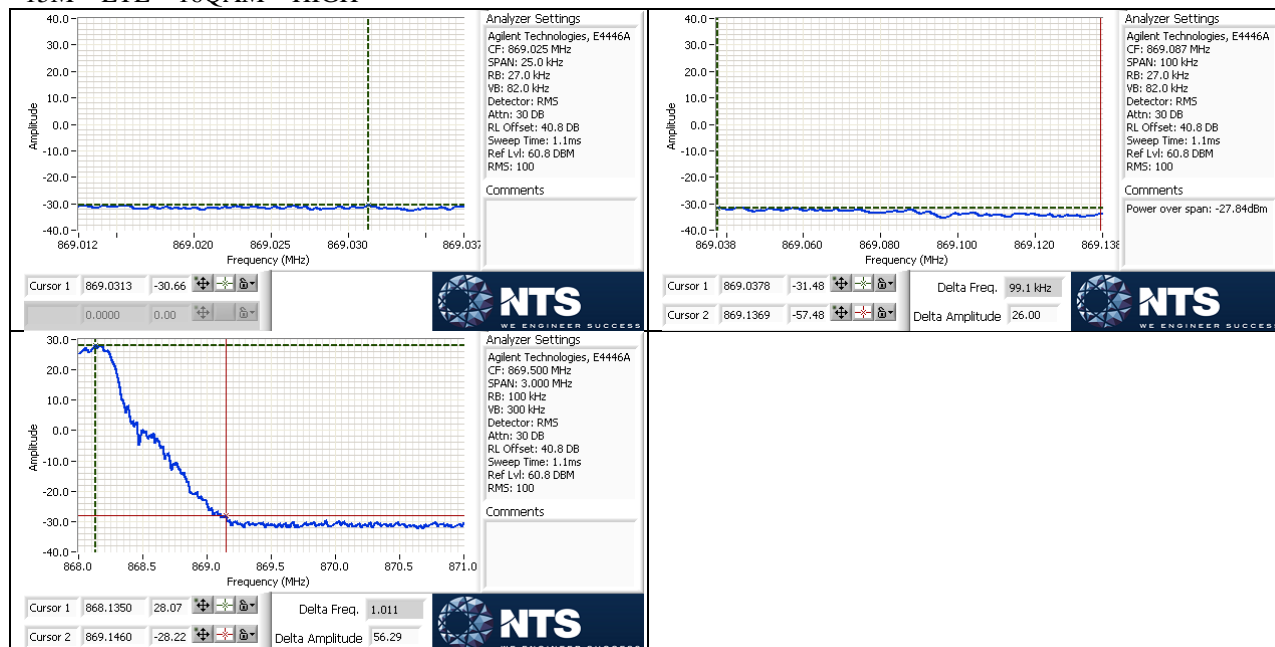


10M – LTE – 64QAM – HIGH

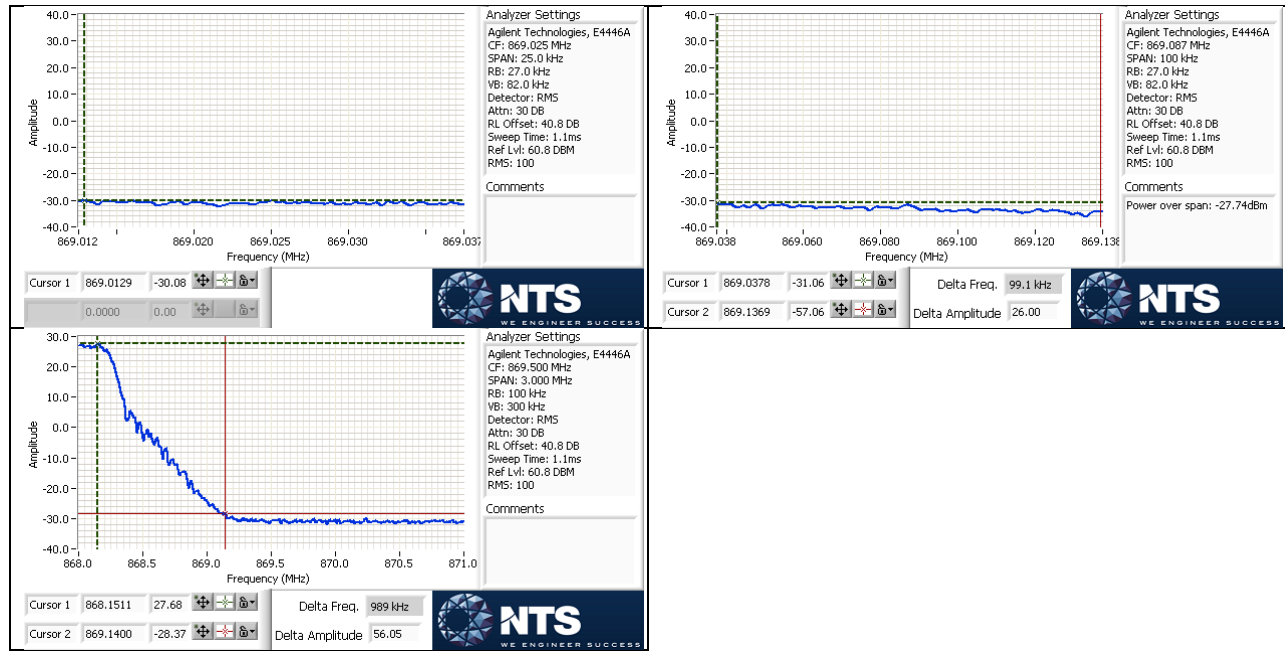


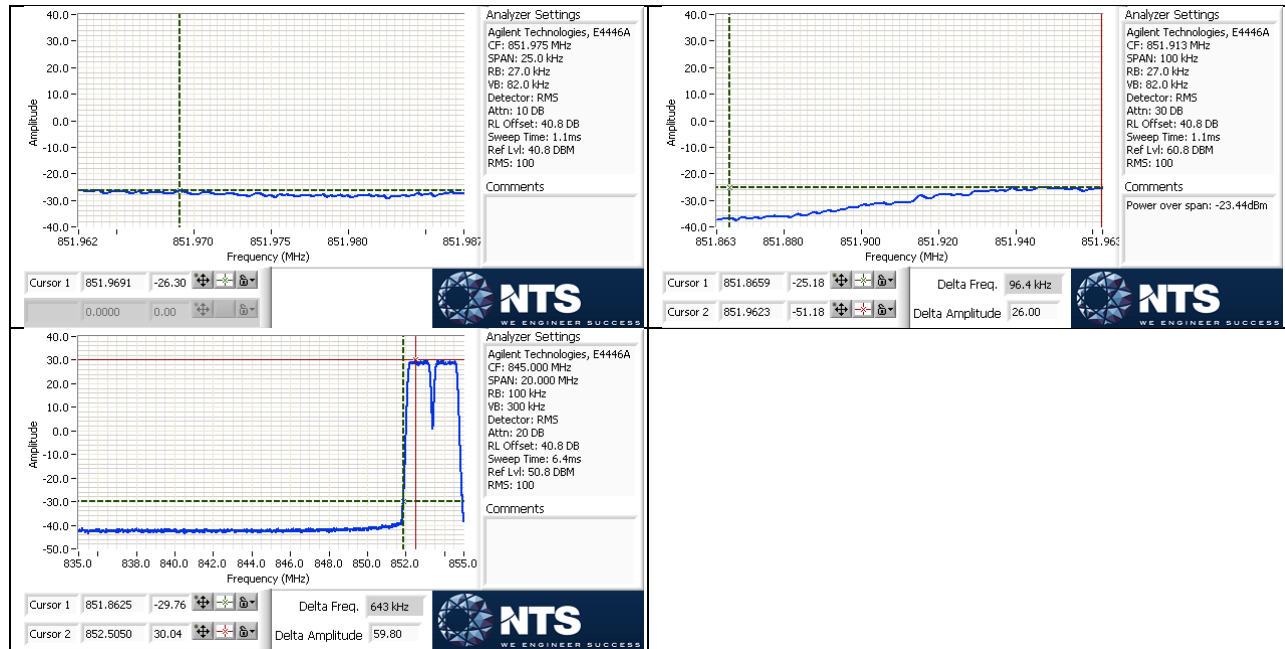


15M – LTE – 16QAM – HIGH

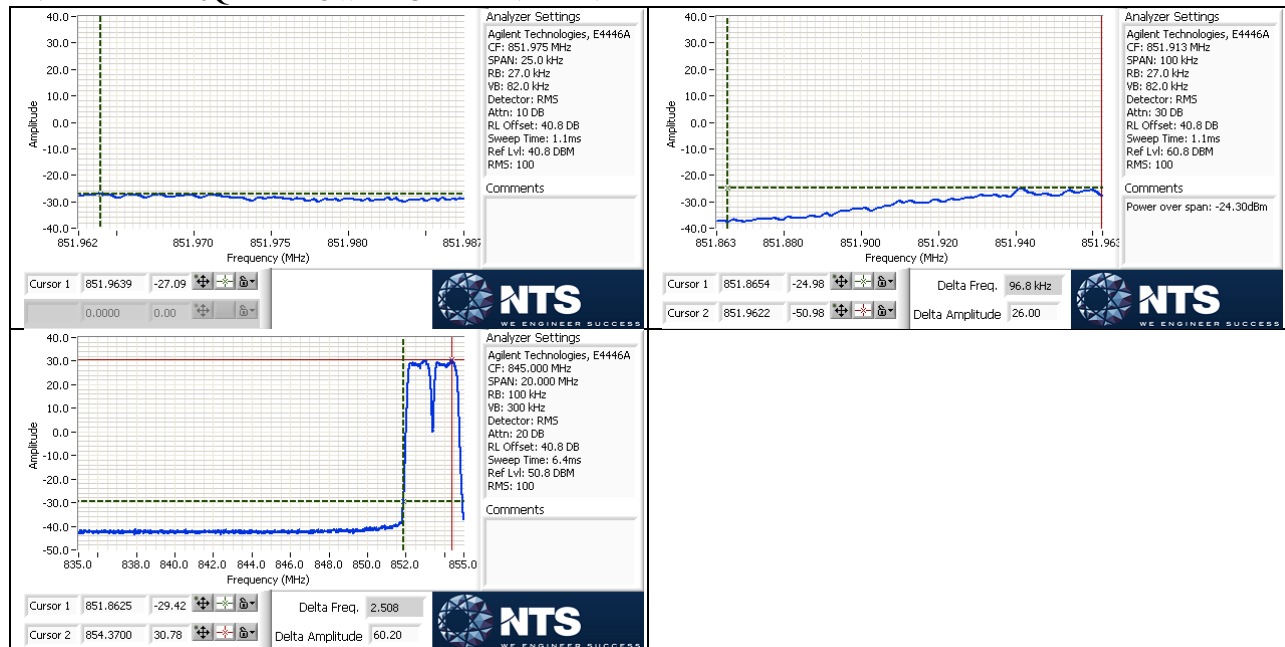


15M – LTE – 64QAM – HIGH





1.4M – LTE – 16QAM – LOW – DUAL BAND MIN



1.4M – LTE – 64QAM – LOW – DUAL BAND MIN

