Measurement Data For Transmitter

6.1 Measurement Data For Transmitter {2.983(e)}

Section Number		ltem	Measurement Results	Procedure Exhibit #
2.985(a)	1	Radio Frequency Power Output	Table 6.2.2	7.1
2.993		Field Strength of Spurious Radiation	Table 6.7.1 ~ 6.7.3	7.4
	4	SAR	See Exhibit 11	See Exhibit 11

6.2 Radio Frequency Power Output Measurement Data {2.985(a)}

6.2.1 Conducted Power Output Measurement

Power Control Level	Nominal Peak Output Power (dBm)	Tolerance (dB)		
0	30	±2		
7	16	±3		
15	0	±5		

Table 6.2.1 Radio Frequency Power Output Measurement Limits

Frequency (MHz)	Channel #	Power Control Level	Peak Output Power (dBm)
		0	29.62
1850.2	512	7	16.12
		15	0.42
		0	29.30
1880.0	661	7	15.69
		15	-0.05
1909.8		0	29.65
	810	7	16.14
		15	0.41

 Table 6.2.2 Conducted Power Measurement Results

6.2.2 Radiated Output Power Measurement

Ant.			Antenna	Cable	Pre-amp	External			
Pol.	Frequency	Reading	Factor	Loss	Factor	Atten.	Net	Limit	Margin
(V/H)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dB)	dBuV/m	dBuV/m	(dB)
V	1850.2	96.1	28.6	5.0	0	0	129.6	N/A	N/A
V	1880.0	95.5	28.8	5.0	0	0	129.3	N/A	N/A
V	1909.8	93.6	29.0	5.1	0	0	127.6	N/A	N/A

Substitution Method

A	nt.		EUT	Forward	Antenna	Forward	Radiated
P	ol.	Frequency	Measured	Power	Gain	Power	Power
			Reading	Reading			in
(V	/H)	(MHz)	(dBuV)	(dBm)	(dBi)	(dBm)	(Watts)
\	V	1850.2	129.6	23.1	6.4	29.5	0.891
\	V	1880.0	129.3	22.6	6.3	28.9	0.776
'	V	1909.8	127.6	22.8	6.2	29.0	0.794

Comments

- 1) Forward power meter reading(dBm) refers to signal level measured on the power meter at the input of transmitting antenna
- 2) Tx. Ant Gain(dBi) refers to transmitting antenna gain in dBi.
- 3) Simple radiated power calculation
 Radiated Power(dBm) = Forward power reading level(dBm) + Transmitting antenna gain(dBi)

if the forward power reading level(dBm) = 23.1 dBm and the transmitting antenna gain = 6.4 dBi, then

Radiated Power(dBm) = 23.1 dBm + 6.4 dBi = 29.5 dBm or approximately 1 Watt

Table 6.2.3 Radiated Power Measurement Results