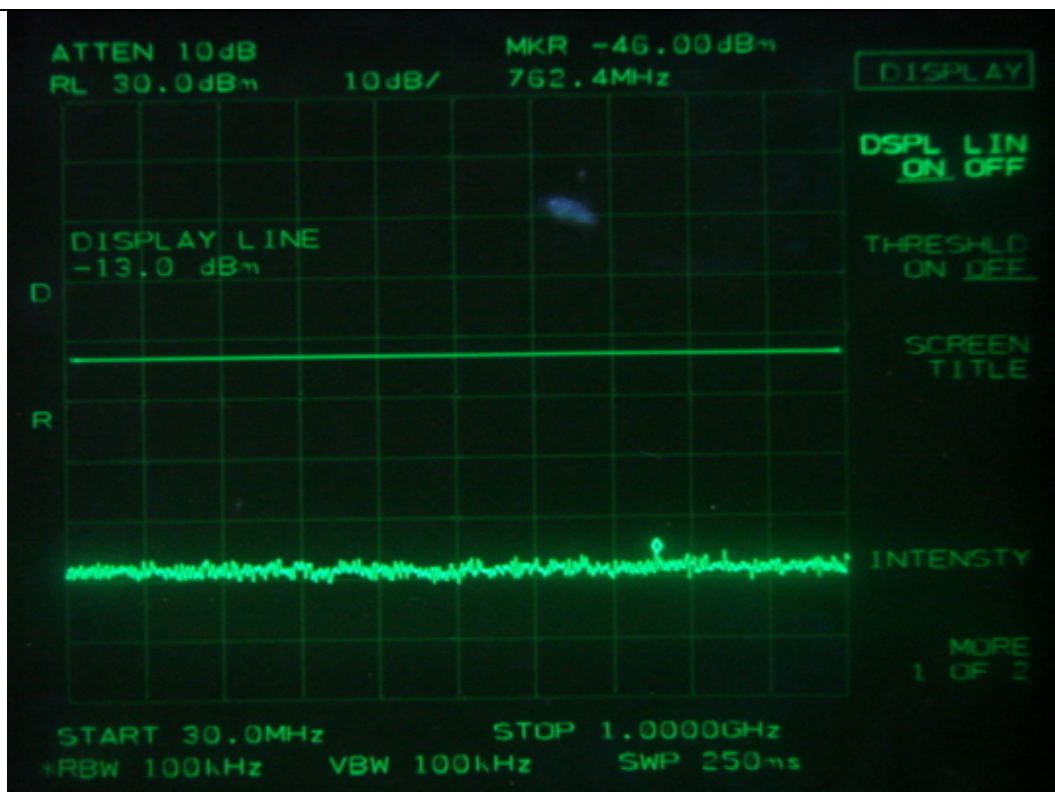
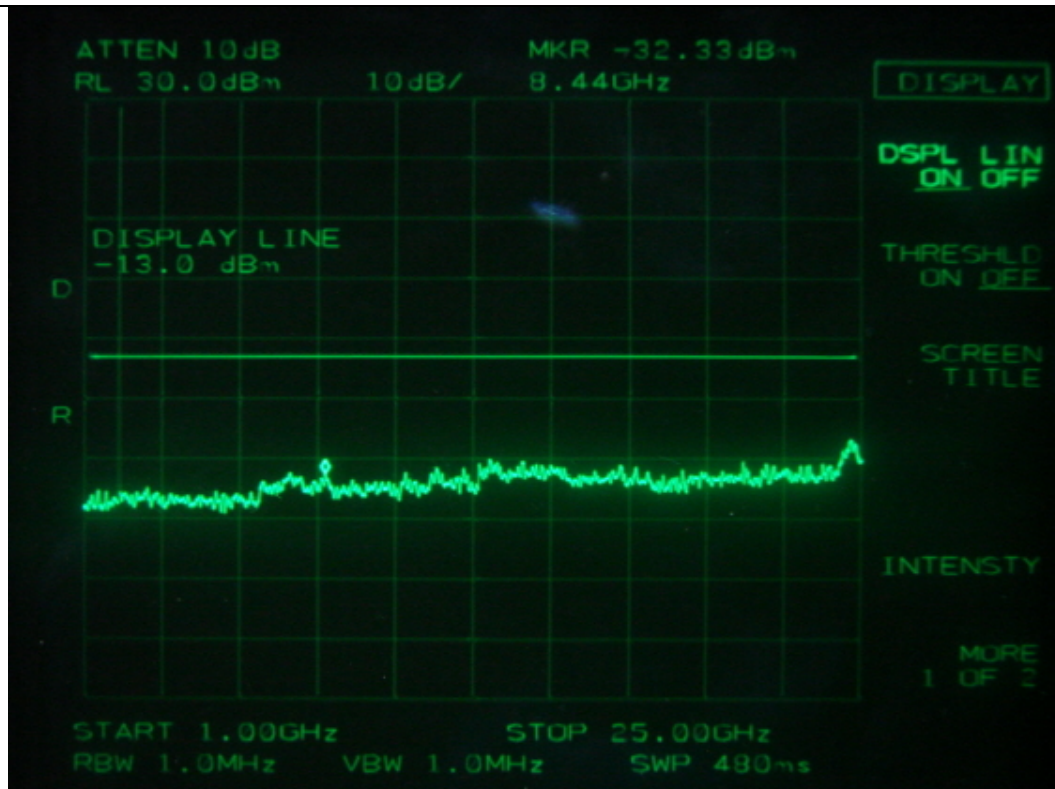
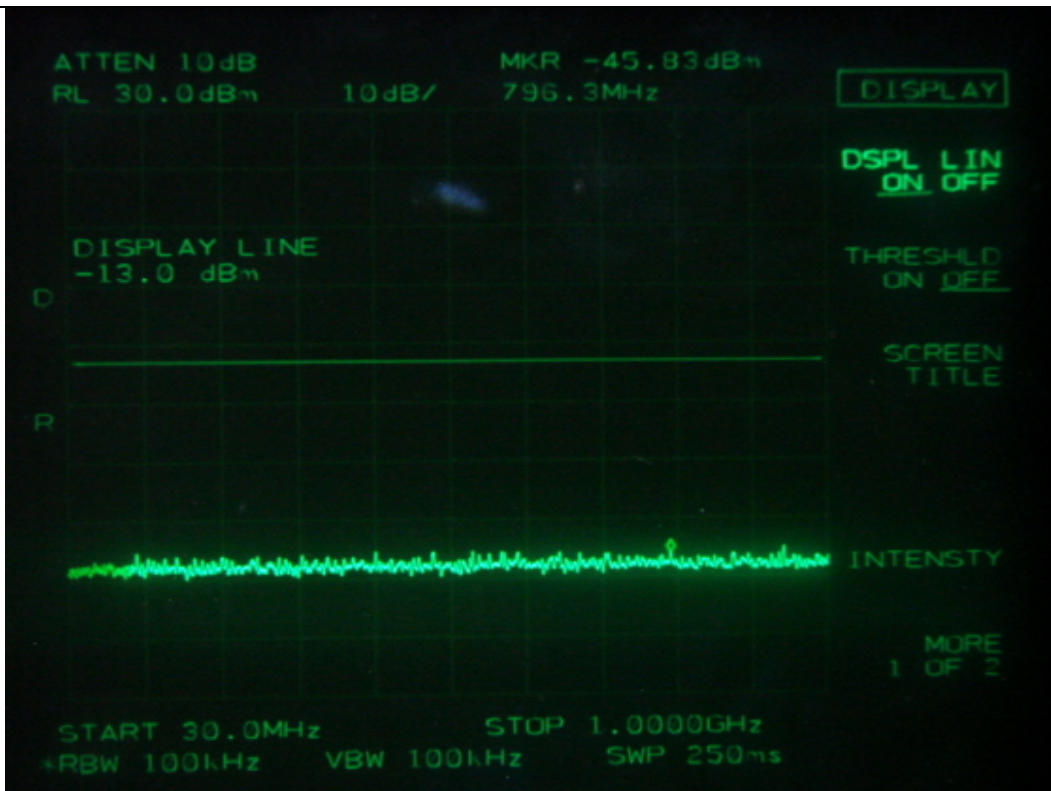




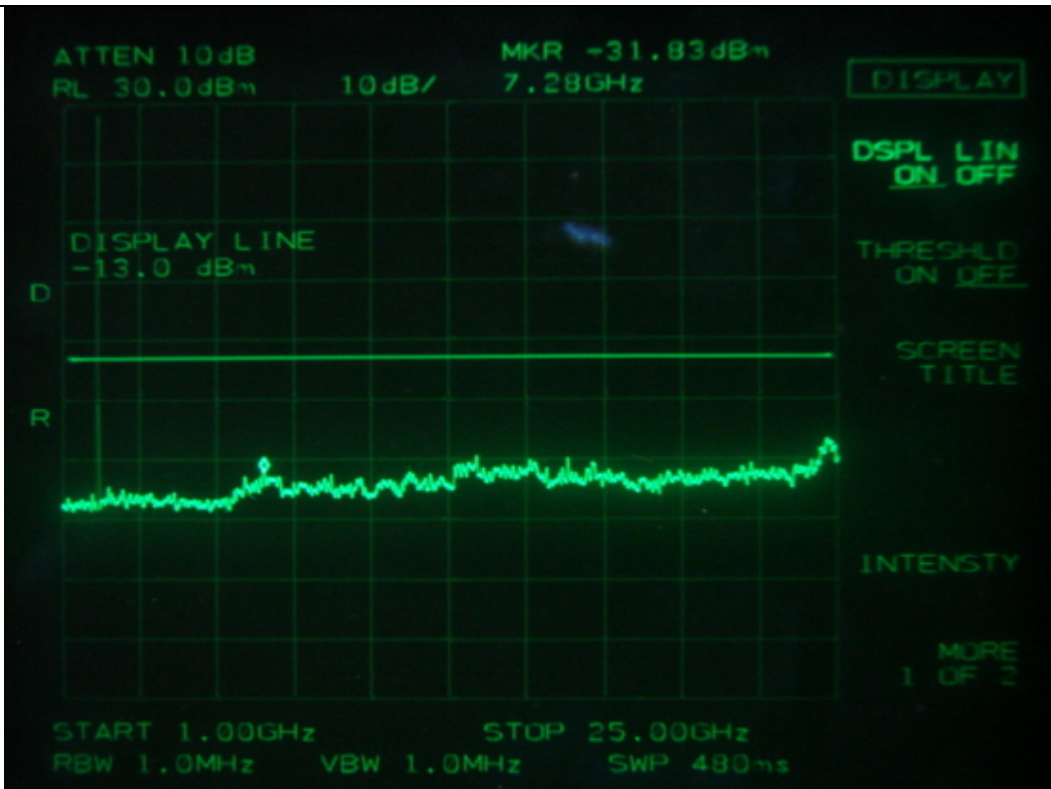
GSM - Low Channel



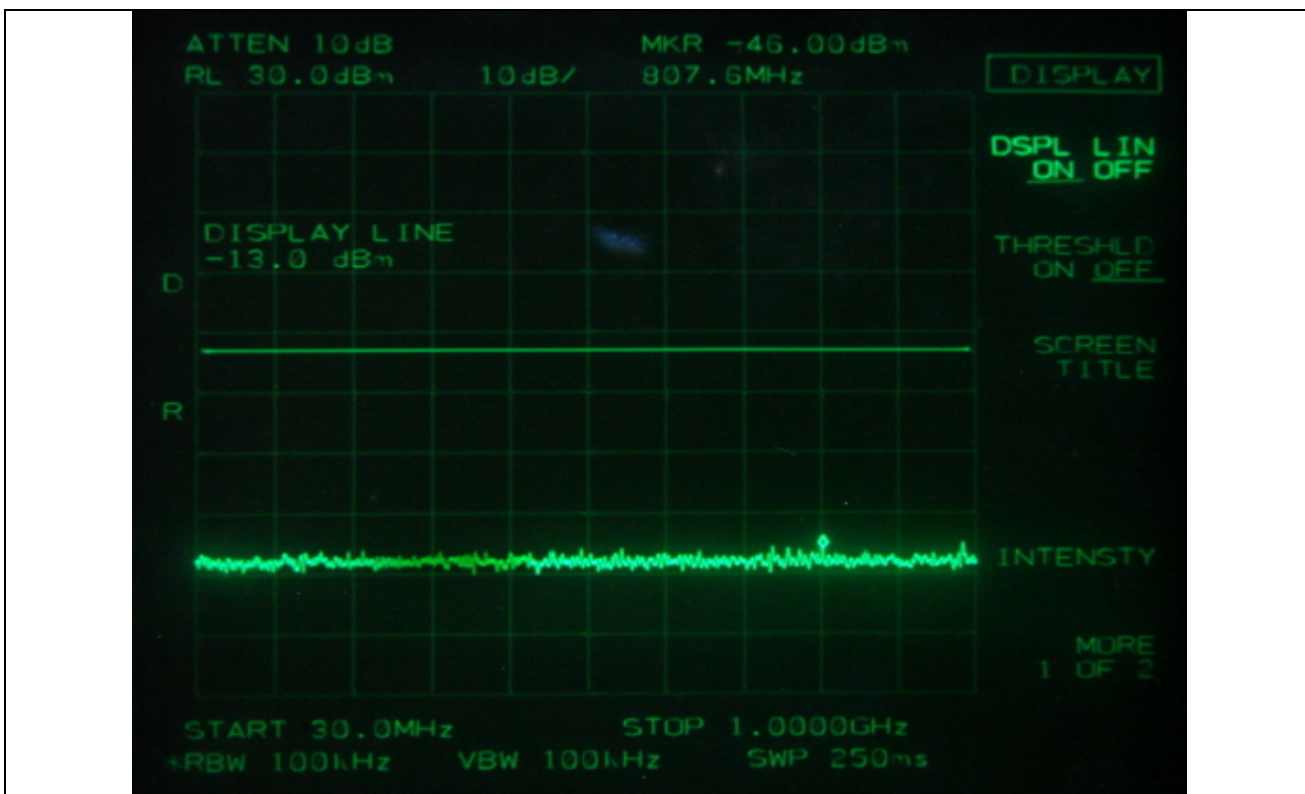
GSM - Low Channel



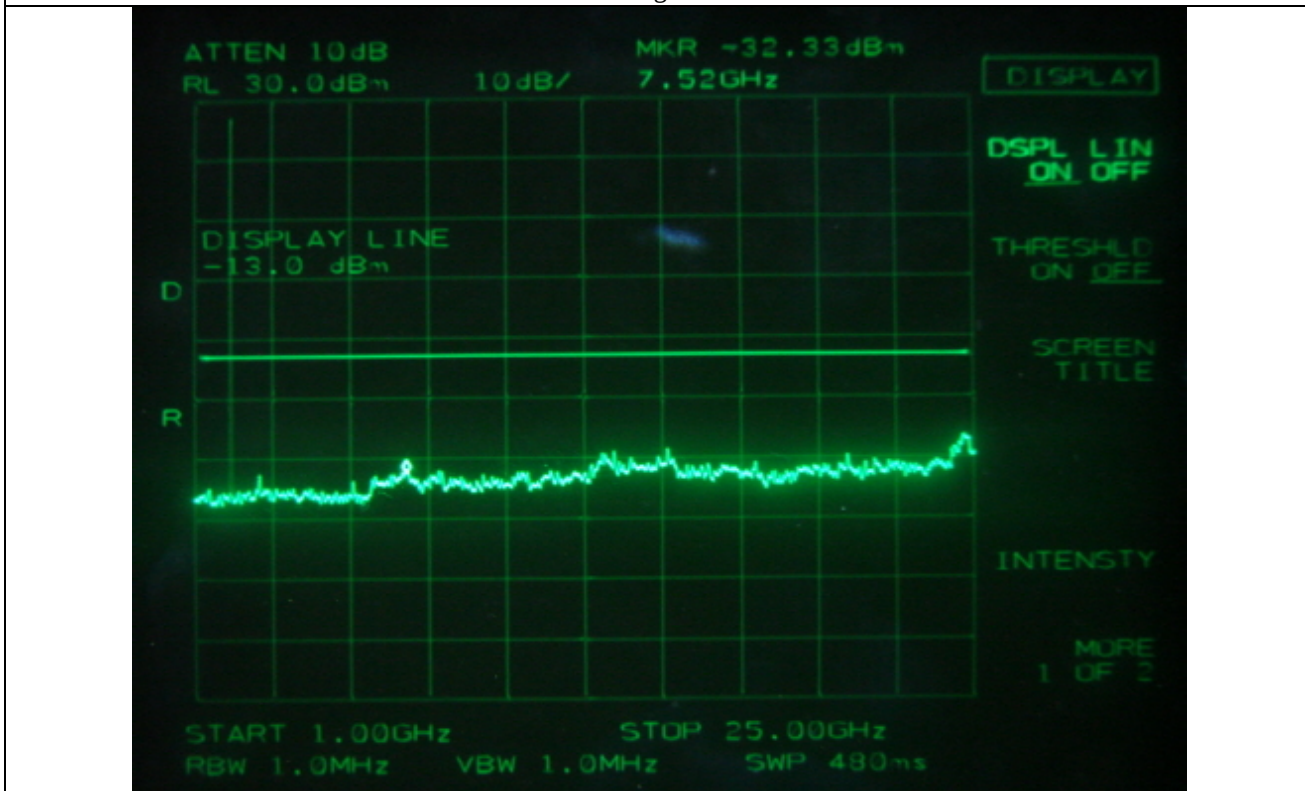
GSM – Middle Channel



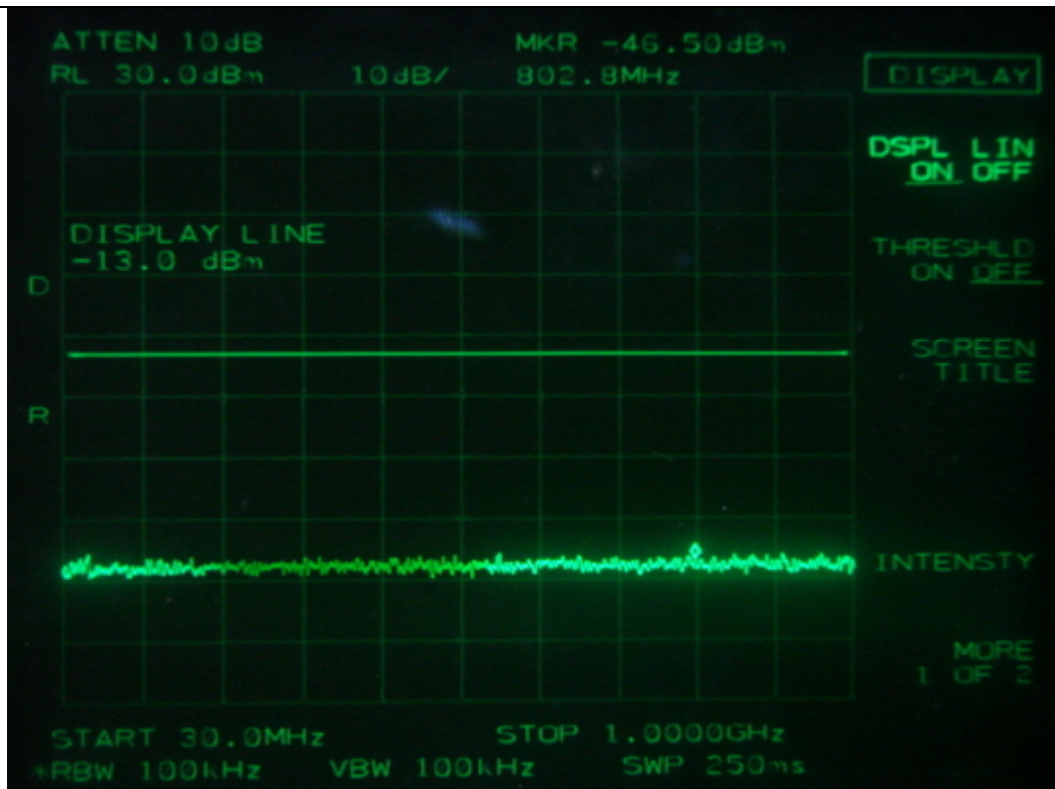
GSM – Middle Channel



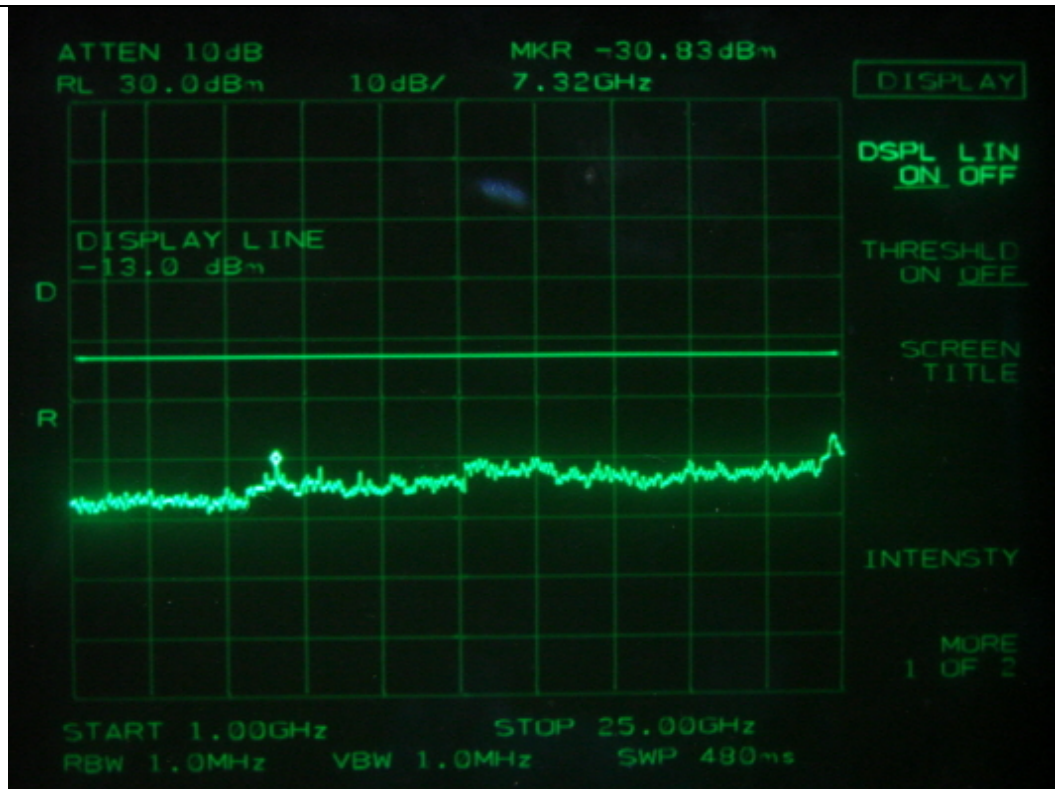
GSM – High Channel



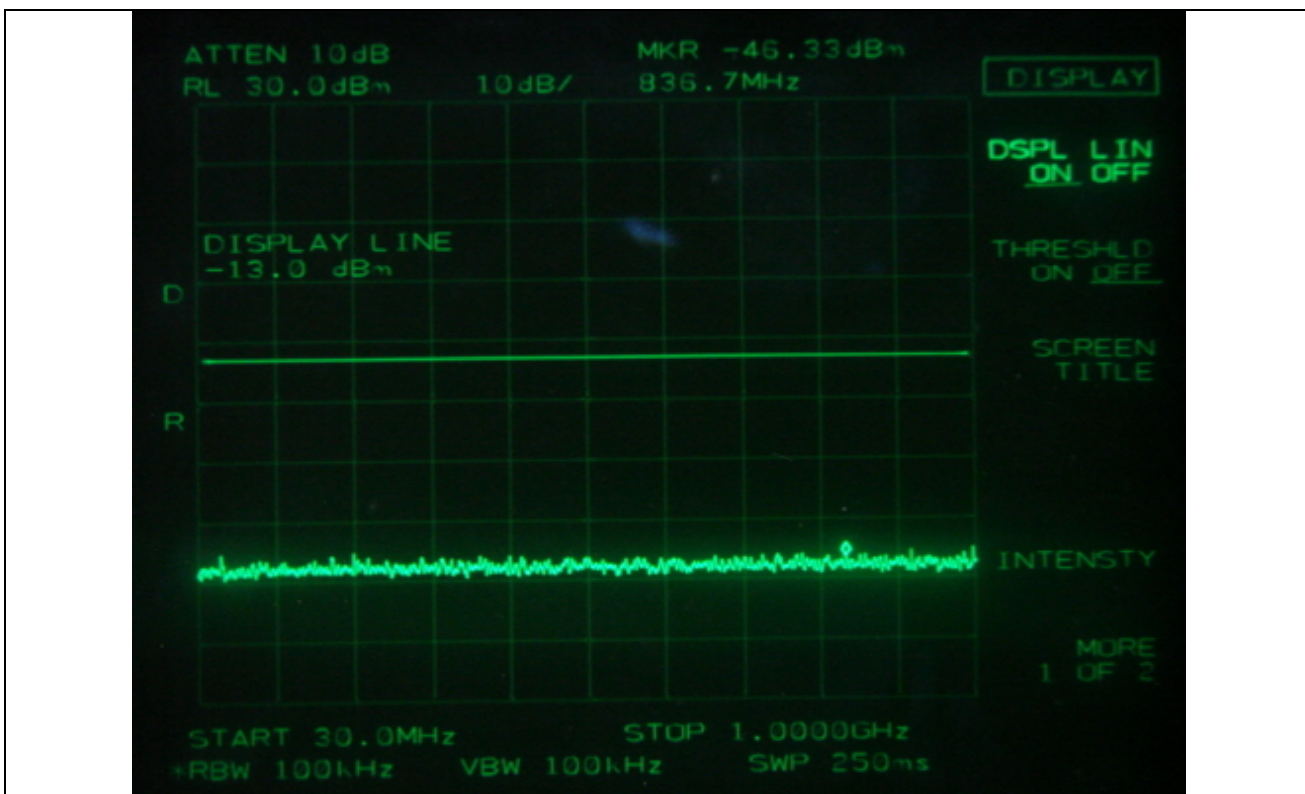
GSM – High Channel



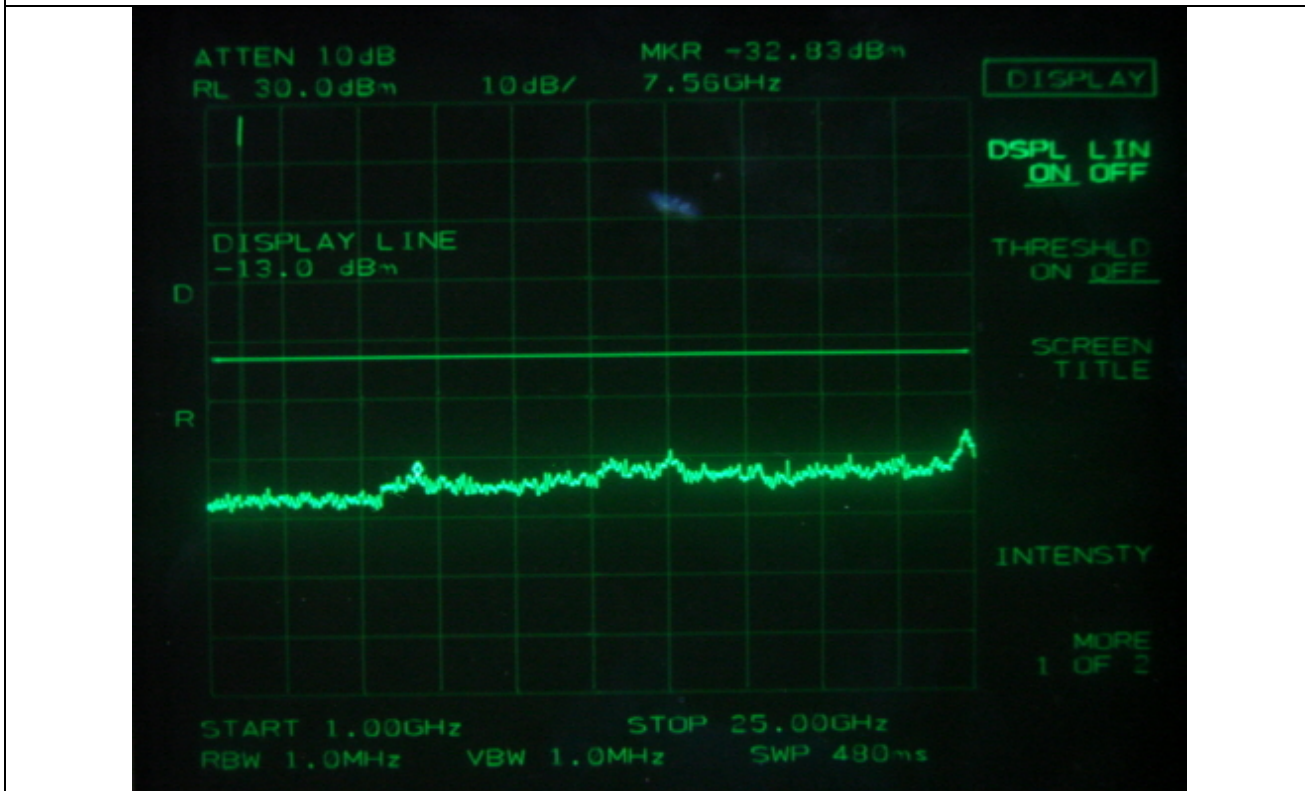
EDGE – Low Channel



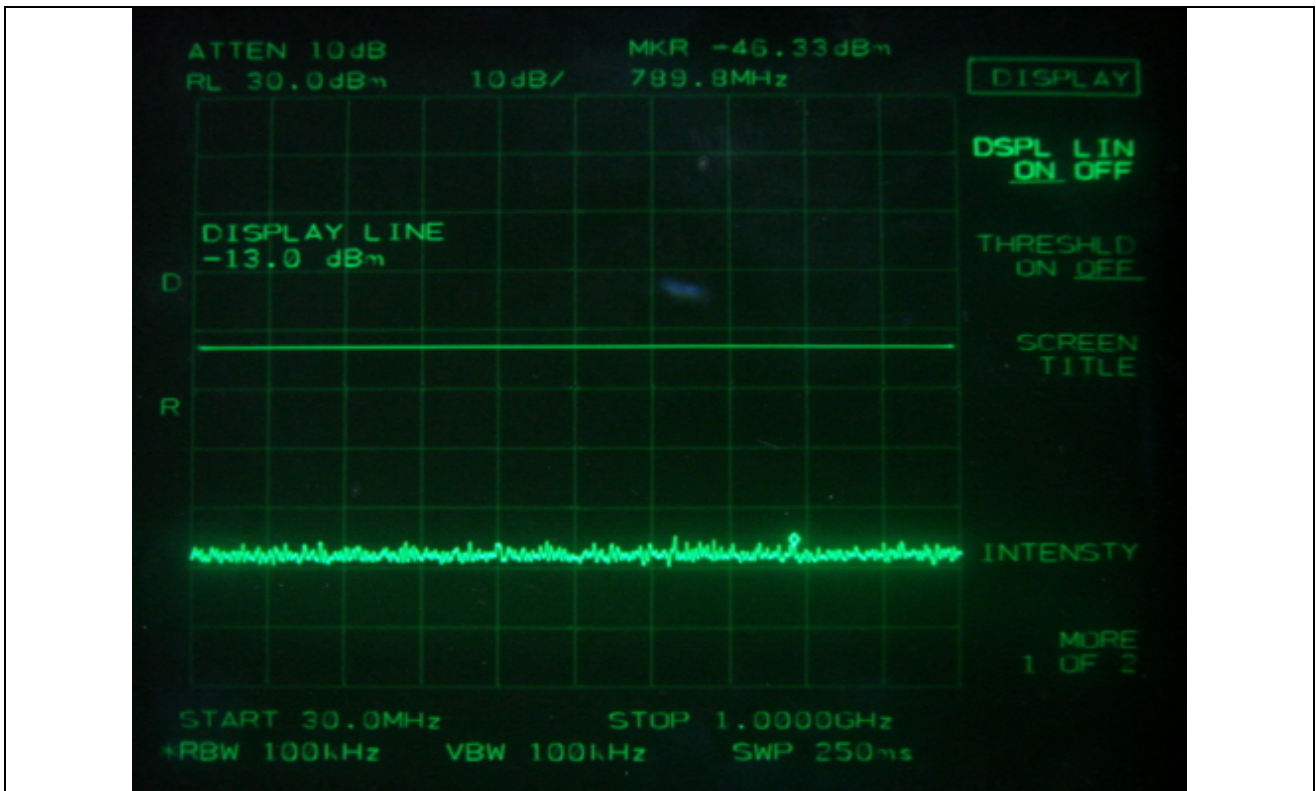
EDGE – Low Channel



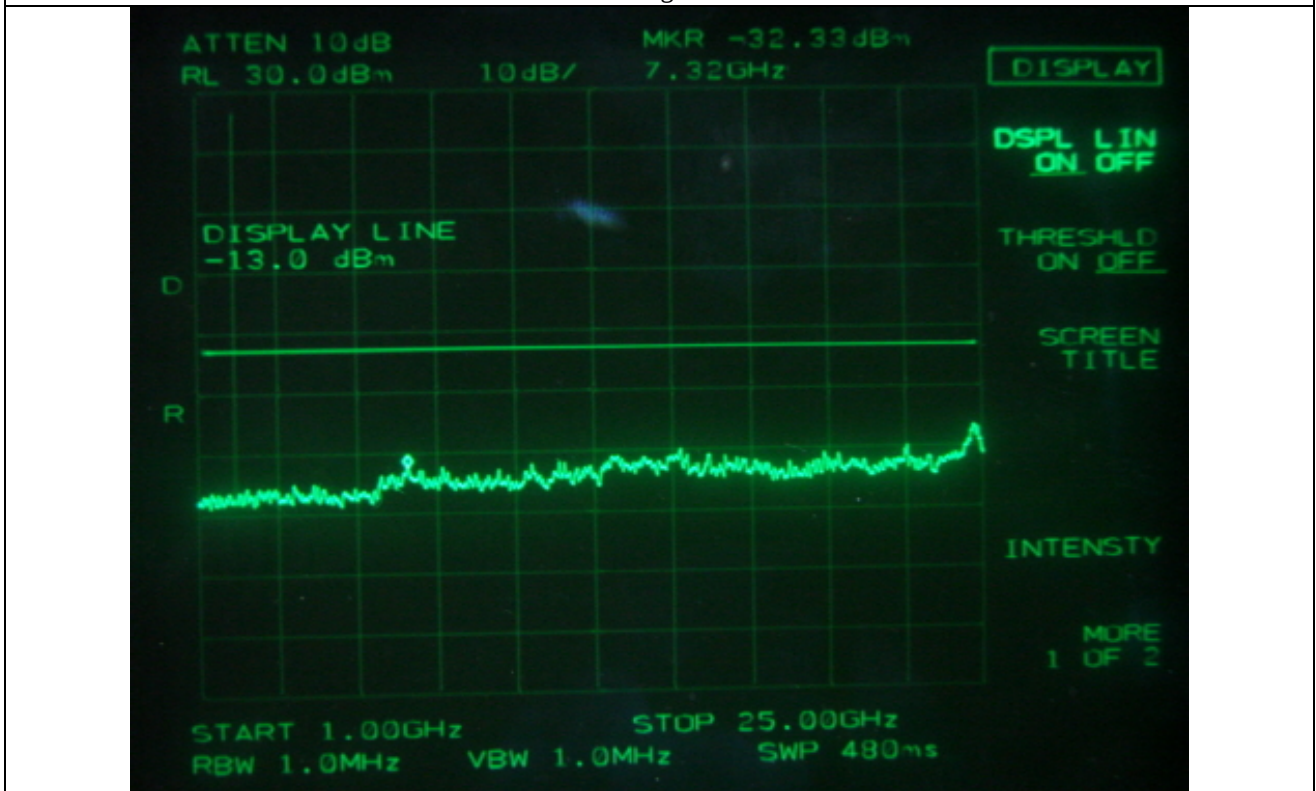
EDGE – Middle Channel



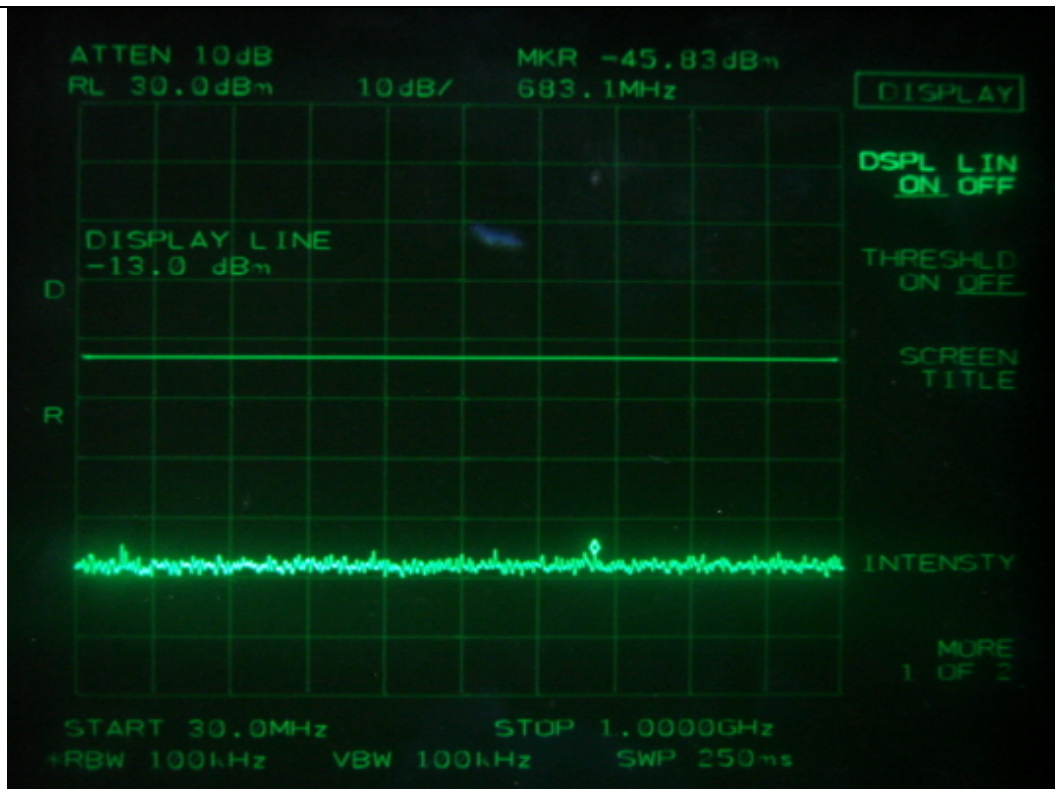
EDGE – Middle Channel



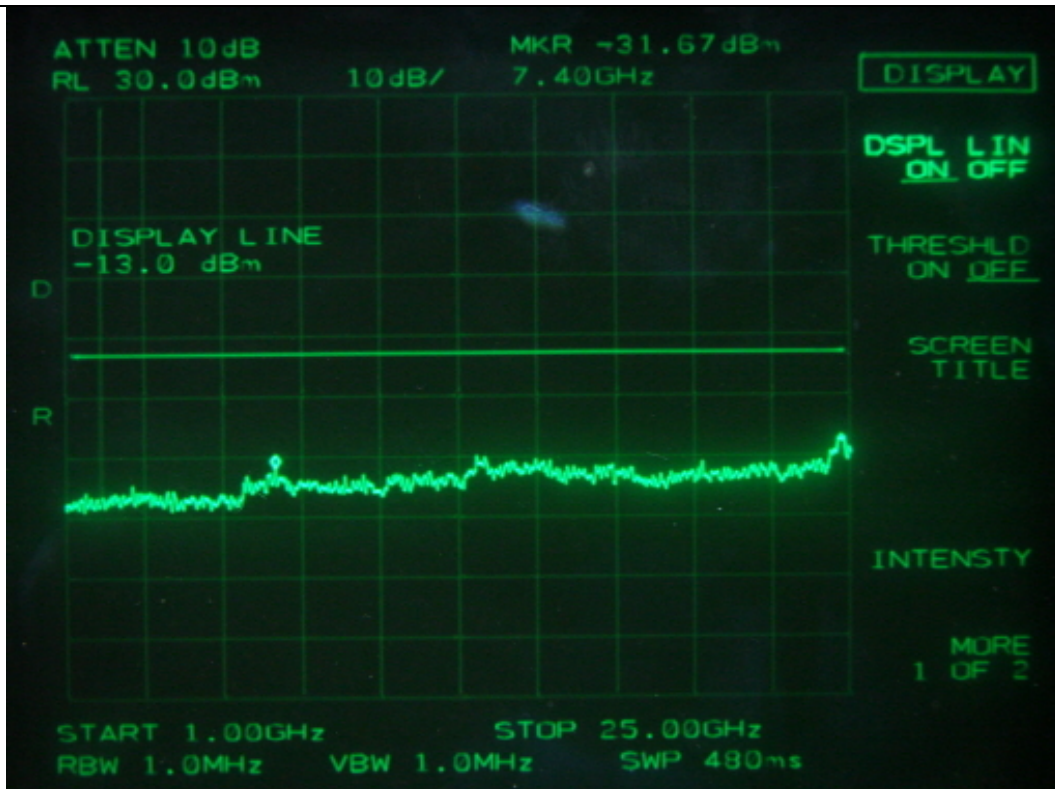
EDGE – High Channel



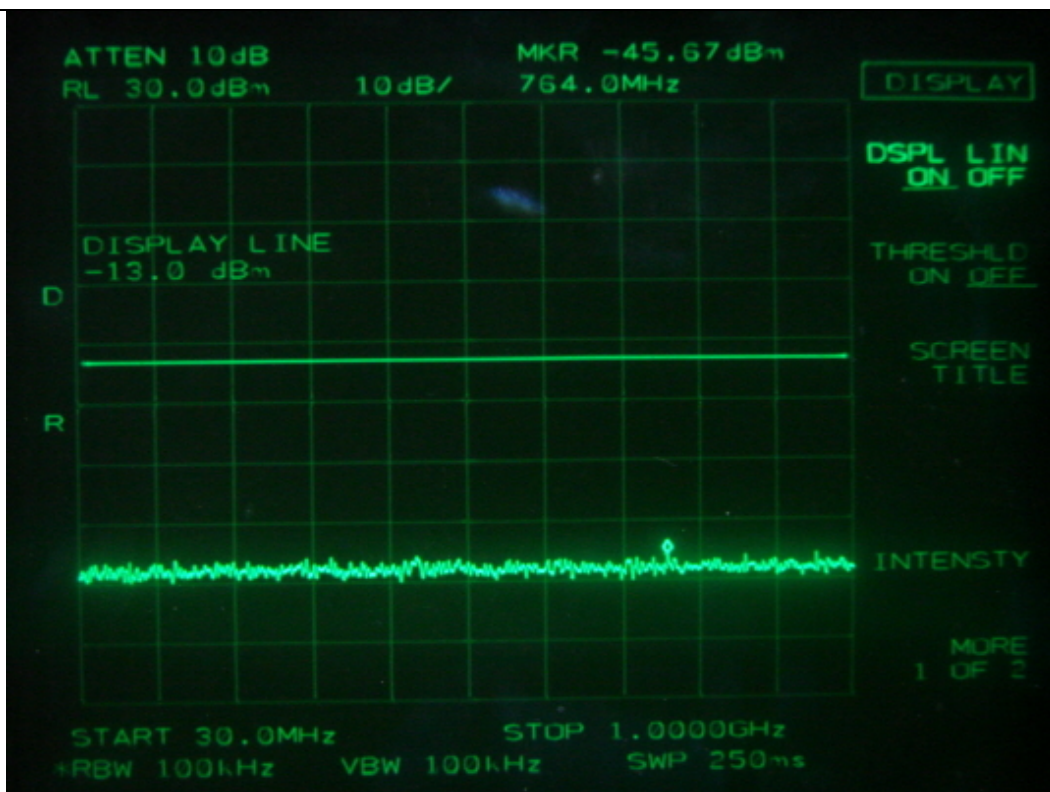
EDGE – High Channel



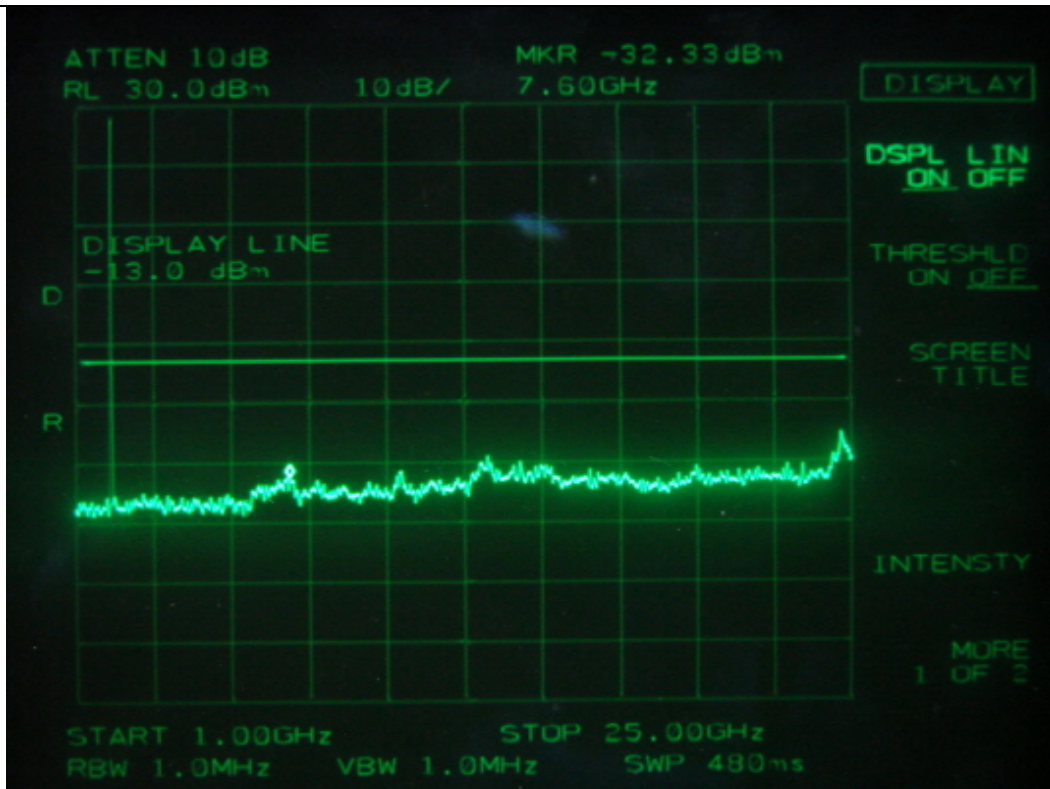
CDMA – Low Channel



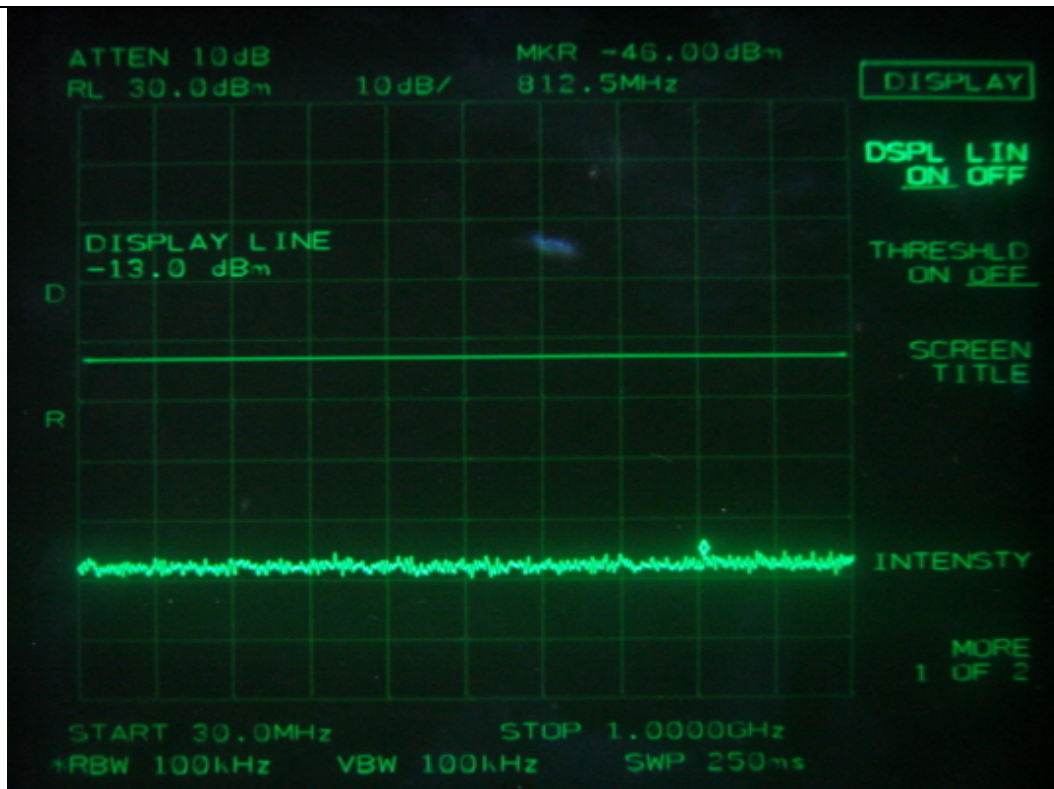
CDMA – Low Channel



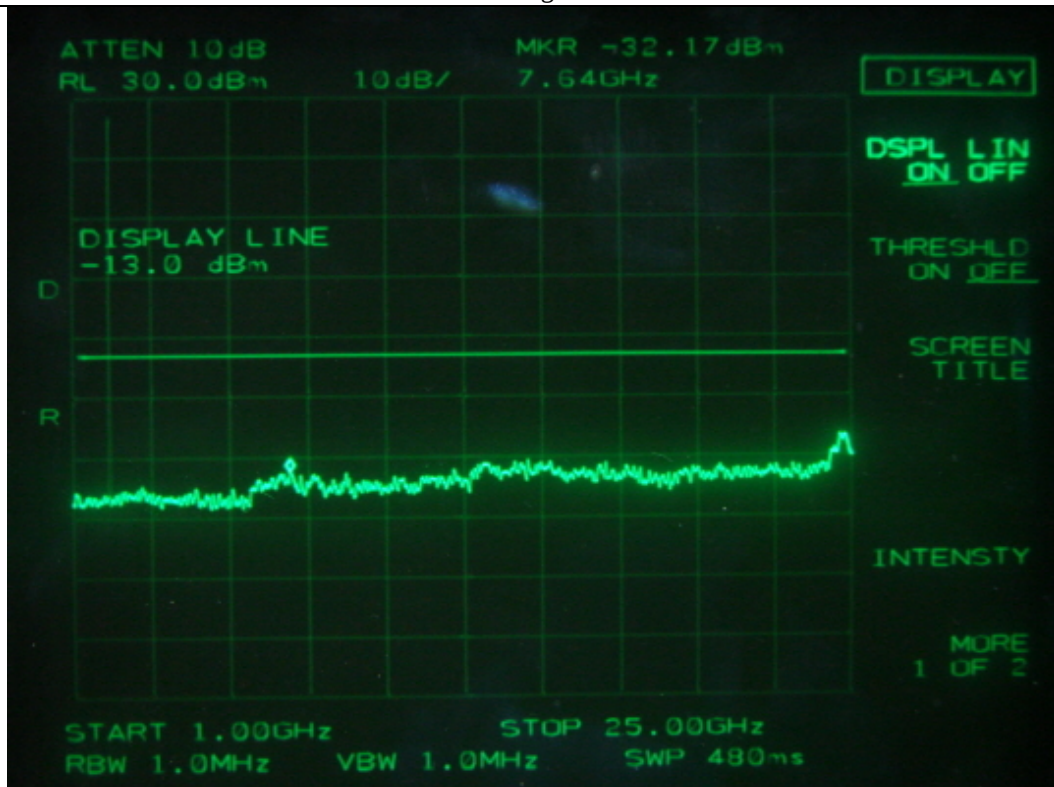
CDMA – Middle Channel



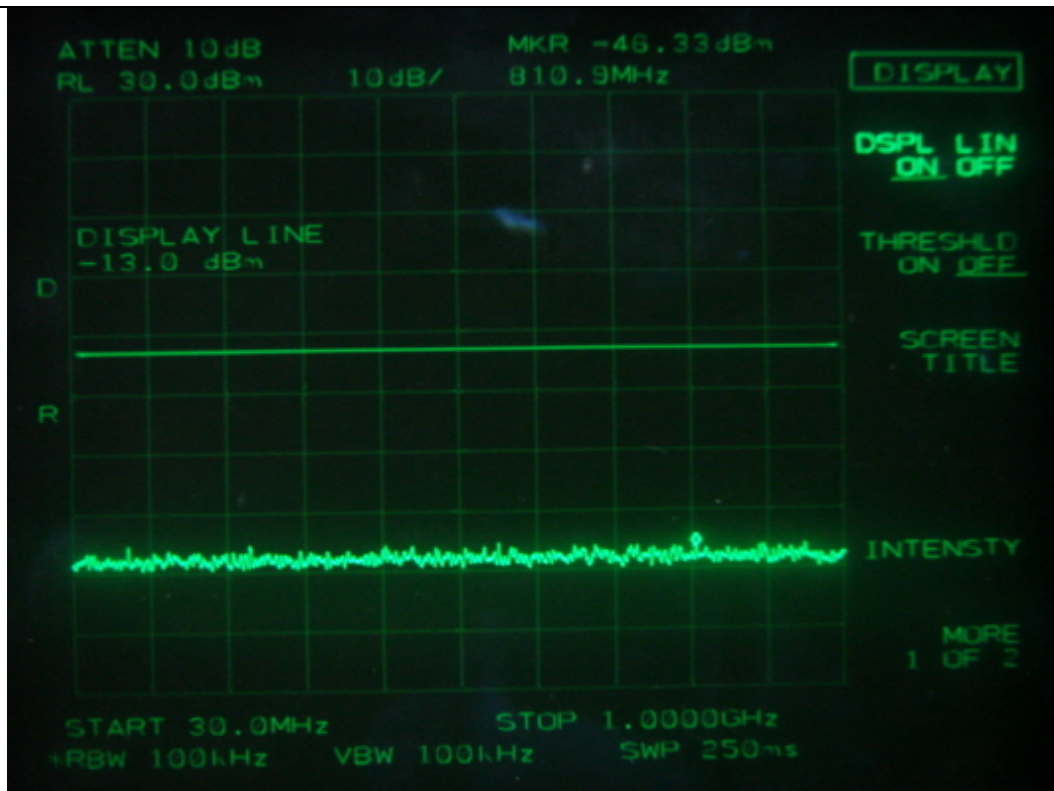
CDMA – Middle Channel



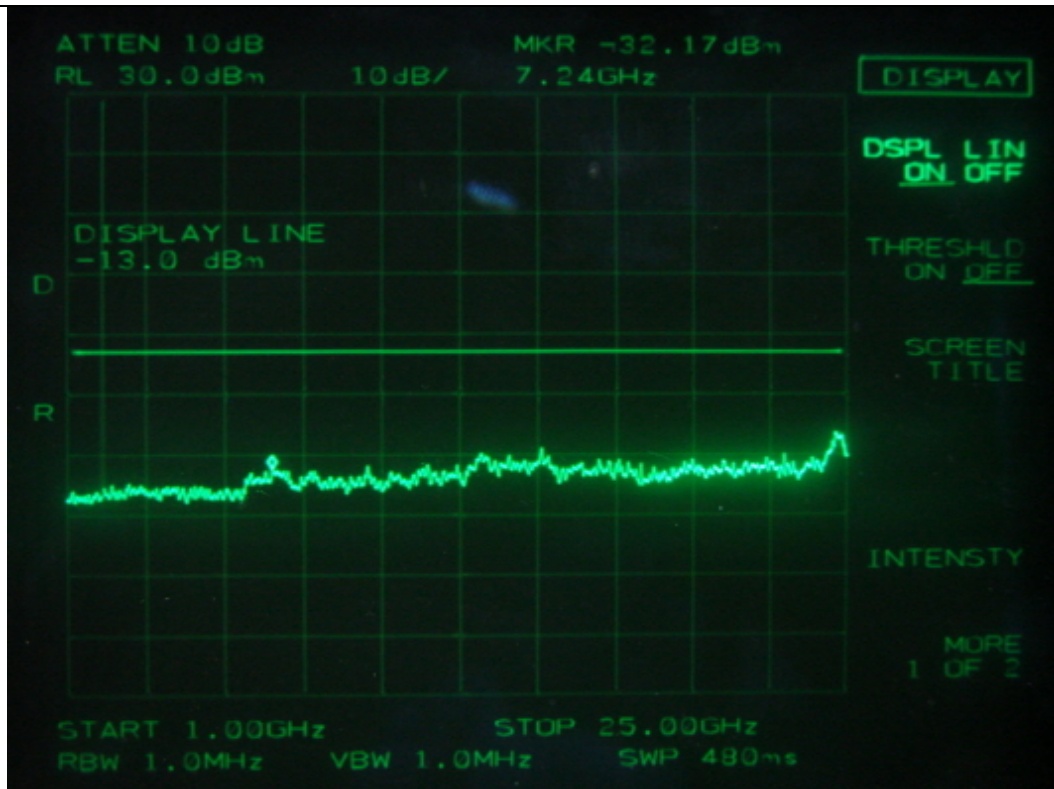
CDMA – High Channel



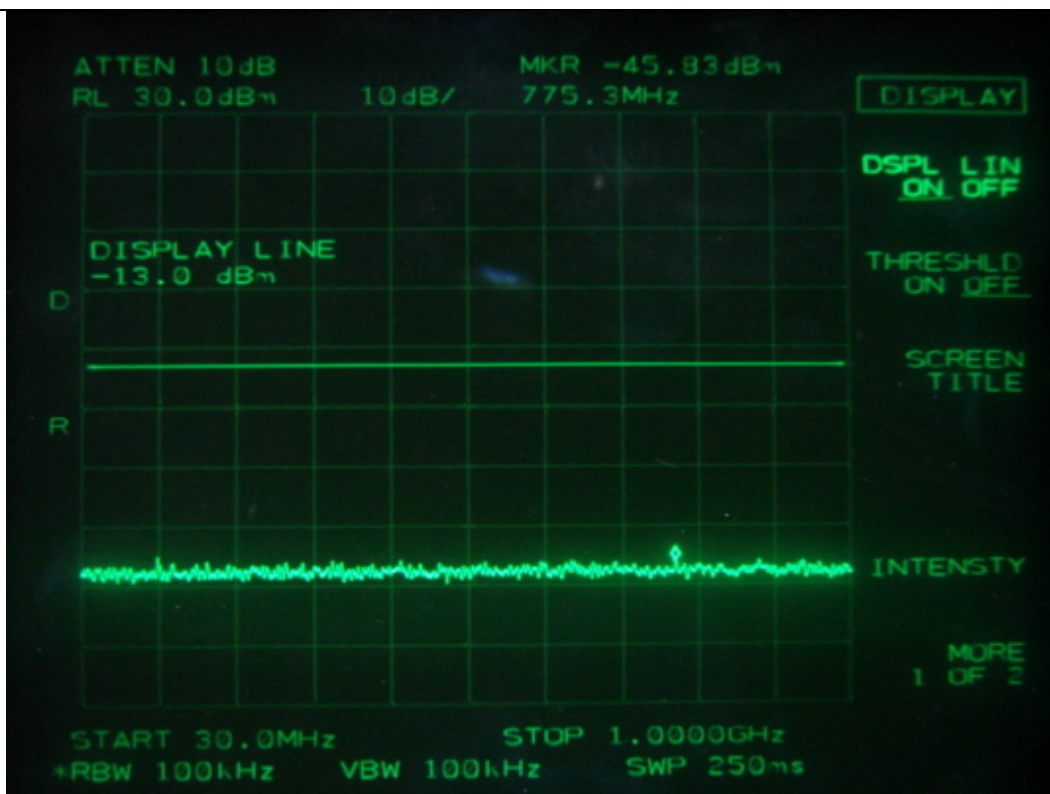
CDMA – High Channel



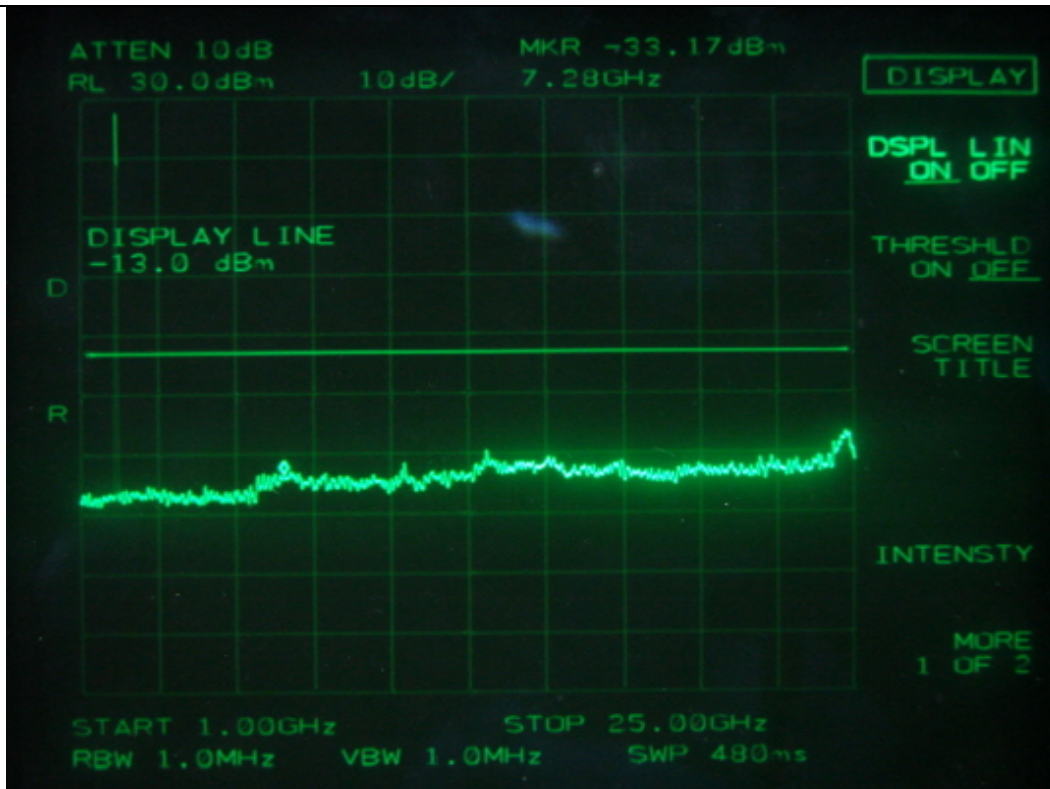
1xEVDO – Low Channel



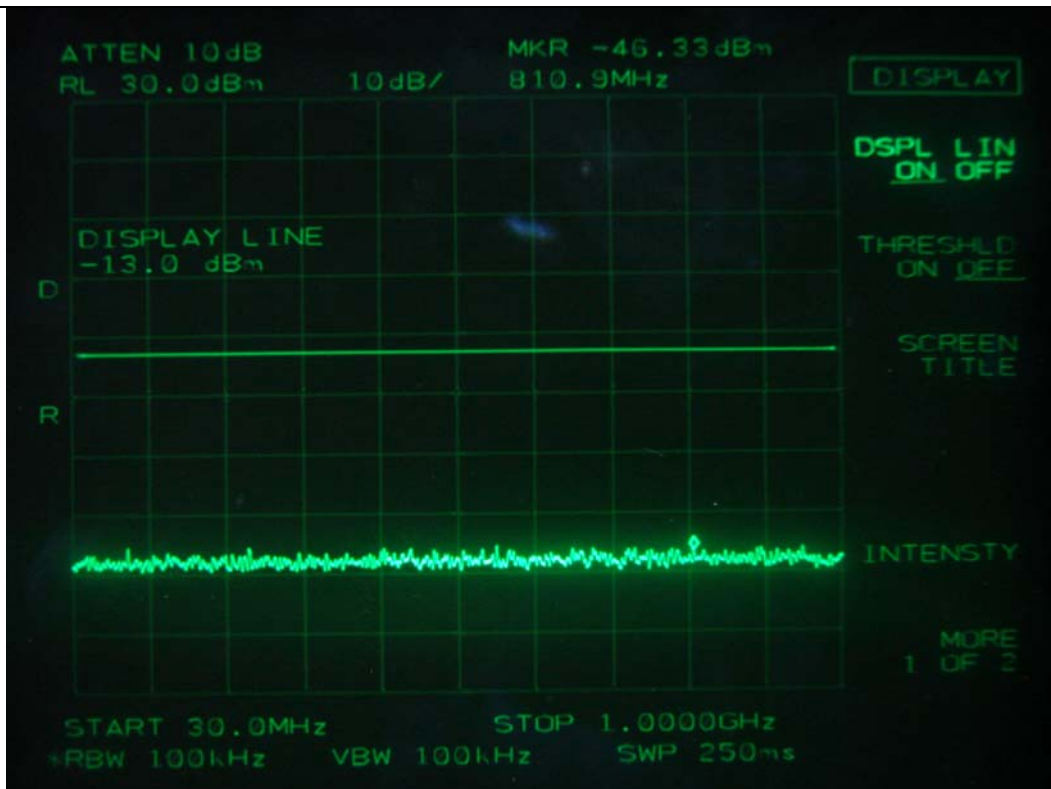
1xEVDO – Low Channel



1xEVDO – Middle Channel



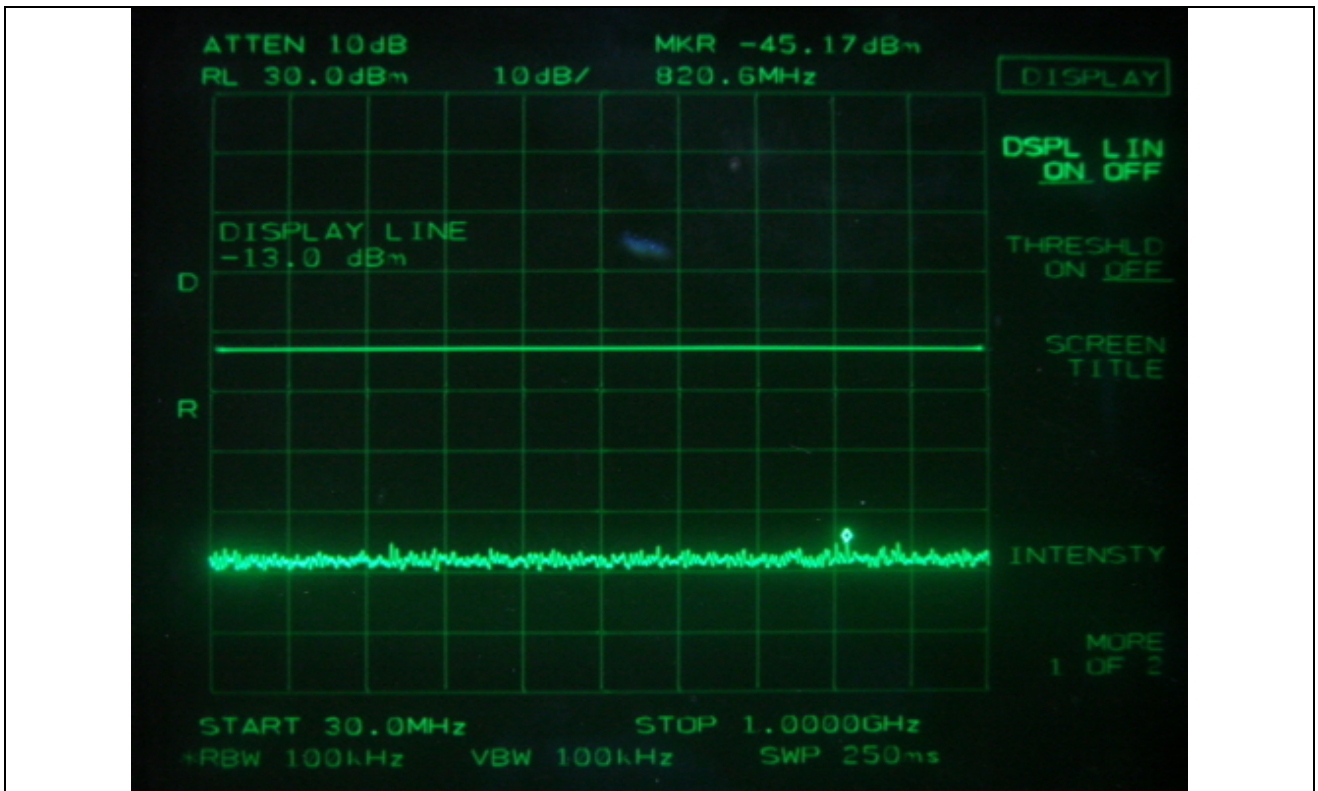
1xEVDO – Middle Channel



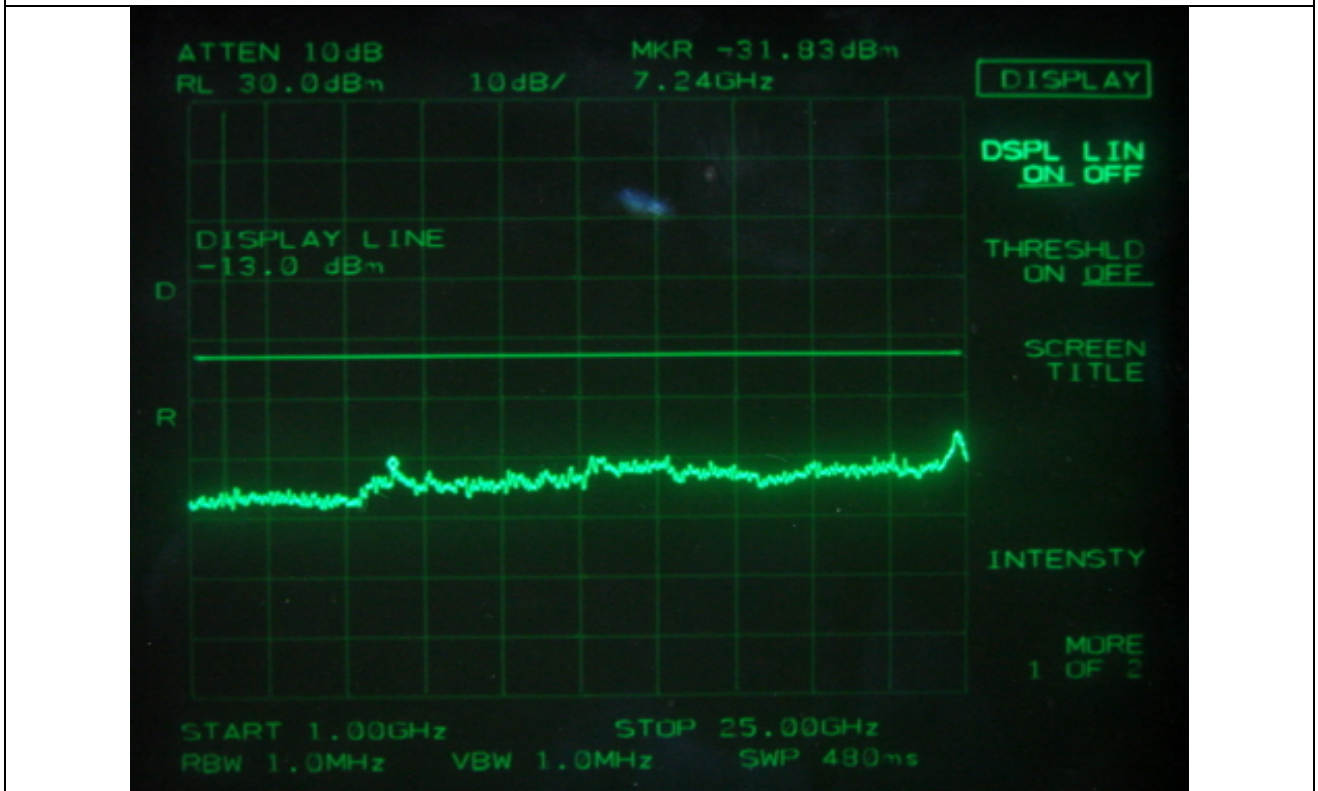
1xEVDO – High Channel



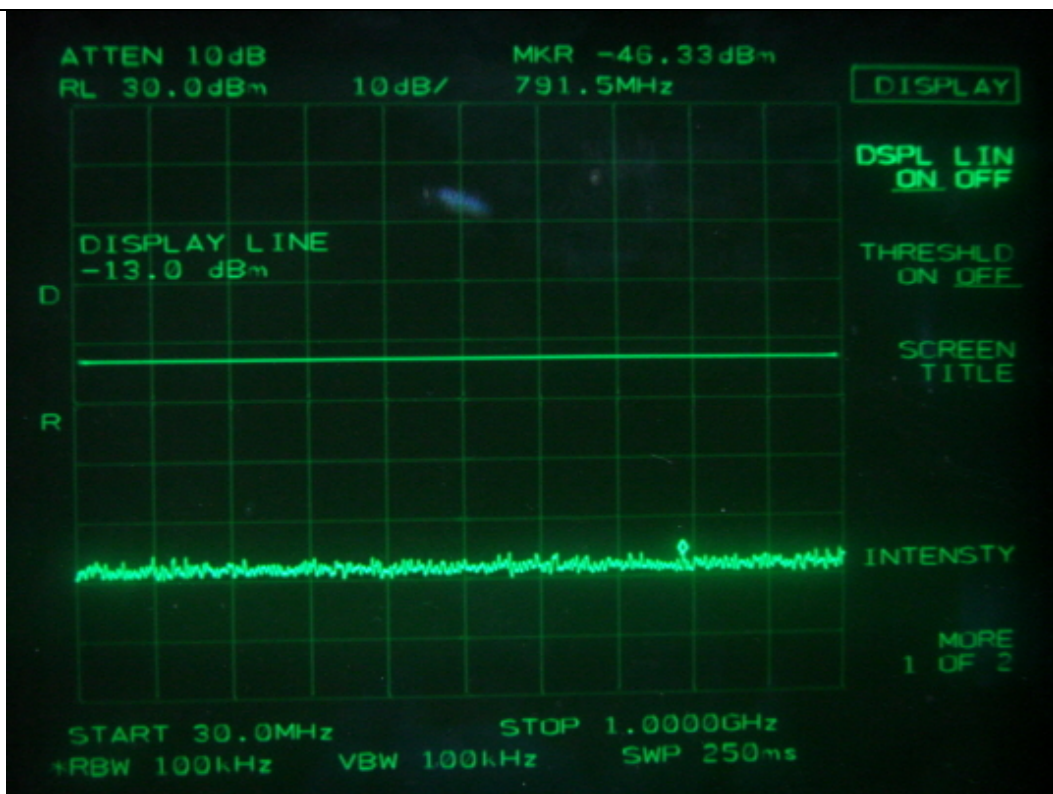
1xEVDO – High Channel



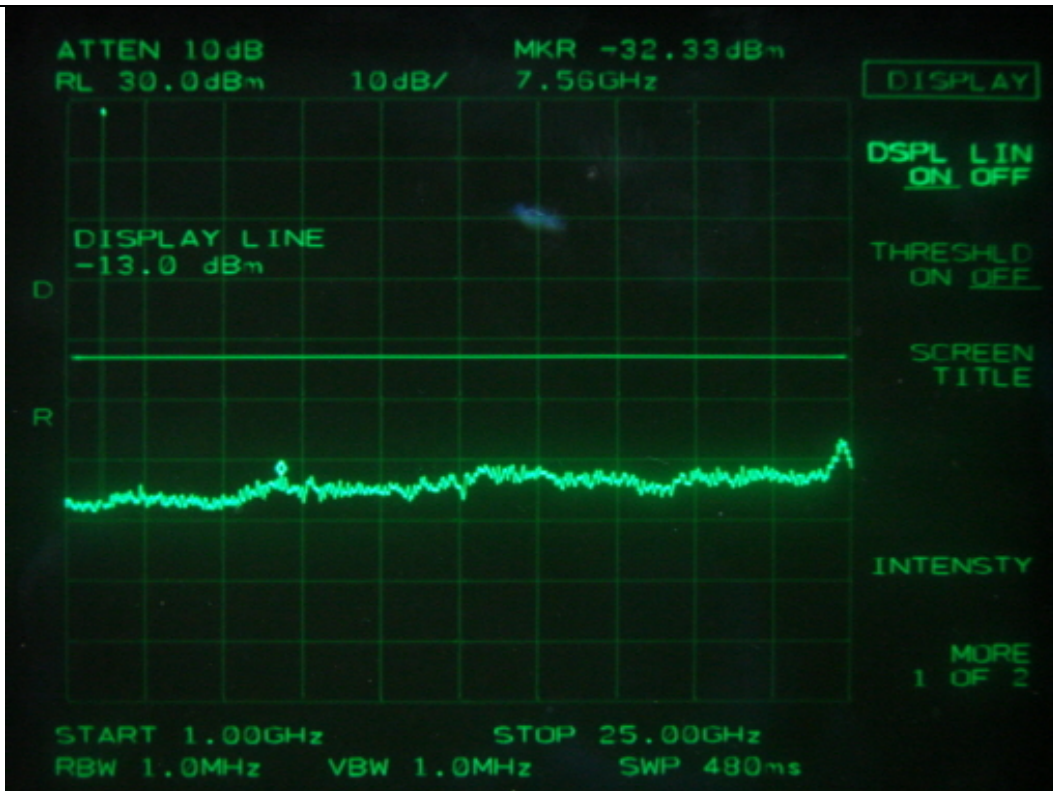
WCDMA – Low Channel



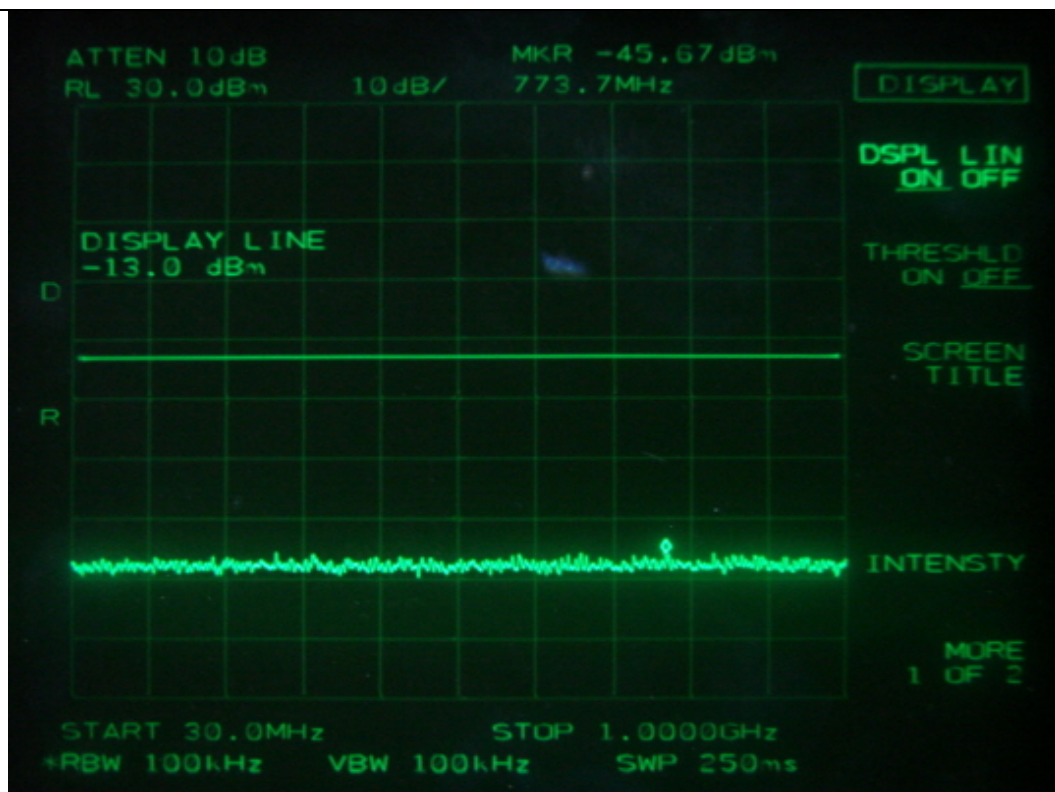
WCDMA – Low Channel



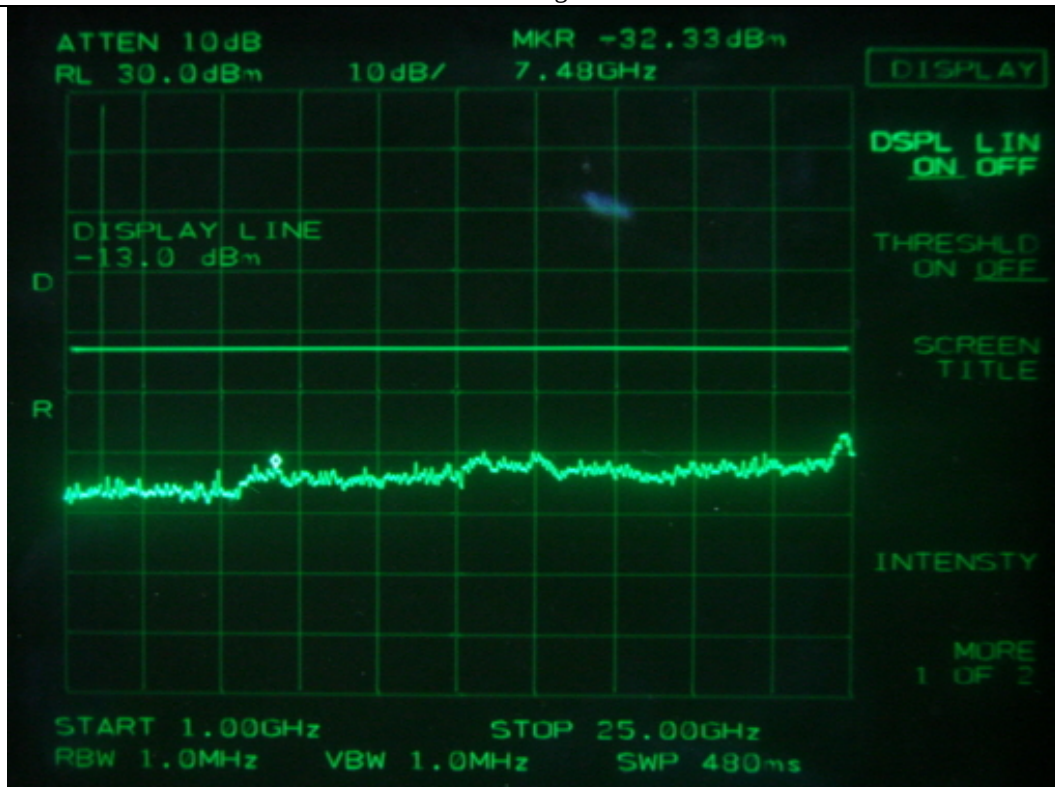
WCDMA – Middle Channel



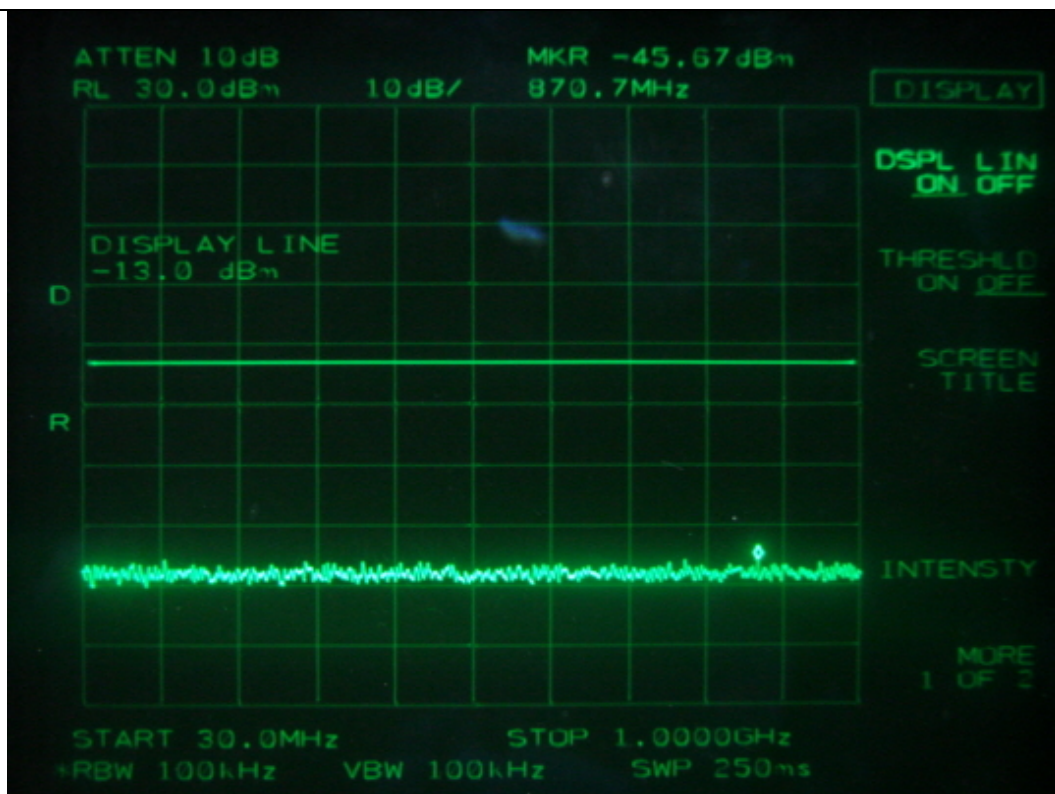
WCDMA – Middle Channel



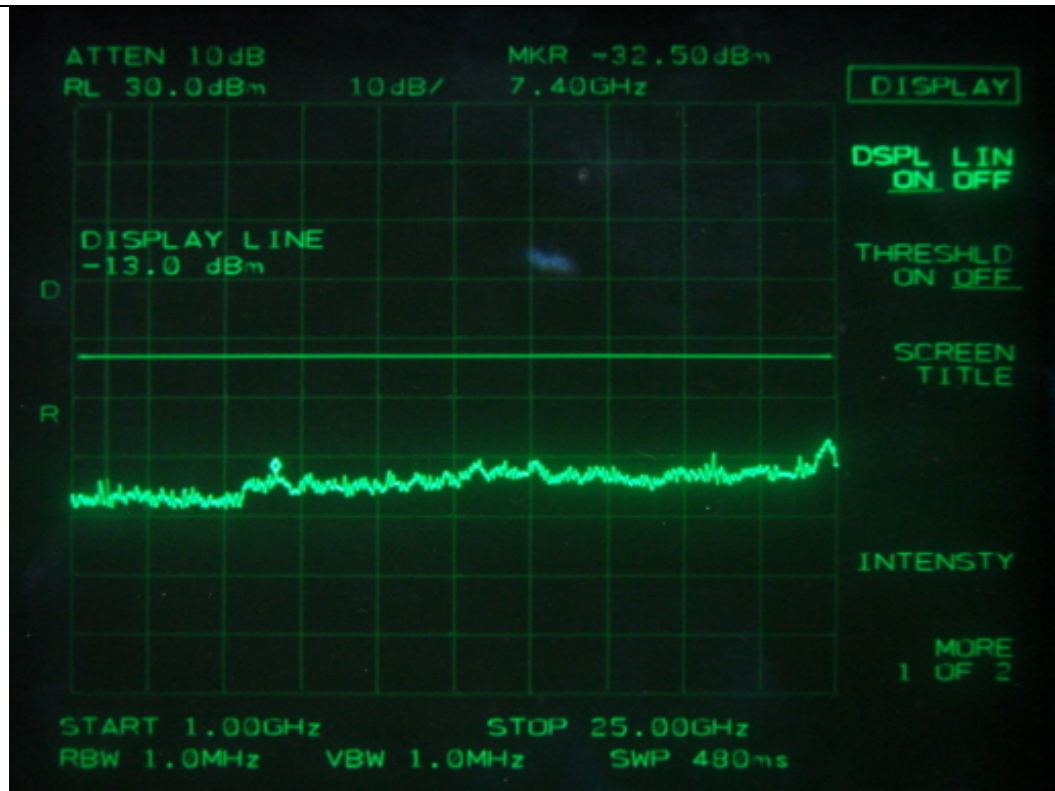
WCDMA – High Channel



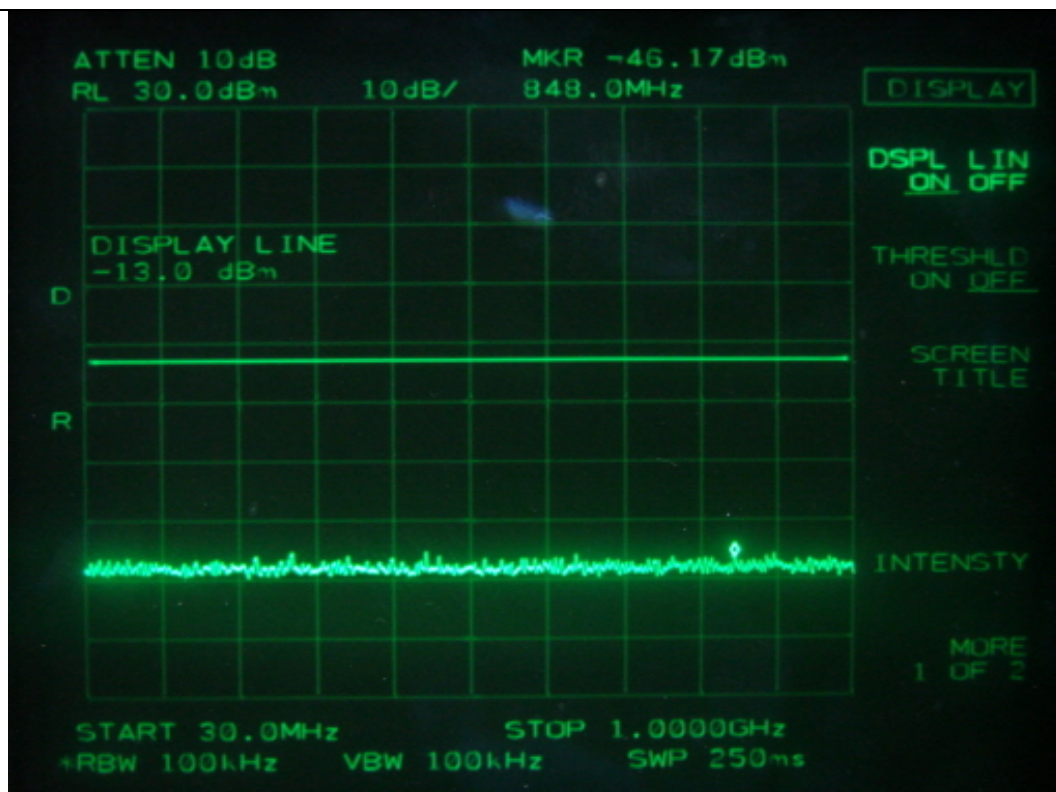
WCDMA – High Channel



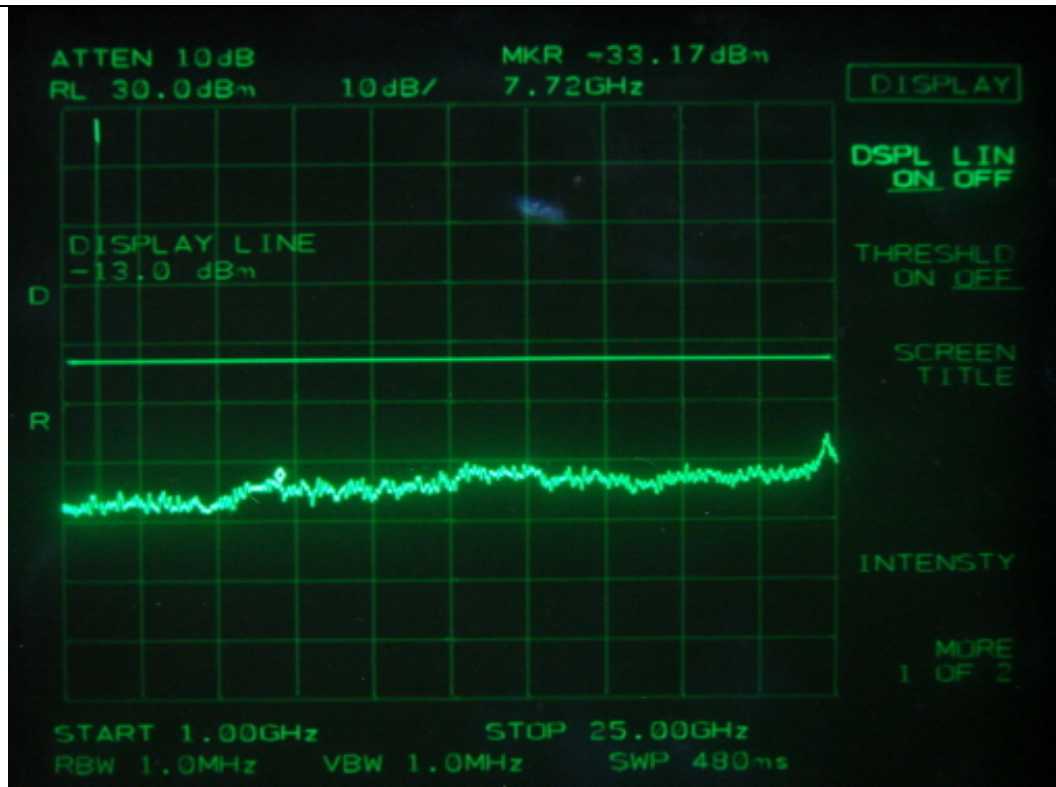
LTE - Low Channel



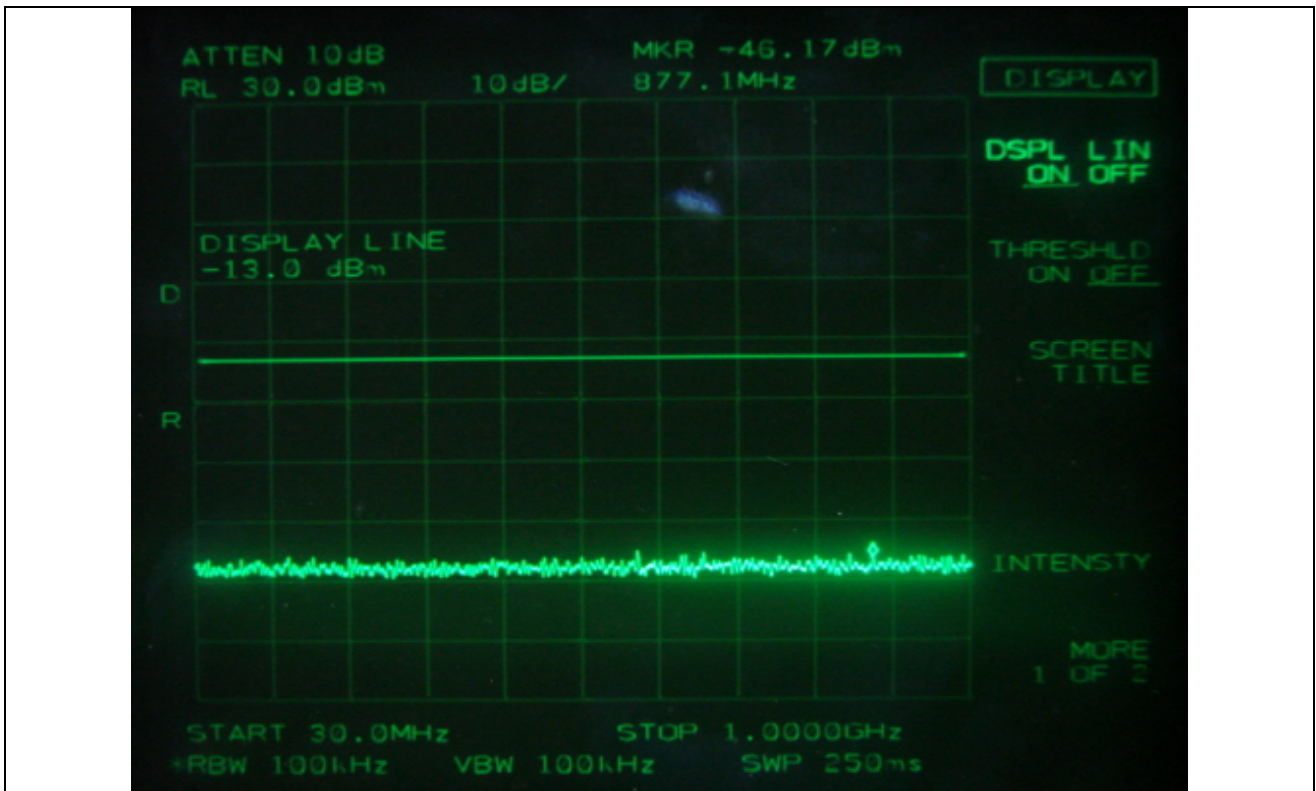
LTE - Low Channel



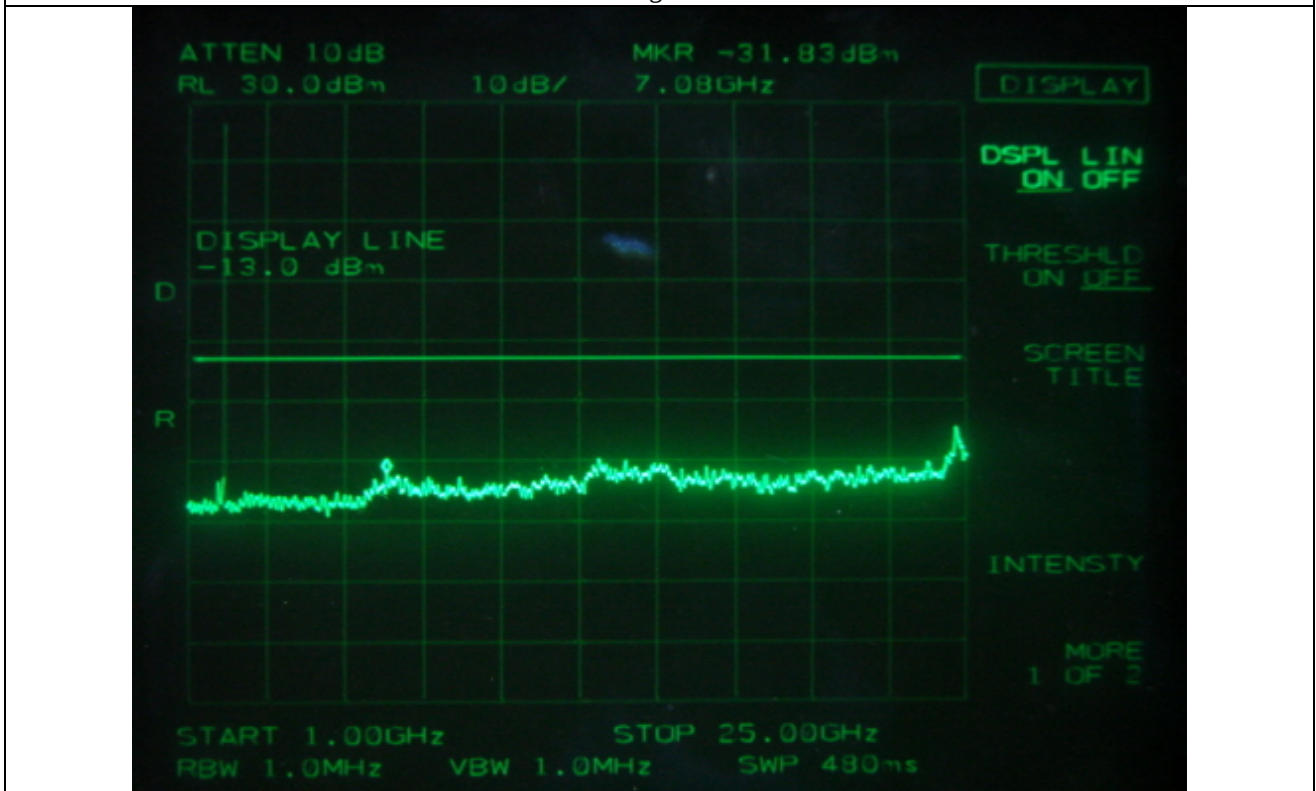
LTE – Middle Channel



LTE – Middle Channel



LTE – High Channel



LTE – High Channel

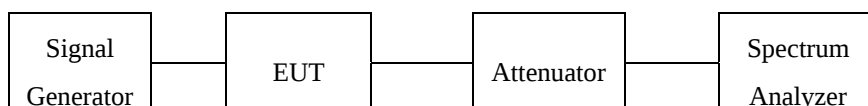
8. SPURIOUS EMISSION AT ANTENNA TERMINAL AT BLOCK EDGES ± 1 MHz

8.1 Operating environment

Temperature : 24.0 °C
Relative humidity : 52 %R.H.

8.2 Test set-up for conducted measurement

The RF signal from the signal generator(s) was injected the EUT by cable. The amplified RF signal at the output of the EUT was connected to the spectrum analyzer. The test was performed at three frequencies (low, middle, and high channels) at each band using all applicable modulation..



8.3 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal.
■ -	E4432B	HP	Signal Generator	US38440950	June 10, 2011 (1Y)
■ -	SMJ100A	R/S	Signal Generator	101038	Feb. 01, 2012 (1Y)
■ -	FSP	R/S	Spectrum Analyzer	100017	Mar. 12, 2012 (1Y)
□ -	8564E	HP	Spectrum Analyzer	3650A00756	Jun. 10, 2011 (1Y)
□ -	FSV30	R/S	Spectrum Analyzer	101372	Aug. 29, 2011 (1Y)
■ -	67-30-43	Aeroflex Weinschel	Power Attenuator	CA5760	Nov. 30, 2011 (1Y)

All test equipment used is calibrated on a regular basis.

8.4 Test data

8.4.1 Test Result for Part 24E

-. Test Date : May 31, 2012

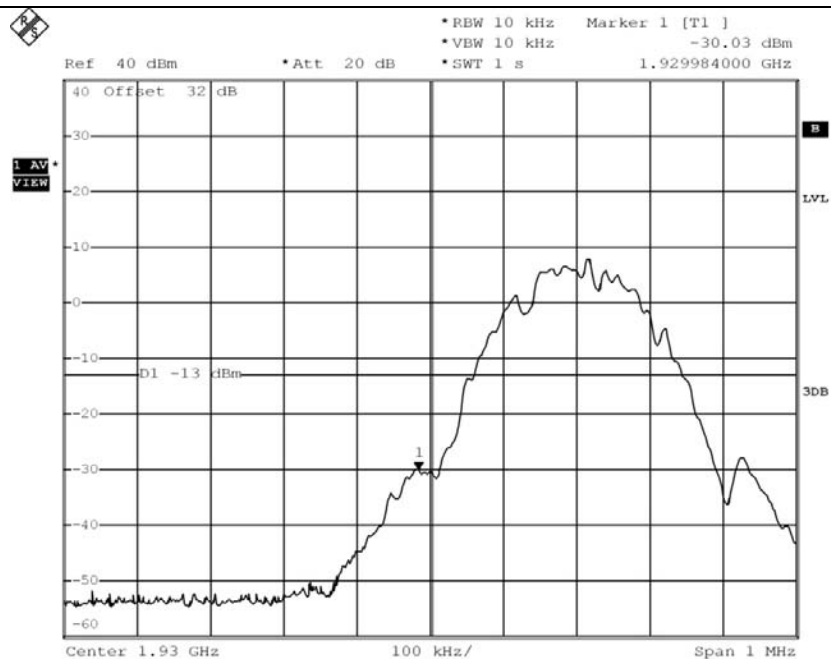
-. Result : PASSED

Modulation	Channel	Measured Frequency (MHz)	Max. Measured Value (dBm)	Limit (dBm)
GSM	Low	1 929.984	-30.03	-13.00
	High	1 995.026	-29.69	
EDGE	Low	1 929.968	-31.43	
	High	1 995.020	-28.65	
CDMA	Low	1 930.000	-42.89	-13.00
	High	1 995.000	-39.28	
1xEVDO	Low	1 930.000	-43.21	
	High	1 995.000	-39.06	
WCDMA	Low	1 930.000	-37.66	-13.00
	High	1 995.000	-36.00	
LTE	Low	1 930.000	-34.94	
	High	1 995.000	-32.60	

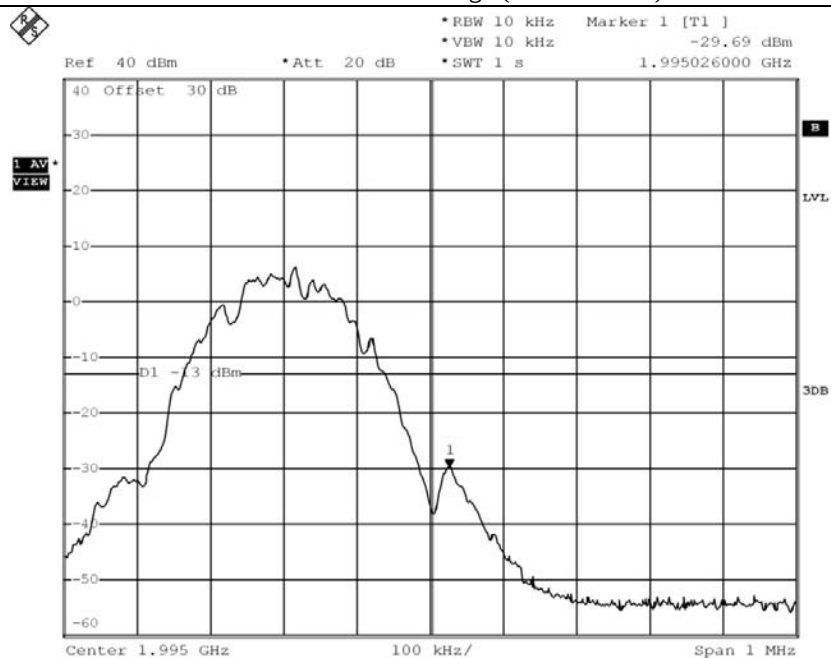
According to Part 24E, out of band emission shall be attenuated by $43 + 10 \log (P)$ dBc, equates to -13.0dBm.



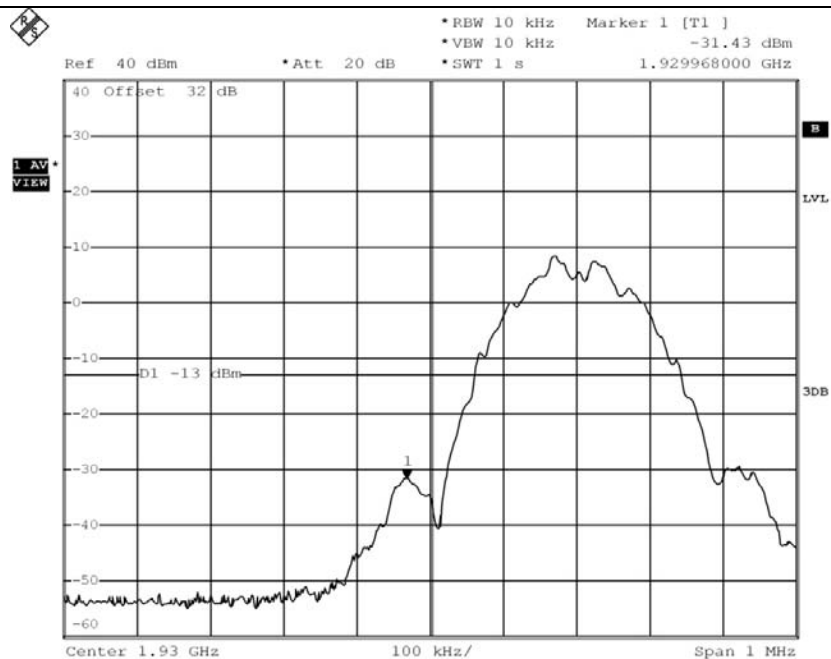
Tested by: Ki-Hong, Nam / Project Engineer



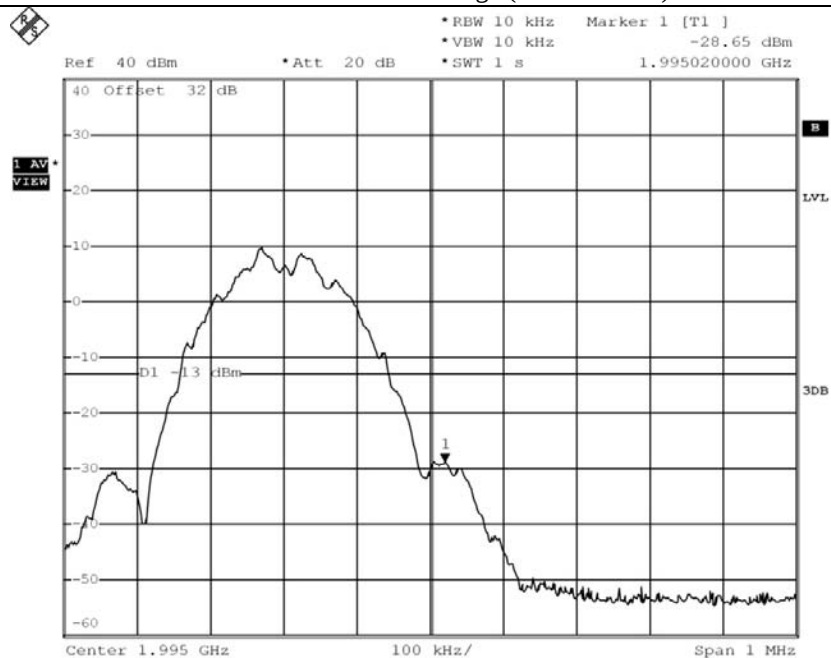
GSM – Band Edge (Low Channel)



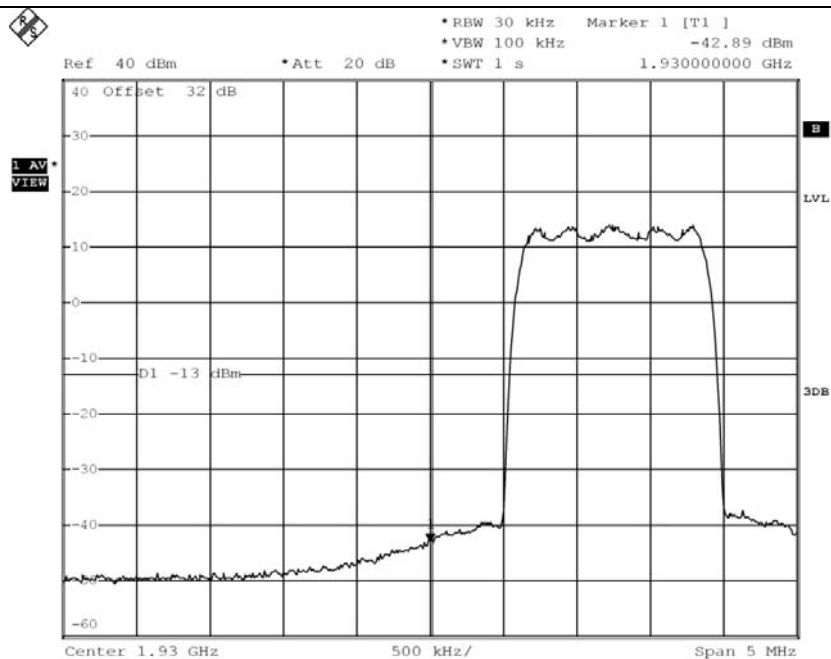
GSM – Band Edge (High Channel)



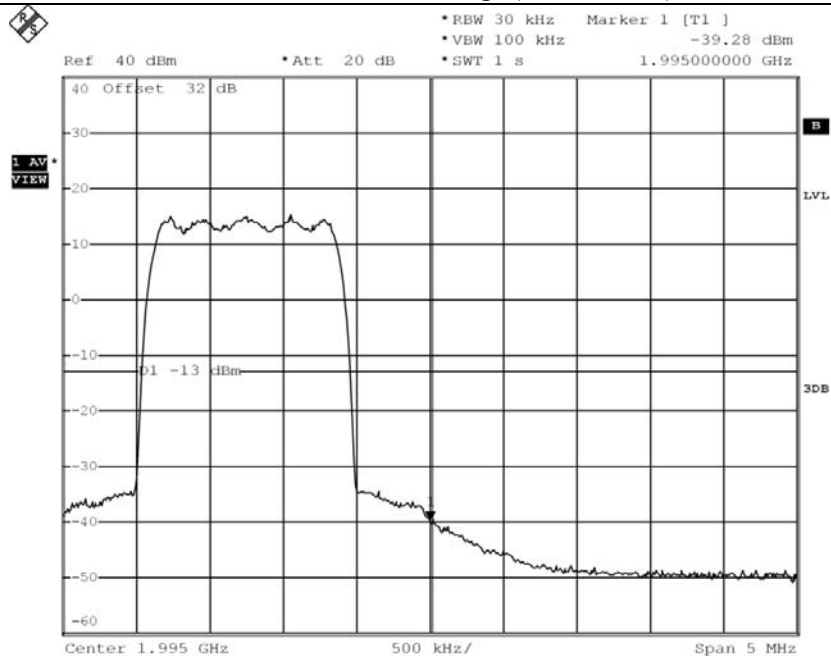
EDGE – Band Edge (Low Channel)



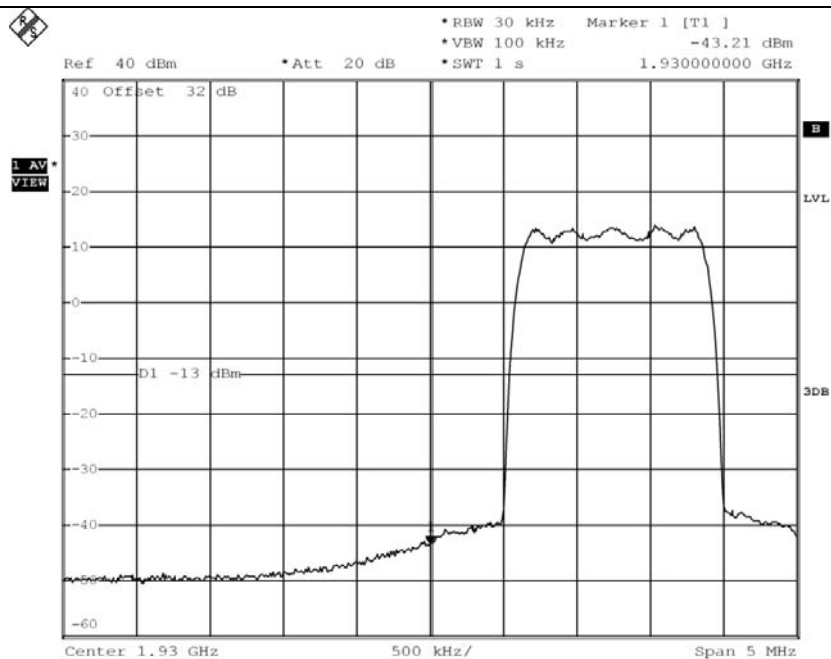
EDGE – Band Edge (High Channel)



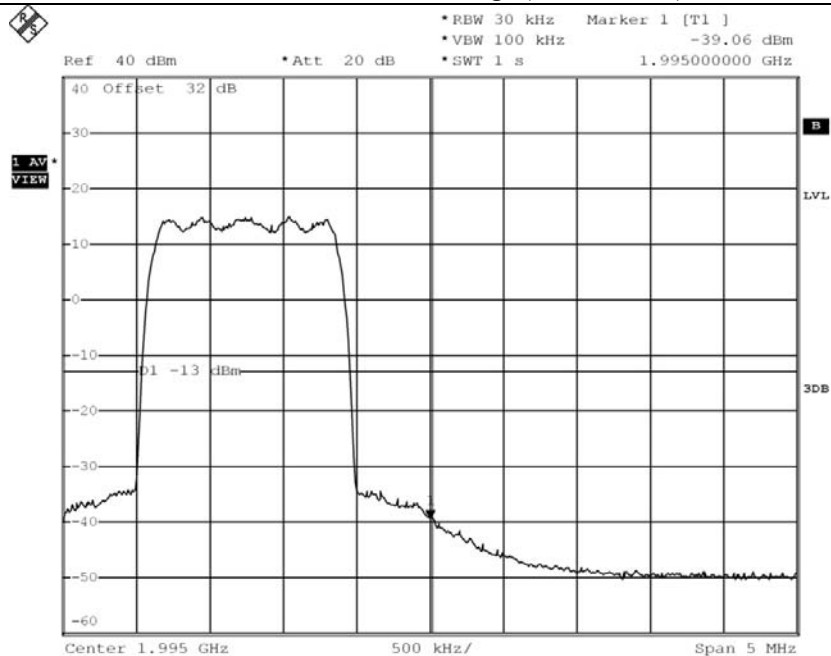
CDMA – Band Edge (Low Channel)



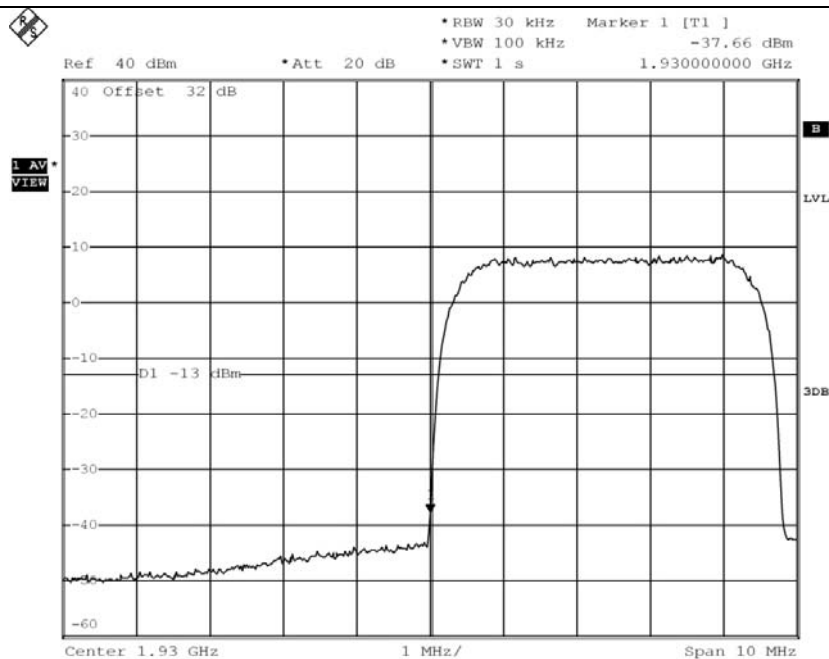
CDMA – Band Edge (High Channel)



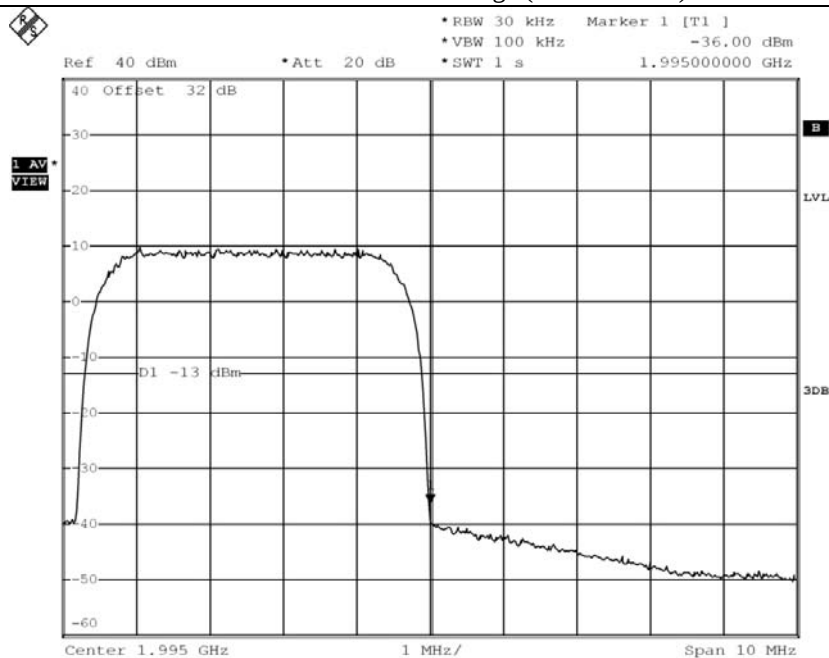
1xEVDO – Band Edge (Low Channel)



1xEVDO – Band Edge (High Channel)



WCDMA – Band Edge (Low Channel)



WCDMA – Band Edge (High Channel)