JQA Application No.: KL80030023 Regulation : CFR 47 FCC Rules Part 24 Issue Date

Model No. : GX20

FCC ID : APYHRO00030

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: April 26, 2003

# **Additional Report**

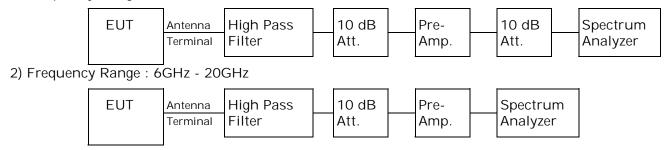
Antenna Conducted Spurious Emission Measurement (§2.1051,§24.238))

-Spurious Emission Except the harmonics frequency-

### **Test Procedure:**

The Antenna Conducted Emission was measured with a spectrum analyzer, one or two 10 dB attenuator, a high pass filter., a pre-amplifier and a short, low loss cable.

1) Frequency Range: 2GHz - 6GHz



## **Test location:**

KITA-KANSAI Testing Center

7-7, Ishimaru, 1-Chome, Mino-Shi, Osaka, 562-0027, Japan

Shielded room

KAMEOKA EMC Branch

9-1, Ozaki, Inukanno, Nishibetsuin-Cho, Kameoka-Shi, Kyoto, 621-0126, Japan

O - Shielded room

#### **Used test instruments:**

Model No.	Device ID	Last Cal. Date	Cal. Interval
○ - MP721C	D - 66		
● - 4T-10	D - 73	May, 2002	1 Year
● - 4T-10	D - 74	May, 2002	1 Year
O - 2-10	D - 79		
O - 2-10	D - 80		
● - UHP-127	D - 42	May, 2002	1 Year
O - UHP-128	D - 43		
● - 8566B	A - 13	February, 2003	1 Year
○ - 8593A	A - 15		
○ - WJ-6611-513	A - 23		
● - WJ-6882-824	A - 21	May, 2002	1 Year
● - DBL-0618N515	A - 33	May, 2002	1 Year

#### **Environmental conditions:**

Temperature: 22 °C Humidity: 54 % JQA Application No.: KL80030023 Regulation : CFR 47 FCC Rules Part 24 Issue Date : April 26, 2003

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### Measurment Result:

The plot data is shown in the attachment.

Pages 3-5 : 1850.200MHz(512ch) Pages 6-8: 1880.000MHz(661ch) Pages 9-11: 1909.800MHz(810ch)

The all spurious emission not listed in page 28 of 42 in KL8030023 were found to be more than 20 dB below the limit.

## Sample Calculation:

Transmitting Frequency	Frequency	Correction Factor	Meter Readings (dBm)	Limits	Results (dBm)
[MHz]	[MHz]	[dB]		(dBm)	
1850.2	3696.0	-20.8	-27.6	-13.0	-48.4
1880.0	3756.0	-20.7	-25.8	-13.0	-46.5
1909.2	3816.0	-20.7	-27.6	-13.0	-48.3

Note: The Amp Gain, the attenuator loss and the cable loss are included in the correction factor.

## Judgement procedure:

The sprious data is compared to the antenna conduced emisson level of the discrete frequeies of page 28 of 42.

MKR 3.696 GHz -27.60 dBm ATTEN 10 db REF Ø.Ø dBm 10 dB/ MARKER 3.696 GHz -27 | 60 | dBmwhome who was a market a man and a m Mrym

START 2.00 GHz RES BW 1 MHz

VBW 1 MHz

STOP 6.00 GHz SWP 100 msec

MKR 7.392 GHz AP REF 0.0 dBm ATTEN 10 dB -28.60 dBm 10 dB/ MARKER 7.392 GHZ -28.60 dBm Why had when an will man part of an amount of the mount o

START 6.00 GHz RES BW 1 MHz VBW 1 MHz

STOP 12.00 GHz SWP 150 msec

MKR 12.944 GHz -48,40 dBm ATTEN 10 dB REF Ø.Ø dBm 10 dB/ MARKER 12.944 GHz -48 40 dBm What would all when he would monthly that the house have a common house of monthly monthly monthly monthly man and applicate a some and a superior and any monthly man and a superior and

START 12.00 GHz RES BW 1 MHz

VBW 1 MHz

STOP 20.00 GHz SWP 200 msec

MKR 3.756 GHz -25.80 dBm REF 0.0 dBm ATTEN 10 dB 10 dB/ MARKER 3.756 GHz -25 80 dBm MANIAN homeware the many the many transport to a many the many transport to the many transport

START 2.00 GHz RES BW 1 MHz VBW 1 MHz

STOP 6.00 GHz SWP 100 msec

MKR 7.512 GHz -30.50 dBm REF 0.0 dBm ATTEN 10 dB 10 dB/ MARKER 7.512 GHz -30150 dBm May May May And Land Land March of Marc

START 6.00 GHz RES BW 1 MHz VBW 1 MHz

STOP 12.00 GHz SWP 150 msec

MKR 13.152 GHz -53.80 dBm REF 0.0 dBm ATTEN 10 dB 10 dB/ MARKER 13. 152 GHz -53 80 dBm Lunder Adenda Whanker Comme La de al forma production de la construction de la moundain

START 12.00 GHz RES BW 1 MHz

VBW 1 MHz

STOP 20.00 GHz SWP 200 msec

MKR 3.816 GHz -27.60 dBm REF Ø.Ø dBm ATTEN 10 dB 10 dB/ MARKER 3.816 GHz -27 | 60 | dBm- Maranos Maria ma whom

START 2.00 GHz

RES BW 1 MHz VBW 1 MHz

STOP 6.00 GHz SWP 100 msec

MKR 7.632 GHz REF 0.0 dBm ATTEN 10 dB -46.80 dBm 10 dB/ MARKER 7.632 GHz -46 80 dBm John Har yaykarya - yankarin phowardhanan mananan han a waran har banan har

START 6.00 GHz RES BW 1 MHz VBW 1 MHz

STOP 12.00 GHz SWP 150 msec

MKR 13.360 GHz -48.10 dBm REF 0.0 dBm ATTEN 10 dB 10 dB/ MARKER 13.860 GHz -48 10 dBm man a resident of the second o homotomoda

START 12.00 GHz RES BW 1 MHz

VBW 1 MHz

STOP 20.00 GHz SWP 200 msec