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Issued date : August 4, 2008

Revisd date : August 21, 2008

FCC ID : WJ6-3Q8529301A

APPENDIX 2: Data of EMI test

Conducted emission

DATA OF CONDUCTED EMISSION TEST UL Japan, Inc. Head Office EMC

NIDEC SANKYO CORPORATION Magnetic and Contactless IC card reader writer 101308-5293 3050006

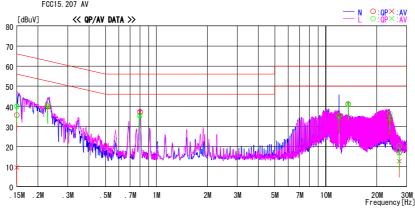
UL Japan, Inc. Head Uffice EMC Lab. No.3 Semi Anechoic Chamber Date: 2008/07/23

| Report No. | 28KE0126-H0-01 | Power | AC 120V / 60Hz | Temp. /Humi | 22deg. C. / 54% | Engineer | Akio Hayashi

Mode / Remarks: Transmitting Mode 13.56MHz without Tag

LIMIT : FCC15. 207 QP FCC15. 207 AV

Company Kind of EUT Model No. Serial No.



	Readin	g Level	Corr.	Res	ults	Li	nit	Mai	rgin	
Frequency	QP	AV	Factor	QP	AV	QP	AV	QP	AV	Phase
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]	
0.15001	35. 4	9. 3	0. 2	35. 6	9. 5	66. 0	56. 0	30. 4	46. 5	N
0.15001	39.8			40. 0		66. 0				L
0. 22786	40.0		0. 3	40. 3	39. 9	62. 5	52. 5	22. 2	12.6	L
0. 22832	39. 6		0.3	39. 9	39. 4	62. 5	52. 5			N
0.79728	35. 1	35. 1	0.3	35. 4	35. 4	56. 0	46. 0			L
0.80003	36.8			37. 1	37. 1	56. 0	46. 0	18. 9		N
11.96621	34. 3			35. 4	34. 4	60. 0				
11.99037	34. 3	33. 7		35. 4	34. 8	60. 0	50. 0	24. 6		N
13.56000	39. 7	39. 7				60. 0	50. 0			
13.56000	39. 8	39. 8		41. 1	41. 1	60. 0	50. 0	18. 9		L
23. 74613	33. 2			34. 9	32.0	60. 0	50. 0			
23. 83373	34. 7	32. 2		36. 4	33. 9	60. 0	50. 0			L
27. 12000	15. 2	10. 8		17. 0	12.6	60. 0	50. 0			N
27. 12000	18. 3	14. 7	1.8	20. 1	16.5	60. 0	50. 0	39. 9	33. 5	L
									1	
}									1	
									1	
									1	
	-								1	
									1	
									1	
									1	
									1	
									1	

 $\label{lem:chart:with factor, peak hold data. CALCURATION:RESULT[dBuA]=READING[dBuV]+C.F[dB] (Probe factor+CABLE LOSS) \\ Except for the above table: adequate margin data below the limits.$

UL Japan, Inc. Head Office EMC Lab.

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

: 28KE0126-HO-01-C-R1 Test report No.

Page : 17 of 24 **Issued date** : August 4, 2008 : August 21, 2008 Revisd date FCC ID : WJ6-3Q8529301A

Radiated emission(Fundamental emission and Spectrum Mask)

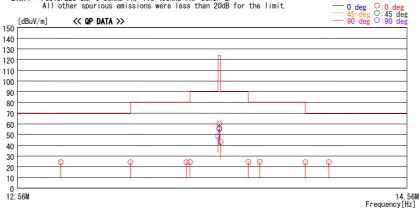
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Uffice EMC Lab. No. 3 Semi Anechoic Chamber Date: 2008/07/22

28KE0126-H0-01 AC 120V / 60Hz 22 deg.C. / 54 % Akio Hayashi NIDEC SANKYO CORPPRATION Magnetic and Contactless IC card reader writer IC1308-5293 8050006 Company Kind of EUT Model No. Serial No.

Mode / Remarks: Transmitting Mode 13.56MHz without Tag

LIMIT : FCC15.225 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP All other spurious emissions were less than 20dB for the limit.



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]	
12.76790	35. 3	QP	20. 5	0. 7	32.2	24. 3	69. 5		0deg	135	
13.11000			20. 5	0. 7	32.2	24. 2		45. 3	0deg	135	
13.39200			20.5	0. 7	32. 2	24. 3			0deg	135	
13.41000			20. 5	0. 7	32. 2	24. 4	80. 5		0deg	135	
13.55300			20.5	0. 7	32. 2	48. 5				135	
13.56000			20.5	0. 7	32. 2	56. 3				195	
13.56000			20. 5	0. 7	32. 2	60. 4					Worst
13.56000		QP	20. 5	0. 7	32. 2	55. 1	123. 9			127	
13.56700			20. 5	0. 7	32. 2	43. 2	90. 4			135	
13.71000			20. 5	0. 7	32. 2	24. 5				135	
13.76940			20. 5	0. 7	32. 2	24. 7	80. 5			135	
14.01000			20.5	0. 7	32. 2	24. 3	69. 5			135	
14. 13540	35. 3	QP	20. 6	0. 7	32. 2	24. 4	69. 5	45. 1	0deg	135	
				-				1			1
				-							1
				-				1			
				- 1							
			1	1				1			
			1	- 1							
			i i	1							ì
			i i	- 1							
			1 1	1							
			i i								

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.)

UL Japan, Inc. **Head Office EMC Lab.**

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

: 28KE0126-HO-01-C-R1 Test report No.

Page : 18 of 24 **Issued date** : August 4, 2008 : August 21, 2008 Revisd date FCC ID : WJ6-3Q8529301A

Radiated emission (Spurious emission: below 30MHz)

DATA OF RADIATED EMISSION TEST

Head Office EMC Lab. No. 3 Semi Anechoic Chamber Date: 2008/07/22

Company Kind of EUT Model No. Serial No.

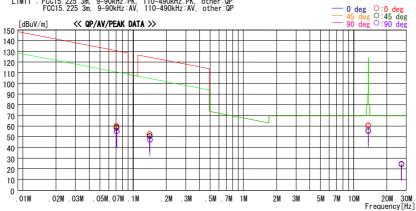
NIDEC SANKYO CORPPRATION Magnetic and Contactless IC card reader writer IC1308-5293 8050006

Power Temp. / Humi. Engineer

28KE0126-H0-01 AC 120V / 60Hz 22 deg.C. / 54 % Akio Hayashi

 ${\tt Mode / Remarks: Transmitting \ Mode \ 13.56MHz \ without \ Tag}$

LIMIT : FCC15.225 3m, 9-90kHz:PK, 110-490kHz:PK, other:QP FCC15.225 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]	
0.07047		PEAK	20. 3		32. 3		130. 6	70. 6	0deg	86	
0.07047		QP	20. 3	0. 1	32. 3				0deg	86	
0.07047		ΑV	20. 3	0. 1	32. 3		110.6		0deg	86	
0.07076		PEAK	20. 3	0. 1	32. 3				45deg	62	
0.07076		AV	20. 3	0. 1	32. 3		110.6		45deg	62	
0.07095		PEAK	20. 3	0. 1	32. 3	55. 1	130. 6		90deg	9	
0.07095		AV	20. 3	0. 1	32. 3	54. 8	110.6	55. 8	90deg	9	
0. 14085		PEAK	20. 3	0. 1	32. 3	52. 6			0deg	84	
0. 14085		AV	20. 3	0. 1	32. 3		104. 6		0deg	84	
0.14139		AV	20. 3	0. 1	32. 3		104. 6		45deg	71	
0.14139		PEAK	20. 3		32. 3			73. 5	45deg	71	
0.14186		PEAK	20. 3	0. 1	32. 3	47. 5			90deg	12	
0.14186		AV	20. 3	0. 1	32. 3	47. 2	104. 6		90deg	12	
13. 56000		PEAK	20. 5	0. 7		60. 8			0deg	135	
13. 56000		QP	20. 5			60. 4	123. 9		0deg	135	
13. 56000	66. 1	QP	20. 5	0. 7		55. 1	123. 9	68. 8	45deg	127	
13. 56000	67. 3	QP	20. 5	0. 7		56. 3			90deg	195	
27. 12000	35. 0	QP	21. 0	1. 0		24. 8		44. 7	90deg	359	
27. 12000		QP	21. 0			24. 5			45deg	318	
27. 12000	34. 4	QP	21. 0	1. 0	32. 2	24. 2	69. 5	45. 3	0deg	214	

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

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4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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

: 28KE0126-HO-01-C-R1 Test report No.

Page : 19 of 24 **Issued date** : August 4, 2008 : August 21, 2008 Revisd date FCC ID : WJ6-3Q8529301A

Radiated emission (Spurious emission: above 30MHz)

DATA OF RADIATED EMISSION TEST UL Japan, Inc. Head Office EMC Lab

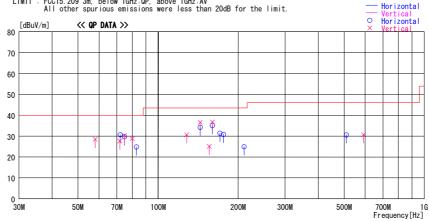
No. 3 Semi Anechoic Chamber Date : 2008/07/22

NIDEC SANKYO CORPORATION Magnetic and Contactless IC card reader writer IC1308-5293 8050006 Company Kind of EUT Model No. Serial No.

28KE0126-H0-01 AC 120V / 60Hz 22deg.C. / 54% Akio Hayashi Report No. Power Temp./Humi. Operator

Mode / Remarks : Transmitting Mode 13.56MHz without Tag

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



Frequency	Reading		Antenna	Loss&	Level	Angle	Height		Limit	Margin	
		DET	Factor	Gain				Polar.		_	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
58. 051		QP	8. 2	-24. 5	28. 4	92			40.0	11.6	
71.810			6.6	-24. 3	27. 6	277		Vert.	40.0	12.4	
72.002			6.6	-24. 3	30. 6	8	263		40.0	9.4	
74.674			6.5		30. 3	265			40.0	9.7	
74. 676			6.5	-24. 2	29. 7	1	267	Hori.	40.0	10.3	
80.006			6.4		28. 7	327		Vert.	40.0	11.3	
82. 862			6.9	-24. 1	24. 8	302			40.0	15. 2	
128. 014			13. 3		30. 6	60	100	Vert.	43. 5	12. 9	
144. 008		QP	14.6	-23.4	36. 6	102		Vert.	43. 5	6.9	
144. 014		QP	14.6		34. 3	36	262		43. 5	9.2	
155. 738	33. 2	QP	15. 2	-23.3	25. 1	136	100	Vert.	43. 5	18.4	
160.015		QP	15.4	-23. 3	35. 1	47	218	Hori.	43. 5	8.4	
160.016	44. 6	QP	15.4	-23. 3	36. 7	188	100	Vert.	43. 5	6.8	
170. 682	38. 6	QP	16.0	-23. 2	31.4	75	182	Hori.	43. 5	12.1	
176. 015	37. 7	QP	16. 2	-23.1	30. 8	56	181	Hori.	43. 5	12.7	
210. 393	31.5	QP	16.3	-22. 9	24. 9	90	144	Hori.	43.5	18. 6	
510.009	33. 2	QP	18. 2	-20.8	30. 6	359	100	Hori.	46.0	15.4	
592. 057	31.7	QP	19. 2	-20.3	30. 6	86	100	Vert.	46.0	15.4	
	1 1										
	1 1										
	1										
	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)

UL Japan, Inc. **Head Office EMC Lab.**

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

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20dB Bandwidth

UL Japan, Inc.

Head Office EMC Lab. No.3 Semi Anechoic Chamber

COMPANY : NIDEC SANKYO CORPORATION REGULATION : FCC 15.225

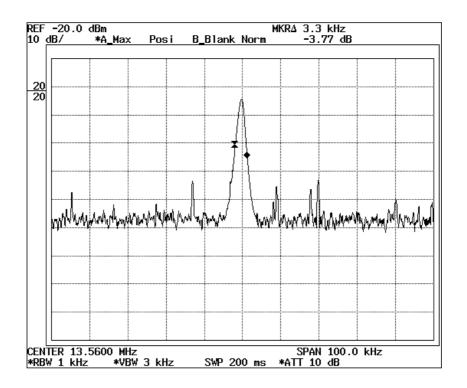
EQUIPMENT : Magnetic and Contactless IC card reader writer TEST DISTANCE : 3m

 MODEL
 : ICI3Q8-5293
 DATE
 : 07/22/2008

 S/ N
 : 8050006
 TEMPERATURE
 : 22 deg.C.

 POWER
 : AC120V/60Hz
 HUMIDITY
 : 54 %

FREQ	20dB Bandwidth
[MHz]	[kHz]
13.56	3.30



UL Japan, Inc. Head Office EMC Lab.

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99% Occupied Bandwidth

UL Japan, Inc.

Head Office EMC Lab. No.3 Semi Anechoic Chamber

: 3m

COMPANY : NIDEC SANKYO CORPORATION REGULATION : RSS-Gen 4.6.1

EQUIPMENT : Magnetic and Contactless IC card reader writer TEST DISTANCE

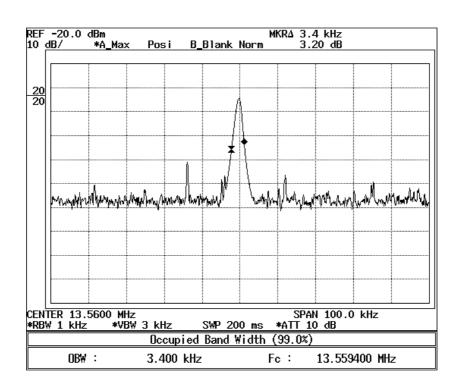
 MODEL
 : ICI3Q8-5293
 DATE
 : 07/22/2008

 S/ N
 : 8050006
 TEMPERATURE
 : 22 deg.C.

 POWER
 : AC120V/60Hz
 HUMIDITY
 : 54 %

MODE : Transmitting Mode 13.56MHz without Tag ENGINEER : Akio Hayashi

FREQ	99% Occupied Bandwidth
[MHz]	[kHz]
13.56	3.40



UL Japan, Inc. Head Office EMC Lab.

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Frequency Tolerance

UL Japan, Inc.

Head Office EMC Lab. No.6 Shielded Room Regulation FCC15.225 (e) / RSS-210 A2.6

Test Distance

Date 07/23/2008
Temperature 26deg.C.
Humidity 56 %

Engineer Satofumi Matsuyama

Condition T nom 20deg.C Vmax AC138V (115%)	Timing	freq	error			
Vmax AC138V					(+/- 0.01%)	
Vmax AC138V		[MHz]	[MHz]	[ppm]	[+/- ppm]	[ppm]
	Power on	13.55944933	-0.00055067	-40.61	100.00	59.39
(115%)	on 2min.	13.55942450	-0.00057550	-42.44	100.00	57.56
	on 5min.	13.55940140	-0.00059860	-44.14	100.00	55.86
	on 10min.	13.55938852	-0.00061148	-45.09	100.00	54.91
T nom 20deg.C	Power on	13.55945649	-0.00054351	-40.08	100.00	59.92
Vnom AC120V	on 2min.	13.55941896	-0.00058104	-42.85	100.00	57.15
(100%)	on 5min.	13.55940037	-0.00059963	-44.22	100.00	55.78
	on 10min.	13.55938751	-0.00061249	-45.17	100.00	54.83
T nom 20deg.C	Power on	13.55941615	-0.00058385	-43.06	100.00	56.94
Vmin AC102V	on 2min.	13.55940310	-0.00059690	-44.02	100.00	55.98
(85%)	on 5min.	13.55939078	-0.00060922	-44.93	100.00	55.07
	on 10min.	13.55938485	-0.00061515	-45.37	100.00	54.63
T max 50deg.C.	Power on	13.55941047	-0.00058953	-43.48	100.00	56.52
Vnom AC120V	on 2min.	13.55937478	-0.00062522	-46.11	100.00	53.89
(100%)	on 5min.	13.55935048	-0.00064952	-47.90	100.00	52.10
	on 10min.	13.55934244	-0.00065756	-48.49	100.00	51.51
40deg.C.	Power on	13.55945043	-0.00054957	-40.53	100.00	59.47
Vnom AC120V	on 2min.	13.55939933	-0.00060067	-44.30	100.00	55.70
(100%)	on 5min.	13.55937268	-0.00062732	-46.26	100.00	53.74
` '	on 10min.	13.55935597	-0.00064403	-47.49	100.00	52.51
30deg.C.	Power on	13.55947944	-0.00052056	-38.39	100.00	61.61
Vnom AC120V	on 2min.	13.55943885	-0.00056115	-41.38	100.00	58.62
(100%)	on 5min.	13.55941516	-0.00058484	-43.13	100.00	56.87
,,	on 10min.	13.55937802	-0.00062198	-45.87	100.00	54.13
20deg.C.	Power on	13.55945649	-0.00054351	-40.08	100.00	59.92
Vnom AC120V	on 2min.	13.55941896	-0.00058104	-42.85	100.00	57.15
(100%)	on 5min.	13.55940037	-0.00059963	-44.22	100.00	55.78
, , , , ,	on 10min.	13.55938751	-0.00061249	-45.17	100.00	54.83
10deg.C.	Power on	13.55951747	-0.00048253	-35.58	100.00	64.42
Vnom AC120V	on 2min.	13.55946660	-0.00053340	-39.34	100.00	60.66
(100%)	on 5min.	13.55943697	-0.00056303	-41.52	100.00	58.48
(10070)	on 10min.	13.55941830	-0.00058170	-42.90	100.00	57.10
0deg.C.	Power on	13.55956442	-0.00043558	-32.12	100.00	67.88
Vnom AC120V	on 2min.	13.55951945	-0.00048055	-35.44	100.00	64.56
(100%)	on 5min.	13.55949044	-0.00050956	-37.58	100.00	62.42
(100,0)	on 10min.	13.55946694	-0.00053306	-39.31	100.00	60.69
-10deg.C.	Power on	13.55958353	-0.00041647	-30.71	100.00	69.29
Vnom AC120V	on 2min.	13.55954344	-0.00045656	-33.67	100.00	66.33
(100%)	on 5min.	13.55951766	-0.00048234	-35.57	100.00	64.43
(10070)	on 10min.	13.55949974	-0.00050026	-36.89	100.00	63.11
-20deg.C	Power on	13.55959576	-0.00030020	-29.81	100.00	70.19
Vnom AC120V	on 2min.	13.55956860	-0.00043140	-31.81	100.00	68.19
(100%)	on 5min.	13.55954906	-0.00045140	-33.26	100.00	66.74
(100/0)	on 10min.	13.55953430	-0.00045094	-34.34	100.00	65.66
T min -30deg.C	Power on	13.55959886	-0.00040370	-34.54	100.00	70.42
Vnom AC120V	on 2min.	13.55959252	-0.00040748	-30.05	100.00	69.95
(100%)	on 5min.	13.55958063	-0.00040748	-30.03	100.00	69.07
(100/0)	on 10min.	13.55956686	-0.00041937	-30.93	100.00	68.06

^{*} for IC application (RSS-Gen 4.7 requirement)

UL Japan, Inc. Head Office EMC Lab.

Company

Model

Power

Mode

S/N

Equipment

NIDEC SANKYO CORPORATION

ICI3Q8-5293

AC120V / 60Hz

8050006

Magnetic and Contactless IC Card Reader Writer

Transmitting Mode 13.56MHz (No Modulation)

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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APPENDIX 3: Test instruments

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	CE/RE	2008/03/25 * 12
MOS-13	Thermo- Hygrometer	Custom	CTH-180	CE/RE	2008/01/10 * 12
MJM-06	Measure	PROMART	SEN1955	CE/RE	-
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	CE/RE	-
MSA-09	Spectrum Analyzer	Advantest	R3273	CE/RE	2007/12/21 * 12
MTR-08	Test Receiver	Rohde & Schwarz	ESCI	CE/RE	2008/06/12 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE(EUT)	2008/02/19 * 12
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	CE(AE)	2008/02/20 * 12
MTA-07	Terminator	MCL	BTRM-50	CE	2008/02/04 * 12
MCC-112	Coaxial cable	Fujikura/Suhner/ TSJ	-	RE/CE	2008/07/03 * 12
MCC-51	Coaxial cable	UL Japan	-	RE	2008/07/18 * 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
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-31	Coaxial cable	UL Japan	-	RE	2008/06/20 * 12
MOS-14	Thermo- Hygrometer	Custom	CTH-180	FT	2008/01/10 * 12
MUC-01	Universal Counter	Agilent	53132A	FT	2008/06/09 * 12
MCH-04	Temperature and Humidity Chamber	Espec	PL-2KP	FT	2007/08/30 * 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: CE: Conducted Emission

RE: Radiated Emission FT: Frequency Tolerance

UL Japan, Inc. Head Office EMC Lab.

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APPENDIX 4: Transmission Data Specification

RF transmission data

Table 1 - RF transmission data (ICI3Q8-5293 → PICC)

Command	Bit coding	Bit rate	Frame	Data	bytes	(Hex)						
WUPA	Modified	106kbit/s	Short	52								
ANTICOLLISION	Miller with		Standard	93	20							
SELECT	ASK 100%			93	70	ukto*	uid1"	uktz*	ukt3*	bees	cico.	crc1*

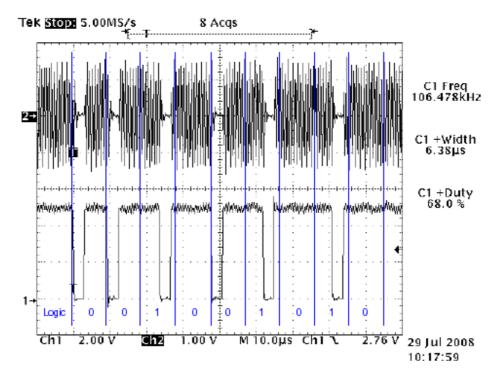
^{*}These data bytes are unique by the Proximity IC card.

Table 2 - RF frame bits (ICI3Q8-5293 → PICC)

Command	Fra	amet	ıts																			
WUPA	Ø		52h E						ш													
	0	0	1	0	0	1	0	1	0													
ANTICOLLISION	Ø		99h						Р	20h P					Р	Е						
	0	1	1	0	0	1	0	0	1	1	0	0	٥	0	0	1	0	0	0	0		
SELECT	S				93	h				Р				70t	1				Р		uld0~3, bcc, cro0~1	E
	0	1	1	0	0	1	0	0	1	1	0	0	0	0	1	1	1	0	0	Г		0

Bit coding example

Figure 2 - Bit coding example: WUPA (52h)



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