



Appendix A

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



Conducted Power of Transmitter

TEST CONDITIONS		RF Output Power (Conducted)		
		Channel128(B) 824.2MHz dBm	Channel192(M) 837.0MHz dBm	Channel251(T) 848.8MHz dBm
T_{nom} / V_{nom}		Measured	Measured	Measured
TM1		32.63	32.77	32.79
TM2		26.75	26.61	26.41
TEST CONDITIONS		Channel4132(B) 826.4MHz dBm	Channel4182(M) 836.4MHz dBm	Channel4233(T) 846.6MHz dBm
		T_{nom} / V_{nom}		
TM3		22.92	22.73	22.97
TM4	Case1	22.90	22.64	22.91
	Case2	22.51	22.15	22.33
	Case3	21.79	21.52	21.69
	Case4	21.76	21.49	21.71
TM5	Case1	21.09	20.76	21.07
	Case2	20.12	19.82	20.07
	Case3	20.03	19.74	19.97
	Case4	19.83	19.62	19.86
	Case5	21.12	20.83	21.05



Effective Radiated Power of Transmitter (ERP)

Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBd]	Cable Loss [dB]	Substitution Level (ERP) [dBm]	FCC limit [dBm]	Result
TM1	824.2	30.48	Dipole Ant.	33.80	-2.75	0.6	30.45	38.5	Pass
TM1	837.0	30.62	Dipole Ant.	34.08	-2.87	0.6	30.61	38.5	Pass
TM1	848.8	30.64	Dipole Ant.	34.13	-2.85	0.6	30.68	38.5	Pass
TM2	824.2	24.6	Dipole Ant.	27.97	-2.75	0.6	24.62	38.5	Pass
TM2	837.0	24.46	Dipole Ant.	27.92	-2.87	0.6	24.45	38.5	Pass
TM2	848.8	24.26	Dipole Ant.	27.68	-2.85	0.6	24.23	38.5	Pass
TM3	826.4	20.77	Dipole Ant.	24.13	-2.75	0.6	20.78	38.5	Pass
TM3	836.4	20.58	Dipole Ant.	24.04	-2.87	0.6	20.57	38.5	Pass
TM3	846.6	20.82	Dipole Ant.	24.25	-2.85	0.6	20.80	38.5	Pass

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

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

b, SGP=Signal Generator Level

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

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