



Appendix A

Transmitter Output Power According to FCC Part 2.1046 & Part 27 Subpart C&L



Conducted Power of Transmitter

Table 1 Measurement Results

TEST CONDITIONS		RF Output Power (Conducted)		
		Channel 1312(L)	Channel 1412(M)	Channel 1513(H)
		1712.4MHz	1732.4MHz	1752.6MHz
		dBm	dBm	dBm
T_{nom} / V_{nom}		Measured	Measured	Measured
TM1		22.01	21.96	21.95
TM2	Case1	21.81	21.86	21.71
	Case2	21.21	21.61	21.13
	Case3	20.74	21.04	20.89
	Case4	19.92	20.14	20.05
TM3	Case1	20.98	21.13	20.92
	Case2	18.17	18.14	18.14
	Case3	20.07	20.03	20.01
	Case4	18.01	18.05	17.96
	Case5	20.96	21.11	20.94



Peak-to-Average Ratio

Table 1 Measurement Results

TEST CONDITIONS		Peak-to-Average Ratio					
		Channel 1312(L)		Channel 1412(M)		Channel 1513(H)	
		1712.4MHz		1732.4MHz		1752.6MHz	
		dB		dB		dB	
T_{nom} / V_{nom}		Measured	Limit	Measured	Limit	Measured	Limit
TM1		3.23	13	3.25	13	3.24	13
TM2	Case1	3.19	13	3.21	13	3.22	13
	Case2	3.06	13	3.08	13	3.03	13
	Case3	3.11	13	3.15	13	3.09	13
	Case4	3.01	13	2.99	13	3.13	13
TM3	Case1	3.16	13	3.12	13	2.95	13
	Case2	3.15	13	3.04	13	3.17	13
	Case3	3.07	13	2.97	13	3.05	13
	Case4	2.96	13	3.18	13	2.98	13
	Case5	3.14	13	3.02	13	3.11	13



Efficient Isotropic Radiated Power (EIRP)

Table 2 Substitution Results

Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBi]	Cable Loss [dB]	Substitution Level (EIRP) [dBm]	Limit [dBm]	Result
TM1	1712.4	25.11	Horn Ant.	21.64	4.5	1.0	25.14	30	Pass
TM1	1732.4	25.06	Horn Ant.	21.58	4.5	1.0	25.08	30	Pass
TM1	1752.6	25.05	Horn Ant.	21.27	4.8	1.0	25.07	30	Pass

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

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

b, SGP=Signal Generator Level

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