

DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 281E0089-YK-A-R1

Applicant : DENSO CORPORATION
Kind of Equipment : Remote Keyless Entry System
Model No. : 13CZE
Serial No. : 13CZE-001
Power : DC5V
Mode : Receiving
Remarks : AXIS: Z
Date : 4/14/2008
Test Distance : 3 m
Temperature : 20 °C
Humidity : 59 %
Regulation : FCC Part15B § 15.109(a)

Engineer : Yasumasa Owaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	55.45	BB	25.7	29.3	9.0	27.8	1.3	6.0	14.2	17.8	40.0	25.8	22.2	
2.	60.83	BB	24.8	29.7	7.8	27.8	1.3	6.0	12.1	17.0	40.0	27.9	23.0	
3.	160.02	BB	23.5	26.9	15.2	27.6	2.3	6.0	19.4	22.8	43.5	24.1	20.7	
4.	312.15	BB	20.3	20.4	14.9	27.6	3.4	6.0	17.0	17.1	46.0	29.0	28.9	
5.	624.30	BB	21.3	21.3	20.1	29.4	5.3	6.0	23.3	23.3	46.0	22.7	22.7	
6.	936.45	BB	21.3	21.3	22.6	29.1	6.4	6.1	27.3	27.3	46.0	18.7	18.7	

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz
■ CABLE: KCC-A2/A3 ■ PREAMP: KAF-03 (8447D) ■ EMI RECEIVER: KTR-04 (ES140)

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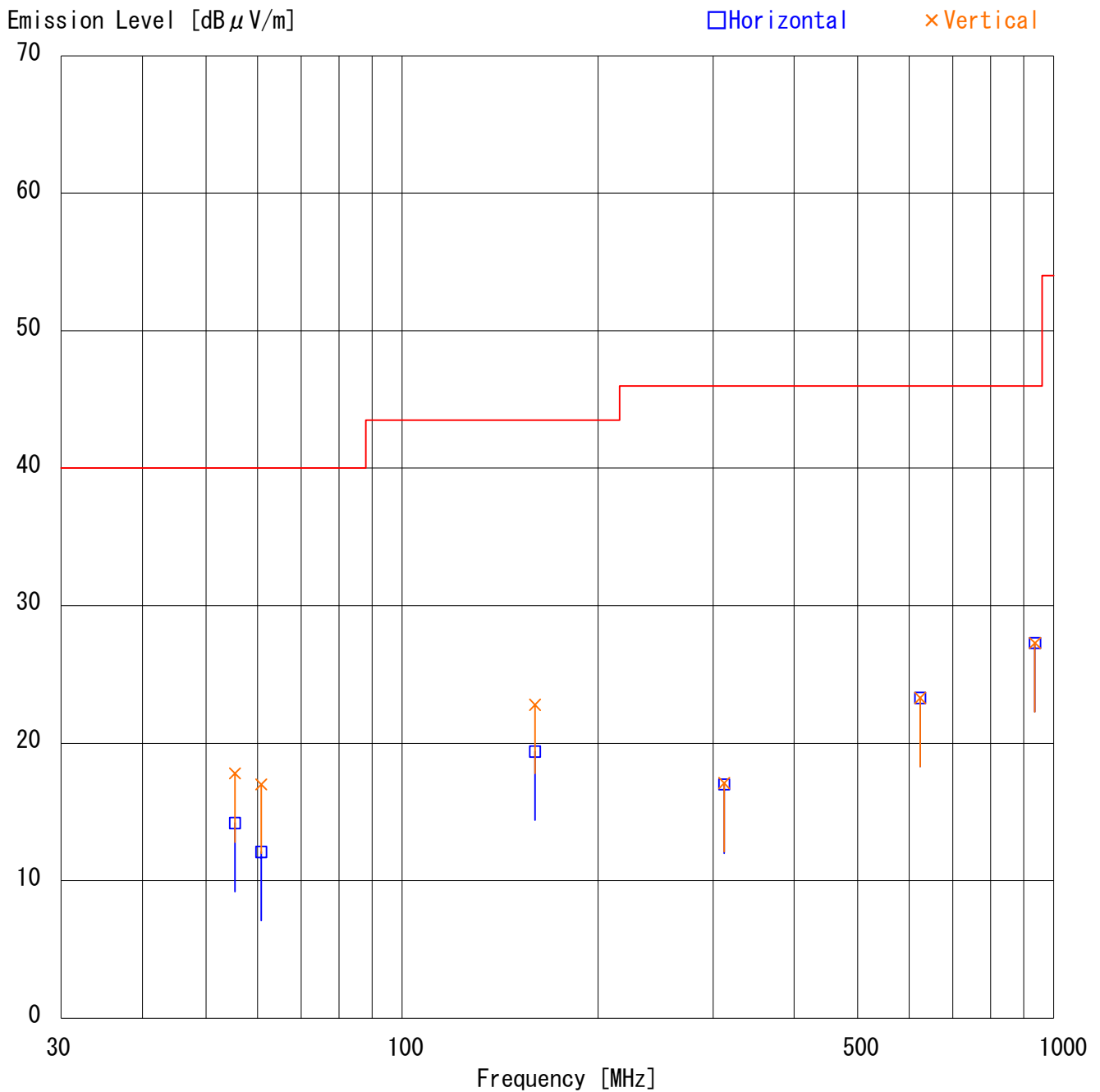
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Applicant : DENSO CORPORATION
Kind of Equipment : Remote Keyless Entry System
Model No. : 13CZE
Serial No. : 13CZE-001
Power : DC5V
Mode : Receiving
Remarks : AXIS: Z, PK: RBW=1MHz/ VBW=1MHz
Date : 4/15/2008
Test Distance : 3 m
Temperature : 22 °C Engineer : Yasumasa Owaki
Humidity : 55 %
Regulation : FCC Part15B CLASS B (PK)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	1248.60	BB	45.0	44.7	25.3	35.9	3.5	0.0	37.9	37.6	74.0	36.1	36.4	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA: KHA-02 (1-18GHz)

■ AMP: KAF-04 (8449B) ■ SPECTRUM ANALYZER: KSA-04 ■ CABLE: KCC-D14/D15

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Applicant : DENSO CORPORATION
Kind of Equipment : Remote Keyless Entry System
Model No. : 13CZE
Serial No. : 13CZE-001
Power : DC5V
Mode : Receiving
Remarks : AXIS: Z, AV: RBW=1MHz/ VBW=10Hz
Date : 4/15/2008
Test Distance : 3 m
Temperature : 22 °C Engineer : Yasumasa Owaki
Humidity : 55 %
Regulation : FCC Part15B § 15. 109 (a)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]	HOR [dB]	VER [dB]		
1.	1248.60	BB	32.6	32.6	25.3	35.9	3.5	0.0	25.5	25.5	54.0	28.5	28.5	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA: KHA-02 (1-18GHz)

■ AMP: KAF-04 (8449B) ■ SPECTRUM ANALYZER: KSA-04 ■ CABLE: KCC-D14/D15

**APPENDIX 3
Test Instruments**

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
YA-RE	Radiated emission(software)	UL Japan	RE(Ver.1.5)	RE	-
KAEC-01(NSA)	Anechoic Chamber	JSE	Semi 3m	RE	2007/08/26 * 12
KBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2007/12/27 * 12
KAF-03	Pre Amplifier	Hewlett Packard	8447D	RE	2007/09/26 * 12
KAT6-01	Attenuator	INMET	18N-6dB	RE	2008/03/17 * 12
KBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2007/12/27 * 12
KCC-A2/A3	Coaxial Cable	Fujikura	5D-2W	RE	2007/05/15 * 12
KLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2007/12/27 * 12
KSA-04	Spectrum Analyzer	Advantest	R3271A	RE	2007/09/25 * 12
KTR-04	Test Receiver	Rohde & Schwarz	ESVS10	RE	2007/10/30 * 12
KOS-02	Humidity Indicator	Custom	CTH-190	RE	2006/07/10 * 24
KJM-07	Measure	KOMELON	KMC-36	RE	-
KAF-04	Pre Amplifier	Agilent	8449B	RE	2008/04/11 * 12
KCC-D14/D15	Coaxial cable	Suhner	SUCOFLEX 104	RE	2007/12/10 * 12
KHA-02	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2008/04/23 * 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 .

Test Item :

RE: Radiated emission

*Some calibrations were performed after the tested dates , however those EMI test equipment have been controlled by means of an unbroken chains of calibrations .