



# 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(B)		Channel 1412(M)		Channel 1513(T)	
		1712.4MHz		1732.4MHz		1752.6MHz	
		dBm		dBm		dBm	
$T_{nom} / V_{nom}$		Measured	Limit	Measured	Limit	Measured	Limit
TM1		22.26	30	22.11	30	22.15	30
TM2	Case1	22.07	30	22.03	30	22.05	30
	Case2	22.01	30	21.97	30	21.94	30
	Case3	21.39	30	21.35	30	21.31	30
	Case4	21.41	30	21.29	30	21.22	30
TM3	Case1	21.43	30	21.65	30	21.35	30
	Case2	19.78	30	20.32	30	20.37	30
	Case3	20.89	30	21.08	30	20.76	30
	Case4	20.41	30	20.25	30	20.11	30
	Case5	21.51	30	21.75	30	21.24	30



## 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	25.62	Horn Ant.	22.18	4.5	1.0	25.68	30	Pass
TM1	1732.4	25.47	Horn Ant.	22.02	4.5	1.0	25.52	30	Pass
TM1	1752.6	25.51	Horn Ant.	21.79	4.8	1.0	25.59	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-----