

APPENDIX 2:Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2006/04/10 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE	2006/02/23 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2005/12/16 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2005/10/10 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2005/10/14 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	RE	2006/03/04 * 12
MPA-10	Pre Amplifier	Agilent	8449B	RE	2005/09/07 * 12
MCC-47	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2005/08/30 * 12
MCC-16	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	RE	2006/02/02 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE	2004/11/25 * 24
MRENT-26	Spectrum Analyzer	Advantest	R3273	RE	2006/02/15 * 12
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE	-

All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Test Item:

RE: Radiated emission

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(24.05.06)

APPENDIX 3: Data of EMI test

Radiated Emission (Electric Field Strength of Fundamental and Spurious Emission)

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

COMPANY : OMRON CORPORATION
EQUIPMENT : FOB
MODEL : G8D-625M-A
S/N : WK0003
POWER : DC 3.0V
Mode : Continuous Transmitting
Axis : Hor.: X-axis , Ver.: Z-axis
(fundamental) **QP DETECT**

REPORT NO : 26GE0263-HO
REGULATION : Fcc Part15 Subpart C 231(b) / 205
TEST DISTANCE : 3m
DATE : 4/11/2006
TEMPERATURE : 25 deg.C.
HUMIDITY : 52 %
ENGINEER : Norihisa Hashimoto

No.	FREQ [MHz]	T/R READING : QP HOR VER [dBuV]		ANT Factor [dB/m]	AMP GAIN [dB]	LOSS [dB]		RESULT HOR VER [dBuV/m]		Limit [dBuV/m]	MARGIN HOR VER [dB]	
1	314.97	73.9	69.9	14.7	27.2	8.6		70.0	66.0	75.6	5.6	9.6

(below 1GHz) **QP DETECT**

No.	FREQ [MHz]	T/R READING : QP HOR VER [dBuV]		ANT Factor [dB/m]	AMP GAIN [dB]	LOSS [dB]		RESULT HOR VER [dBuV/m]		Limit [dBuV/m]	MARGIN HOR VER [dB]	
2	629.93	28.2	27.5	19.6	28.7	9.5		28.6	27.9	46.0	17.4	18.1
3	946.11	30.3	28.7	22.3	27.7	10.5		35.4	33.8	46.0	10.6	12.2

(above 1GHz)

PK DETECT (RBW: 1MHz , VBW: 1MHz)

(Inside Restricted bands (PK))

No.	FREQ [MHz]	S/A READING HOR VER [dBuV]		ANT Factor [dB/m]	AMP GAIN [dB]	LOSS [dB]	Duty Factor [dB]	RESULT HOR VER [dBuV/m]		Limit [dBuV/m]	MARGIN HOR VER [dB]	
4	1260.15	51.3	52.8	23.5	33.4	2.6		44.0	45.5	75.6	31.6	30.1
5	1575.18	48.9	46.3	25.3	32.9	2.8		44.1	41.5	74.0	29.9	32.5
6	1890.21	48.4	47.2	29.9	32.4	3.0		48.9	47.7	75.6	26.7	27.9
7	2205.22	49.2	51.6	30.9	32.4	3.2		50.9	53.3	74.0	23.1	20.7
8	2520.14	51.4	49.3	30.5	32.4	3.5		53.0	50.9	75.6	22.6	24.7
9	2835.36	56.2	55.1	31.4	32.2	3.6		59.0	57.9	74.0	15.0	16.1
10	3150.45	48.4	47.7	31.7	32.1	3.8		51.8	51.1	75.6	23.8	24.5

AV MEASUREMENT Result = Reading (RBW: 1MHz , VBW: 1MHz) + Duty Factor

No.	FREQ [MHz]	S/A READING HOR VER [dBuV]		ANT Factor [dB/m]	AMP GAIN [dB]	LOSS [dB]	Duty Factor [dB]	RESULT HOR VER [dBuV/m]		Limit [dBuV/m]	MARGIN HOR VER [dB]	
4	1260.15	51.3	52.8	23.5	33.4	2.6	-8.7	35.3	36.8	55.6	20.3	18.8
5	1575.18	48.9	46.3	25.3	32.9	2.8	-8.7	35.4	32.8	54.0	18.6	21.2
6	1890.21	48.4	47.2	29.9	32.4	3.0	-8.7	40.2	39.0	55.6	15.4	16.6
7	2205.22	49.2	51.6	30.9	32.4	3.2	-8.7	42.2	44.6	54.0	11.8	9.4
8	2520.14	51.4	49.3	30.5	32.4	3.5	-8.7	44.3	42.2	55.6	11.3	13.4
9	2835.36	56.2	55.1	31.4	32.2	3.6	-8.7	50.3	49.2	54.0	3.7	4.8
10	3150.45	48.4	47.7	31.7	32.1	3.8	-8.7	43.1	42.4	55.6	12.5	13.2

REMARKS

ANTENNA TYPE:30-300MHz Biconical / 300-1000MHz Logperiodic / 1-3.2GHz Horn

CALCULATION RESULT=Reading + ANT Factor - Amp Gain + LOSS (Cable+ ATTEN.)+Duty factor

Duty cycle Factor Measurement : The duty cycle factor = 20 log (On time[sec.] / 1 cycle time[sec.]) :-8.7dB

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

The carrier level (or, noise levels) was (or were) measured at each position of all three axes X, Y and Z,
and the position that has the maximum noise was determined. With the position, the noise levels of all the frequencies was measured.
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-20dB Bandwidth

Head Office EMC Lab. No.2 Semi Anechoic Chamber

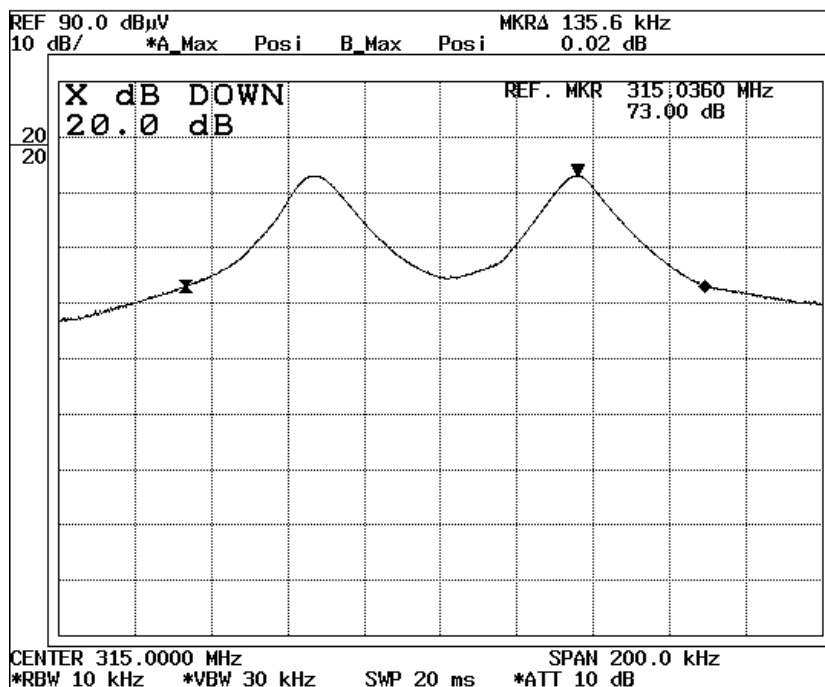
COMPANY : OMRON CORPORATION
EQUIPMENT : FOB
MODEL : G8D-625M-A
S/N : WK0003
POWER : DC 3.0V
Mode : Transmitting

REPORT NO : 26GE0263-HO
REGULATION : Fcc Part15 Subpart C 231(c)
TEST DISTANCE : 3m
DATE : 4/11/2006
TEMPERATURE : 25 deg.C.
HUMIDITY : 52 %

ENGINEER : Norihisa Hashimoto

Bandwidth Limit : Fundamental Frequency 315.04 MHz X 0.25% = 787.6 kHz

-20dB Bandwidth	Bandwidth Limit	Result	Margin
[kHz]	[kHz]		[kHz]
135.60	787.60	Pass	652.00



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Test report No. : 26GE0263-HO-A-1
Page : 14 of 16
Issued date : June 1, 2006
Revised date : June 13, 2006
FCC ID : OUCG8D-625M-A

Automatically deactivate

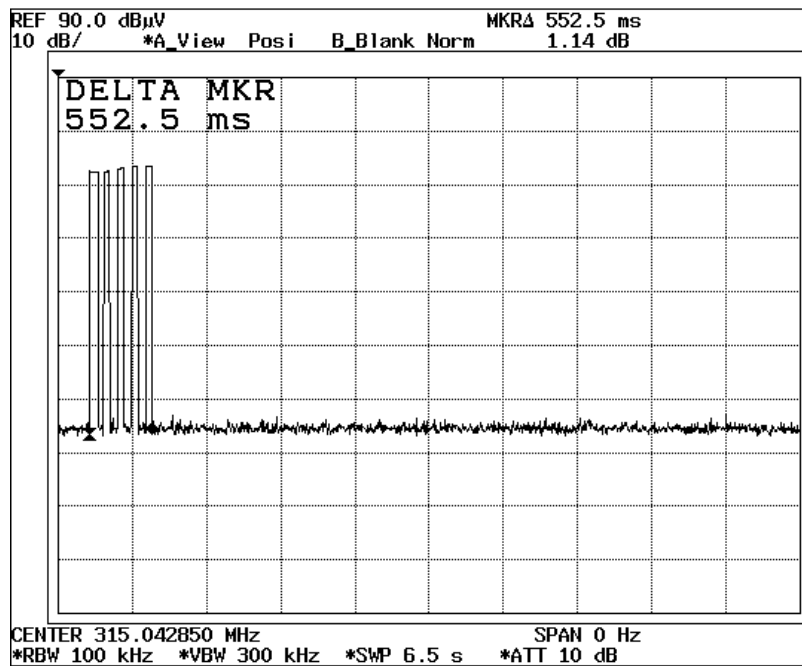
UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

COMPANY : OMRON CORPORATION
EQUIPMENT : FOB
MODEL : G8D-625M-A
S/N : WK0003
POWER : DC 3.0V
Mode : Transmitting

REPORT NO : 26GE0263-HO
REGULATION : Fcc Part15 Subpart C 231(a)
TEST DISTANCE : 3m
DATE : 4/11/2006
TEMPERATURE : 25 deg.C.
HUMIDITY : 52 %

ENGINEER : Norihisa Hashimoto

Time of Transmitting [sec]	Limit [sec]	Result	Margin [sec]
0.55	5.00	Pass	4.45



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99% Occupied Bandwidth

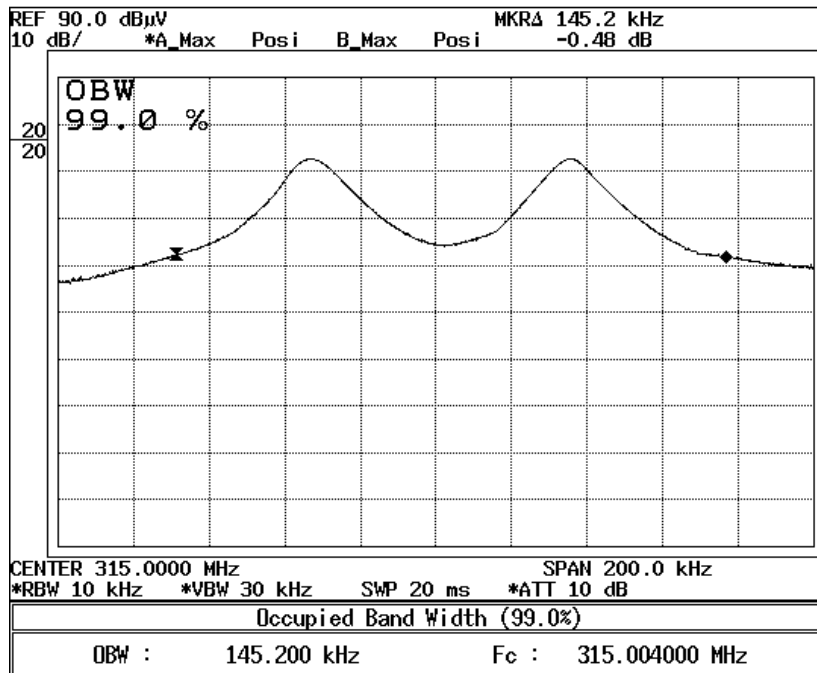
UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

COMPANY : OMRON CORPORATION
EQUIPMENT : FOB
MODEL : G8D-625M-A
S/N : WK0003
POWER : DC 3.0V
Mode : Transmitting

REPORT NO : 26GE0263-HO
REGULATION : RSS-210 A1.1.3
TEST DISTANCE : 3m
DATE : 4/11/2006
TEMPERATURE : 25 deg.C.
HUMIDITY : 52 %

ENGINEER : Norihisa Hashimoto

99% Occupied Bandwidth (RSS-210 A1.1.3)



* 99% Occupied Bandwidth : 145.20 kHz

Duty Cycle

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

COMPANY : OMRON CORPORATION
EQUIPMENT : FOB
MODEL : G8D-625M-A
S/N : WK0003
POWER : DC 3.0V
Mode : Transmitting

REPORT NO : 26GE0263-HO
REGULATION : Fcc Part15 Subpart C 231(b) / 205 / 209
TEST DISTANCE : 3m
DATE : 4/11/2006
TEMPERATURE : 25 deg.C.
HUMIDITY : 52 %
ENGINEER : Norihisa Hashimoto

Time of Transmitting [ms]	1 cycle time [ms]	Duty cycle	Duty Factor [dB]
45.50	124.00	0.37	-8.71

