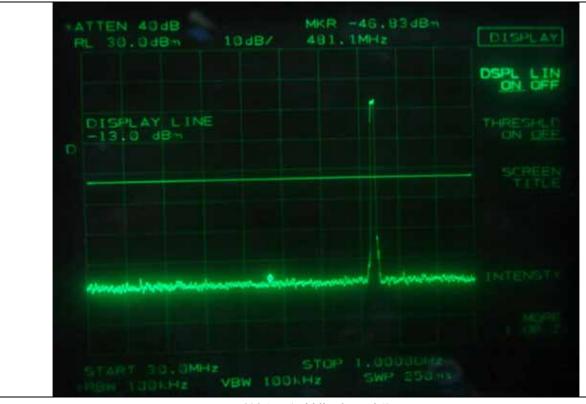
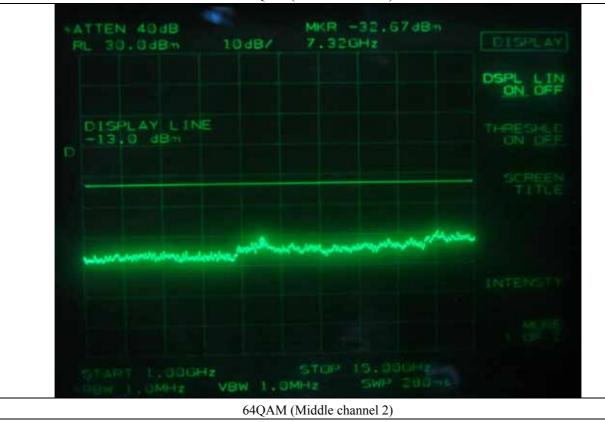
FCC ID. : W6U19P85C70L21A

Report No.: E115R-007



64QAM (Middle channel 1)



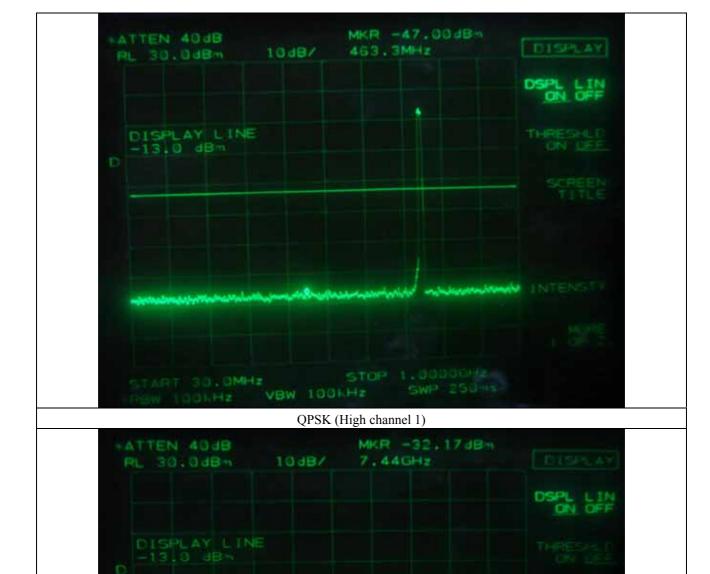
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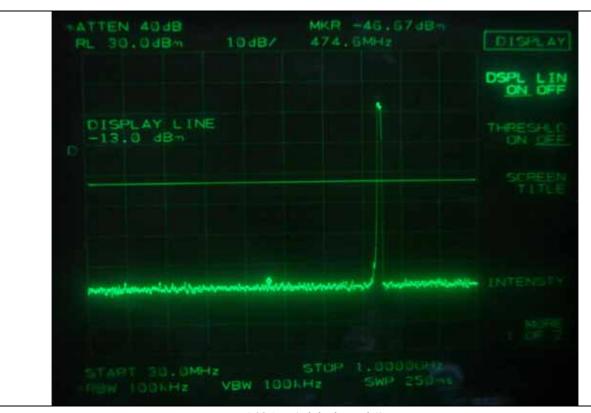


QPSK (High channel 2)

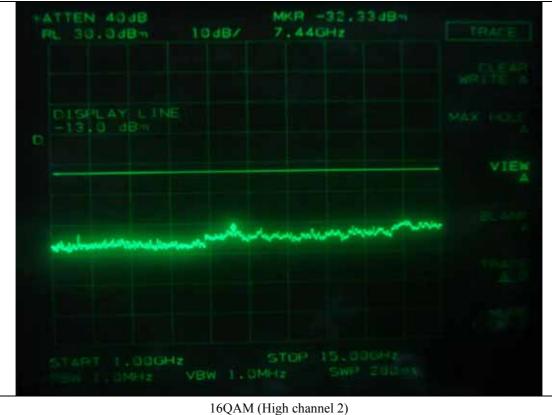


FCC ID. : W6U19P85C70L21A

Report No.: E115R-007



16QAM (High channel 1)



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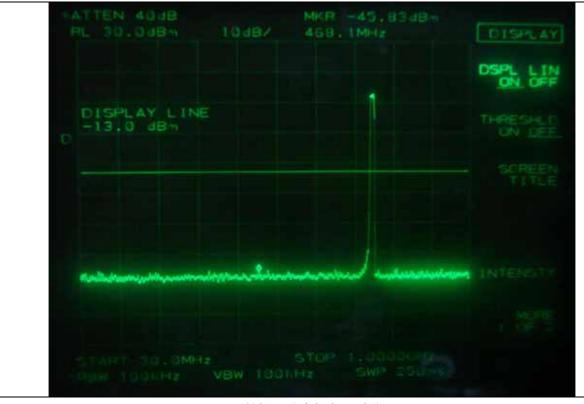
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64QAM (High channel 1)



64QAM (High channel 2)

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FCC ID. : W6U19P85C70L21A

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7.3.3.2 Test Result for §27.53 (c)(3)

-. Test Date : April 11 ~ 12, 2011

-. Temperature : 24 °C

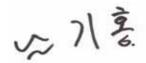
-. Relative humidity : 50 % R.H.

-. Frequency range : 763 MHz \sim 775 MHz and 793 MHz \sim 805 MHz

-. Result : PASSED BY -17.53 dB at QPSK Mode

Channel	Modulation	Measured Frequency (MHz)	Measured Value (dBm)	Cable Loss (dB)	Total (dBm)	Limit (dBm)	Margin (dB)
	QPSK	763.000	-64.20	0.67	-63.53		-17.53
Low	16QAM	763.000	-64.25	0.67	-63.58		-17.58
	64QAM	763.000	-64.28	0.67	-63.61		-17.61
Middle	QPSK	763.000	-64.29	0.67	-63.62		-17.62
	16QAM	763.000	-64.35	0.67	-63.68	-46.00	-17.68
	64QAM	763.000	-64.41	0.67	-63.74		-17.74
High	QPSK	763.000	-64.30	0.67	-63.63		-17.63
	16QAM	763.000	-64.36	0.67	-63.69		-17.69
	64QAM	763.000	-64.34	0.67	-63.67		-17.67

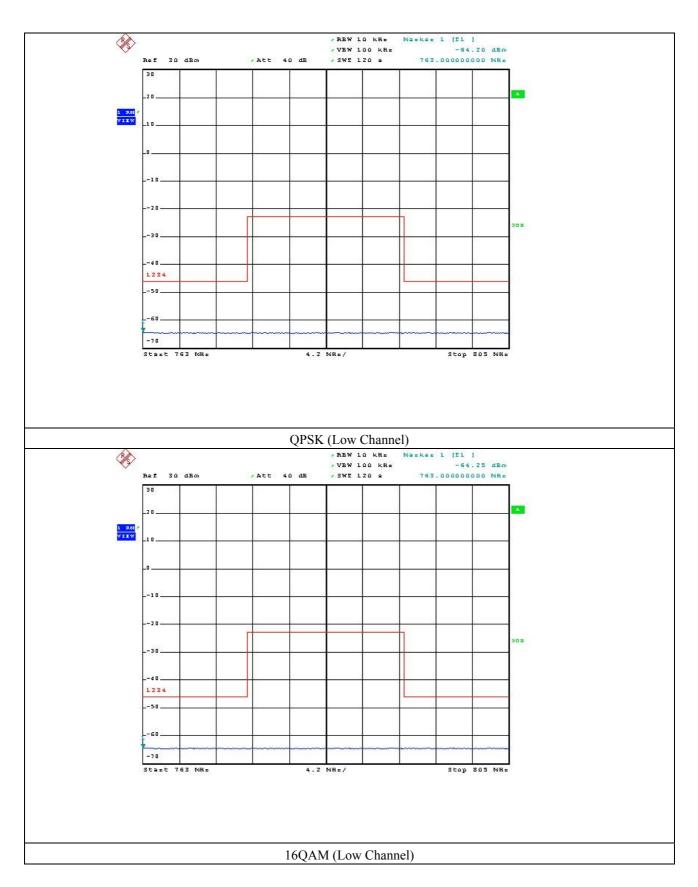
From CFR 27.53(c)(3)&(c)(6): On all frequency between the 763 MHz \sim 775 MHz and 793 MHz \sim 805 MHz, by a factor not less than 76 + 10log(P) dB in a 6.25 kHz band segment, for base and fixed stations, resulting in a limit of -46 dBm (per 6.25 kHz measurement bandwidth)



Tested by: Ki-Hong, Nam / Senior Engineer



FCC ID. : W6U19P85C70L21A Report No.: E115R-007



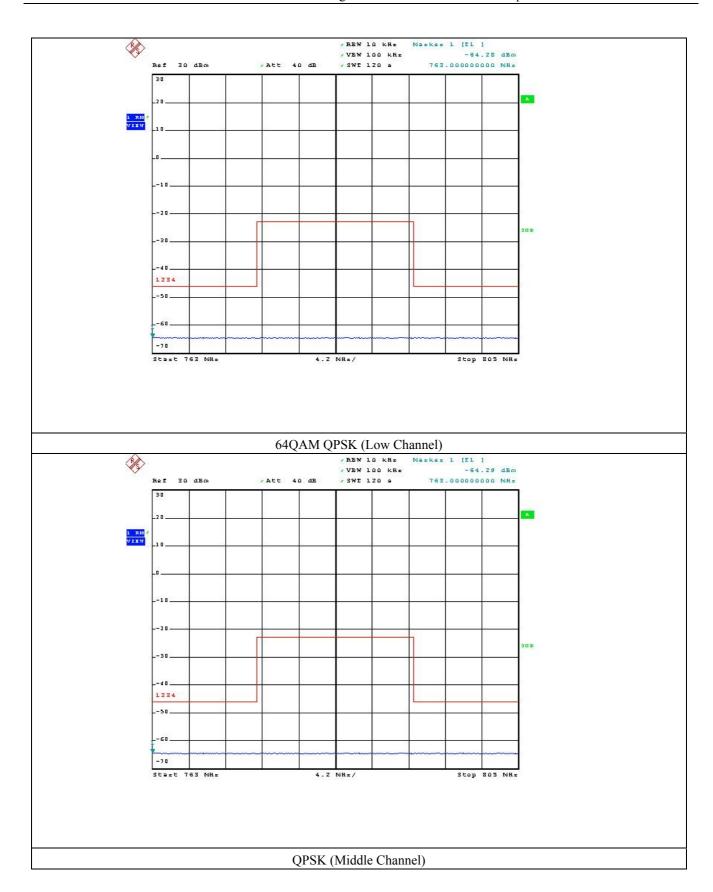
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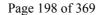


FCC ID. : W6U19P85C70L21A Report No.: E115R-007

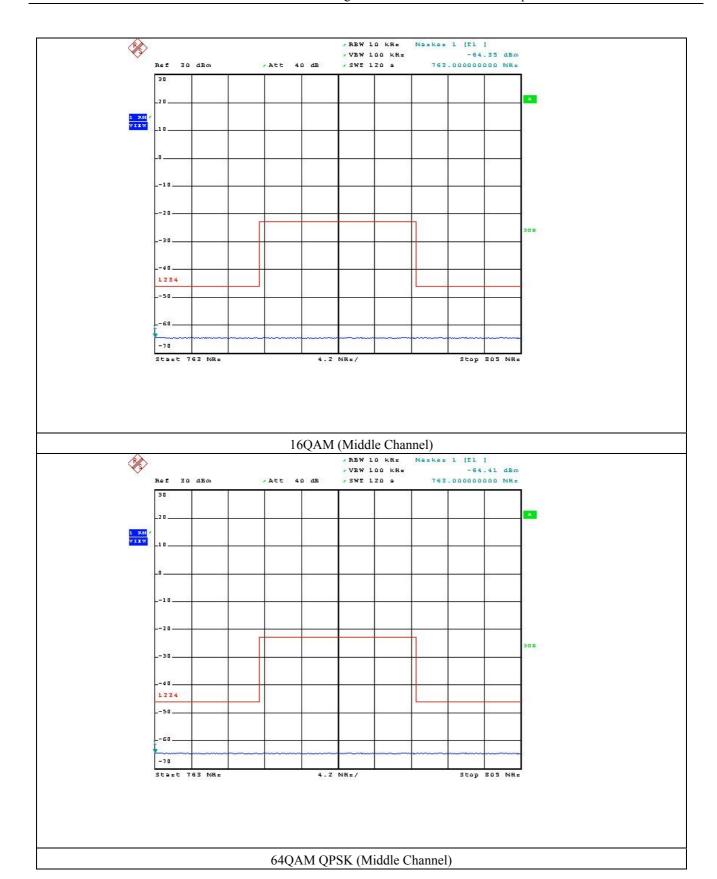


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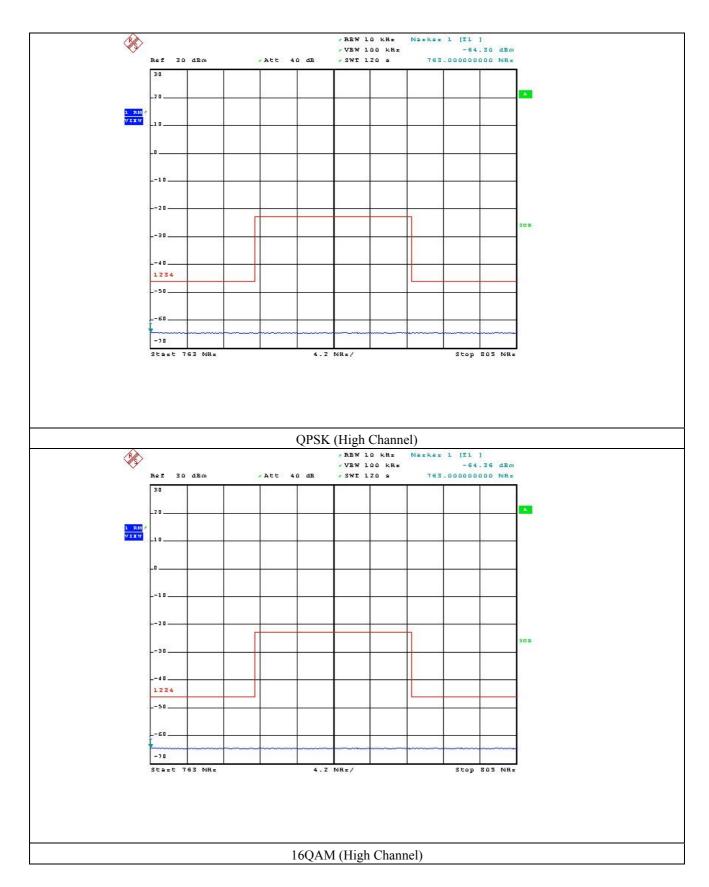


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FCC ID. : W6U19P85C70L21A f 369 Report No. : E115R-007



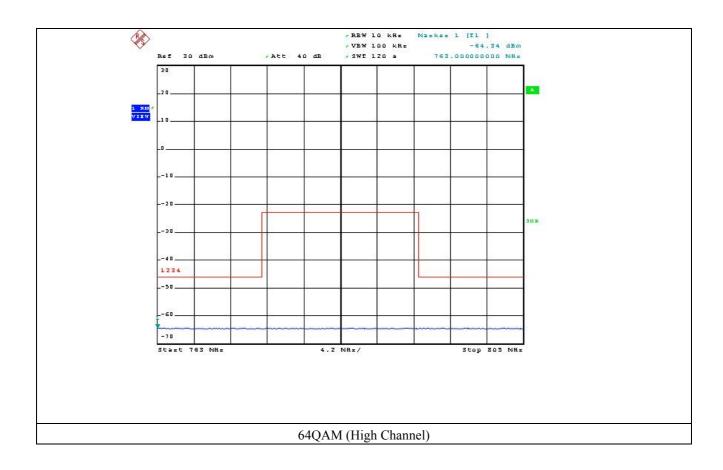
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FCC ID. : W6U19P85C70L21A Report No. : E115R-007





FCC ID. : W6U19P85C70L21A

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7.3.3.3 Test Result for §27.53 (f)

-. Test Date : April 11 ~ 12, 2011

-. Temperature : 24 °C

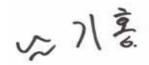
-. Relative humidity : 50 % R.H.

-. Frequency range : $1559 \text{ MHz} \sim 1610 \text{ MHz}$

-. Result : PASSED BY -12.74 dB at 16QAM Mode

Channel	Modulation	Measured Frequency (MHz)	Measured Value (dBm)	Cable Loss (dB)	Total (dBm)	Limit (dBm)	Margin (dB)
	QPSK	1603.778	-53.93	1.17	-52.76		-12.76
Low	16QAM	1603.880	-53.93	1.17	-52.76		-12.76
	64QAM	1602.146	-53.94	1.17	-52.77		-12.77
Middle	QPSK	1600.106	-53.93	1.17	-52.76		-12.76
	16QAM	1607.654	-53.93	1.17	-52.76	-40.00	-12.76
	64QAM	1600.820	-53.93	1.17	-52.76		-12.76
High	QPSK	1604.084	-53.95	1.17	-52.78		-12.78
	16QAM	1608.470	-53.91	1.17	-52.74		-12.74
	64QAM	1604.186	-53.96	1.17	-52.79		-12.79

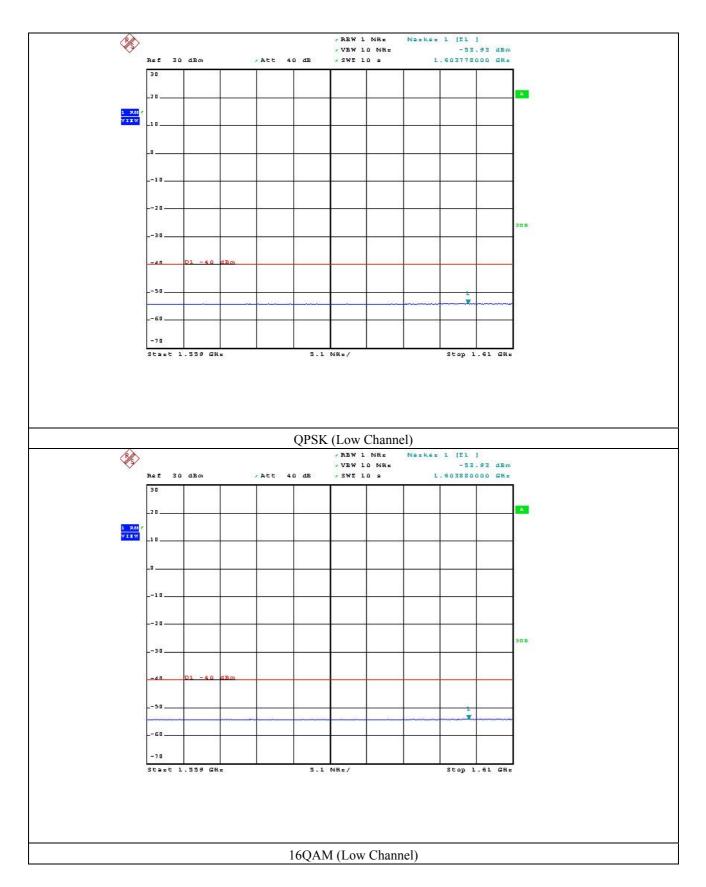
From CFR 27.53(f): For operations in the 746 MHz \sim 763 MHz, 775 MHz \sim 793 MHz, and 805 MHz \sim 806 MHz bands, emissions in the band 1 559 MHz \sim 1 610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.



Tested by: Ki-Hong, Nam / Senior Engineer



FCC ID. : W6U19P85C70L21A Report No. : E115R-007

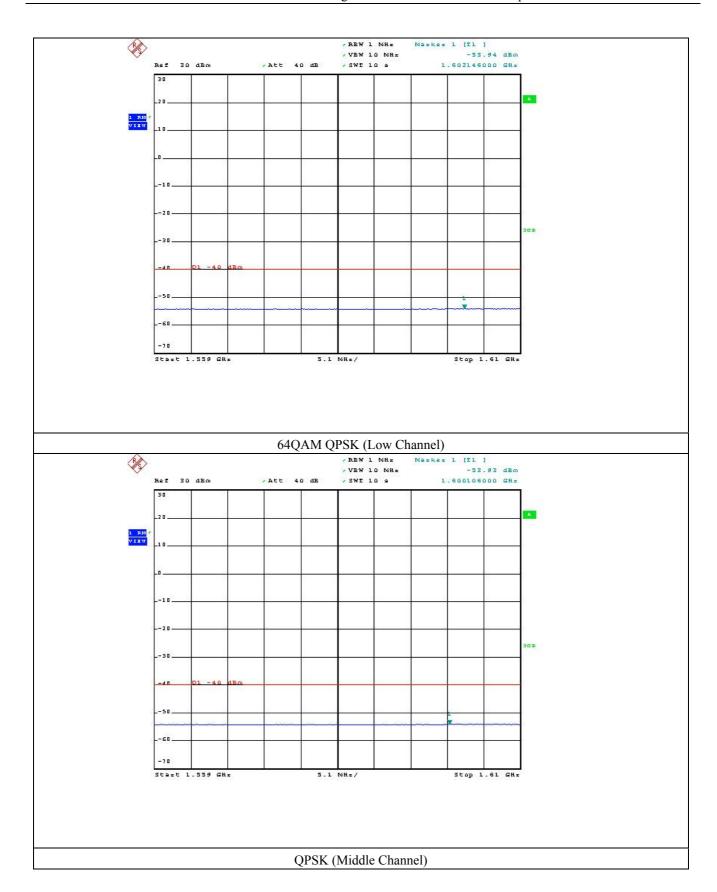


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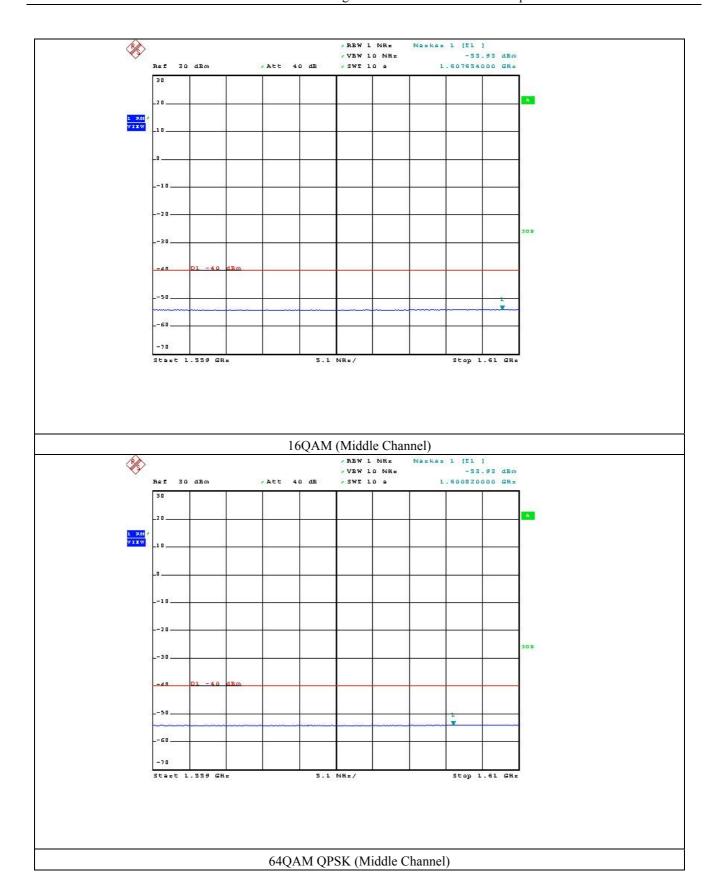
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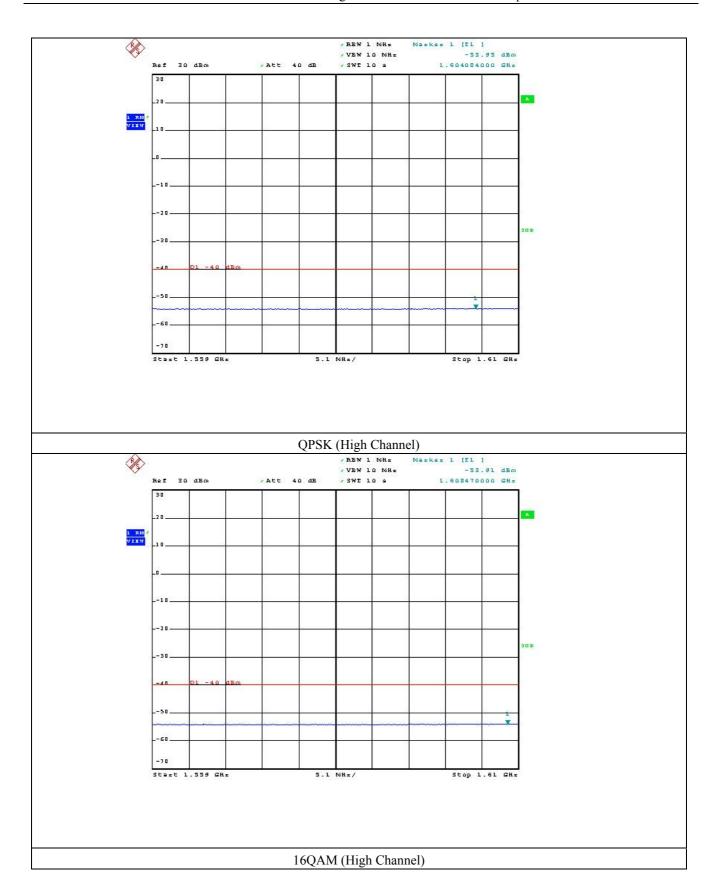


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FCC ID. : W6U19P85C70L21A Report No.: E115R-007

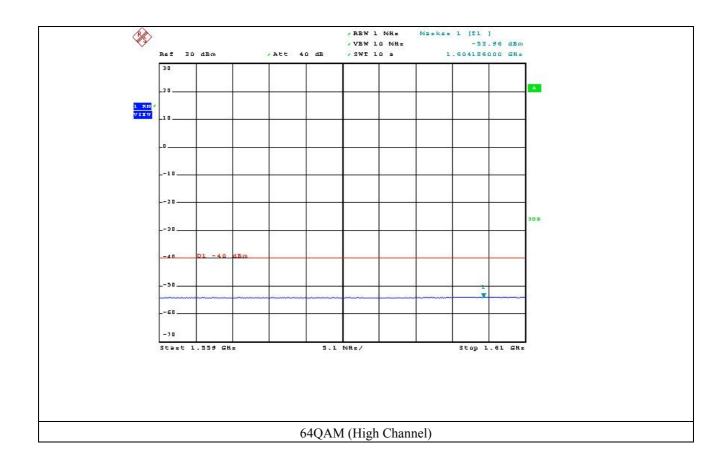


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7.3.4 Test Result for Part 27 C (AWS-1)

-. Test Date : April 13 ~ 14, 2011

: 25 °C -. Temperature -. Relative humidity : 50 % R.H.

-. Frequency range : 30 MHz ~ 20 GHz

: PASSED BY -15.34 dB at GSM and EDGE Modes -. Result

Modulation	Harmonic Frequency		Measured Value	Cable Loss	Total	Limit	Margin
	(M		(dBm)	(dB)	(dBm)	(dBm)	(dB)
TDMA	Low	154.50	-38.33	0.33	-38.00	-13.00	-25.00
		7 500.00	-32.33	3.33	-29.00		-16.00
	Middle	177.10	-37.67	0.33	-37.34		-24.34
		7 550.00	-32.50	3.33	-29.17		-16.17
	TT: 1	199.80	-39.33	0.33	-39.00		-26.00
	High	7 250.00	-32.83	3.33	-29.50		-16.50
	T	154.50	-38.17	0.33	-37.84	-13.00	-24.84
	Low	7 420.00	-32.00	3.33	-28.67		-15.67
GSM	Middle	177.10	-37.67	0.33	-37.34		-24.34
OSM		7 590.00	-32.33	3.33	-29.00		-16.00
	High	199.80	-39.50	0.33	-39.17		-26.17
		7 290.00	-31.67	3.33	-28.34		-15.34
	Low	154.50	-38.67	0.33	-38.34	-13.00	-25.34
		7 550.00	-31.67	3.33	-28.34		-15.34
EDGE	Middle	177.10	-38.50	0.33	-38.17		-25.17
EDGE		7 420.00	-33.50	3.33	-30.17		-17.17
	High	199.80	-39.67	0.33	-39.34		-26.34
		7 590.00	-32.00	3.33	-28.67		-15.67
	_	156.10	-39.67	0.33	-39.34		-26.34
CDMA	Low	7 330.00	-33.17	3.33	-29.84		-16.84
	Middle	177.10	-39.00	0.33	-38.67	-13.00	-25.67
CDMA		7 330.00	-32.83	3.33	-29.50		-16.50
	High	198.10	-39.50	0.33	-39.17		-26.17
		7 630.00	-32.00	3.33	-28.67		-15.67

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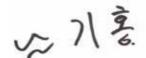


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Modulation	Harmonic Frequency (MHz)		Measured Value (dBm)	Cable Loss (dB)	Total (dBm)	Limit (dBm)	Margin (dB)
	Low	156.10	-38.67	0.33	-38.34	-13.00	-25.34
		7 500.00	-32.83	3.33	-29.50		-16.50
1 _w EVDO	Middle	177.10	-39.00	0.33	-38.67		-25.67
1xEVDO		7 290.00	-32.17	3.33	-28.84		-15.84
	High	198.10	-39.33	0.33	-39.00		-26.00
		7 460.00	-32.83	3.33	-29.50		-16.50
	Low	156.10	-43.50	0.33	-43.17	-13.00	-30.17
		7 250.00	-31.83	3.33	-28.50		-15.50
W.CD. (A	Middle	182.00	-43.00	0.33	-42.67		-29.67
WCDMA		7 590.00	-32.50	3.33	-29.17		-16.17
	High	196.50	-43.17	0.33	-42.84		-29.84
		7 550.00	-31.83	3.33	-28.50		-15.50

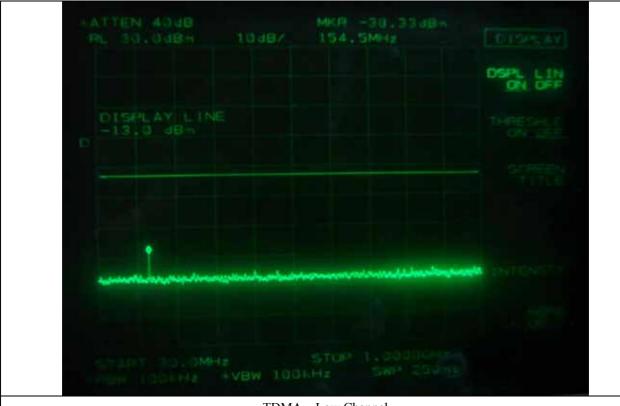
According to Part 27, out of band emission shall be attenuated by 43 + 10 log (P) dBc, equates to -13.0 dBm.



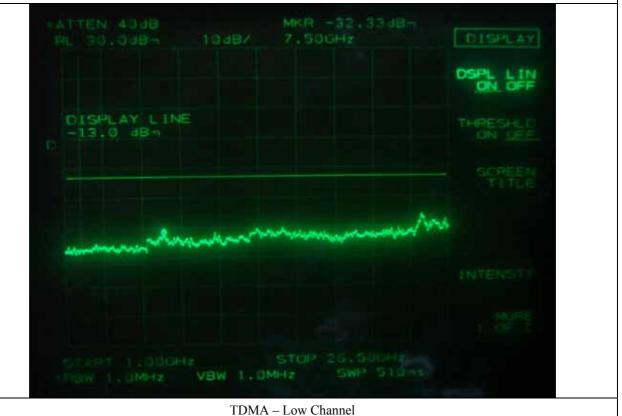
Tested by: Ki-Hong, Nam / Project Engineer



FCC ID. : W6U19P85C70L21A Report No.: E115R-007



TDMA – Low Channel

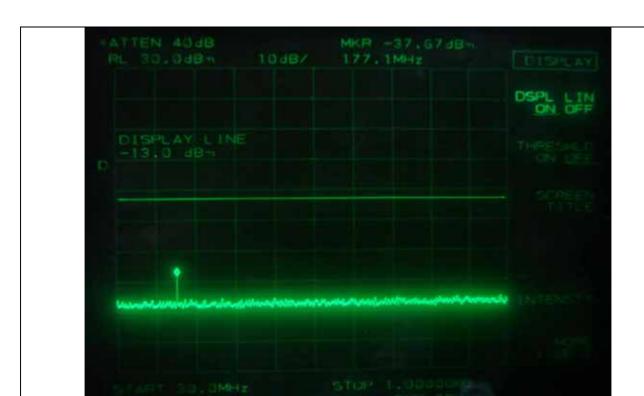


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TDMA – Middle Channel



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TDMA – High Channel



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GSM – Low Channel



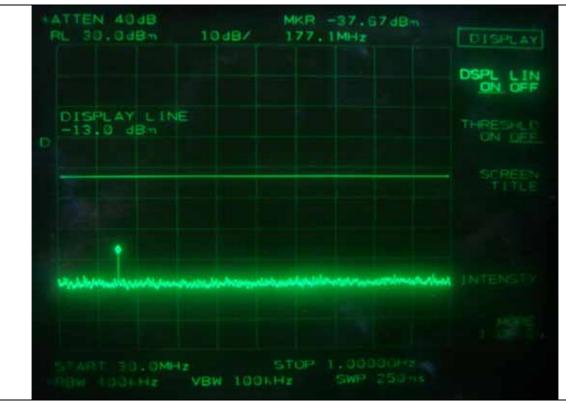
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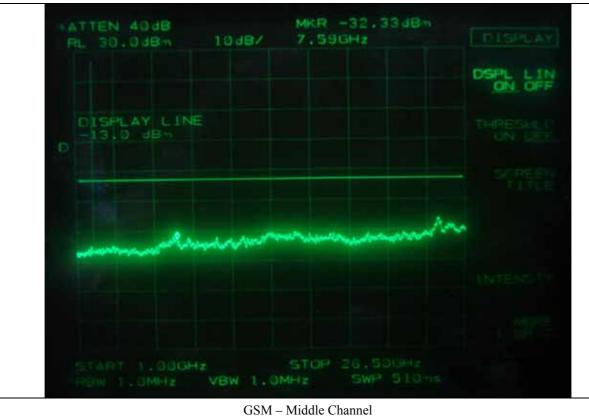


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GSM – Middle Channel



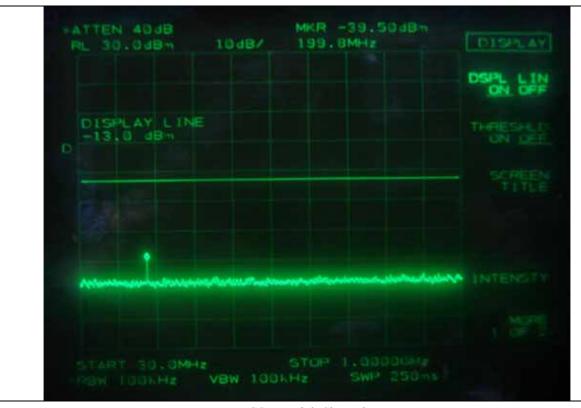
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GSM - High Channel



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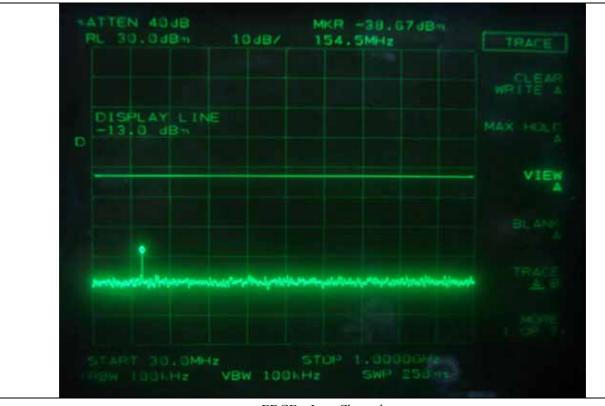
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EDGE – Low Channel



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EDGE - Middle Channel



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EDGE - High Channel



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CDMA – Low Channel



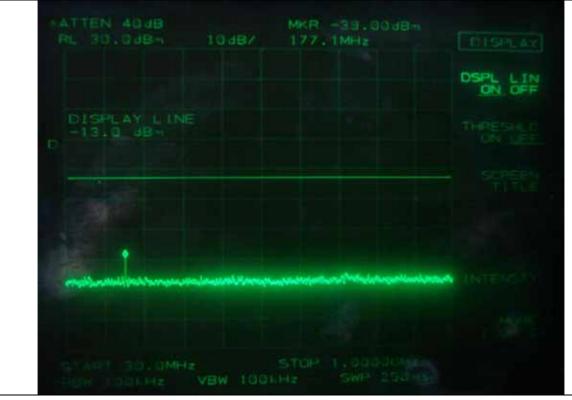
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CDMA – Middle Channel

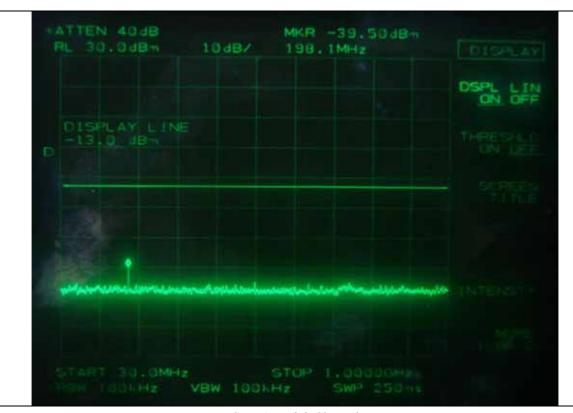


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CDMA - High Channel

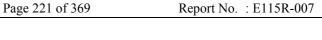


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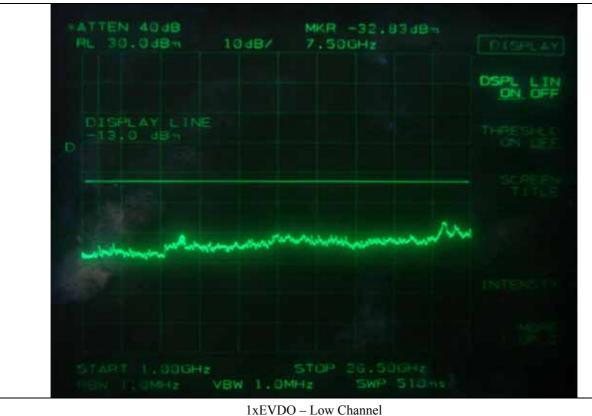


FCC ID. : W6U19P85C70L21A





1xEVDO – Low Channel

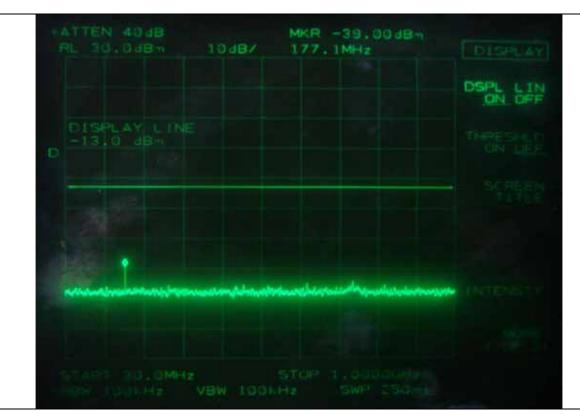


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1xEVDO – Middle Channel

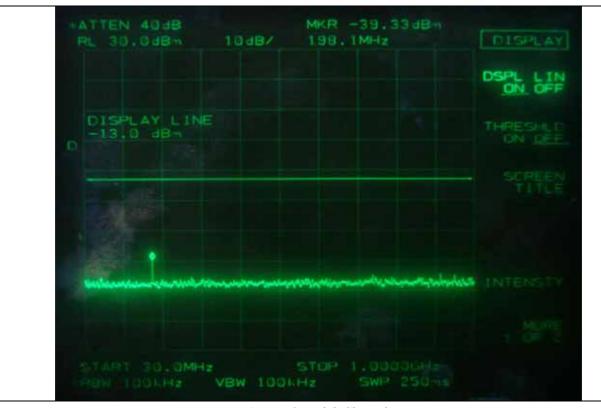


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1xEVDO – High Channel

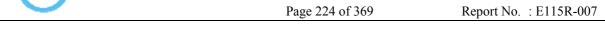


1xEVDO – High Channel

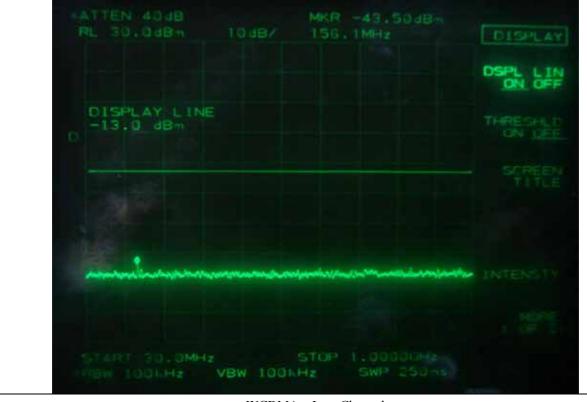
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WCDMA – Low Channel



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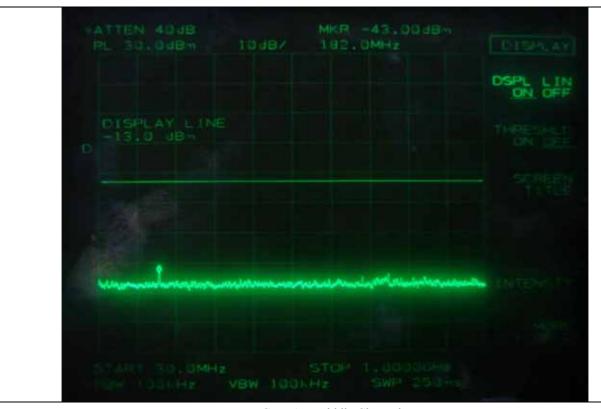
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 $\pmb{EMC\ Testing\ Dept}\ : 307\text{-}51\ Daessangnyeong-ri, Chowol-eup, Gwangju-si, Gyeonggi-do\ 464\text{-}862\ Korea.}\ (TEL: +82\text{-}31\text{-}765\text{-}8289, FAX: +82\text{-}31\text{-}766\text{-}2904)$



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WCDMA – Middle Channel



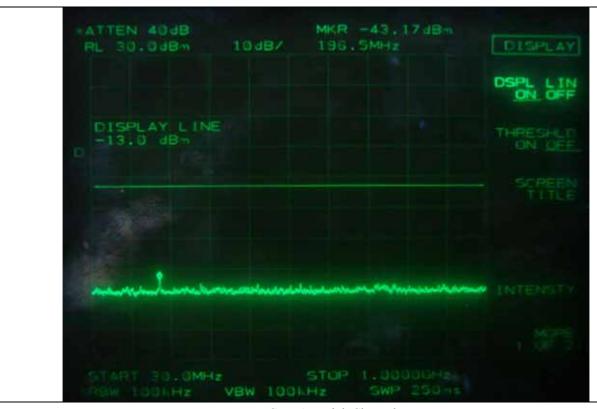
WCDMA – Middle Channel

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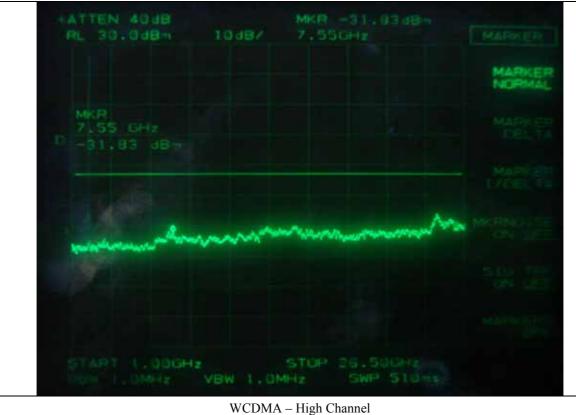
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WCDMA – High Channel



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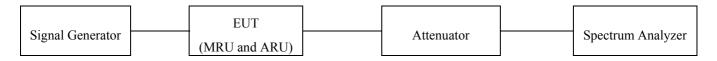
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8. BAND EDGE MEASUREMENT

8.1 Test set-up for conducted measurement

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

The resolution bandwidth and video bandwidth of the spectrum analyzer was set according to the regulation and sufficient scans were taken to show any out of band emissions.



8.2 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)	
■-	8564E	HP	Spectrum Analyzer	3650A00756	Jun. 10, 2010 (1Y)	
■-	E4432B	HP	Signal Generator	US38440950	Jun. 10, 2010 (1Y)	
■ -	SMJ100A	R/S	Signal Generator	101038	Feb. 01, 2011 (1Y)	
■ -	AMU200A	R/S	Baseband signal generator and	100360	Aug. 28, 2010 (1Y)	
			fading simulator	100300		
■-	FSP	R/S	Spectrum Analyzer	100017	Mar. 15, 2011 (1Y)	

All test equipment used is calibrated on a regular basis.

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8.3 Test data

8.3.1 Test Result for Part 22 H (850C)

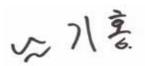
: April 15 ~ 18, 2011 -. Test Date

-. Temperature : 24 °C -. Relative humidity : 48 % R.H.

-. Result : PASSED BY -15.27 dB at WCDMA Mode

Modulation	Channel	Measured Frequency (MHz)	Max. Measured Value (dBm)	Limit (dBm)	Margin (dB)
TDMA	Low	869.000	-31.50	-13.00	-18.50
IDWA	High	894.000	-30.56		-17.56
CCM	Low	869.000	-31.51		-18.51
GSM	High	894.030	-31.35		-18.35
EDGE	Low	898.970	-33.97		-20.97
EDGE	High	894.000	-33.00		-20.00
CDM	Low	869.000	-43.46		-30.46
CDMA	High	894.000	-44.55		-31.55
1 EVD0	Low	869.000	-44.16		-31.16
1xEVDO	High	894.000	-45.11		-32.11
WCDM	Low	869.000	-28.59		-15.59
WCDMA	High	894.000	-28.27		-15.27

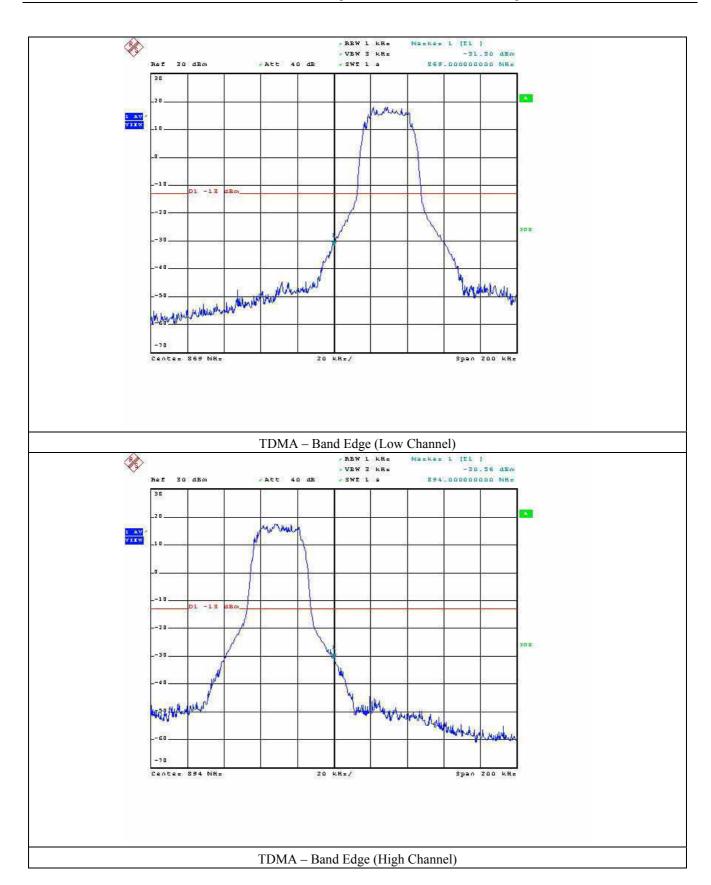
According to Part 22H, out of band emission shall be attenuated by 43 + 10 log (P) dBc, equates to -13.0dBm.



Tested by: Ki-Hong, Nam / Senior Engineer

FCC ID. : W6U19P85C70L21A

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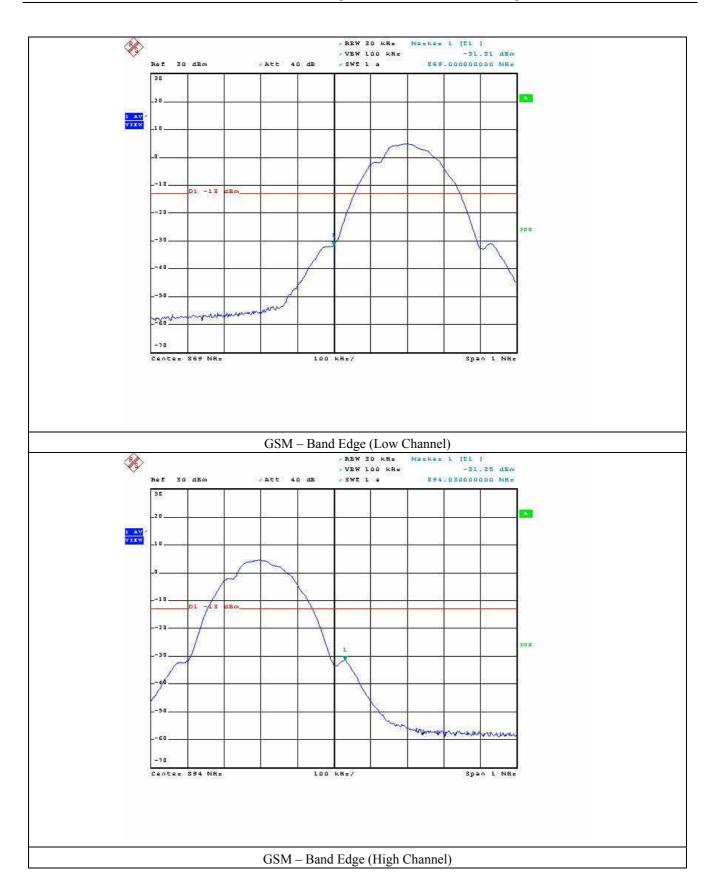
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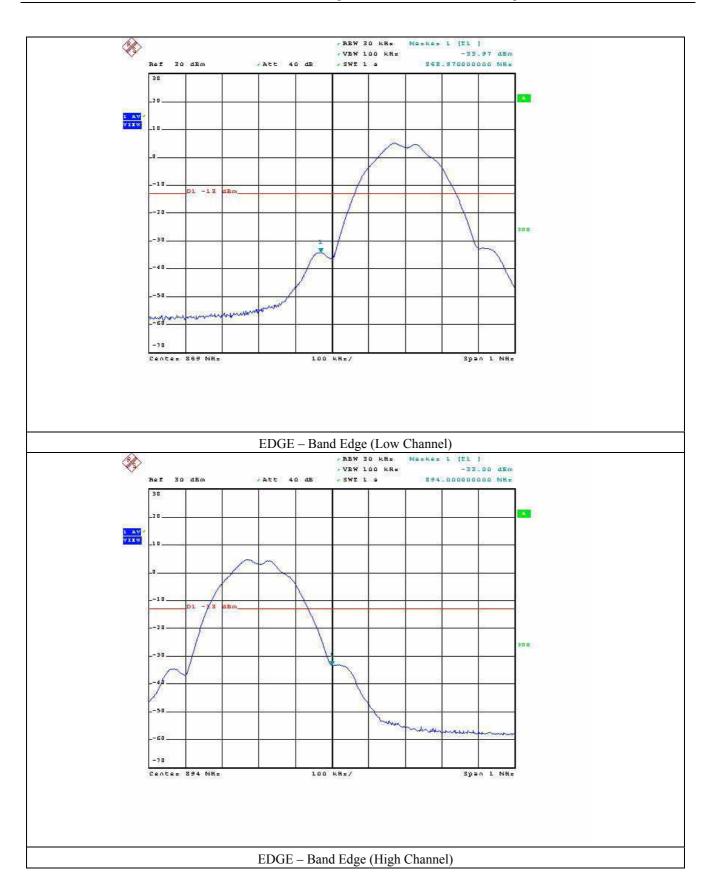
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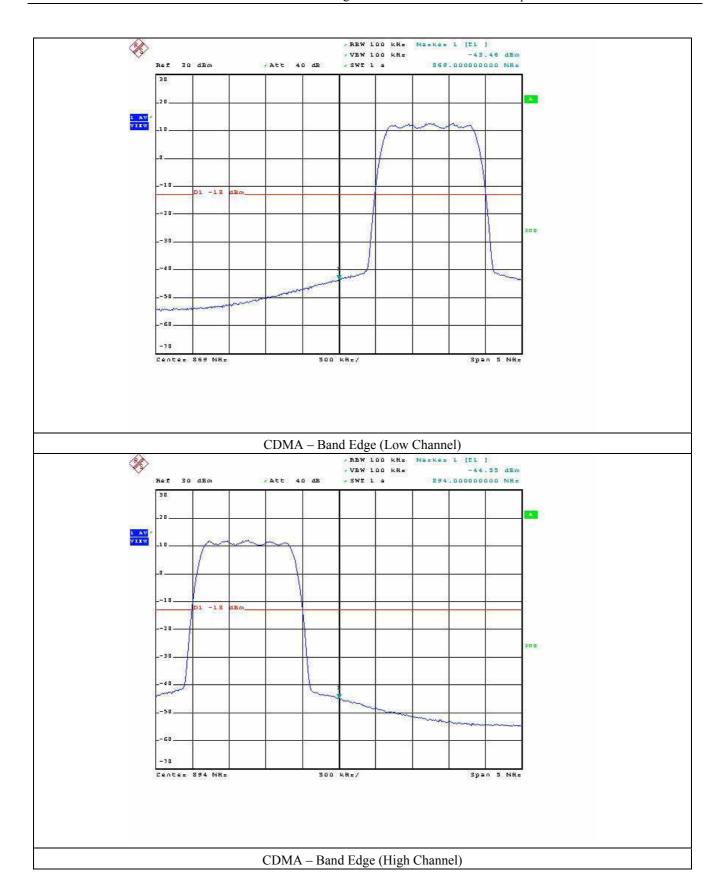
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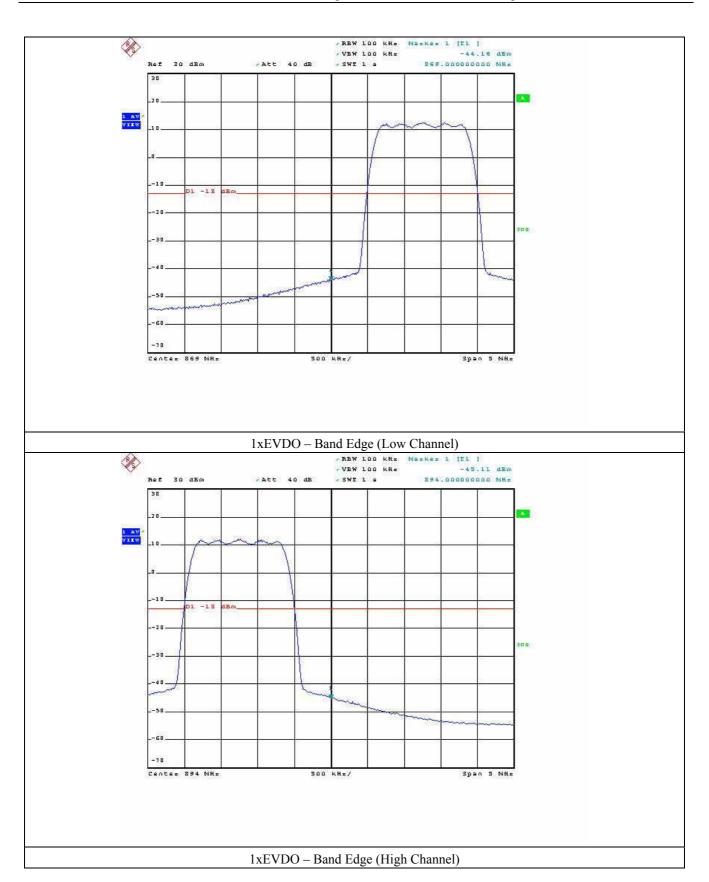
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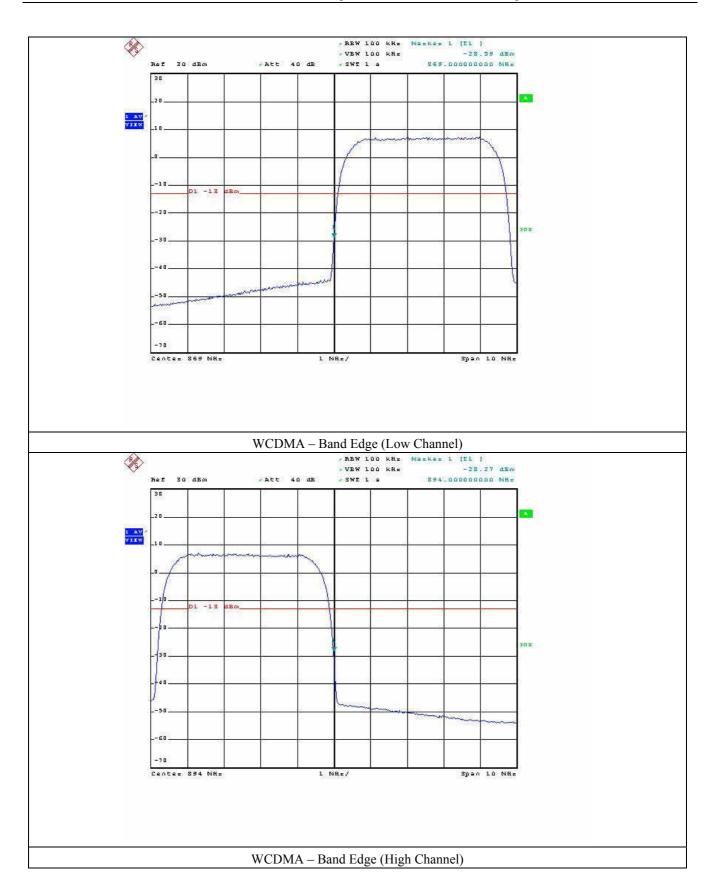
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8.3.2 Test Result for Part 24 E (1900P)

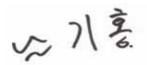
-. Test Date : April 19 ~ 20, 2011

-. Temperature : 24 °C -. Relative humidity : 48 % R.H.

-. Result : PASSED BY -9.23 dB at TDMA Mode

Modulation	Channel	Measured Frequency (MHz)	Max. Measured Value (dBm)	Limit (dBm)	Margin (dB)
TDMA	Low	1 930.000	-25.12	-13.00	-12.12
IDMA	High	1 995.004	-22.23		-9.23
CCM	Low	1 930.000	-27.74		-14.74
GSM	High	1 995.024	-27.73		-14.73
EDGE	Low	1 929.966	-30.73		-17.73
EDGE	High	1 995.000	-29.39		-16.39
CDM	Low	1 930.000	-37.86		-24.86
CDMA	High	1 995.000	-40.69		-27.69
1 EVDO	Low	1 930.000	-38.24		-25.24
1xEVDO	High	1 995.000	-40.13		-27.13
WCDMA	Low	1 930.000	-24.88		-11.88
WCDMA	High	1 995.000	-24.66		-11.66

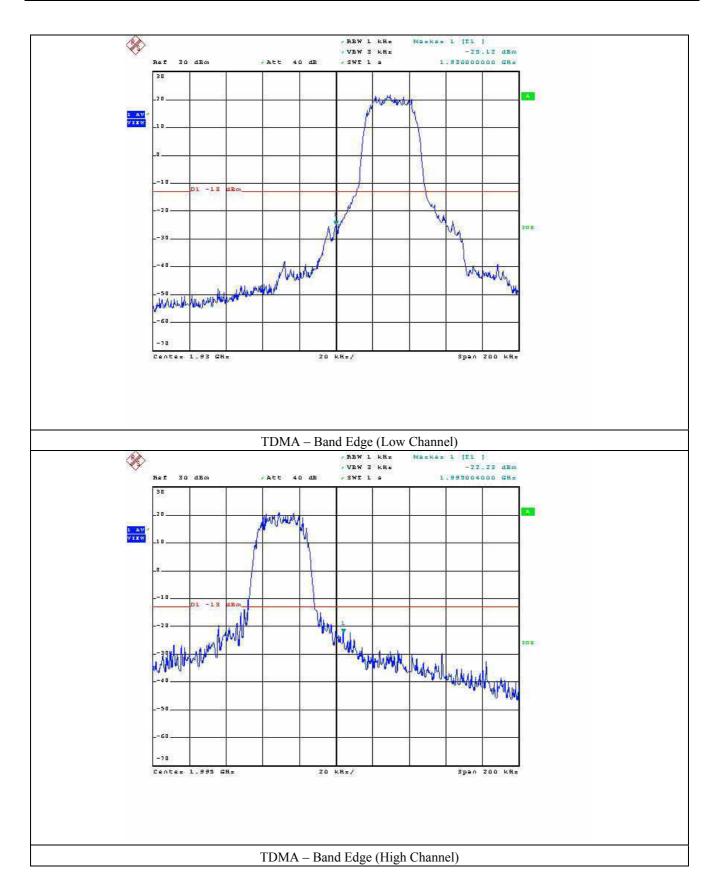
According to Part 22H, out of band emission shall be attenuated by 43 + 10 log (P) dBc, equates to -13.0dBm.



Tested by: Ki-Hong, Nam / Senior Engineer

FCC ID. : W6U19P85C70L21A

Report No. : E115R-007



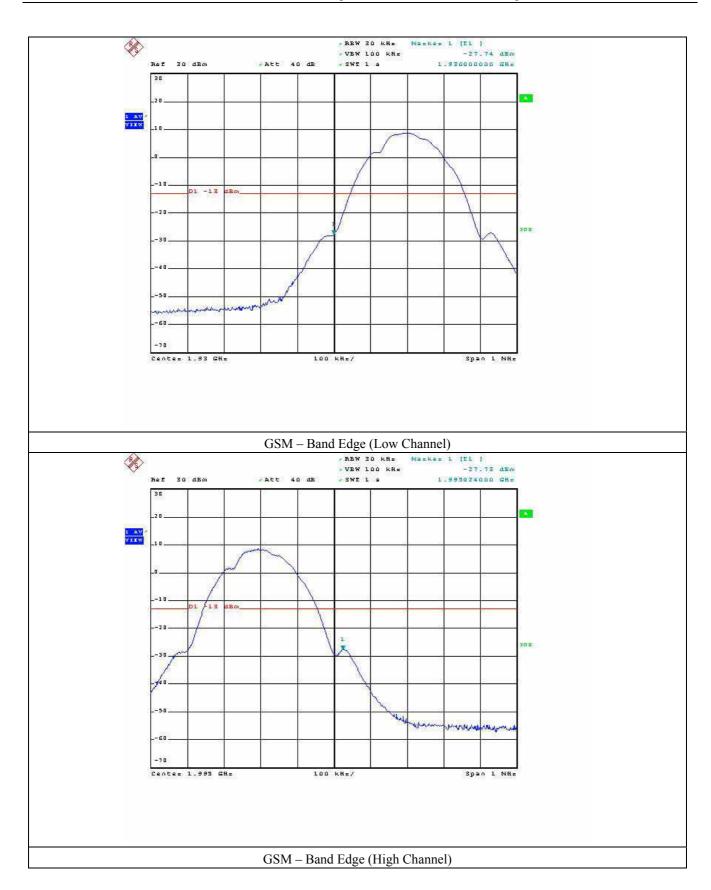
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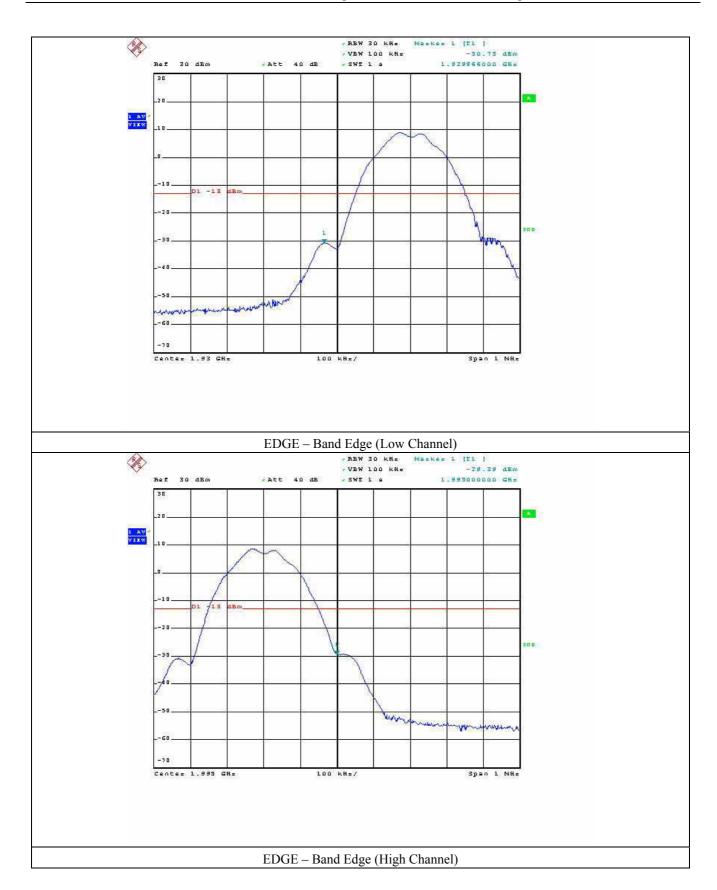
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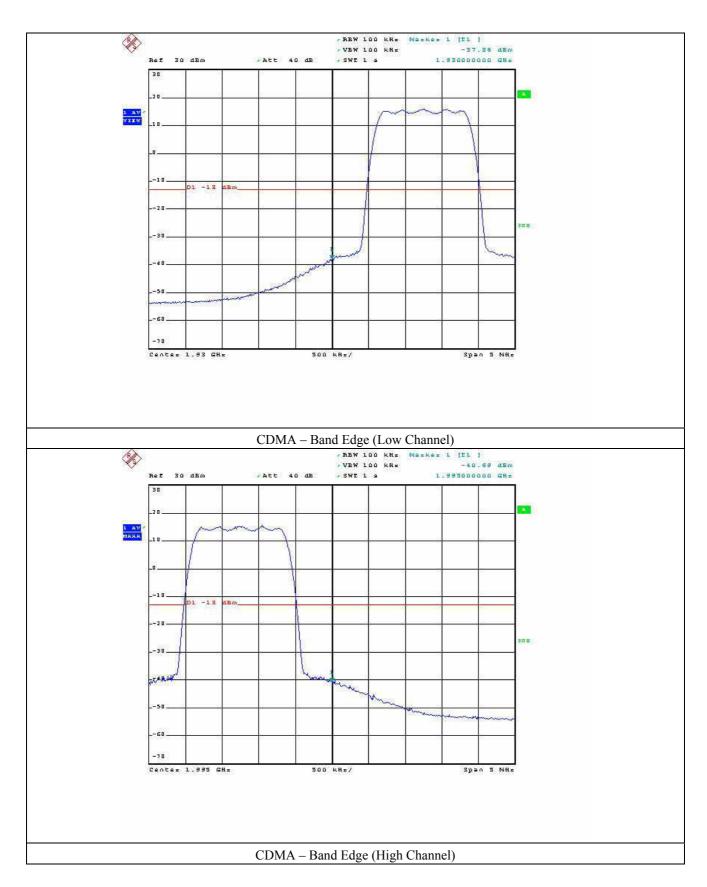
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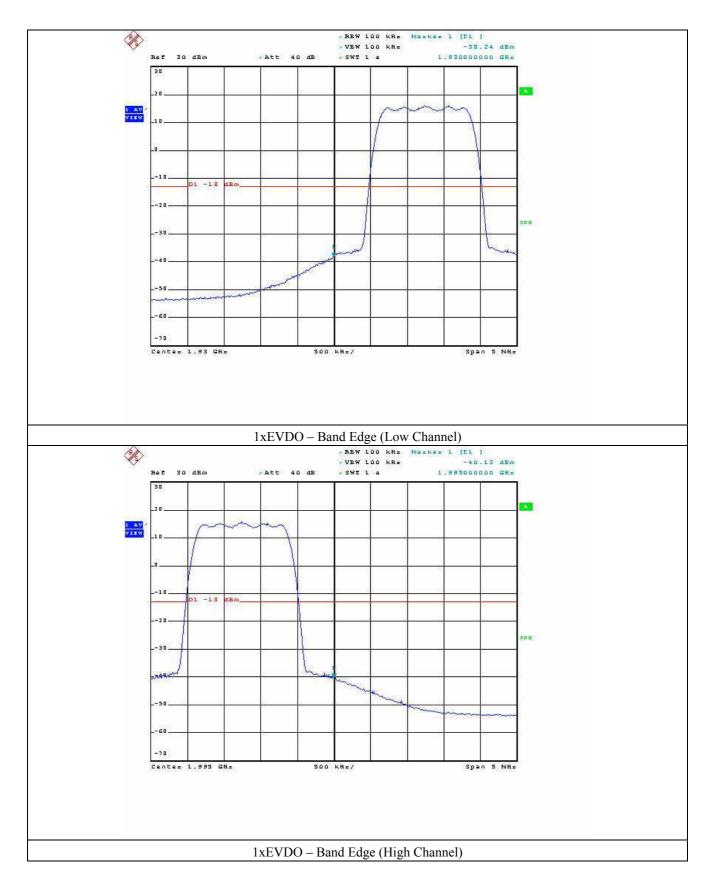
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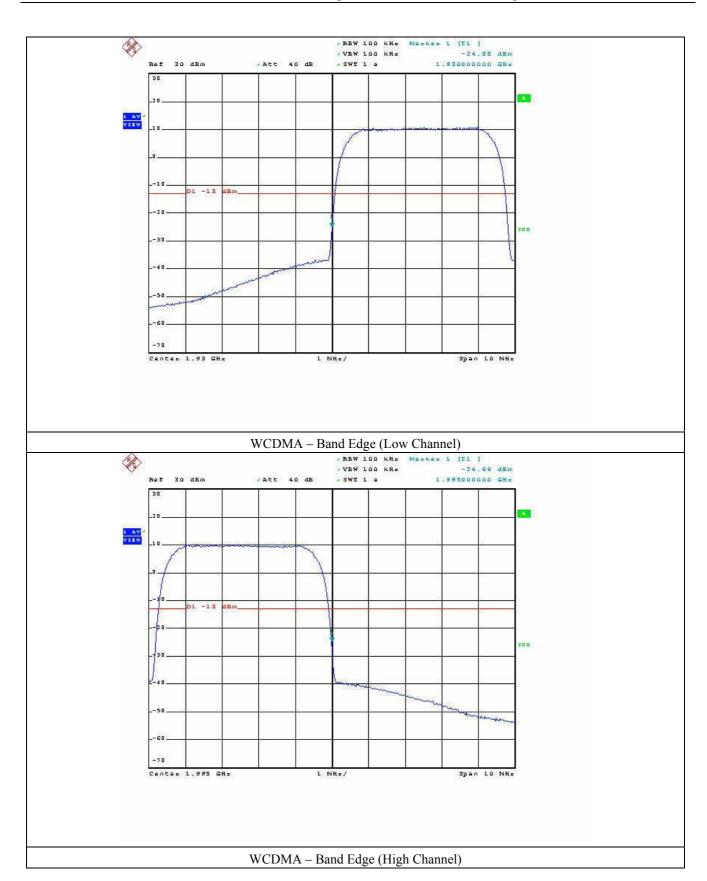
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