



Appendix A

Transmitter Output Power According to FCC Part 2.1046 & Part22.913



Conducted Power of Transmitter

TEST CONDITIONS (TN/VN)		RF Output Power(dBm)					
		Channel 1013(L) 824.7MHz		Channel 384(M) 836.52MHz		Channel 777(H) 848.31MHz	
		Measured	Limit	Measured	Limit	Measured	Limit
TM1		23.75	38.5	23.67	38.5	23.88	38.5
TM3		23.73	38.5	23.64	38.5	23.87	38.5
Subtype 0		23.75	38.5	23.68	38.5	23.85	38.5
Subtype 2		23.54	38.5	23.44	38.5	23.53	38.5
TEST CONDITIONS (TN/VN)		Channel(L)		Channel(M)		Channel(H)	
		Measured	Limit	Measured	Limit	Measured	Limit
Two-channels carrier		21.03	38.5	20.98	38.5	20.95	38.5
Three-channels carrier		20.35	38.5	20.25	38.5	20.29	38.5
TEST CONDITIONS (TN/VN)		Channel4132(L)		Channel4182(M)		Channel4233(H)	
		826.4MHz		836.4MHz		846.6MHz	
		Measured	Limit	Measured	Limit	Measured	Limit
TM4		22.38	38.5	22.31	38.5	22.23	38.5
TM5	Case1	22.13	38.5	22.25	38.5	22.05	38.5
	Case2	22.17	38.5	22.13	38.5	22.09	38.5
	Case3	21.81	38.5	21.92	38.5	21.78	38.5
	Case4	21.85	38.5	21.98	38.5	21.87	38.5
TM6	Case1	21.57	38.5	21.73	38.5	21.67	38.5
	Case2	20.19	38.5	20.14	38.5	20.15	38.5
	Case3	20.82	38.5	20.61	38.5	20.68	38.5
	Case4	20.78	38.5	20.49	38.5	20.37	38.5
	Case5	21.61	38.5	21.78	38.5	21.69	38.5



Peak-to-Average Ratio

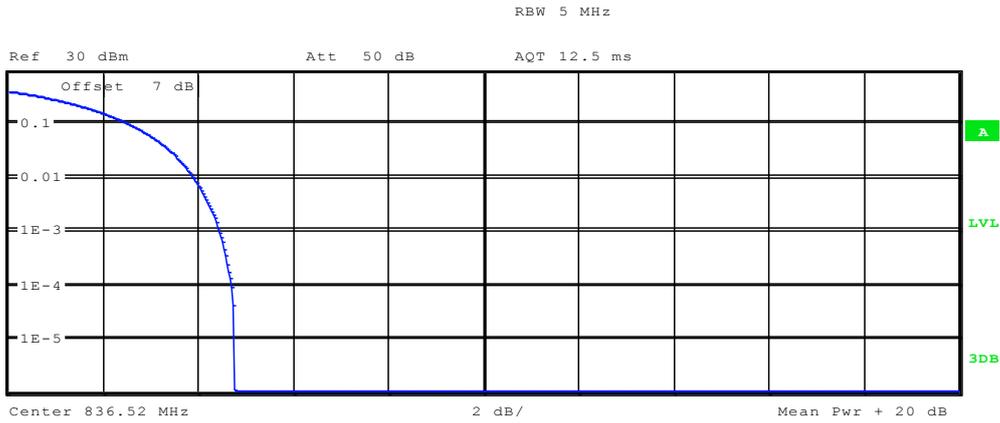
TEST CONDITIONS		Peak-to-Average Ratio					
		Channel1013(L)		Channel384 (M)		Channel777(H)	
		824.7MHz		836.52MHz		848.31MHz	
		dB		dB		dB	
(TN/VN)		Measured	Limit	Measured	Limit	Measured	Limit
TM1		4.15	13	4.46	13	4.27	13
TM3		4.23	13	4.19	13	4.31	13
Subtype 0		5.03	13	5.16	13	5.12	13
Subtype 2		4.98	13	5.08	13	5.11	13
TEST CONDITIONS		Channel4132(L)		Channel4182(M)		Channel4233(H)	
		826.4MHz		836.4MHz		846.6MHz	
		dB		dB		dB	
		(TN/VN)		Measured	Limit	Measured	Limit
TM4		3.12	13	3.21	13	3.27	13
TM5	Case1	3.09	13	3.07	13	2.98	13
	Case2	3.05	13	2.96	13	2.87	13
	Case3	2.99	13	3.04	13	2.91	13
	Case4	2.78	13	2.88	13	2.94	13
TM6	Case1	3.10	13	3.07	13	3.08	13
	Case2	3.06	13	2.79	13	3.06	13
	Case3	2.95	13	2.81	13	2.93	13
	Case4	2.91	13	2.93	13	2.86	13
	Case5	3.03	13	2.86	13	3.05	13



Test Plot of Peak-to-Average Ratio

Note: All relevant operation modes have been tested, and the worst case Plot is included in this report.

CDMA(TM1/TM3)

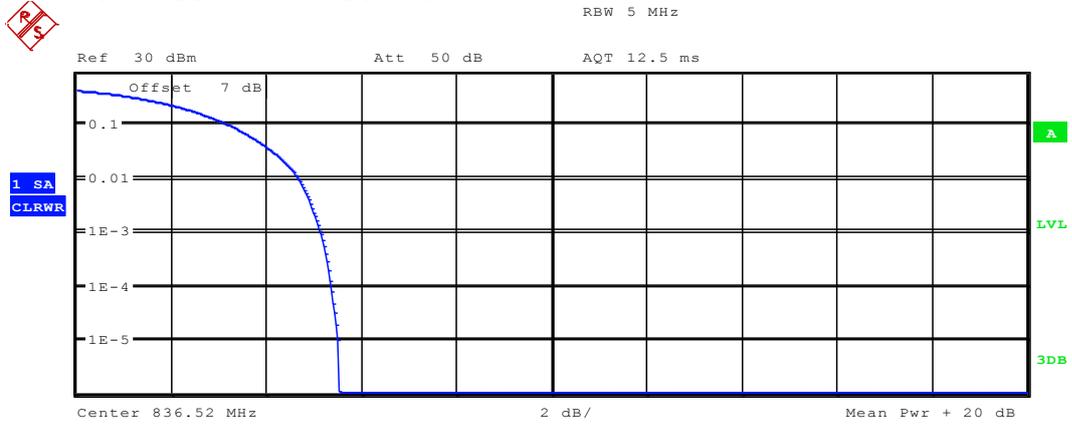


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 7.1MHz

Trace 1		
Mean	22.78	dBm
Peak	27.55	dBm
Crest	4.77	dB
10 %	2.56	dB
1 %	3.91	dB
.1 %	4.46	dB
.01 %	4.71	dB



EVDO(Subtype 0/ Subtype 2)



Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 7.1MHz

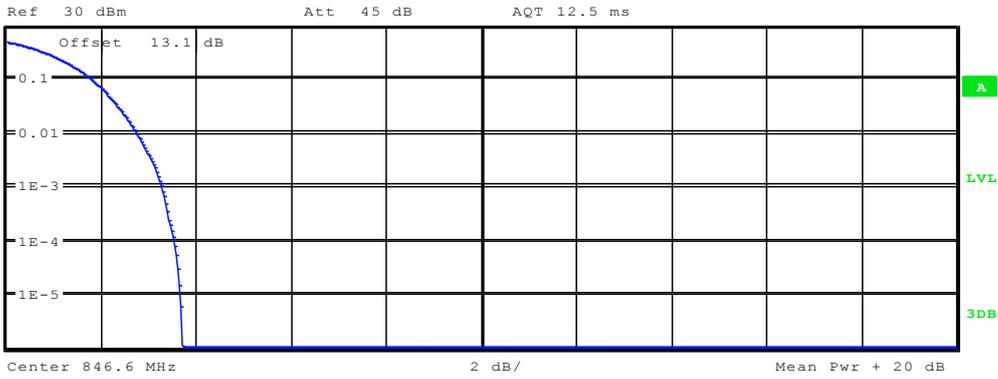
		Trace 1	
Mean		22.85	dBm
Peak		28.39	dBm
Crest		5.54	dB
10 %		3.24	dB
1 %		4.68	dB
.1 %		5.16	dB
.01 %		5.38	dB



TM4/TM5/TM6



RBW 5 MHz



Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 7.1MHz

	Trace 1	
Mean	21.94	dBm
Peak	25.64	dBm
Crest	3.70	dB
10 %	1.79	dB
1 %	2.76	dB
.1 %	3.27	dB
.01 %	3.53	dB



Effective Radiated Power of Transmitter (ERP)

Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBi]	Cable Loss [dB]	Substitution Level (ERP)	FCC limit [dBm]	Result
							[dBm]		
TM1	824.7	22.60	Dipole Ant.	26.18	-2.95	0.6	22.63	38.5	Pass
TM1	836.52	22.52	Dipole Ant.	26.17	-3.02	0.6	22.55	38.5	Pass
TM1	848.31	22.73	Dipole Ant.	26.50	-3.11	0.6	22.79	38.5	Pass
TM3	824.7	22.58	Dipole Ant.	26.06	-2.95	0.6	22.51	38.5	Pass
TM3	836.52	22.49	Dipole Ant.	26.04	-3.02	0.6	22.42	38.5	Pass
TM3	848.31	22.72	Dipole Ant.	26.48	-3.11	0.6	22.77	38.5	Pass
Subtype0	824.7	22.60	Dipole Ant.	26.20	-2.95	0.6	22.65	38.5	Pass
Subtype0	836.52	22.53	Dipole Ant.	26.20	-3.02	0.6	22.58	38.5	Pass
Subtype0	848.31	22.70	Dipole Ant.	26.45	-3.11	0.6	22.74	38.5	Pass
Subtype2	824.7	22.39	Dipole Ant.	25.88	-2.95	0.6	22.33	38.5	Pass
Subtype2	836.52	22.29	Dipole Ant.	25.86	-3.02	0.6	22.24	38.5	Pass
Subtype2	848.31	22.38	Dipole Ant.	26.07	-3.11	0.6	22.36	38.5	Pass
Two-channel carrier	Channel(L)	19.88	Dipole Ant.	23.81	-2.95	0.6	19.86	38.5	Pass
Two-channel carrier	Channel(M)	19.83	Dipole Ant.	23.89	-3.02	0.6	19.87	38.5	Pass
Two-channel carrier	Channel(H)	19.80	Dipole Ant.	23.96	-3.11	0.6	19.85	38.5	Pass



Three-channel carrier	Channel(L)	19.20	Dipole Ant.	23.17	-2.95	0.6	19.22	38.5	Pass
Three-channel carrier	Channel(M)	19.10	Dipole Ant.	23.19	-3.02	0.6	19.17	38.5	Pass
Three-channel carrier	Channel(H)	19.14	Dipole Ant.	23.30	-3.11	0.6	19.19	38.5	Pass
TM4	826.4	21.23	Dipole Ant.	24.63	-2.75	0.6	21.28	38.5	Pass
TM4	836.4	21.16	Dipole Ant.	24.58	-2.87	0.6	21.11	38.5	Pass
TM4	846.6	21.08	Dipole Ant.	24.47	-2.85	0.6	21.02	38.5	Pass

Note: a, For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level

-----The END-----