

**APPENDIX 2: Data of EMI test**

**Radiated Emission**

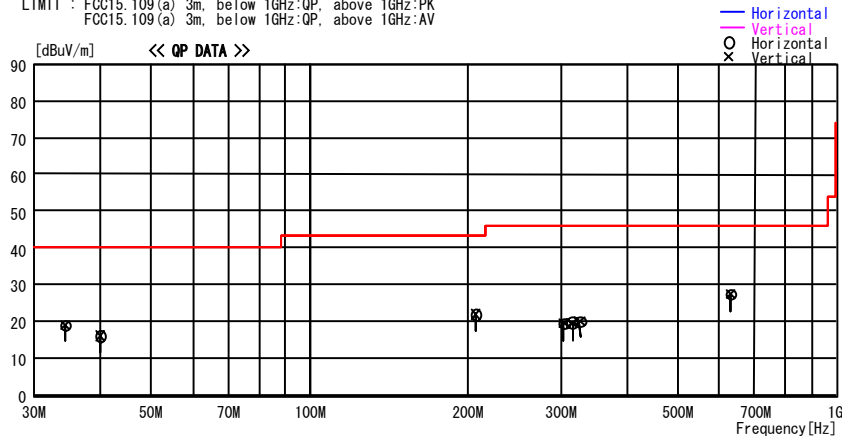
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2007/08/04

Company : OMRON Corporation  
Kind of EUT : Receiver and Antenna Module  
Model No. : G8D-640M-RAM-NBR  
Serial No. : 9100  
Report No. : 27LE0315-H0  
Power : DC 12.0V (5.0V)  
Temp./Humi. : 25deg. C. / 62%  
Operator : Shinya Watanabe

Mode / Remarks : 315MHz Receiving, X-Axis

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK  
FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna Factor	Loss & Gain	Level	Angle	Height	Polar.	Limit	Margin
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
34.329	22.8	QP	17.1	-20.8	19.1	0	100	Hori.	40.0	20.9
34.329	22.8	QP	17.1	-20.8	19.1	0	100	Vert.	40.0	20.9
40.000	22.9	QP	13.8	-20.6	16.1	0	100	Hori.	40.0	23.9
40.000	22.9	QP	13.8	-20.6	16.1	0	100	Vert.	40.0	23.9
206.392	22.2	QP	17.4	-17.7	21.9	0	100	Hori.	43.5	21.6
206.392	22.2	QP	17.4	-17.7	21.9	0	100	Vert.	43.5	21.6
304.300	21.9	QP	14.3	-16.7	19.5	0	100	Hori.	46.0	26.5
304.300	21.8	QP	14.3	-16.7	19.4	0	100	Vert.	46.0	26.6
315.000	21.9	QP	14.5	-16.7	19.7	0	100	Hori.	46.0	26.3
315.000	21.8	QP	14.5	-16.7	19.6	0	100	Vert.	46.0	26.4
325.700	22.1	QP	14.7	-16.6	20.2	0	100	Hori.	46.0	25.9
325.700	22.1	QP	14.7	-16.6	20.2	0	100	Vert.	46.0	25.8
630.000	23.0	QP	19.8	-15.4	27.4	0	100	Hori.	46.0	18.6
630.000	23.0	QP	19.8	-15.4	27.4	0	100	Vert.	46.0	18.6

CHART: WITH FACTOR ANT TYPE: -30MHz: LOOP, 30-300MHz: BICONICAL, 300MHz-1000MHz: LOGPERIODIC, 1000MHz-: HORN  
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

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## Radiated Emission

### DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2007/08/03

Company : OMRON Corporation  
 Kind of EUT : Receiver and Antenna Module  
 Model No. : G8D-640M-RAM-NBR  
 Serial No. : 9100

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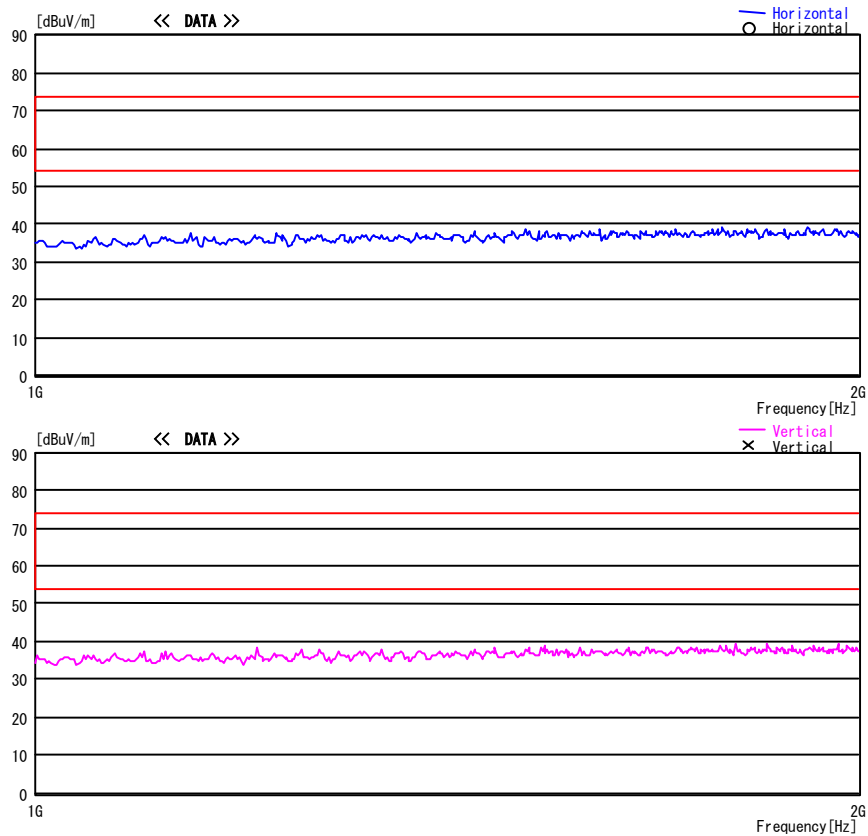


CHART: WITH FACTOR ANT TYPE: -30MHz: LOOP, 30-300MHz: BICONICAL, 300MHz-1000MHz: LOGPERIODIC, 1000MHz-: HORN  
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

\*The noise was not detected above 1GHz.

### APPENDIX 3: Test instruments

#### EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE	2006/11/01 * 12
MOS-01	Digital Humidity Indicator	N.T	NT-1800	RE	2006/11/27 * 12
MJM-01	Measure	KDS	ES19-55	RE	-
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE	-
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE	2006/10/14 * 12
MHA-05	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/01/30 * 12
MCC-15	Microwave Cable 1G-26.5GHz 1m	Suhner	SUCOFLEX 104	RE	2007/02/22 * 12
MCC-18	Microwave Cable 1G-26.5GHz 5m	Suhner	SUCOFLEX 104	RE	2007/02/22 * 12
MPA-01	Pre Amplifier	Agilent	8449B	RE	2007/02/15 * 12
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/10/07 * 12
MLA-09	Logperiodic Antenna	Schwarzbeck	USLP9143B	RE	2007/01/19 * 12
MCC-01	Coaxial Cable 0.1-3000MHz	Suhner/storm/Agilent /TSJ	-	RE	2007/02/27 * 12
MPA-04	Pre Amplifier	Agilent	8447D	RE	2007/07/11 * 12
MAT-06	Attenuator(6dB)	Weinschel Corp	2	RE	2006/12/27 * 12
MCB-02	Car Battery	YUASA	40B19L	RE	Pre Check

The expiration date of the calibration is the end of the expired month.

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

Test Item:

RE: Radiated emission

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