

APPENDIX 2: Data of EMI test

Radiated Emission below 30MHz (Fundamental and Spurious Emission)
Antenna A(Full)

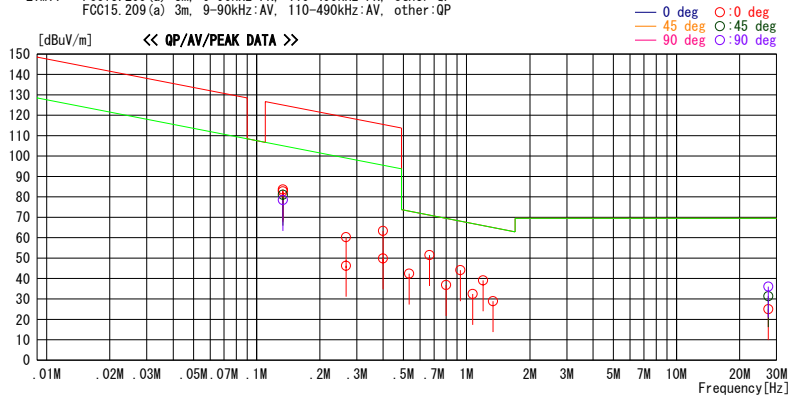
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
Model No. : SKE11A-03(Antenna A) Temp./ Humi. : 26 deg.C. / 62 %
Serial No. : 20080624-01 Operator : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz(Full), ANT:X-axis, ECU:X-axis

LIMIT : FCC15.209(a) 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP
FCC15.209(a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP



Freq.	Reading	DET	Ant. Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]		[deg]	
0.13333	94.7	AV	20.3	0.1	32.3	82.8	105.1	22.3	Odeg		177
0.13333	95.6	PEAK	20.3	0.1	32.3	83.7	125.0	41.3	Odeg		worst
0.13333	93.0	PEAK	20.3	0.1	32.3	81.1	125.0	43.9	45deg		143
0.13333	90.4	PEAK	20.3	0.1	32.3	78.5	125.0	46.5	90deg		91
0.26670	58.0	AV	20.2	0.2	32.2	46.2	99.1	52.9	Odeg		165
0.26670	72.1	PEAK	20.2	0.2	32.2	60.3	119.1	58.8	Odeg		165
0.40000	61.6	AV	20.2	0.2	32.2	49.8	95.6	45.8	Odeg		182
0.40000	75.1	PEAK	20.2	0.2	32.2	63.3	115.6	52.3	Odeg		182
0.53332	54.3	QP	20.2	0.2	32.2	42.5	73.1	30.6	Odeg		359
0.66666	63.4	QP	20.1	0.2	32.2	51.5	71.1	19.6	Odeg		178
0.79993	48.8	QP	20.1	0.2	32.2	36.9	69.5	32.6	Odeg		359
0.93333	56.0	QP	20.1	0.2	32.2	44.1	68.2	24.1	Odeg		186
1.06667	44.4	QP	20.1	0.2	32.2	32.5	67.0	34.5	Odeg		359
1.19997	50.9	QP	20.1	0.3	32.2	39.1	66.0	26.9	Odeg		183
1.33333	40.8	QP	20.1	0.3	32.2	29.0	65.0	36.0	Odeg		359
27.33260	46.2	QP	21.0	1.0	32.2	36.0	69.5	33.5	90deg		160
27.33260	41.6	QP	21.0	1.0	32.2	31.4	69.5	38.1	45deg		246
27.33260	35.3	QP	21.0	1.0	32.2	25.0	69.5	44.5	Odeg		119

CHART: WITH FACTOR, ANT TYPE: LOOP, Except for the data below: adequate margin data below the limits.
CALCULATION: RESULT[dBuV] = READING[dBuV] + ANT FACTOR[dB] + LOSS[dB] (CABLE + ATTN. - AMP.)

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

Radiated Emission below 30MHz (Fundamental and Spurious Emission)
Antenna A(Half)

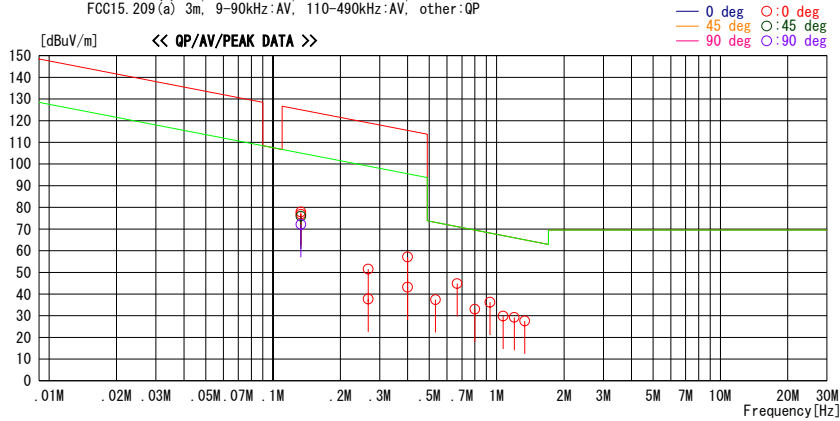
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
 Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
 Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
 Model No. : SKE11A-03 (Antenna A) Temp./ Humi. : 26 deg.C. / 62 %
 Serial No. : 20080624-01 Operator : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz (Half), ANT:X-axis, ECU:X-axis

LIMIT : FCC15.209(a) 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP
 FCC15.209(a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP



Freq.	Reading	DET	Ant. Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]		[deg]	
0.13333	89.8	PEAK	20.3	0.1	32.3	77.9	125.0	47.1	0deg	189	worst
0.13333	87.9	PEAK	20.3	0.1	32.3	76.0	125.0	49.0	45deg	154	
0.13333	84.1	PEAK	20.3	0.1	32.3	72.2	125.0	52.8	90deg	100	
0.13333	88.8	AV	20.3	0.1	32.3	76.9	105.1	28.2	0deg	189	
0.26670	63.4	PEAK	20.2	0.2	32.2	51.6	119.1	67.5	0deg	359	
0.26670	49.5	AV	20.2	0.2	32.2	37.7	99.1	61.4	0deg	359	
0.40000	55.0	AV	20.2	0.2	32.2	43.2	95.6	52.4	0deg	179	
0.40000	68.9	PEAK	20.2	0.2	32.2	57.1	115.6	58.5	0deg	179	
0.53332	49.3	QP	20.2	0.2	32.2	37.4	73.1	35.6	0deg	359	
0.66666	56.8	QP	20.1	0.2	32.2	44.9	71.1	26.2	0deg	184	
0.79993	44.9	QP	20.1	0.2	32.2	33.0	69.5	36.5	0deg	359	
0.93333	48.1	QP	20.1	0.2	32.2	36.2	68.2	32.0	0deg	182	
1.06667	41.8	QP	20.1	0.2	32.2	29.9	67.0	37.1	0deg	359	
1.19997	41.1	QP	20.1	0.3	32.2	29.3	66.0	36.7	0deg	166	
1.33333	39.4	QP	20.1	0.3	32.2	27.6	65.0	37.4	0deg	359	

CHART: WITH FACTOR, ANT TYPE: LOOP, Except for the data below: adequate margin data below the limits.
 CALCULATION: RESULT[dBuV] = READING[dBuV] + ANT FACTOR[dB] + LOSS[dB] (CABLE + ATTEN. - AMP.)

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

Radiated Emission below 30MHz (Fundamental and Spurious Emission)
Antenna B (Full)

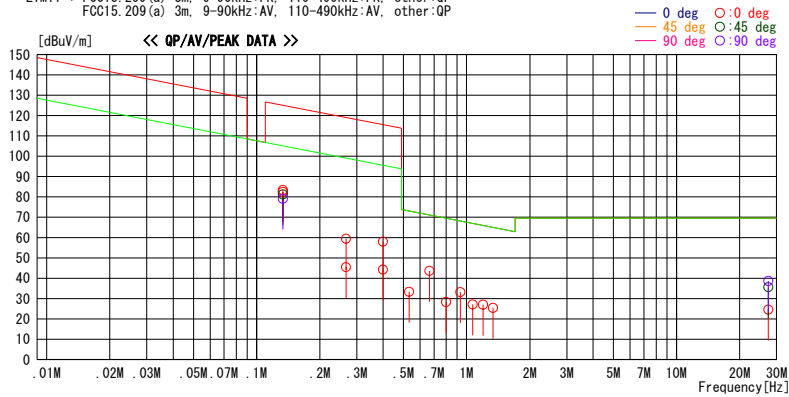
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
Model No. : SKE11A-03(Antenna B) Temp./ Humi. : 26 deg.C. / 62 %
Serial No. : 20080624-01 Operator : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz(Full), ANT:Z-axis, ECU:X-axis

LIMIT : FCC15.209(a) 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP
FCC15.209(a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP



Freq.	Reading	DET	Ant. Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
[MHz]	[dBUV]		[dB/m]	[dB]	[dB]	[dBUV/m]	[dBUV/m]	[dB]	[deg]	[deg]	
0.13333	91.0	PEAK	20.3	0.1	32.3	79.1	125.0	45.9	90deg	88	
0.13333	93.1	PEAK	20.3	0.1	32.3	81.2	125.0	43.8	45deg	359	
0.13333	95.3	PEAK	20.3	0.1	32.3	83.4	125.0	41.6	0deg	5	worst
0.13333	94.3	AV	20.3	0.1	32.3	82.4	105.1	22.7	0deg	5	
0.26670	71.2	PEAK	20.2	0.2	32.2	59.4	119.1	59.7	0deg	359	
0.26670	57.2	AV	20.2	0.2	32.2	45.4	99.1	53.7	0deg	359	
0.40000	69.9	PEAK	20.2	0.2	32.2	58.1	115.6	57.5	0deg	359	
0.40000	56.1	AV	20.2	0.2	32.2	44.3	95.6	51.3	0deg	359	
0.53332	45.2	QP	20.2	0.2	32.2	33.4	73.1	39.7	0deg	359	
0.66666	55.5	QP	20.1	0.2	32.2	43.6	71.1	27.5	0deg	359	
0.79993	40.3	QP	20.1	0.2	32.2	28.4	69.5	41.1	0deg	179	
0.93333	45.1	QP	20.1	0.2	32.2	33.2	68.2	35.0	0deg	359	
1.06667	39.1	QP	20.1	0.2	32.2	27.2	67.0	39.8	0deg	182	
1.19997	38.8	QP	20.1	0.3	32.2	27.0	66.0	39.0	0deg	359	
1.33333	37.3	QP	20.1	0.3	32.2	25.5	65.0	39.5	0deg	174	
27.33360	48.8	QP	21.0	1.0	32.2	38.6	69.5	30.9	90deg	359	
27.33360	45.9	QP	21.0	1.0	32.2	35.7	69.5	33.8	45deg	359	
27.33360	34.7	QP	21.0	1.0	32.2	24.5	69.5	45.0	0deg	359	

CHART: WITH FACTOR, ANT TYPE: LOOP, Except for the data below: adequate margin data below the limits.
CALCULATION : RESULT[dBUV] = READING[dBUV] + ANT FACTOR[dB] + LOSS[dB] (CABLE + ATTEN. - AMP.)

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

Radiated Emission below 30MHz (Fundamental and Spurious Emission)
Antenna B(Half)

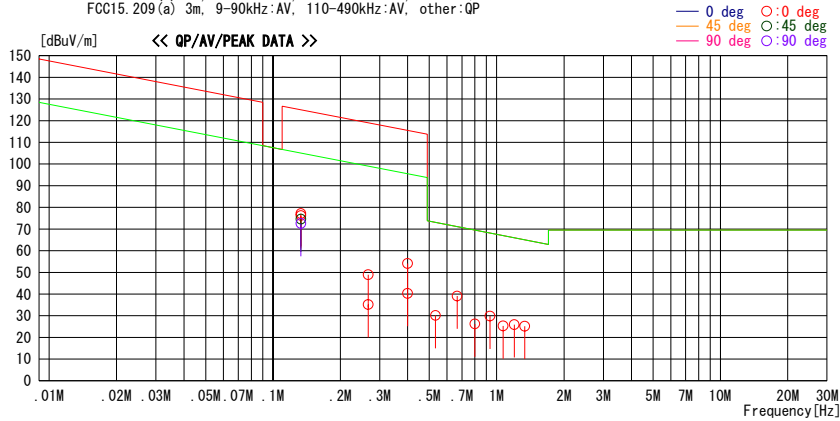
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
Model No. : SKE11A-03 (Antenna B) Temp./ Humi. : 26 deg.C. / 62 %
Serial No. : 20080624-01 Operator : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz (Half), ANT:Z-axis, ECU:X-axis

LIMIT : FCC15.209(a) 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP
FCC15.209(a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP



Freq.	Reading	DET	Ant. Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]		[deg]	
0.13333	86.4	PEAK	20.3	0.1	32.3	74.5	125.0	50.5	45deg	145	worst
0.13333	89.1	PEAK	20.3	0.1	32.3	77.2	125.0	47.8	0deg	359	
0.13333	84.5	PEAK	20.3	0.1	32.3	72.6	125.0	52.4	90deg	270	
0.13333	88.2	AV	20.3	0.1	32.3	76.3	105.1	28.8	0deg	359	
0.26670	60.8	PEAK	20.2	0.2	32.2	49.0	119.1	70.1	0deg	359	
0.26670	47.0	AV	20.2	0.2	32.2	35.2	99.1	63.9	0deg	359	
0.40000	65.9	PEAK	20.2	0.2	32.2	54.1	115.6	61.5	0deg	359	
0.40000	52.1	AV	20.2	0.2	32.2	40.3	95.6	55.3	0deg	359	
0.53332	41.9	QP	20.2	0.2	32.2	30.1	73.1	43.0	0deg	359	
0.66666	51.0	QP	20.1	0.2	32.2	39.1	71.1	32.0	0deg	359	
0.79993	38.2	QP	20.1	0.2	32.2	26.3	69.5	43.2	0deg	175	
0.93333	41.7	QP	20.1	0.2	32.2	29.8	68.2	38.4	0deg	359	
1.06666	37.2	QP	20.1	0.2	32.2	25.3	67.0	41.7	0deg	188	
1.19997	37.8	QP	20.1	0.3	32.2	26.0	66.0	40.0	0deg	359	
1.33333	36.9	QP	20.1	0.3	32.2	25.1	65.0	39.9	0deg	359	

CHART : WITH FACTOR , ANT TYPE: LOOP , Except for the data below : adequate margin data below the limits.
CALCULATION : RESULT[dBuV] = READING[dBuV] + ANT FACTOR[dB] + LOSS[dB] (CABLE + ATTEN. - AMP.)

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

Radiated Emission below 30MHz (Fundamental and Spurious Emission)
Antenna C(Full)

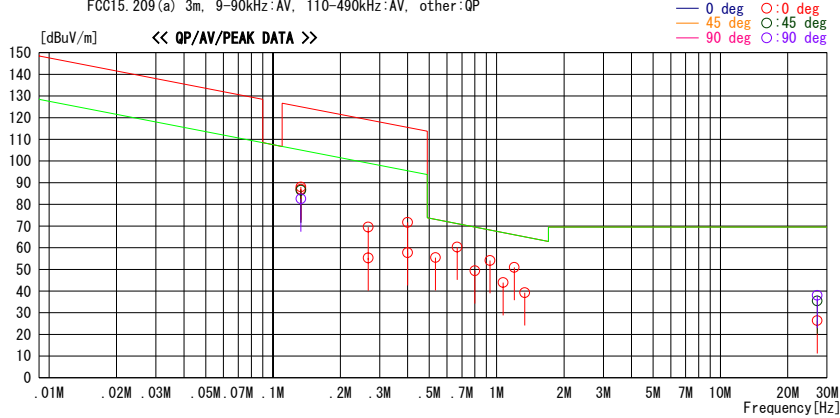
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
Model No. : SKE11A-03(Antenna C) Temp./ Humi. : 26 deg.C. / 62 %
Serial No. : 20080624-01 Operator : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz(Full), ANT:X-axis, ECU:X-axis

LIMIT : FCC15.209(a) 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP
FCC15.209(a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP



Freq.	Reading	DET	Ant. Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]		[deg]	
0.13333	99.9	PEAK	20.3	0.1	32.3	88.0	125.0	37.0	0deg	359	worst
0.13333	98.5	PEAK	20.3	0.1	32.3	86.6	125.0	38.4	45deg	332	
0.13333	94.5	PEAK	20.3	0.1	32.3	82.6	125.0	42.4	90deg	85	
0.13333	99.0	AV	20.3	0.1	32.3	87.0	105.1	18.1	0deg	359	
0.26670	81.3	PEAK	20.2	0.2	32.2	69.5	119.1	49.6	0deg	359	
0.26670	67.1	AV	20.2	0.2	32.2	55.3	99.1	43.8	0deg	359	
0.40000	69.5	AV	20.2	0.2	32.2	57.7	95.6	37.9	0deg	359	
0.40000	83.5	PEAK	20.2	0.2	32.2	71.7	115.6	43.9	0deg	359	
0.53332	67.2	QP	20.2	0.2	32.2	55.4	73.1	17.7	0deg	359	
0.66666	72.2	QP	20.1	0.2	32.2	60.3	71.1	10.8	0deg	359	
0.79993	61.3	QP	20.1	0.2	32.2	49.4	69.5	20.1	0deg	359	
0.93333	66.0	QP	20.1	0.2	32.2	54.1	68.2	14.1	0deg	359	
1.06667	55.9	QP	20.1	0.2	32.2	44.0	67.0	23.0	0deg	359	
1.19997	62.7	QP	20.1	0.3	32.2	50.9	66.0	15.1	0deg	359	
1.33333	51.0	QP	20.1	0.3	32.2	39.2	65.0	25.8	0deg	359	
27.06710	36.6	QP	21.0	1.0	32.2	26.4	69.5	43.1	0deg	100	
27.06710	48.2	QP	21.0	1.0	32.2	38.0	69.5	31.5	90deg	143	
27.06710	45.6	QP	21.0	1.0	32.2	35.4	69.5	34.1	45deg	225	

CHART: WITH FACTOR, ANT TYPE: LOOP, Except for the data below: adequate margin data below the limits.
CALCULATION: RESULT[dBuV] = READING[dBuV] + ANT FACTOR[dB] + LOSS[dB] (CABLE + ATTEN. - AMP.)

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

Radiated Emission below 30MHz (Fundamental and Spurious Emission)
Antenna C(Half)

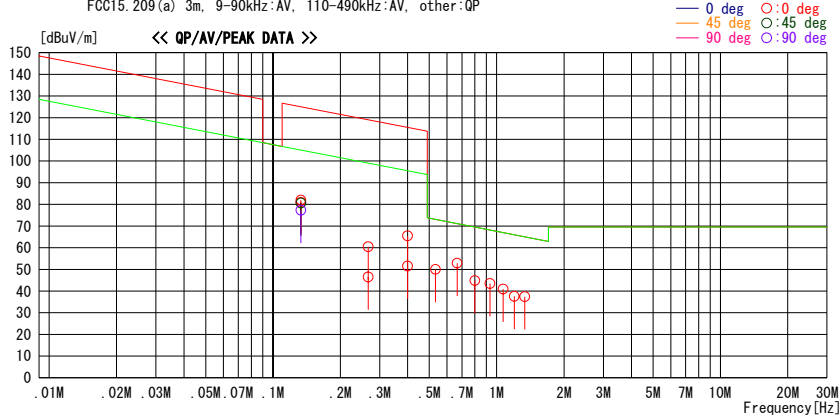
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
 Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
 Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
 Model No. : SKE11A-03(Antenna C) Temp./ Humi. : 26 deg.C. / 62 %
 Serial No. : 20080624-01 Operator : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz(Half), ANT:X-axis, ECU:X-axis

LIMIT : FCC15.209(a) 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP
 FCC15.209(a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP



Freq.	Reading	DET	Ant. Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]		[deg]	
0.13333	93.9	PEAK	20.3	0.1	32.3	82.0	125.0	43.0	0deg	359	worst
0.13333	89.2	PEAK	20.3	0.1	32.3	77.3	125.0	47.7	90deg	298	
0.13333	92.5	PEAK	20.3	0.1	32.3	80.5	125.0	44.5	45deg	331	
0.13333	92.9	AV	20.3	0.1	32.3	81.0	105.1	24.1	0deg	359	
0.26670	72.3	PEAK	20.2	0.2	32.2	60.5	119.1	58.6	0deg	359	
0.26670	58.3	AV	20.2	0.2	32.2	46.5	99.1	52.6	0deg	359	
0.40000	77.3	PEAK	20.2	0.2	32.2	65.5	115.6	50.1	0deg	359	
0.40000	63.3	AV	20.2	0.2	32.2	51.5	95.6	44.1	0deg	359	
0.53332	61.8	QP	20.2	0.2	32.2	50.0	73.1	23.1	0deg	359	
0.66666	64.8	QP	20.1	0.2	32.2	52.9	71.1	18.2	0deg	359	
0.79993	56.8	QP	20.1	0.2	32.2	44.9	69.5	24.6	0deg	359	
0.93333	55.3	QP	20.1	0.2	32.2	43.4	68.2	24.8	0deg	359	
1.06667	52.9	QP	20.1	0.2	32.2	41.0	67.0	26.0	0deg	359	
1.19997	49.3	QP	20.1	0.3	32.2	37.5	66.0	28.5	0deg	359	
1.33333	49.2	QP	20.1	0.3	32.2	37.4	65.0	27.6	0deg	359	

CHART : WITH FACTOR, ANT TYPE: LOOP, Except for the data below : adequate margin data below the limits.
 CALCULATION : RESULT[dBuV] = READING[dBuV] + ANT FACTOR[dB] + LOSS[dB] (CABLE + ATTEN. - AMP.)

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

Radiated Emission below 30MHz (Fundamental and Spurious Emission)
Antenna D (Full)

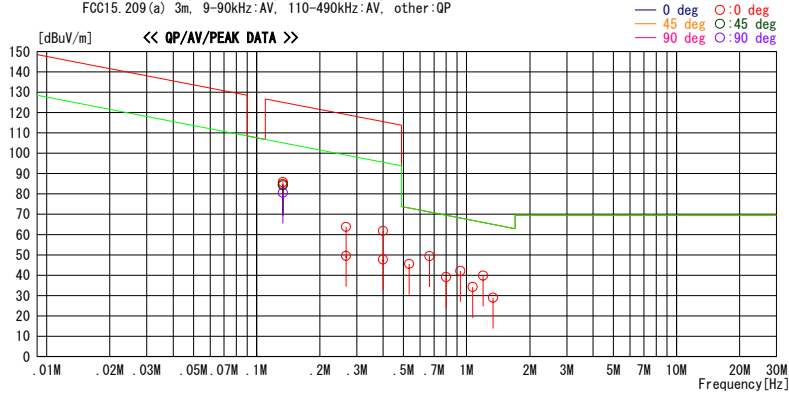
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
 Date : 2008/07/10

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
 Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
 Model No. : SKE11A-03(Antenna D) Temp./Humi. : 26 deg.C. / 62 %
 Serial No. : 20080624-01 Operator : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz(Full), ANT:Z-axis, ECU:X-axis

LIMIT : FCC15.209(a) 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP
 FCC15.209(a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP



Freq.	Reading	DET	Ant. Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]		[deg]	
0.13333	97.7	PEAK	20.3	0.1	32.3	85.8	125.0	39.2	0deg		272 worst
0.13333	92.6	PEAK	20.3	0.1	32.3	80.7	125.0	44.3	90deg		196
0.13333	96.1	PEAK	20.3	0.1	32.3	84.2	125.0	40.8	45deg		250
0.13333	96.7	AV	20.3	0.1	32.3	84.8	105.1	20.3	0deg		272
0.26670	75.6	PEAK	20.2	0.2	32.2	63.8	119.1	55.3	0deg		271
0.26670	61.4	AV	20.2	0.2	32.2	49.6	99.1	49.5	0deg		271
0.40000	73.6	PEAK	20.2	0.2	32.2	61.8	115.6	53.8	0deg		263
0.40000	59.6	AV	20.2	0.2	32.2	47.8	95.6	47.8	0deg		263
0.53332	57.5	QP	20.2	0.2	32.2	45.7	73.1	27.4	0deg		265
0.66666	61.3	QP	20.1	0.2	32.2	49.4	71.1	21.7	0deg		259
0.79993	51.0	QP	20.1	0.2	32.2	39.1	69.5	30.4	0deg		276
0.93333	54.1	QP	20.1	0.2	32.2	42.2	68.2	26.0	0deg		250
1.06667	46.1	QP	20.1	0.2	32.2	34.2	67.0	32.8	0deg		276
1.19997	51.6	QP	20.1	0.3	32.2	39.8	66.0	26.2	0deg		275
1.33333	40.8	QP	20.1	0.3	32.2	29.0	65.0	36.0	0deg		283

CHART: WITH FACTOR, ANT TYPE: LOOP, Except for the data below: adequate margin data below the limits.
 CALCULATION : RESULT[dBuV] = READING[dBuV] + ANT FACTOR[dB] + LOSS[dB] (CABLE + ATTEN. - AMP.)

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

Radiated Emission below 30MHz (Fundamental and Spurious Emission)
Antenna D (Half)

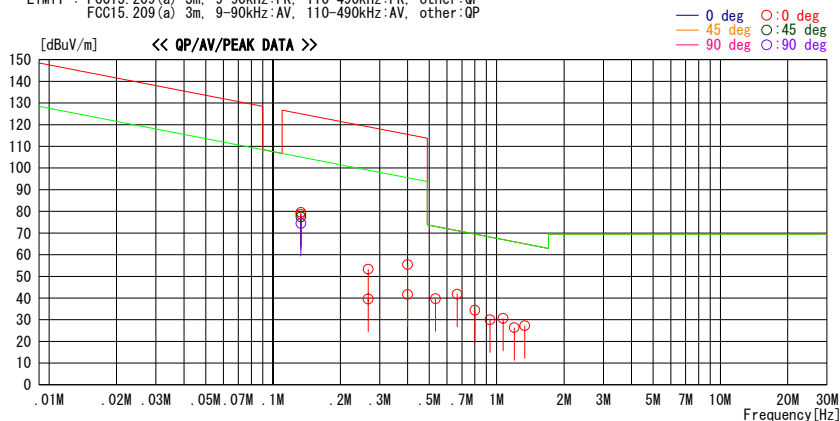
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2008/07/10

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
Model No. : SKE11A-03 (Antenna D) Temp./ Humi. : 26 deg.C. / 62 %
Serial No. : 20080624-01 Operator : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz (Half), ANT:Z-axis, ECU:X-axis

LIMIT : FCC15.209(a) 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP
FCC15.209(a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP



Freq.	Reading	DET	Ant. Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]		[deg]	
0.13333	91.4	PEAK	20.3	0.1	32.3	79.5	125.0	45.5	0deg	271	worst
0.13333	89.4	PEAK	20.3	0.1	32.3	77.5	125.0	47.5	45deg	255	
0.13333	90.5	AV	20.3	0.1	32.3	78.6	105.1	26.5	0deg	271	
0.13333	86.3	PEAK	20.3	0.1	32.3	74.4	125.0	50.6	90deg	175	
0.26670	65.2	PEAK	20.2	0.2	32.2	53.4	119.1	65.7	0deg	271	
0.26670	51.4	AV	20.2	0.2	32.2	39.6	99.1	59.5	0deg	271	
0.40000	67.3	PEAK	20.2	0.2	32.2	55.5	115.6	60.1	0deg	260	
0.40000	53.5	AV	20.2	0.2	32.2	41.7	95.6	53.9	0deg	260	
0.53332	51.5	QP	20.2	0.2	32.2	39.7	73.1	33.4	0deg	269	
0.66666	53.8	QP	20.1	0.2	32.2	41.9	71.1	29.2	0deg	267	
0.79993	46.3	QP	20.1	0.2	32.2	34.4	69.5	35.1	0deg	263	
0.93333	41.9	QP	20.1	0.2	32.2	30.0	68.2	38.2	0deg	260	
1.06667	42.5	QP	20.1	0.2	32.2	30.6	67.0	36.4	0deg	257	
1.19997	38.2	QP	20.1	0.3	32.2	26.4	66.0	39.6	0deg	247	
1.33333	39.1	QP	20.1	0.3	32.2	27.3	65.0	37.7	0deg	284	

CHART: WITH FACTOR, ANT TYPE: LOOP, Except for the data below: adequate margin data below the limits.
CALCULATION: RESULT[dBuV] = READING[dBuV] + ANT FACTOR[dB] + LOSS[dB] (CABLE + ATTEN. - AMP.)

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

Radiated Emission below 30MHz (Fundamental and Spurious Emission)
Antenna E(Full)

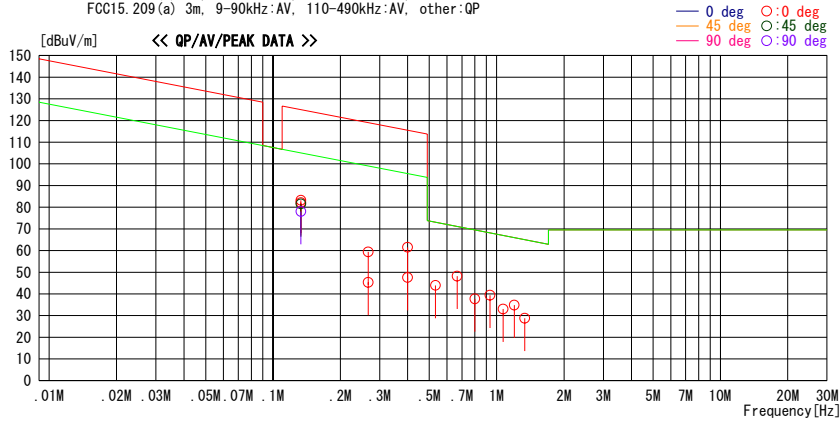
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/07/10

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
Model No. : SKE11A-03(Antenna E) Temp./ Humi. : 26 deg.C. / 56 %
Serial No. : 20080624-01 Operator : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz(Full), ANT:Z-axis, ECU:X-axis

LIMIT : FCC15.209(a) 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP
FCC15.209(a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP



Freq.	Reading	DET	Ant. Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[deg]	[deg]	
0.13333	95.1	PEAK	20.3	0.1	32.3	83.2	125.0	41.8	0deg	270	worst
0.13333	90.0	PEAK	20.3	0.1	32.3	78.1	125.0	46.9	90deg	180	
0.13333	94.1	AV	20.3	0.1	32.3	82.2	105.1	22.9	0deg	270	
0.13333	93.4	PEAK	20.3	0.1	32.3	81.5	125.0	43.5	45deg	231	
0.26670	57.1	AV	20.2	0.2	32.2	45.3	99.1	53.8	0deg	269	
0.26670	71.2	PEAK	20.2	0.2	32.2	59.4	119.1	59.7	0deg	269	
0.40000	73.3	PEAK	20.2	0.2	32.2	61.5	115.6	54.1	0deg	268	
0.40000	59.4	AV	20.2	0.2	32.2	47.6	95.6	48.0	0deg	268	
0.53332	55.7	QP	20.2	0.2	32.2	43.9	73.1	29.2	0deg	269	
0.66666	60.1	QP	20.1	0.2	32.2	48.2	71.1	22.9	0deg	264	
0.79993	49.6	QP	20.1	0.2	32.2	37.7	69.5	31.8	0deg	271	
0.93333	51.3	QP	20.1	0.2	32.2	39.4	68.2	28.8	0deg	269	
1.06667	45.0	QP	20.1	0.2	32.2	33.1	67.0	33.9	0deg	272	
1.19997	46.7	QP	20.1	0.3	32.2	34.9	66.0	31.1	0deg	275	
1.33333	40.6	QP	20.1	0.3	32.2	28.8	65.0	36.2	0deg	269	

CHART: WITH FACTOR, ANT TYPE: LOOP. Except for the data below: adequate margin data below the limits.
CALCULATION: RESULT[dBuV] = READING[dBuV] + ANT FACTOR[dB] + LOSS[dB] (CABLE + ATTEN. - AMP.)

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

Radiated Emission below 30MHz (Fundamental and Spurious Emission)
Antenna E(Half)

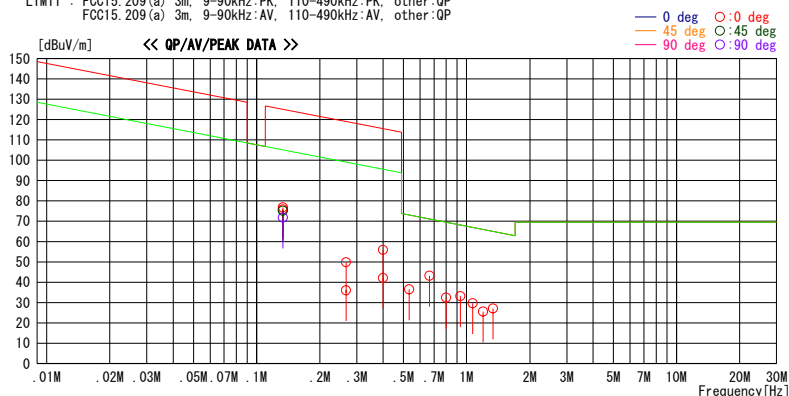
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/07/10

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
Model No. : SKE11A-03(Antenna E) Temp./ Humi. : 26 deg.C. / 56 %
Serial No. : 20080624-01 Operator : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz (Half), ANT:Z-axis, ECU:X-axis

LIMIT : FCC15.209(a) 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP
FCC15.209(a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP



Freq.	Reading	DET	Ant. Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dBuV/m]	[dB]	[dB]	[deg]	[deg]	
0.13333	83.8	PEAK	20.3	0.1	32.3	71.9	125.0	53.1	90deg	359	
0.13333	87.0	PEAK	20.3	0.1	32.3	75.1	125.0	49.9	45deg	243	
0.13333	88.7	PEAK	20.3	0.1	32.3	76.8	125.0	48.2	0deg	273	worst
0.13333	87.7	AV	20.3	0.1	32.3	75.8	105.1	29.3	0deg	273	
0.26670	61.6	PEAK	20.2	0.2	32.2	49.8	119.1	69.3	0deg	267	
0.26670	47.9	AV	20.2	0.2	32.2	36.1	99.1	63.0	0deg	267	
0.40000	67.7	PEAK	20.2	0.2	32.2	55.9	115.6	59.7	0deg	273	
0.40000	53.9	AV	20.2	0.2	32.2	42.1	95.6	53.5	0deg	273	
0.53332	48.4	QP	20.2	0.2	32.2	36.6	73.1	36.5	0deg	271	
0.66666	55.1	QP	20.1	0.2	32.2	43.2	71.1	27.9	0deg	268	
0.79993	44.4	QP	20.1	0.2	32.2	32.5	69.5	37.0	0deg	271	
0.93333	45.2	QP	20.1	0.2	32.2	33.3	68.2	34.9	0deg	270	
1.06667	41.6	QP	20.1	0.2	32.2	29.7	67.0	37.3	0deg	272	
1.19997	37.4	QP	20.1	0.3	32.2	25.6	66.0	40.4	0deg	270	
1.33333	38.9	QP	20.1	0.3	32.2	27.1	65.0	37.9	0deg	269	

CHART: WITH FACTOR, ANT TYPE: LOOP, Except for the data below: adequate margin data below the limits.
CALCULATION : RESULT[dBuV] = READING[dBuV] + ANT FACTOR[dB] + LOSS[dB] (CABLE + ATTN. - AMP.)

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

Radiated Emission below 30MHz (Fundamental and Spurious Emission)
Antenna F (Full)

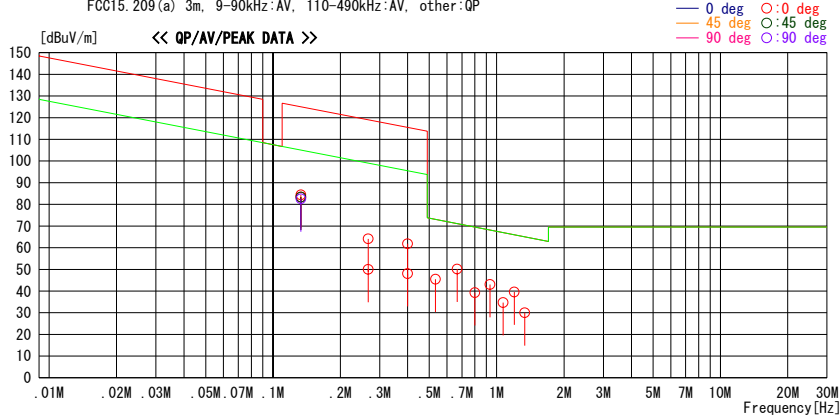
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
 Date : 2008/07/10

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
 Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
 Model No. : SKE11A-03 (Antenna F) Temp./ Humi. : 26 deg.C. / 56 %
 Serial No. : 20080624-01 Operator : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz(Full), ANT:Z-axis, ECU:X-axis

LIMIT : FCC15.209(a) 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP
 FCC15.209(a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP



Freq.	Reading	DET	Ant. Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[deg]	[deg]	
0.13333	96.3	PEAK	20.3	0.1	32.3	84.4	125.0	40.6	0deg	223	worst
0.13333	95.2	PEAK	20.3	0.1	32.3	83.3	125.0	41.7	45deg	297	
0.13333	94.5	PEAK	20.3	0.1	32.3	82.6	125.0	42.4	90deg	275	
0.13333	95.3	AV	20.3	0.1	32.3	83.4	105.1	21.7	0deg	223	
0.26670	75.9	PEAK	20.2	0.2	32.2	64.1	119.1	55.0	0deg	272	
0.26670	61.8	AV	20.2	0.2	32.2	50.0	99.1	49.1	0deg	272	
0.40000	73.7	PEAK	20.2	0.2	32.2	61.9	115.6	53.7	0deg	271	
0.40000	59.8	AV	20.2	0.2	32.2	48.0	95.6	47.6	0deg	271	
0.53332	57.3	QP	20.2	0.2	32.2	45.5	73.1	27.6	0deg	272	
0.66666	62.1	QP	20.1	0.2	32.2	50.2	71.1	20.9	0deg	270	
0.79993	51.2	QP	20.1	0.2	32.2	39.3	69.5	30.2	0deg	273	
0.93333	55.0	QP	20.1	0.2	32.2	43.1	68.2	25.1	0deg	268	
1.06667	46.6	QP	20.1	0.2	32.2	34.7	67.0	32.3	0deg	274	
1.19997	51.4	QP	20.1	0.3	32.2	39.6	66.0	26.4	0deg	270	
1.33333	41.8	QP	20.1	0.3	32.2	30.0	65.0	35.0	0deg	271	

CHART: WITH FACTOR, ANT TYPE: LOOP, Except for the data below: adequate margin data below the limits.
 CALCULATION: RESULT[dBuV] = READING[dBuV] + ANT FACTOR[dB] + LOSS[dB] (CABLE + ATTEN. - AMP.)

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

Radiated Emission below 30MHz (Fundamental and Spurious Emission)
Antenna F (Half)

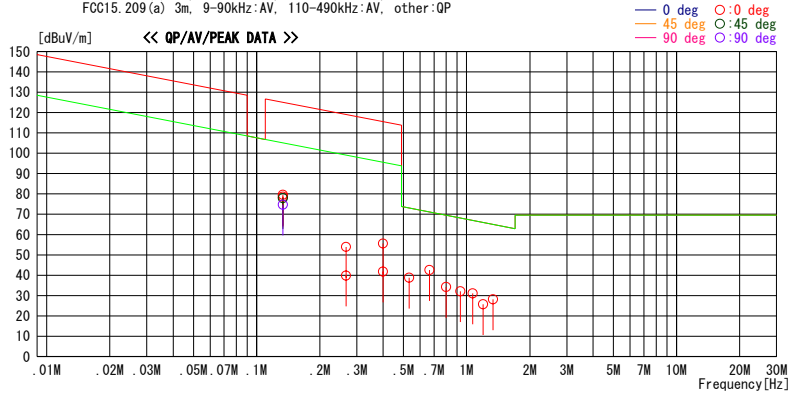
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
 Date : 2008/07/10

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
 Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
 Model No. : SKE11A-03(Antenna F) Temp./ Humi. : 26 deg.C. / 56 %
 Serial No. : 20080624-01 Operator : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz(Half), ANT:Z-axis, ECU:X-axis

LIMIT : FCC15.209(a) 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP
 FCC15.209(a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP



Freq.	Reading	DET	Ant. Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[deg]	[deg]	
0.13333	89.8	PEAK	20.3	0.1	32.3	77.9	125.0	47.1	45deg	233	
0.13333	86.6	PEAK	20.3	0.1	32.3	74.7	125.0	50.3	90deg	359	
0.13333	91.5	PEAK	20.3	0.1	32.3	79.6	125.0	45.4	0deg	271	worst
0.13333	90.6	AV	20.3	0.1	32.3	78.7	105.1	26.4	0deg	271	
0.26670	65.8	PEAK	20.2	0.2	32.2	54.0	119.1	65.1	0deg	270	
0.26670	51.7	AV	20.2	0.2	32.2	39.9	99.1	59.2	0deg	270	
0.40000	67.5	PEAK	20.2	0.2	32.2	55.7	115.6	59.9	0deg	271	
0.40000	53.7	AV	20.2	0.2	32.2	41.9	95.6	53.7	0deg	271	
0.53332	50.6	QP	20.2	0.2	32.2	38.8	73.1	34.3	0deg	270	
0.66666	54.5	QP	20.1	0.2	32.2	42.6	71.1	28.5	0deg	269	
0.79993	46.2	QP	20.1	0.2	32.2	34.3	69.5	35.2	0deg	272	
0.93333	44.0	QP	20.1	0.2	32.2	32.1	68.2	36.1	0deg	265	
1.06667	43.0	QP	20.1	0.2	32.2	31.1	67.0	35.9	0deg	272	
1.19997	37.6	QP	20.1	0.3	32.2	25.8	66.0	40.2	0deg	270	
1.33333	40.0	QP	20.1	0.3	32.2	28.2	65.0	36.8	0deg	271	

CHART: WITH FACTOR, ANT TYPE: LOOP, Except for the data below: adequate margin data below the limits.
 CALCULATION : RESULT[dBuV] = READING[dBuV] + ANT FACTOR[dB] + LOSS[dB] (CABLE + ATTEN. - AMP.)

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

Radiated Emission below 30MHz (Fundamental and Spurious Emission) Antenna G (Full)

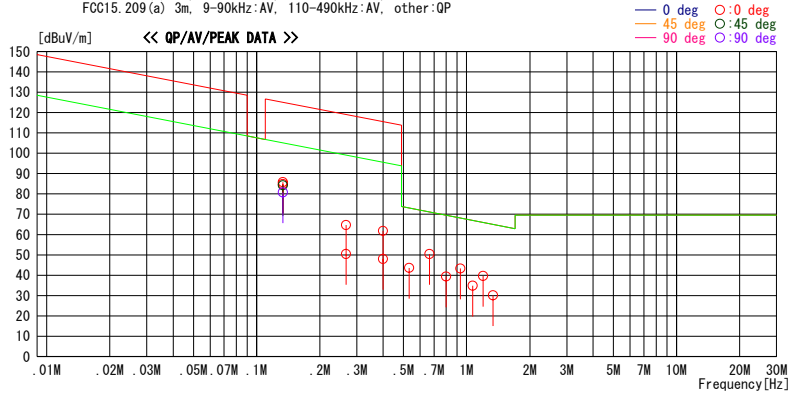
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/07/10

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
 Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
 Model No. : SKE11A-03(Antenna G) Temp./ Humi. : 26 deg.C. / 56 %
 Serial No. : 20080624-01 Operator : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz(Full), ANT:Z-axis, ECU:X-axis

LIMIT : FCC15.209(a) 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP
 FCC15.209(a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP



Freq.	Reading	DET	Ant. Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]		[deg]	
0.13333	92.7	PEAK	20.3	0.1	32.3	80.8	125.0	44.2	90deg	359	
0.13333	96.2	PEAK	20.3	0.1	32.3	84.3	125.0	40.7	45deg	236	
0.13333	97.7	PEAK	20.3	0.1	32.3	85.8	125.0	39.2	0deg	268	worst
0.13333	96.7	AV	20.3	0.1	32.3	84.8	105.1	20.3	0deg	268	
0.26670	76.5	PEAK	20.2	0.2	32.2	64.7	119.1	54.4	0deg	270	
0.26670	62.3	AV	20.2	0.2	32.2	50.5	99.1	48.6	0deg	270	
0.40000	73.7	PEAK	20.2	0.2	32.2	61.9	115.6	53.7	0deg	271	
0.40000	59.8	AV	20.2	0.2	32.2	48.0	95.6	47.6	0deg	271	
0.53332	55.5	QP	20.2	0.2	32.2	43.7	73.1	29.4	0deg	265	
0.66666	62.3	QP	20.1	0.2	32.2	50.4	71.1	20.7	0deg	268	
0.79993	51.3	QP	20.1	0.2	32.2	39.4	69.5	30.1	0deg	272	
0.93333	55.2	QP	20.1	0.2	32.2	43.3	68.2	24.9	0deg	270	
1.06667	46.7	QP	20.1	0.2	32.2	34.8	67.0	32.2	0deg	272	
1.19997	51.5	QP	20.1	0.3	32.2	39.7	66.0	26.3	0deg	271	
1.33333	41.9	QP	20.1	0.3	32.2	30.1	65.0	34.9	0deg	273	

CHART: WITH FACTOR, ANT TYPE: LOOP, Except for the data below: adequate margin data below the limits.
 CALCULATION : RESULT[dBuV] = READING[dBuV] + ANT FACTOR[dB] + LOSS[dB] (CABLE + ATTEN. - AMP.)

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

Radiated Emission below 30MHz (Fundamental and Spurious Emission) Antenna G (Half)

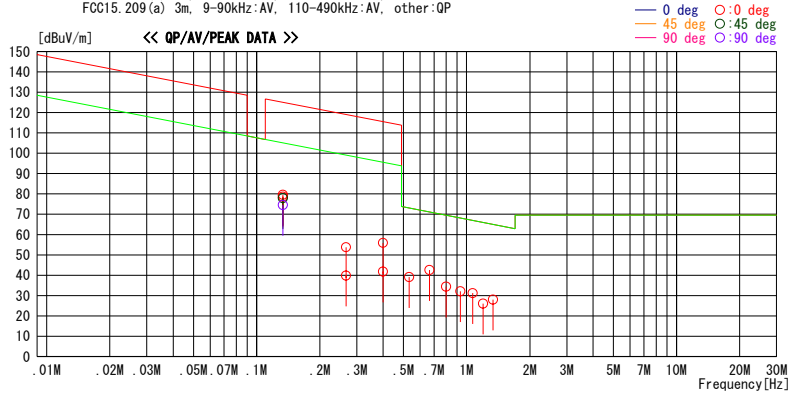
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/07/10

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
 Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
 Model No. : SKE11A-03(Antenna G) Temp./Humi. : 26 deg.C. / 56 %
 Serial No. : 20080624-01 Operator : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz(Half), ANT:Z-axis, ECU:X-axis

LIMIT : FCC15.209(a) 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP
 FCC15.209(a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP



Freq.	Reading	DET	Ant. Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]		[deg]	
0.13333	91.5	PEAK	20.3	0.1	32.3	79.6	125.0	45.4	0deg	271	worst
0.13333	89.8	PEAK	20.3	0.1	32.3	77.9	125.0	47.1	45deg	238	
0.13333	90.5	AV	20.3	0.1	32.3	78.6	105.1	26.5	0deg	271	
0.13350	86.5	PEAK	20.3	0.1	32.3	74.6	125.0	50.4	90deg	359	
0.26670	51.6	AV	20.2	0.2	32.2	39.8	99.1	59.3	0deg	270	
0.26670	65.6	PEAK	20.2	0.2	32.2	53.8	119.1	65.3	0deg	270	
0.40000	53.7	AV	20.2	0.2	32.2	41.9	95.6	53.7	0deg	271	
0.40000	67.7	PEAK	20.2	0.2	32.2	55.9	115.6	59.7	0deg	271	
0.53332	50.9	QP	20.2	0.2	32.2	39.1	73.1	34.0	0deg	272	
0.66666	54.5	QP	20.1	0.2	32.2	42.6	71.1	28.5	0deg	270	
0.79993	46.3	QP	20.1	0.2	32.2	34.4	69.5	35.1	0deg	269	
0.93333	44.0	QP	20.1	0.2	32.2	32.1	68.2	36.1	0deg	271	
1.06667	43.1	QP	20.1	0.2	32.2	31.2	67.0	35.8	0deg	270	
1.19997	37.9	QP	20.1	0.3	32.2	26.1	66.0	39.9	0deg	272	
1.33333	39.9	QP	20.1	0.3	32.2	28.1	65.0	36.9	0deg	268	

CHART: WITH FACTOR, ANT TYPE: LOOP, Except for the data below: adequate margin data below the limits.
 CALCULATION : RESULT[dBuV] = READING[dBuV] + ANT FACTOR[dB] + LOSS[dB] (CABLE + ATTN. - AMP.)

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

Radiated Emission above 30MHz (Spurious Emission)
Antenna A (Full)

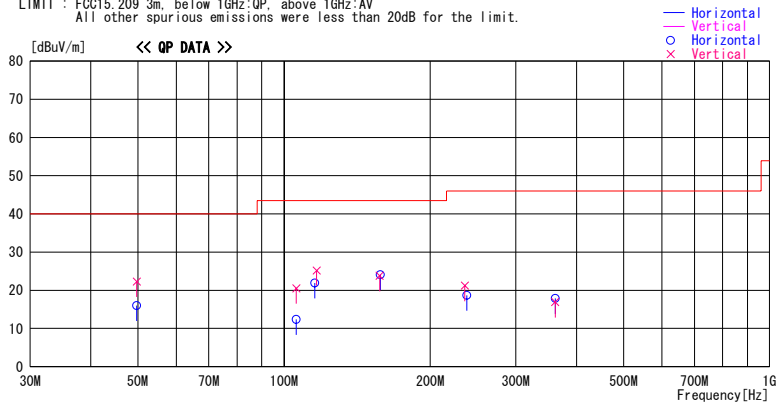
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
Model No. : SKE11A-03(Antenna A) Temp./Humi. : 23 deg.C. / 64 %
Serial No. : 20080624-01 Engineer : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz(Full), ANT Worst axis: X, ECU Worst axis:X

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss& Gain [dB]							
49.736	36.8	QP	10.2	-24.7	22.3	95	100	Vert.	40.0	17.7	
49.738	30.5	QP	10.2	-24.7	16.0	0	400	Hori.	40.0	24.0	
105.992	25.5	QP	10.8	-23.9	12.4	137	400	Hori.	43.5	31.1	
106.008	33.6	QP	10.8	-23.9	20.5	92	100	Vert.	43.5	23.0	
115.581	33.6	QP	12.0	-23.7	21.9	213	303	Hori.	43.5	21.6	
116.661	36.7	QP	12.2	-23.7	25.2	0	100	Vert.	43.5	18.3	
157.340	31.9	QP	15.2	-23.3	23.8	71	100	Vert.	43.5	19.7	
157.880	32.1	QP	15.3	-23.3	24.1	0	202	Hori.	43.5	19.4	
235.514	27.5	QP	16.4	-22.7	21.2	69	100	Vert.	46.0	24.8	
237.894	24.9	QP	16.4	-22.6	18.7	0	287	Hori.	46.0	27.3	
361.702	22.2	QP	16.4	-21.7	16.9	0	100	Vert.	46.0	29.1	
361.921	23.2	QP	16.4	-21.7	17.9	307	100	Hori.	46.0	28.1	

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.

Radiated Emission above 30MHz (Spurious Emission)
Antenna A (Half)

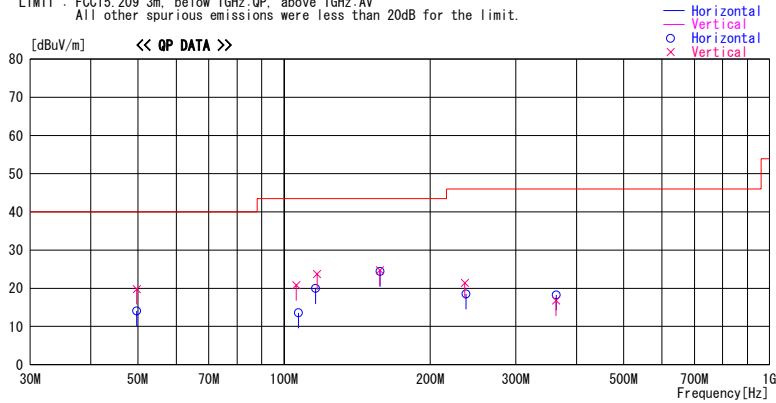
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
Model No. : SKE11A-03(Antenna A) Temp./Humi. : 23 deg.C. / 64 %
Serial No. : 20080624-01 Engineer : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz(Half). ANT Worst axis: X. ECU Worst axis:X

LIMIT : FCC15.209 3m. below 1GHz:QP. above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss& Gain [dB]							
49.732	28.6	QP	10.2	-24.7	14.1	0	400	Hori.	40.0	25.9	
49.738	34.3	QP	10.2	-24.7	19.8	107	100	Vert.	40.0	20.2	
105.998	33.9	QP	10.8	-23.9	20.8	88	100	Vert.	43.5	22.7	
107.049	26.5	QP	10.9	-23.8	13.6	149	400	Hori.	43.5	29.9	
116.141	31.6	QP	12.1	-23.7	20.0	213	319	Hori.	43.5	23.5	
116.934	35.2	QP	12.2	-23.7	23.7	0	100	Vert.	43.5	19.8	
157.381	32.8	QP	15.2	-23.3	24.7	94	100	Vert.	43.5	18.8	
157.592	32.5	QP	15.2	-23.3	24.4	0	220	Hori.	43.5	19.1	
235.599	27.7	QP	16.4	-22.7	21.4	69	100	Vert.	46.0	24.6	
236.821	24.7	QP	16.4	-22.6	18.5	0	265	Hori.	46.0	27.5	
363.082	22.1	QP	16.4	-21.7	16.8	0	100	Vert.	46.0	29.2	
363.482	23.6	QP	16.4	-21.7	18.3	286	100	Hori.	46.0	27.7	

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.

Radiated Emission above 30MHz (Spurious Emission)
Antenna B (Full)

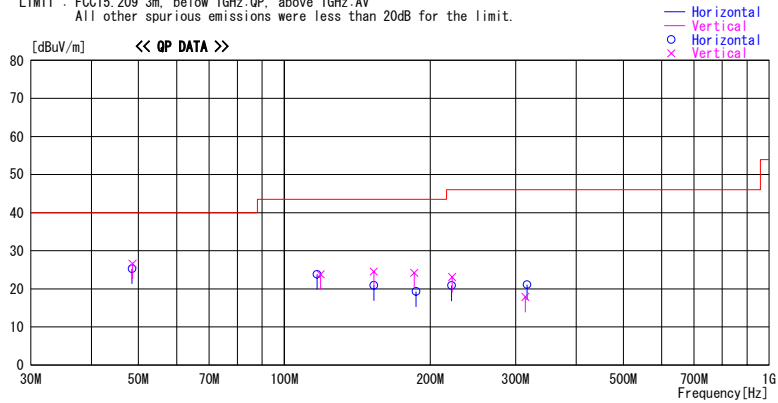
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 281E0193-HO-02
Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
Model No. : SKE11A-03 (Antenna B) Temp./Humi. : 24 deg.C. / 65 %
Serial No. : 20080624-01 Engineer : Hisayoshi Sato

Mode / Remarks : Continuous Transmitting 133.33kHz(Full), ANT Worst axis: Z, ECU Worst axis:X

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



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]
48.523	39.5	QP	10.5	-24.7	25.3	229	300	Hori.	40.0	14.7
48.660	40.8	QP	10.5	-24.7	26.6	135	313	Vert.	40.0	13.4
116.919	35.3	QP	12.2	-23.7	23.8	128	300	Hori.	43.5	19.7
118.838	35.1	QP	12.4	-23.7	23.8	137	137	Vert.	43.5	19.7
152.927	29.3	QP	15.0	-23.4	20.9	91	169	Hori.	43.5	22.6
152.927	32.9	QP	15.0	-23.4	24.5	116	104	Vert.	43.5	19.0
185.290	31.0	QP	16.4	-23.2	24.2	132	100	Vert.	43.5	19.3
186.913	26.0	QP	16.4	-23.1	19.3	4	300	Hori.	43.5	24.2
221.222	27.3	QP	16.3	-22.8	20.8	143	156	Hori.	46.0	25.2
221.742	29.6	QP	16.3	-22.8	23.1	163	100	Vert.	46.0	22.9
314.028	24.9	QP	15.0	-22.0	17.9	0	100	Vert.	46.0	28.1
316.834	28.0	QP	15.1	-22.0	21.1	182	100	Hori.	46.0	24.9

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.

Radiated Emission above 30MHz (Spurious Emission)
Antenna B (Half)

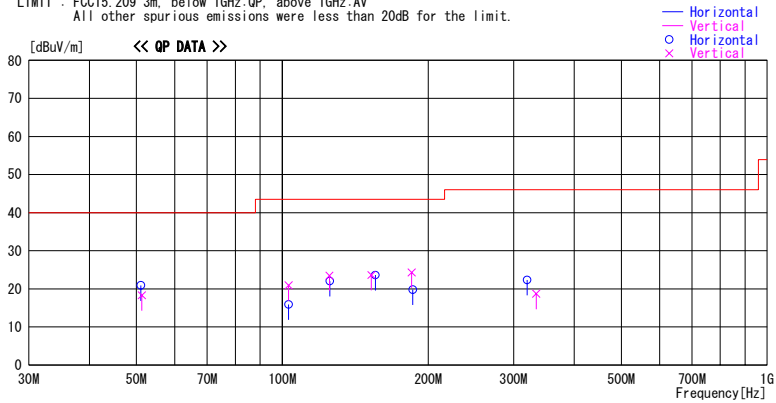
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 281E0193-HO-02
Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
Model No. : SKE11A-03 (Antenna B) Temp./Humi. : 24 deg. C. / 65 %
Serial No. : 20080624-01 Engineer : Hisayoshi Sato

Mode / Remarks : Continuous Transmitting 133.33kHz (Half), ANT Worst axis: Z, ECU Worst axis: X

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



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]
51.086	35.7	QP	9.8	-24.6	20.9	265	301	Hori.	40.0	19.1
51.336	33.1	QP	9.8	-24.6	18.3	148	100	Vert.	40.0	21.7
103.046	29.4	QP	10.4	-23.9	15.9	59	300	Hori.	43.5	27.6
103.046	34.4	QP	10.4	-23.9	20.9	84	100	Vert.	43.5	22.6
125.071	34.0	QP	13.1	-23.6	23.5	158	100	Vert.	43.5	20.0
125.352	32.5	QP	13.1	-23.6	22.0	220	328	Hori.	43.5	21.5
152.635	32.0	QP	15.0	-23.4	23.6	121	100	Vert.	43.5	19.9
155.509	31.7	QP	15.2	-23.3	23.6	110	100	Hori.	43.5	19.9
184.749	31.1	QP	16.4	-23.2	24.3	121	100	Vert.	43.5	19.2
185.831	26.6	QP	16.4	-23.2	19.8	160	300	Hori.	43.5	23.7
319.639	29.1	QP	15.2	-22.0	22.3	182	100	Hori.	46.0	23.7
334.042	25.0	QP	15.6	-21.9	18.7	239	100	Vert.	46.0	27.3

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.

Radiated Emission above 30MHz (Spurious Emission)
Antenna C (Full)

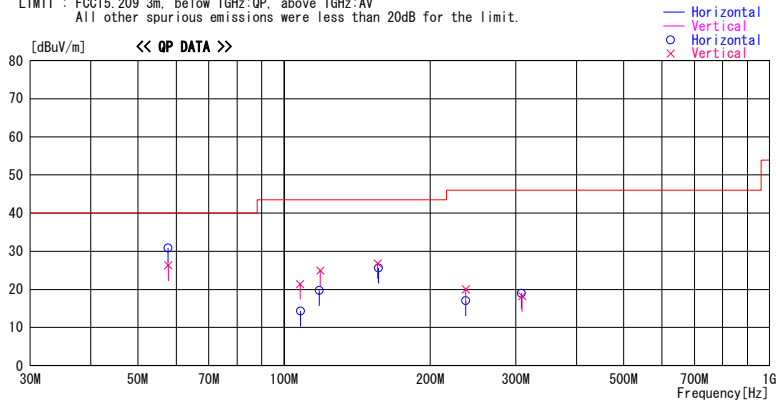
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
Model No. : SKE11A-03(Antenna C) Temp./Humi. : 23 deg.C. / 64 %
Serial No. : 20080624-01 Engineer : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz(Full), ANT Worst axis: X, ECU Worst axis:X

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss & Gain [dB]							
57.744	47.1	QP	8.3	-24.5	30.9	0	400	Hori.	40.0	9.1	
57.746	42.5	QP	8.3	-24.5	26.3	93	100	Vert.	40.0	13.7	
107.896	34.2	QP	11.0	-23.8	21.4	107	100	Vert.	43.5	22.1	
108.161	27.0	QP	11.1	-23.8	14.3	137	400	Hori.	43.5	29.2	
118.256	31.0	QP	12.4	-23.7	19.7	203	288	Hori.	43.5	23.8	
118.788	36.2	QP	12.4	-23.7	24.9	0	100	Vert.	43.5	18.6	
155.782	34.9	QP	15.2	-23.3	26.8	106	100	Vert.	43.5	16.7	
156.552	33.7	QP	15.2	-23.3	25.6	0	288	Hori.	43.5	17.9	
236.556	23.3	QP	16.4	-22.6	17.1	345	100	Hori.	46.0	28.9	
236.616	26.2	QP	16.4	-22.6	20.0	72	100	Vert.	46.0	26.0	
308.242	26.2	QP	14.8	-22.0	19.0	303	100	Hori.	46.0	27.0	
309.042	25.4	QP	14.8	-22.0	18.2	299	100	Vert.	46.0	27.8	

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)

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

Radiated Emission above 30MHz (Spurious Emission)
Antenna C (Half)

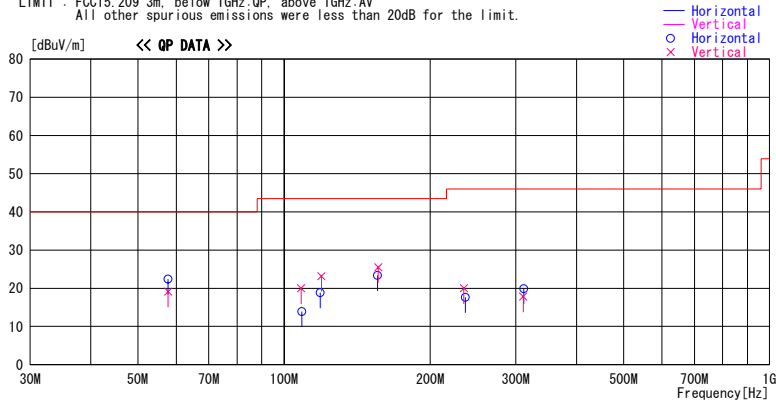
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
 Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 281E0193-HO-02
 Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
 Model No. : SKE11A-03(Antenna C) Temp./Humi. : 23 deg.C. / 64 %
 Serial No. : 20080624-01 Engineer : Takahiro Hatakeda

Mode / Remarks : Continuous Transmitting 133.33kHz(Half). ANT Worst axis: X. ECU Worst axis:X

LIMIT : FCC15.209 3m. below 1GHz:QP. above 1GHz:AV
 All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss& Gain [dB]							
57.728	38.6	QP	8.3	-24.5	22.4	0	400	Hori.	40.0	17.6	
57.736	35.3	QP	8.3	-24.5	19.1	91	100	Vert.	40.0	20.9	
108.364	32.7	QP	11.1	-23.8	20.0	96	100	Vert.	43.5	23.5	
108.768	26.6	QP	11.1	-23.8	13.9	139	400	Hori.	43.5	29.6	
118.786	30.1	QP	12.4	-23.7	18.8	222	295	Hori.	43.5	24.7	
119.336	34.4	QP	12.5	-23.7	23.2	0	100	Vert.	43.5	20.3	
155.756	31.5	QP	15.2	-23.3	23.4	0	246	Hori.	43.5	20.1	
156.279	33.6	QP	15.2	-23.3	25.5	109	100	Vert.	43.5	18.0	
234.524	26.3	QP	16.4	-22.7	20.0	88	100	Vert.	46.0	26.0	
236.324	23.9	QP	16.4	-22.6	17.7	0	148	Hori.	46.0	28.3	
310.722	24.9	QP	14.9	-22.0	17.8	279	100	Vert.	46.0	28.2	
311.651	27.0	QP	14.9	-22.0	19.9	316	100	Hori.	46.0	26.1	

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.

Radiated Emission above 30MHz (Spurious Emission)
Antenna D (Full)

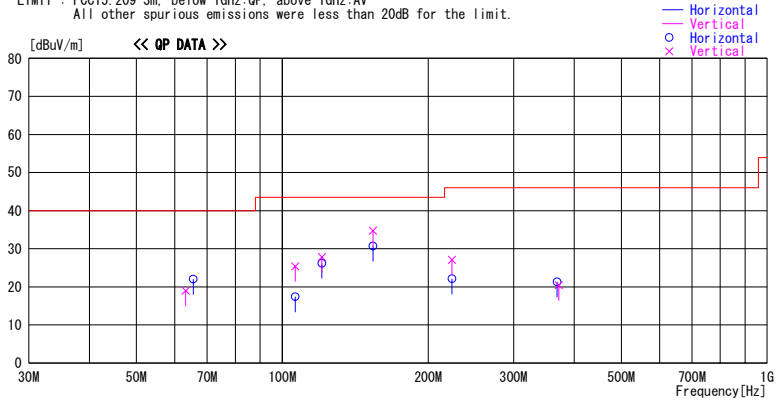
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
 Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 281E0193-HO-02
 Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
 Model No. : SKE11A-03 (Antenna D) Temp./Humi. : 24 deg.C. / 65 %
 Serial No. : 20080624-01 Engineer : Hisayoshi Sato

Mode / Remarks : Continuous Transmitting 133.33kHz(Full), ANT Worst axis: Z, ECU Worst axis:X

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
 All other spurious emissions were less than 20dB for the limit.



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]
63.202	36.0	QP	7.4	-24.4	19.0	130	100	Vert.	40.0	21.0
65.482	39.3	QP	7.1	-24.4	22.0	184	187	Hori.	40.0	18.0
106.293	30.4	QP	10.8	-23.8	17.4	150	300	Hori.	43.5	26.1
106.293	38.4	QP	10.8	-23.8	25.4	103	100	Vert.	43.5	18.1
120.663	38.9	QP	12.6	-23.7	27.8	178	112	Vert.	43.5	15.7
120.670	37.3	QP	12.6	-23.7	26.2	223	154	Hori.	43.5	17.3
153.749	43.0	QP	15.1	-23.4	34.7	110	104	Vert.	43.5	8.8
153.750	39.0	QP	15.1	-23.4	30.7	111	119	Hori.	43.5	12.8
223.707	28.5	QP	16.3	-22.7	22.1	143	300	Hori.	46.0	23.9
223.707	33.5	QP	16.3	-22.7	27.1	158	100	Vert.	46.0	18.9
368.737	26.4	QP	16.5	-21.6	21.3	272	100	Hori.	46.0	24.7
371.543	25.4	QP	16.6	-21.6	20.4	150	100	Vert.	46.0	25.6

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

Radiated Emission above 30MHz (Spurious Emission)
Antenna D (Half)

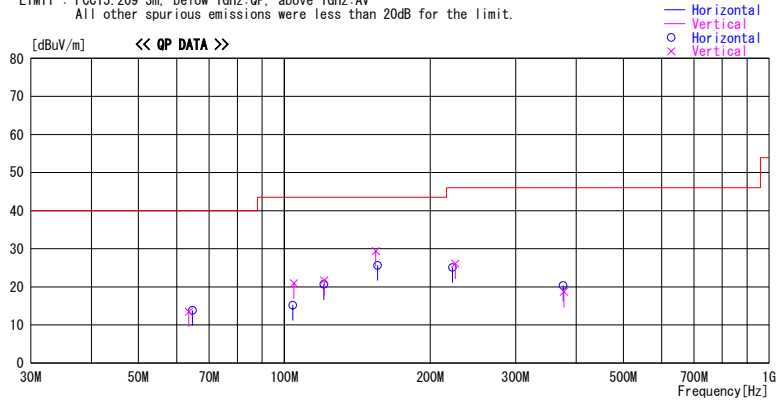
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
 Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 281E0193-HO-02
 Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
 Model No. : SKE11A-03 (Antenna D) Temp./Humi. : 24 deg.C. / 65 %
 Serial No. : 20080624-01 Engineer : Hisayoshi Sato

Mode / Remarks : Continuous Transmitting 133.33kHz (Half), ANT Worst axis: Z, ECU Worst axis: X

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
 All other spurious emissions were less than 20dB for the limit.



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]						
63.547	30.6	QP	7.3	-24.4	13.5	114	100	Vert.	40.0	26.5
64.629	31.0	QP	7.2	-24.4	13.8	173	300	Hori.	40.0	26.2
104.128	28.6	QP	10.5	-23.9	15.2	64	300	Hori.	43.5	28.3
104.669	34.2	QP	10.6	-23.9	20.9	99	100	Vert.	43.5	22.6
120.707	31.8	QP	12.6	-23.7	20.7	96	235	Hori.	43.5	22.9
120.919	32.7	QP	12.7	-23.7	21.7	0	100	Vert.	43.5	21.8
154.396	37.6	QP	15.1	-23.3	29.4	116	100	Vert.	43.5	14.1
155.731	33.8	QP	15.2	-23.3	25.7	115	138	Hori.	43.5	17.8
222.117	31.6	QP	16.3	-22.8	25.1	150	131	Hori.	46.0	20.9
225.141	32.5	QP	16.3	-22.7	26.1	0	103	Vert.	46.0	19.9
375.751	25.2	QP	16.7	-21.6	20.3	282	100	Hori.	46.0	25.7
377.154	23.5	QP	16.8	-21.6	18.7	163	100	Vert.	46.0	27.3

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.

Radiated Emission above 30MHz (Spurious Emission)
Antenna E (Full)

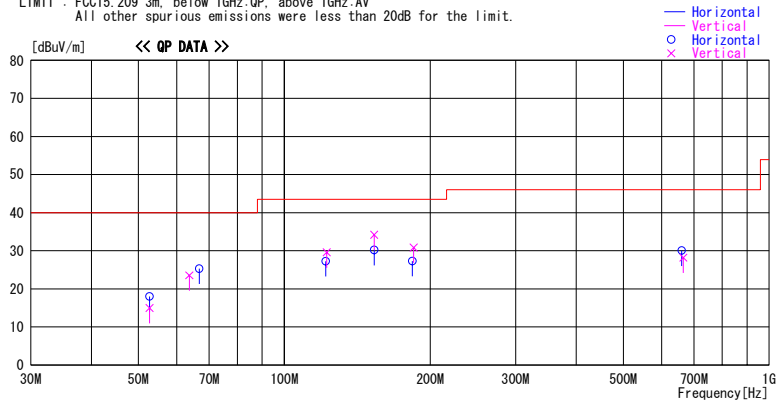
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 281E0193-HO-02
 Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
 Model No. : SKE11A-03 (Antenna E) Temp./Humi. : 24 deg. C. / 65 %
 Serial No. : 20080624-01 Engineer : Hisayoshi Sato

Mode / Remarks : Continuous Transmitting 133.33kHz(Full), ANT Worst axis: Z, ECU Worst axis:X

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
 All other spurious emissions were less than 20dB for the limit.



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]						
52.725	33.1	QP	9.4	-24.5	18.0	166	300	Hori.	40.0	22.0
52.725	30.1	QP	9.4	-24.5	15.0	82	100	Vert.	40.0	25.0
63.716	40.6	QP	7.3	-24.4	23.5	122	100	Vert.	40.0	16.5
66.786	42.6	QP	7.0	-24.3	25.3	184	300	Hori.	40.0	14.7
121.724	38.3	QP	12.7	-23.7	27.3	109	142	Hori.	43.5	16.2
122.265	40.5	QP	12.8	-23.7	29.6	151	100	Vert.	43.5	13.9
153.167	38.0	QP	15.0	-23.4	30.2	95	112	Hori.	43.5	13.3
153.188	42.6	QP	15.0	-23.4	34.2	129	100	Vert.	43.5	9.3
183.667	34.1	QP	16.4	-23.2	27.9	152	300	Hori.	43.5	16.2
184.749	37.7	QP	16.4	-23.2	30.9	133	100	Vert.	43.5	12.7
660.021	30.5	QP	19.6	-20.0	30.1	163	122	Hori.	46.0	16.0
665.162	28.4	QP	19.7	-19.9	28.2	177	127	Vert.	46.0	17.8

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)

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

Radiated Emission above 30MHz (Spurious Emission)
Antenna E (Half)

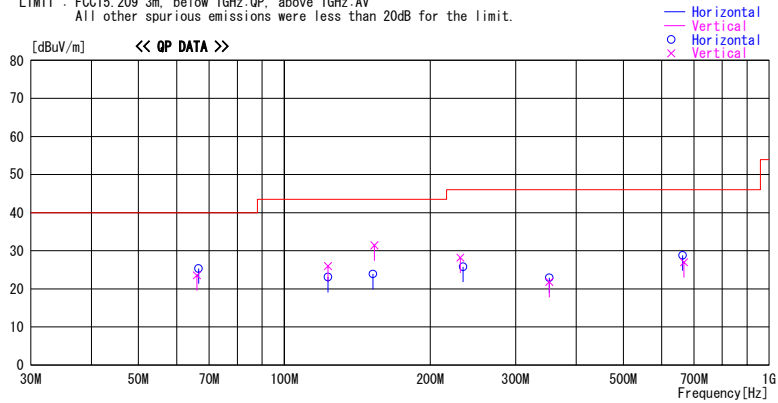
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 28IE0193-HO-02
Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
Model No. : SKE11A-03 (Antenna E) Temp./Humi. : 24 deg.C. / 65 %
Serial No. : 20080624-01 Engineer : Hisayoshi Sato

Mode / Remarks : Continuous Transmitting 133.33kHz (Half), ANT Worst axis: Z, ECU Worst axis: X

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



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]
66.010	40.7	QP	7.1	-24.3	23.5	93	100	Vert.	40.0	16.5
66.551	42.7	QP	7.0	-24.3	25.4	198	328	Hori.	40.0	14.7
123.066	33.9	QP	12.9	-23.7	23.1	85	300	Hori.	43.5	20.4
123.066	36.8	QP	12.9	-23.7	26.0	167	100	Vert.	43.5	17.5
152.251	32.3	QP	15.0	-23.4	23.9	272	106	Hori.	43.5	19.6
153.368	39.7	QP	15.1	-23.4	31.4	117	104	Vert.	43.5	12.1
230.605	34.5	QP	16.4	-22.7	28.2	296	100	Vert.	46.0	17.8
233.725	32.1	QP	16.4	-22.7	25.8	175	156	Hori.	46.0	20.2
351.904	27.4	QP	16.1	-21.7	21.9	150	100	Vert.	46.0	24.2
351.904	28.5	QP	16.1	-21.7	22.9	202	100	Hori.	46.0	23.1
663.233	29.2	QP	19.6	-20.0	28.8	161	118	Hori.	46.0	17.2
666.955	27.2	QP	19.7	-19.9	27.0	162	120	Vert.	46.0	19.0

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.

Radiated Emission above 30MHz (Spurious Emission) Antenna F (Full)

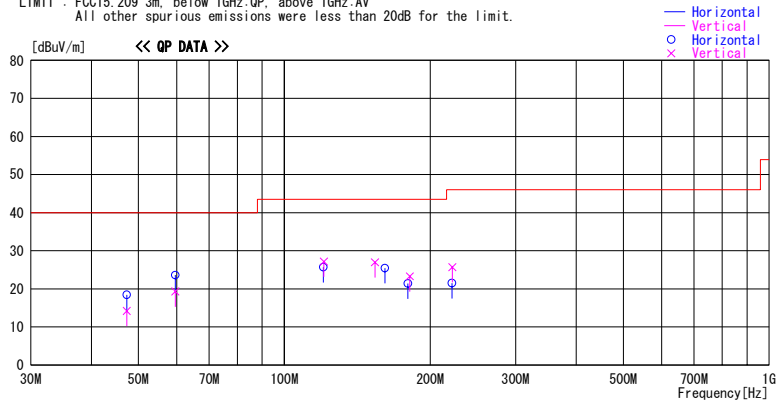
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 281E0193-HO-02
 Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
 Model No. : SKE11A-03 (Antenna F) Temp./Humi. : 24 deg. C. / 65 %
 Serial No. : 20080624-01 Engineer : Hisayoshi Sato

Mode / Remarks : Continuous Transmitting 133.33kHz(Full), ANT Worst axis: Z, ECU Worst axis:X

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
 All other spurious emissions were less than 20dB for the limit.



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]						
47.315	32.2	QP	10.9	-24.7	18.4	148	300	Hori.	40.0	21.6
47.315	28.0	QP	10.9	-24.7	14.2	185	100	Vert.	40.0	25.8
59.596	40.1	QP	7.9	-24.4	23.6	30	300	Hori.	40.0	16.4
59.606	35.8	QP	7.9	-24.4	19.3	52	100	Vert.	40.0	20.7
120.382	36.8	QP	12.6	-23.7	25.7	136	295	Hori.	43.5	17.8
120.650	38.3	QP	12.6	-23.7	27.2	167	100	Vert.	43.5	16.3
153.831	35.3	QP	15.1	-23.4	27.0	285	104	Vert.	43.5	16.5
161.211	33.4	QP	15.4	-23.3	25.5	156	100	Hori.	43.5	18.0
179.879	28.2	QP	16.4	-23.2	21.4	215	300	Hori.	43.5	22.1
181.503	30.1	QP	16.4	-23.2	23.3	124	100	Vert.	43.5	20.2
221.542	28.0	QP	16.3	-22.8	21.5	53	300	Hori.	46.0	24.5
222.083	32.2	QP	16.3	-22.8	25.7	170	100	Vert.	46.0	20.3

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.

Radiated Emission above 30MHz (Spurious Emission) Antenna F (Half)

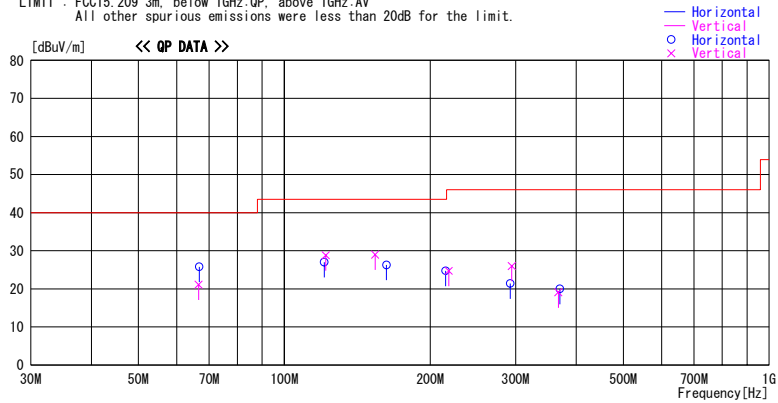
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 281E0193-HO-02
 Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
 Model No. : SKE11A-03 (Antenna F) Temp./Humi. : 24 deg.C. / 65 %
 Serial No. : 20080624-01 Engineer : Hisayoshi Sato

Mode / Remarks : Continuous Transmitting 133.33kHz(Half), ANT Worst axis: Z, ECU Worst axis:X

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
 All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg.]	Height [cm]	Polar.	Limit	
			Factor [dB/m]	Loss & Gain [dB]					[dBuV/m]	[dB]
66.536	38.4	QP	7.0	-24.3	21.1	117	100	Vert.	40.0	18.9
66.803	43.1	QP	7.0	-24.3	25.8	161	323	Hori.	40.0	14.2
120.931	38.0	QP	12.7	-23.7	27.0	215	270	Hori.	43.5	16.5
121.748	39.8	QP	12.7	-23.7	28.8	171	110	Vert.	43.5	14.7
153.886	37.2	QP	15.1	-23.3	29.0	254	100	Vert.	43.5	14.5
162.526	34.1	QP	15.5	-23.3	26.3	169	300	Hori.	43.5	17.2
215.214	31.2	QP	16.3	-22.8	24.7	159	300	Hori.	43.5	18.8
218.296	31.2	QP	16.3	-22.8	24.7	71	100	Vert.	46.0	21.3
292.423	24.0	QP	19.5	-22.1	21.4	172	300	Hori.	46.0	24.6
294.555	28.4	QP	19.7	-22.1	26.0	206	100	Vert.	46.0	20.0
367.335	24.2	QP	16.5	-21.6	19.1	191	100	Vert.	46.0	26.9
370.140	25.0	QP	16.6	-21.6	20.0	293	100	Hori.	46.0	26.0

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.

Radiated Emission above 30MHz (Spurious Emission)
Antenna G (Full)

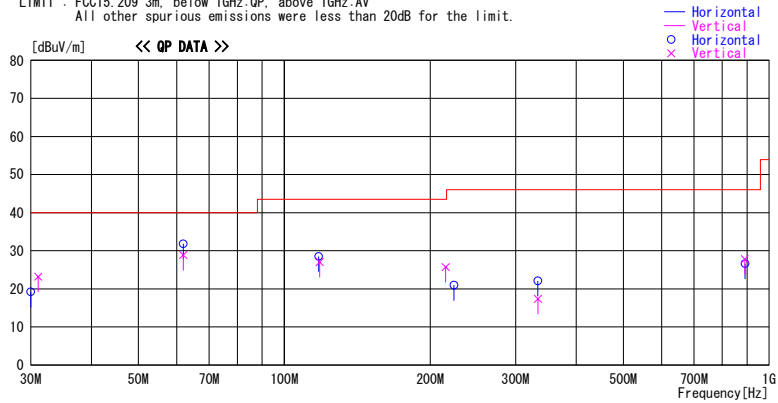
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 281E0193-HO-02
Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
Model No. : SKE11A-03 (Antenna G) Temp./Humi. : 24 deg. C. / 65 %
Serial No. : 20080624-01 Engineer : Hisayoshi Sato

Mode / Remarks : Continuous Transmitting 133.33kHz(Full), ANT Worst axis: Z, ECU Worst axis:X

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



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]
30.000	25.3	QP	18.9	-25.0	19.2	89	300	Hori.	40.0	20.8
31.082	29.9	QP	18.3	-25.0	23.2	180	100	Vert.	40.0	16.8
61.881	48.7	QP	7.5	-24.4	31.8	162	300	Hori.	40.0	8.2
61.881	45.8	QP	7.5	-24.4	28.9	317	100	Vert.	40.0	11.1
117.737	39.9	QP	12.3	-23.7	28.5	200	300	Hori.	43.5	15.0
118.258	38.4	QP	12.4	-23.7	27.1	58	100	Vert.	43.5	16.4
215.115	32.2	QP	16.3	-22.8	25.7	123	100	Vert.	43.5	17.8
223.754	27.4	QP	16.3	-22.7	21.0	210	143	Hori.	46.0	25.0
333.464	26.4	QP	15.6	-21.9	22.1	122	100	Hori.	46.0	23.9
333.654	23.7	QP	15.6	-21.9	17.4	241	100	Vert.	46.0	28.6
890.588	24.4	QP	21.3	-17.9	27.8	335	100	Vert.	46.0	18.2
891.991	23.1	QP	21.3	-17.8	26.6	331	100	Hori.	46.0	19.4

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.

Radiated Emission above 30MHz (Spurious Emission)
Antenna G (Half)

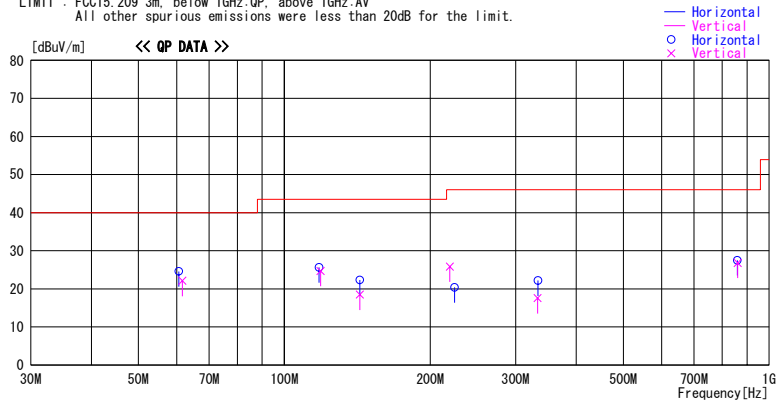
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2008/07/09

Company : Mitsubishi Electric Corporation Report No. : 281E0193-HO-02
Kind of EUT : SMART KEYLESS SYSTEM Power : DC 3.0V
Model No. : SKE11A-03 (Antenna G) Temp./Humi. : 24 deg.C. / 65 %
Serial No. : 20080624-01 Engineer : Hisayoshi Sato

Mode / Remarks : Continuous Transmitting 133.33kHz (Half), ANT Worst axis: Z, ECU Worst axis: X

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



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]
60.604	41.3	QP	7.7	-24.4	24.6	157	300	Hori.	40.0	15.4
61.604	38.9	QP	7.6	-24.4	22.1	300	100	Vert.	40.0	17.9
118.018	37.0	QP	12.3	-23.7	25.6	200	300	Hori.	43.5	17.9
118.818	36.0	QP	12.4	-23.7	24.7	69	100	Vert.	43.5	18.8
143.086	31.3	QP	14.5	-23.5	22.3	141	300	Hori.	43.5	21.2
143.086	27.5	QP	14.5	-23.5	18.5	124	100	Vert.	43.5	25.0
219.378	32.3	QP	16.3	-22.8	25.8	110	100	Vert.	46.0	20.2
224.399	26.8	QP	16.3	-22.7	20.4	254	300	Hori.	46.0	25.6
333.040	23.9	QP	15.6	-21.9	17.6	259	100	Vert.	46.0	28.4
333.591	28.5	QP	15.6	-21.9	22.2	132	100	Hori.	46.0	23.8
859.725	24.2	QP	21.5	-18.2	27.5	38	100	Hori.	46.0	18.5
861.128	23.5	QP	21.5	-18.2	26.8	103	100	Vert.	46.0	19.2

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)

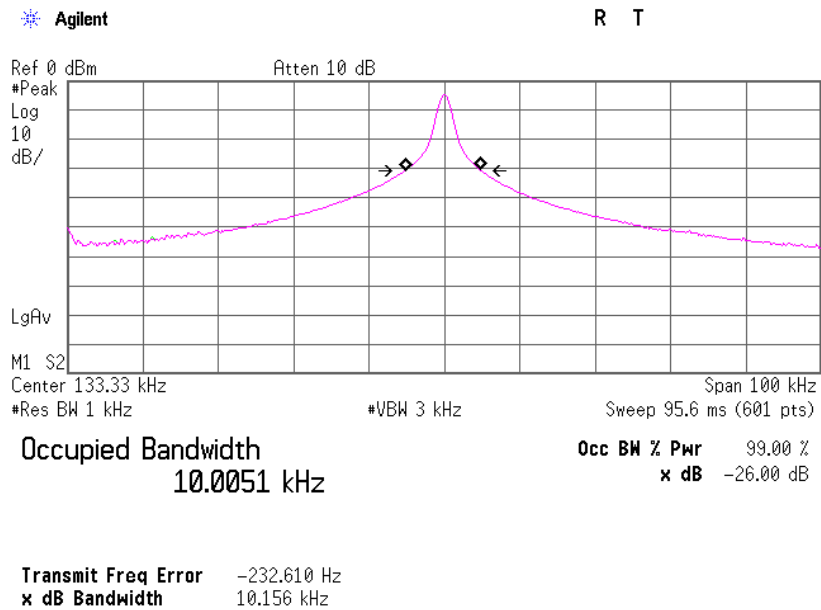
*The test result is rounded off to one or two decimal places, so some differences might be observed.

-26dB Bandwidth

UL Japan, Inc.
 Head Office EMC Lab. No.3 Semi Anechoic Chamber

COMPANY	: Mitsubishi Electric Corporation	REPORT NO	: 28IE0193-HO-02
EQUIPMENT	: SMART KEYLESS SYSTEM	REGULATION	: Reference data
MODEL	: SKE11A-03	TEST DISTANCE	: 3m
S/N	: 20080624-01	DATE	: 07/09/2008
POWER	: DC 3.0V	TEMPERATURE	: 23 deg.C.
MODE	: Continuous Transmitting 133.33kHz	HUMIDITY	: 64 %
		Engineer	: Takahiro Hatakeda

	FREQ	-26dB Bandwidth
	[kHz]	[kHz]
	133.33	10.156

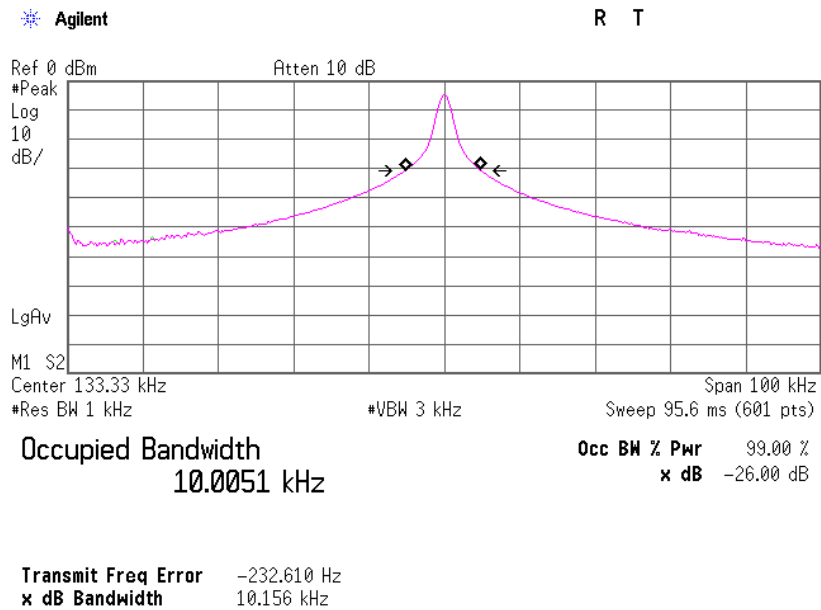


99% Occupied Bandwidth

UL Japan, Inc.
 Head Office EMC Lab. No.3 Semi Anechoic Chamber

COMPANY	: Mitsubishi Electric Corporation	REPORT NO	: 28IE0193-HO-02
EQUIPMENT	: SMART KEYLESS SYSTEM	REGULATION	: Reference data
MODEL	: SKE11A-03	TEST DISTANCE	: 3m
S/N	: 20080624-01	DATE	: 07/09/2008
POWER	: DC 3.0V	TEMPERATURE	: 23 deg.C.
MODE	: Continuous Transmitting 133.33kHz	HUMIDITY	: 64 %
		Engineer	: Takahiro Hatakeda

	FREQ	99% Occupied Bandwidth
	[kHz]	[kHz]
	133.33	10.005



APPENDIX 3: Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2008/03/25 * 12
MOS-13	Thermo-Hygrometer	Custom	CTH-180	RE	2008/01/10 * 12
MJM-06	Measure	PROMART	SEN1955	RE	-
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE	-
MSA-09	Spectrum Analyzer	Advantest	R3273	RE	2007/12/21 * 12
MTR-08	Test Receiver	Rohde & Schwarz	ESCI	RE	2008/06/12 * 12
MLPA-02	Loop Antenna	Rohde & Schwarz	HFH2-Z2	RE	2007/12/12 * 12
MCC-51	Coaxial cable	UL Japan	-	RE	2007/07/26 * 12
MCC-31	Coaxial cable	UL Japan	-	RE	2008/06/20 * 12
MPA-13	Pre Amplifier	SONOMA INSTRUMENT	310	RE	2008/03/06 * 12
MLPA-01	Loop Antenna	Rohde & Schwarz	HFH2-Z2	RE	2007/11/06 * 12
MCC-112	Coaxial cable	Fujikura/Suhner/TS J	-	RE	2008/07/03 * 12
MCC-30	Coaxial cable	UL Japan	-	RE	2008/06/20 * 12
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2008/01/12 * 12
MLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2008/01/12 * 12
MAT-30	Attenuator(6dB)	TME	UFA-01	RE	2008/03/10 * 12
MSA-10	Spectrum Analyzer	Agilent	E4448A	RE	2008/02/27 * 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: Spurious emission, -26dB Bandwidth, 99% Occupied Bandwidth

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

APPENDIX 4: Data for Pulse line

