

APPENDIX 2: Data of EMI test

Radiated Emission

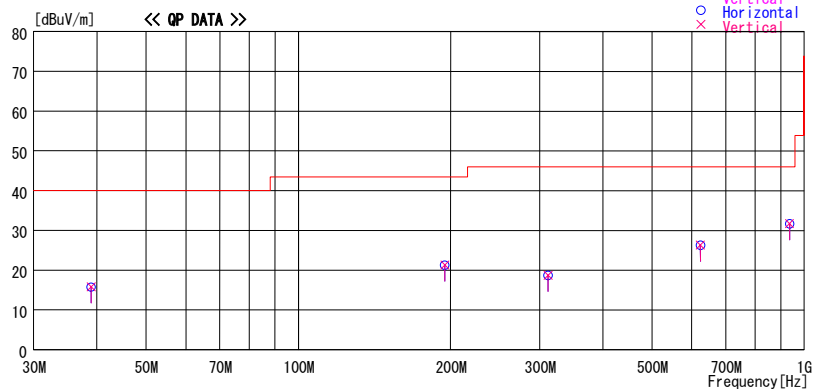
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2008/02/14

Company : DENSO CORPORATION Report No. : 28FE0163-HO-01
Kind of EUT : Remote Keyless Entry System (Receiver) Power : DC5.0V
Model No. : 13CZF Temp./Humi. : 21deg.C. / 25%
Serial No. : 3 Operator : Kazufumi Nakai

Mode / Remarks: Rx 314.35MHz Worst-axis Hor:X-axis Ver:X-axis

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



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB]	Gain [dB]							
38.981	22.7	QP	14.0	-20.9	15.8	0	300	Hori.	40.0	24.2	
38.981	22.7	QP	14.0	-20.9	15.8	0	100	Vert.	40.0	24.2	
194.906	22.8	QP	16.5	-18.0	21.3	0	300	Hori.	43.5	22.2	
194.906	22.8	QP	16.5	-18.0	21.3	0	100	Vert.	43.5	22.2	
311.850	21.5	QP	13.9	-16.7	18.7	0	100	Hori.	46.0	27.3	
311.850	21.5	QP	13.9	-16.7	18.7	0	100	Vert.	46.0	27.3	
623.700	22.6	QP	19.3	-15.6	26.3	0	100	Hori.	46.0	19.7	
623.700	22.6	QP	19.3	-15.6	26.3	0	100	Vert.	46.0	19.7	
935.550	22.5	QP	22.3	-13.1	31.7	0	100	Hori.	46.0	14.3	
935.550	22.5	QP	22.3	-13.1	31.7	6	100	Vert.	46.0	14.3	

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 limit is rounded down to one decimal place.
*The test result is rounded off to one or two decimal places, so some differences might be observed.

Radiated Emission

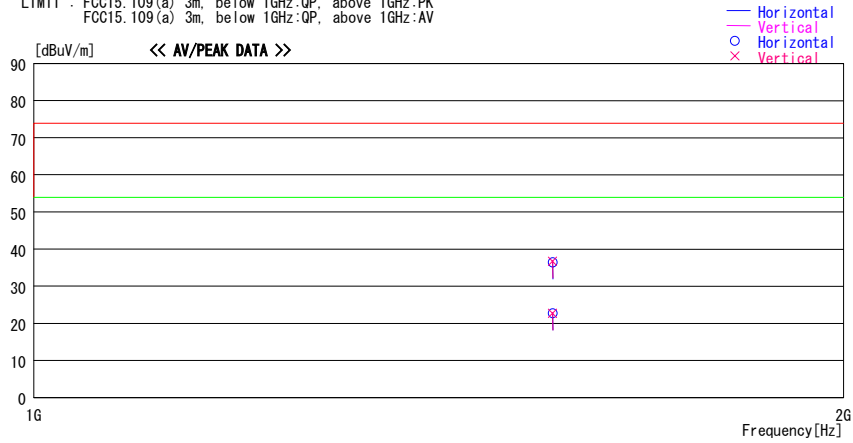
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Mode / Remarks : Rx 314.35MHz Worst-axis Hor:X-axis Ver:X-axis

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]	Comment
			Factor [dB/m]	Gain [dB]							
1559.250	45.6	PK	25.2	-34.3	36.5	359	100	Hori.	73.9	-37.4	
1559.250	45.8	PK	25.2	-34.3	36.7	359	100	Vert.	73.9	-37.2	
1559.250	31.8	AV	25.2	-34.3	22.7	359	100	Hori.	53.9	-31.2	
1559.250	31.8	AV	25.2	-34.3	22.7	359	100	Vert.	53.9	-31.2	

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

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

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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