

Training Research Co., Ltd.

2, Lane 194, Huan-Ho Street, Hsichih, Taipei Hsien 221, Taiwan

Tel: 886-2-2693-5155 Fax: 886-2-26934440

To:Mr. Frank Coperich

fcoperic@fcc.gov

FCC Application Processing Branch

Re: FCC ID:INGJH-D5

Application: Taky Electronics Co., Ltd.

Correspondence Reference number:17779

731 Confirmation Number: EA99327

In response to your e-mail on 2001/01/23.

We choose two operating frequency of EUT which apply ANSI/EIA/TIA-603-1992.

Operating Frequency: 174.600 MHz (E.I.R.P.)

Angle of Turn Table (°)	Spectrum Reading (dBuV/m)	Corrected (dB)	Actually Value (dBuV/m)	E.I.R.P. (mW)	8 position of Average (mW)
0°	73.86	-13.03	86.89	0.14659	0.09268
45°	73.83	-13.03	86.86	0.14558	
90°	56.05	-13.03	69.08	0.00242	
135°	71.66	-13.03	84.69	0.08833	
180°	73.95	-13.03	86.98	0.14966	
225°	73.72	-13.03	86.75	0.14194	
270°	52.29	-13.03	65.32	0.00102	
315°	70.39	-13.03	83.42	0.06593	

$$\begin{aligned}\text{Corrected (dB)} &= \text{AF(dB)} + [\text{CL(dB)} - \text{Amplitude Gain}] \\ &= -13.03 \text{ dB/m}\end{aligned}$$

$$\begin{aligned}\text{Actually Value (dBmV/m)} &= \text{Spectrum Reading (dBmV/m)} - \text{Corrected (dB)} \\ &= 73.95 - (-13.03) \\ &= 86.98 \text{ dBmV/m}\end{aligned}$$

The maximum field measured is 86.98 dBmV/m

$$\text{RF output power (Volt)} = 10^{86.98/20} \times 10^{-6} = 0.022335722 \text{ V}$$

$$\text{E.I.R.P. (mW)} = (0.022335722 \times 3)^2 / 30\text{K} = 0.1496653 \text{ mW (K=1)}$$

Operating Frequency: 174.600 MHz (E.R.P.)

Angle of Turn Table (°)	Spectrum Reading (dBuV/m)	Corrected (dB)	Actually Value (dBuV/m)	E.R.P. (mW)	8 position of Average (mW)
0°	73.86	-13.03	86.89	0.08938	0.04059
45°	73.83	-13.03	86.86	0.08877	
90°	56.05	-13.03	69.08	0.00148	
135°	71.66	-13.03	84.69	0.05386	
180°	73.95	-13.03	86.98	0.09125	
225°	73.72	-13.03	86.75	0.08655	
270°	52.29	-13.03	65.32	0.00062	
315°	70.39	-13.03	83.42	0.04020	

$$\begin{aligned} \text{Corrected (dB)} &= \text{AF(dB)} + [\text{CL(dB)} - \text{Amplitude Gain}] \\ &= -13.03 \text{ dB/m} \end{aligned}$$

$$\begin{aligned} \text{Actually Value (dBmV/m)} &= \text{Spectrum Reading (dBmV/m)} - \text{Corrected (dB)} \\ &= 73.95 - (-13.03) \\ &= 86.98 \text{ dBmV/m} \end{aligned}$$

The maximum field measured is 86.98 dBmV/m

$$\text{RF output power (Volt)} = 10^{86.98/20} \times 10^{-6} = 0.022335722 \text{ V}$$

$$\text{E.R.P. (mW)} = (0.022335722 \times 3)^2 / 30\text{K} = 0.0912593556 \text{ mW (K=1.64)}$$

Operating Frequency: 213.200MHz (E.I.R.P.)

Angle of Turn Table (°)	Spectrum Reading (dBuV/m)	Corrected (dB)	Actually Value (dBuV/m)	E.I.R.P. (mW)	8 position of Average (mW)
0°	81.46	-14.51	95.97	1.18609	0.58550
45°	78.03	-14.51	92.54	0.53842	
90°	58.95	-14.51	73.46	0.00665	
135°	78.82	-14.51	93.33	0.64583	
180°	81.37	-14.51	95.88	1.16177	
225°	77.70	-14.51	92.21	0.49902	
270°	59.64	-14.51	74.15	0.00780	
315°	78.77	-14.51	93.28	0.63844	

$$\begin{aligned} \text{Corrected (dB)} &= \text{AF(dB)} + [\text{CL(dB)} - \text{Amplitude Gain}] \\ &= -14.51 \text{ dB/m} \end{aligned}$$

$$\begin{aligned} \text{Actually Value (dBmV/m)} &= \text{Spectrum Reading (dBmV/m)} - \text{Corrected (dB)} \\ &= 81.46 - (-14.51) \\ &= 95.97 \text{ dBmV/m} \end{aligned}$$

The maximum field measured is 95.97 dBmV/m

$$\text{RF output power (Volt)} = 10^{95.97/20} \times 10^{-6} = 0.062878185 \text{ V}$$

$$\text{E.I.R.P. (mW)} = (0.062878185 \times 3)^2 / 30\text{K} = 1.18609986 \text{ mW (K=1)}$$

Operating Frequency: 213.200MHz (E.R.P.)

Angle of Turn Table (°)	Spectrum Reading (dBuV/m)	Corrected (dB)	Actually Value (dBuV/m)	E.R.P. (mW)	8 position of Average (mW)
0°	81.46	-14.51	95.97	0.72323	0.35700
45°	78.03	-14.51	92.54	0.32830	
90°	58.95	-14.51	73.46	0.00405	
135°	78.82	-14.51	93.33	0.39380	
180°	81.37	-14.51	95.88	0.70839	
225°	77.70	-14.51	92.21	0.30428	
270°	59.64	-14.51	74.15	0.00475	
315°	78.77	-14.51	93.28	0.38929	

$$\begin{aligned} \text{Corrected (dB)} &= \text{AF(dB)} + [\text{CL(dB)} - \text{Amplitude Gain}] \\ &= -14.51 \text{ dB/m} \end{aligned}$$

$$\begin{aligned} \text{Actually Value (dBmV/m)} &= \text{Spectrum Reading (dBmV/m)} - \text{Corrected (dB)} \\ &= 81.46 - (-14.51) \\ &= 95.97 \text{ dBmV/m} \end{aligned}$$

The maximum field measured is 95.97 dBmV/m

$$\text{RF output power (Volt)} = 10^{95.97/20} \times 10^{-6} = 0.062878185 \text{ V}$$

$$\text{E.I.R.P. (mW)} = (0.062878185 \times 3)^2 / 30\text{K} = 0.72323 \text{ mW (K=1.64)}$$

Question 3 & 4: We had up-load to your OET system on 2001/2/19.

Best regards,

Jack Tsai
2001/2/22