

APPENDIX 2: Data of EMI test

Radiated Emission

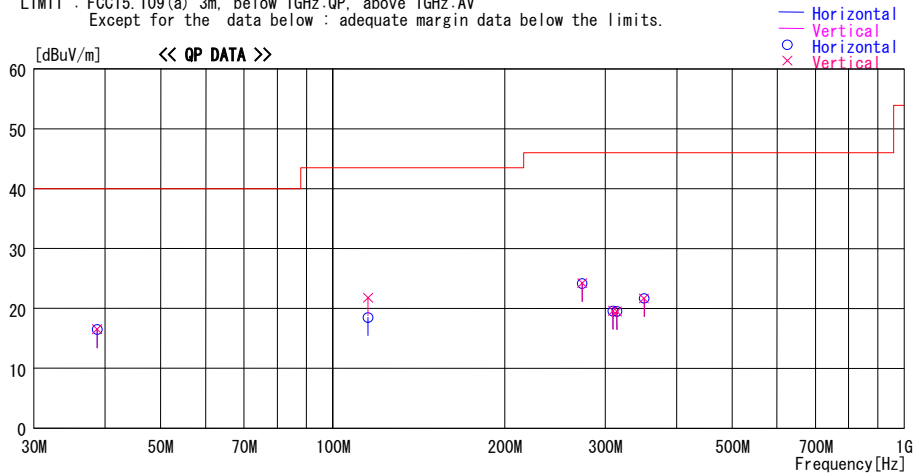
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2008/02/05

Company : DENSO CORPORATION
Kind of EUT : Remote Keyless Entry System (Receiver)
Model No. : 13CZG
Serial No. : 1
Report No. : 28FE0186-HO
Power : DC 5V
Temp./Humi. : 24deg.C. / 31%
Operator : Kenichi Adachi

Mode / Remarks : Receiving (312.15MHz), EUT-Worst-axis: X-axis

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss& Gain [dB]						
38.706	23.2	QP	14.2	-20.9	16.5	0	400	Hori.	40.0	23.5
38.706	23.2	QP	14.2	-20.9	16.5	0	100	Vert.	40.0	23.5
115.331	26.4	QP	11.4	-19.3	18.5	270	289	Hori.	43.5	25.0
115.331	29.7	QP	11.4	-19.3	21.8	159	100	Vert.	43.5	21.7
273.444	22.7	QP	18.5	-17.0	24.2	0	400	Hori.	46.0	21.8
273.444	22.7	QP	18.5	-17.0	24.2	0	100	Vert.	46.0	21.8
309.650	22.6	QP	13.8	-16.8	19.6	0	100	Hori.	46.0	26.4
309.650	22.6	QP	13.8	-16.8	19.6	0	100	Vert.	46.0	26.4
314.650	22.2	QP	14.0	-16.7	19.5	0	100	Hori.	46.0	26.5
314.650	22.2	QP	14.0	-16.7	19.5	0	100	Vert.	46.0	26.5
350.856	23.1	QP	15.2	-16.6	21.7	0	100	Hori.	46.0	24.3
350.856	23.1	QP	15.2	-16.6	21.7	0	100	Vert.	46.0	24.3

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 test result is rounded off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
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

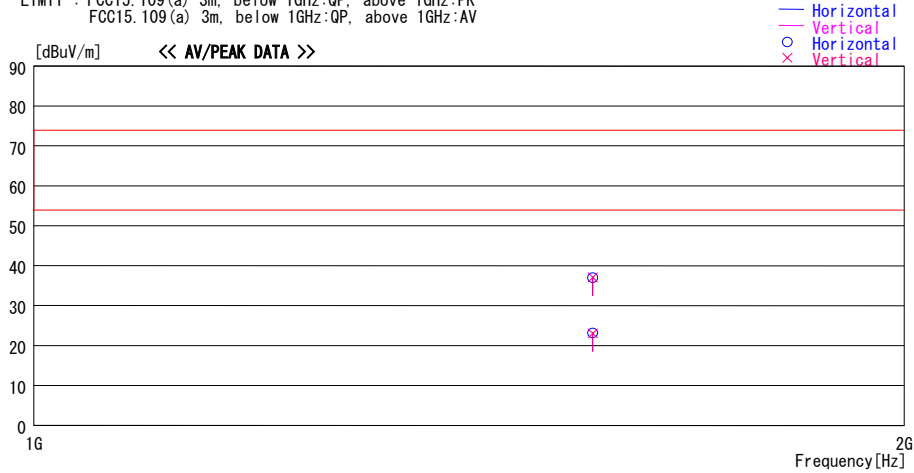
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LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK
 FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss & Gain [dB]						
1560.750	46.5	PK	25.2	-34.7	37.0	359	100	Hor. i.	73.9	36.9
1560.750	32.7	AV	25.2	-34.7	23.2	359	100	Hor. i.	53.9	30.7
1560.750	46.6	PK	25.2	-34.7	37.1	359	100	Vert.	73.9	36.8
1560.750	32.6	AV	25.2	-34.7	23.1	359	100	Vert.	53.9	30.8

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)

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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	2007/11/23 * 12
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE	2007/10/19 * 12
MCC-01	Coaxial Cable 0.1-3000MHz	Suhner/storm/Agilent t/TSJ	-	RE	2007/12/27 * 12
MPA-04	Pre Amplifier	Agilent	8447D	RE	2007/07/11 * 12
MAT-06	Attenuator(6dB)	Weinschel Corp	2	RE	2007/11/14 * 12
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	RE	2007/10/21 * 12
MLA-09	Logperiodic Antenna	Schwarzbeck	USLP9143B	RE	2008/01/12 * 12
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE	-
MOS-01	Digital Humidity Indicator	N.T	NT-1800	RE	2007/11/12 * 12
MJM-01	Measure	KDS	ES19-55	RE	-
MCC-76	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX10 4	RE	2007/12/26 * 12
MPA-01	Pre Amplifier	Agilent	8449B	RE	2007/02/15 * 12
MCC-18	Microwave Cable 1G-26.5GHz 5m	Suhner	SUCOFLEX 104	RE	2007/02/22 * 12
MHA-05	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2008/01/19 * 12
MDPS-04	DC Power Supply	KENWOOD TMI	PW18-1.3AT	RE	Pre Check
MMM-03	Digital Tester	Fluke	FLUKE 26-3	RE	2007/08/21 * 12

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.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

Test Item:

RE: Radiated emission

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