

**4. PRELIMINARY TEST****4.1 AC Power line Conducted Emission Test**

During Preliminary Test, the following operating mode was investigated

Operation Mode	The Worse operating condition (Please check one only)
N/A	N/A
It is not need to test this requirement, because the power of the EUT is supplied from a Car battery.	

4.2 Radiated Emission Test

During Preliminary Test, the following operating mode was investigated

Operation Mode	The Worse operating condition (Please check one only)
Transmit RF Signal continuously	X

**5. FINAL RESULT OF MEASUREMENT**

Preliminary test was done in normal operation mode. And the final measurement was selected for the maximized emission level

5.1 Radiated Emission Test (Within the permitted 200kHz band)

The following table shows the highest levels of radiated emission on both polarizations of horizontal and vertical.

Humidity Level : 54 % Temperature : 20 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.239
 Type of Test : Low Power Communication Device Transmitter
 Result : PASSED BY -3.85 dB at 94.8 MHz

EUT : 10.4" LCD TV RECEIVER Date: May 03, 2001
 Operating Condition : Transmit the audio signal.
 Distance : 3 Meter

Radiated Emission			Ant	Correction Factors		Total	Limit (dBuV/m)	Margin (dB)
Freq. (MHz)	Amp. (dBuV)	Detect Mode	Pol.	Ant. (dBuV/m)	Cable (dB)	Amp. (dBuV/m)		
88.3	34.40	Average	V	8.08	1.10	43.58	48.00	-4.42
94.8	33.00	Average	H	10.02	1.13	44.15	48.00	-3.85

Radiated Emission Tabulated Data

Remark: Measurements were performed 1 near top and 1 near bottom location in the frequency range of operation according to the section 15.31 (m).


 Tested by: Young-Min, Choi/ Project Engineer



5.2 Radiated Emission Test (Outside of the specified 200kHz band)

The following table shows the highest levels of radiated emission on both polarizations of horizontal and vertical.

Humidity Level : 56 % Temperature : 20 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209
 Type of Test : Low Power Communication Device Transmitter
 Result : PASSED BY -3.31dB at 264.90MHz

EUT : 10.4" LCD TV RECEIVER Date: May 03, 2001
 Operating Condition : Transmit the audio signal.
 Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)
 Distance : 3 Meter

Radiated Emission		Ant	Correction Factors		Total	FCC	
Freq. (MHz)	Amp. (dBuV)	Pol.	Ant. (dBuV/m)	Cable (dB)	Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
177.60	15.80	V	15.86	1.45	33.11	43.50	-10.39
264.90	27.40	H	13.42	1.87	42.69	46.00	-3.31
353.20	16.70	H	15.23	2.29	34.22	46.00	-11.78
441.50	6.80	H	16.74	2.53	26.07	46.00	-19.93
529.80	6.20	H	18.44	2.74	27.38	46.00	-18.62
618.10	5.30	H	19.29	2.97	27.56	46.00	-18.44
706.40	5.10	H	20.96	3.35	29.41	46.00	-16.59
794.70	5.00	H	21.26	3.69	29.95	46.00	-16.05
883.00	7.30	H	22.56	3.90	33.76	46.00	-12.24

-. Above test values are the harmonics of the 88.3MHz

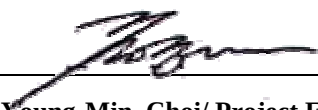


Radiated Emission		Ant	Correction Factors		Total	FCC	
Freq. (MHz)	Amp. (dBuV)	Pol.	Ant. (dBuV/m)	Cable (dB)	Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
189.60	16.70	H	16.37	1.50	34.57	43.50	-8.93
284.40	23.40	V	14.54	1.93	39.87	46.00	-6.13
379.20	14.30	V	15.56	2.40	32.26	46.00	-13.74
474.00	8.30	V	17.58	2.60	28.48	46.00	-17.52
568.80	6.40	V	18.64	2.85	27.89	46.00	-18.11
663.60	5.20	V	20.40	3.13	28.73	46.00	-17.27
758.40	5.10	V	20.81	3.54	29.45	46.00	-16.55
853.20	5.70	V	22.77	3.85	32.32	46.00	-13.68
948.00	5.40	V	23.39	4.09	32.88	46.00	-13.12

-. Above test values are the harmonics of the 94.8 MHz

Radiated Emission		Ant	Correction Factors		Total	FCC	
Freq. (MHz)	Amp. (dBuV)	Pol.	Ant. (dBuV/m)	Cable (dB)	Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
48.83	16.20	H	11.18	0.92	28.30	48.00	-19.70
56.35	23.40	V	10.48	0.98	34.86	40.00	-5.14
73.65	26.20	H	6.57	1.00	33.77	40.00	-6.23
97.82	26.60	V	11.08	1.14	38.82	43.50	-4.68
114.85	17.80	H	12.96	1.22	31.98	43.50	-11.52
147.26	24.20	H	13.20	1.34	38.74	43.50	-4.76
196.44	20.30	H	16.52	1.55	38.37	43.50	-5.13
245.20	28.10	H	12.29	1.81	42.20	46.00	-3.80
270.00	25.60	H	13.78	1.88	41.26	46.00	-4.74
294.60	21.30	H	14.98	1.98	38.26	46.00	-7.74
344.00	18.90	H	15.19	2.25	36.34	46.00	-9.66
860.80	15.20	H	22.72	3.86	41.78	48.00	-6.22

-. Above test values are the other emissions.


Tested by: Young-Min, Choi/ Project Engineer



5.3 Bandwidth of the operating frequency

Humidity Level : 56 % Temperature : 20 °C
Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.239
Result : PASSED

EUT : 10.4" LCD TV RECEIVER Date: May 03, 2001
Operating Condition : Transmit the audio signal.
Minimum Resolution
Bandwidth : 30 KHz

Remark: Measurements were performed 1 near top and 1 near bottom location in the frequency range of operation according to the section 15.31 (m).

Refer to Plot #2 Test Data in next page.


Tested by: Young-Min, Choi/ Project Engineer

