

DATA OF CONDUCTION TEST

UL Japan, Inc.

YOKOWA No.1 SHIELD TEST ROOM

Report No. : 31KE0311-YW-01

Power : DC5V (PC: AC120V/60Hz)  
 Mode : Authenticate Mode  
 Remarks :  
 Date : 2/23/2007  
 Phase : Single Phase  
 Temperature : 23 °C  
 Humidity : 39 %  
 Regulation : FCC Part15B CLASS B (CISPR)

Engineer : Masanori Nishiyama

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV				QP	AV	QP	AV	QP	AV
		[dB μ V]		[dB μ V]					[dB]		[dB μ V]		[dB μ V]	
1.	0.1500	48.9	—	49.3	—	0.0	0.1	0.0	49.4	—	66.0	56.0	16.6	—
2.	0.2092	46.8	—	46.7	—	0.1	0.1	0.0	47.0	—	63.2	53.2	16.2	—
3.	0.4881	37.2	—	34.8	—	0.1	0.2	0.0	37.5	—	56.2	46.2	18.7	—
4.	0.5555	38.2	—	39.1	—	0.1	0.2	0.0	39.4	—	56.0	46.0	16.6	—
5.	1.3164	35.5	—	31.8	—	0.1	0.3	0.0	35.9	—	56.0	46.0	20.1	—
6.	6.0197	29.1	—	28.0	—	0.4	0.5	0.0	30.0	—	60.0	50.0	30.0	—
7.	20.6783	24.2	—	23.0	—	1.2	0.9	0.0	26.3	—	60.0	50.0	33.7	—

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

# DATA OF CONDUCTION TEST

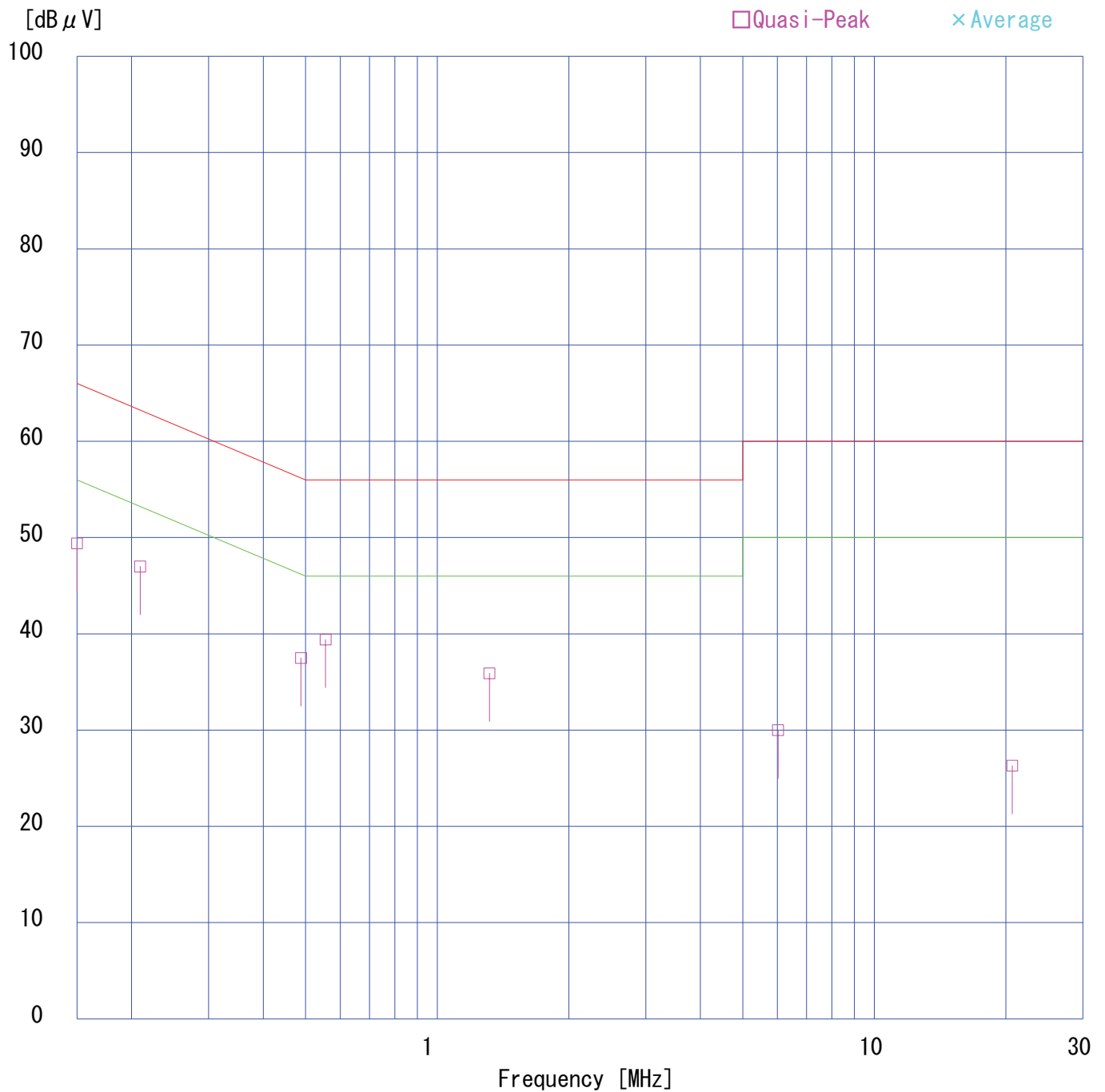
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# DATA OF CONDUCTION TEST CHART

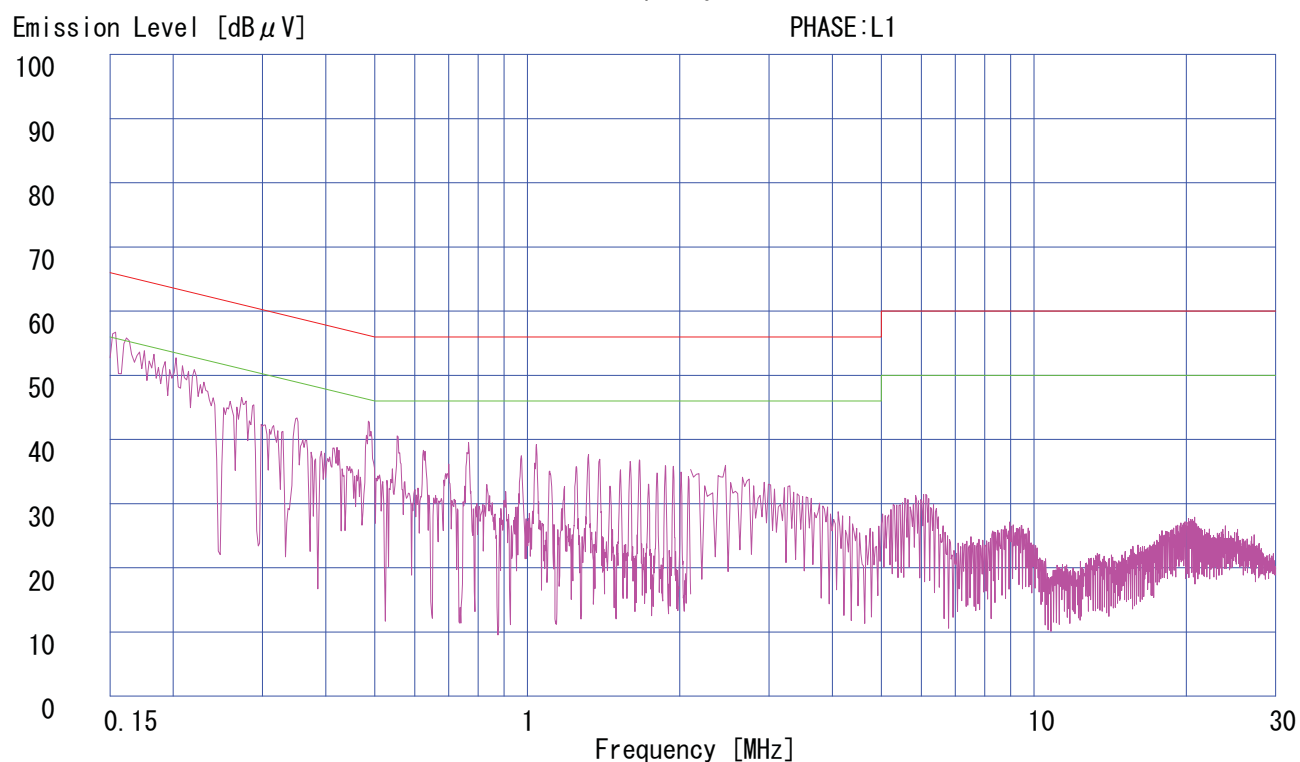
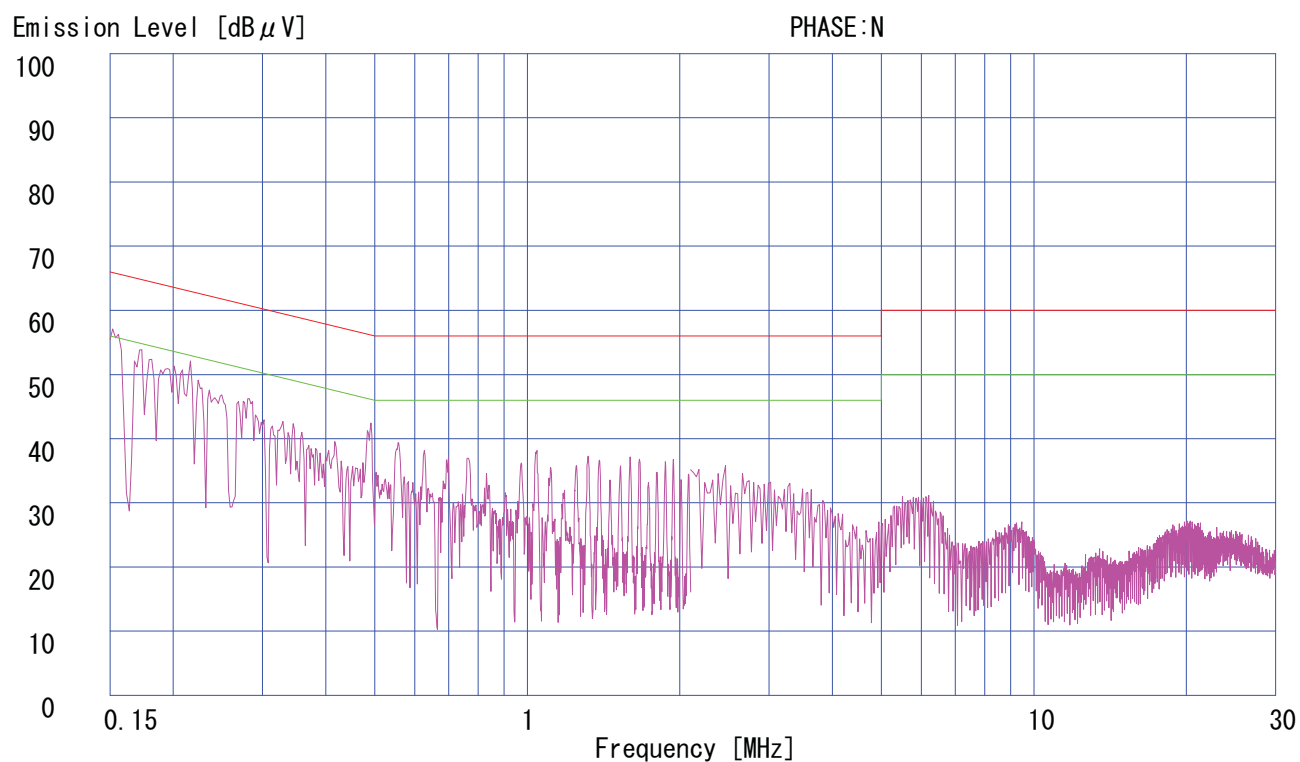
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Regulation 2 : None

Engineer : Masanori Nishiyama



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No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB $\mu$ V]	AV	QP [dB $\mu$ V]	AV				QP [dB]	AV [dB $\mu$ V]	QP [dB $\mu$ V]	AV [dB $\mu$ V]	QP [dB]	AV [dB]
1.	0.1500	48.5	—	48.5	—	0.0	0.1	0.0	48.6	—	66.0	56.0	17.4	—
2.	0.2106	45.7	—	45.2	—	0.1	0.1	0.0	45.9	—	63.2	53.2	17.3	—
3.	0.4836	42.7	—	42.9	—	0.1	0.2	0.0	43.2	—	56.3	46.3	13.1	—
4.	0.6895	35.1	—	34.9	—	0.1	0.2	0.0	35.4	—	56.0	46.0	20.6	—
5.	1.0371	37.3	—	36.4	—	0.1	0.3	0.0	37.7	—	56.0	46.0	18.3	—
6.	6.0099	30.3	—	29.2	—	0.4	0.5	0.0	31.2	—	60.0	50.0	28.8	—
7.	20.0683	9.6	—	8.7	—	1.1	0.9	0.0	11.6	—	60.0	50.0	48.4	—

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

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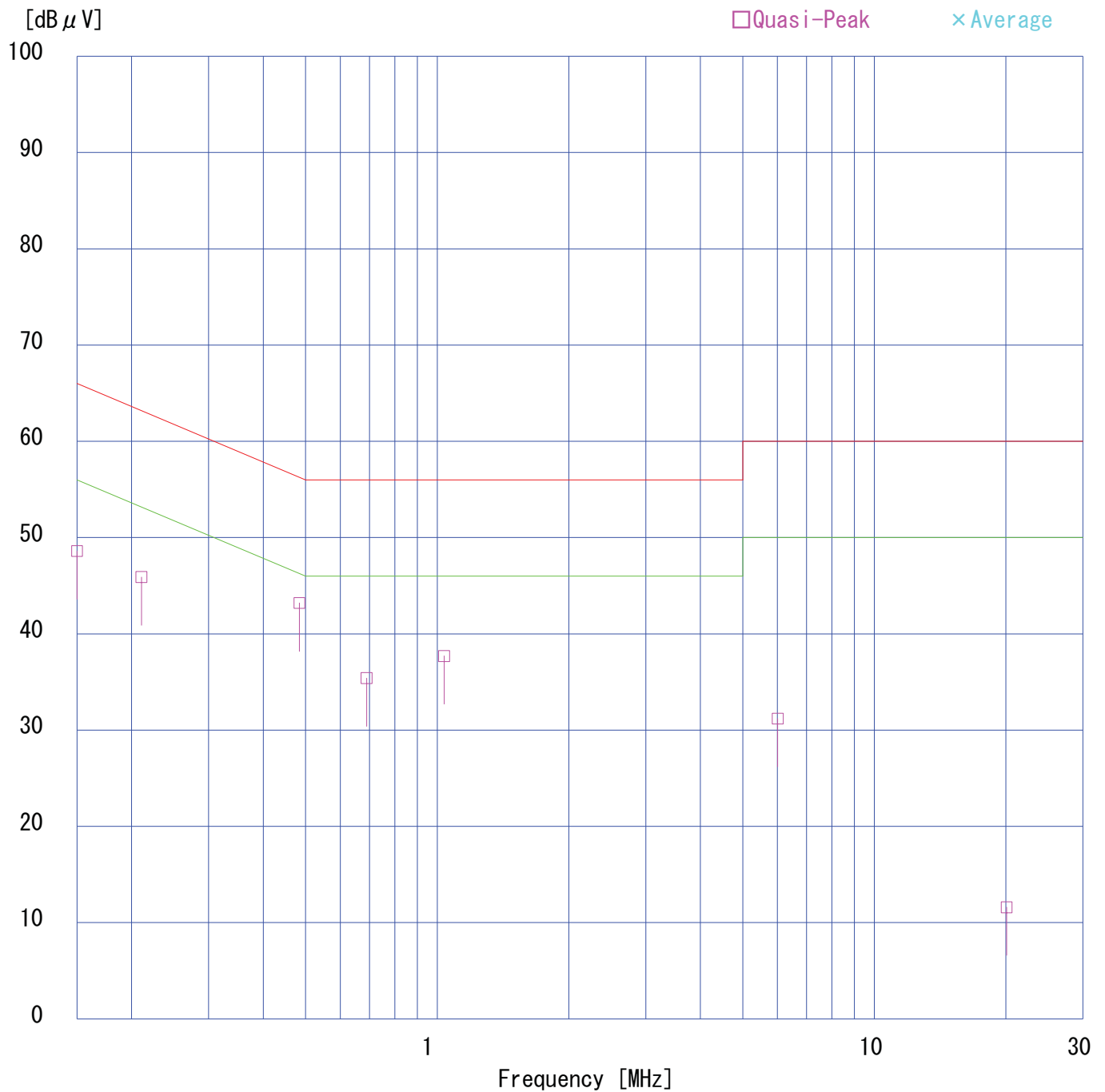
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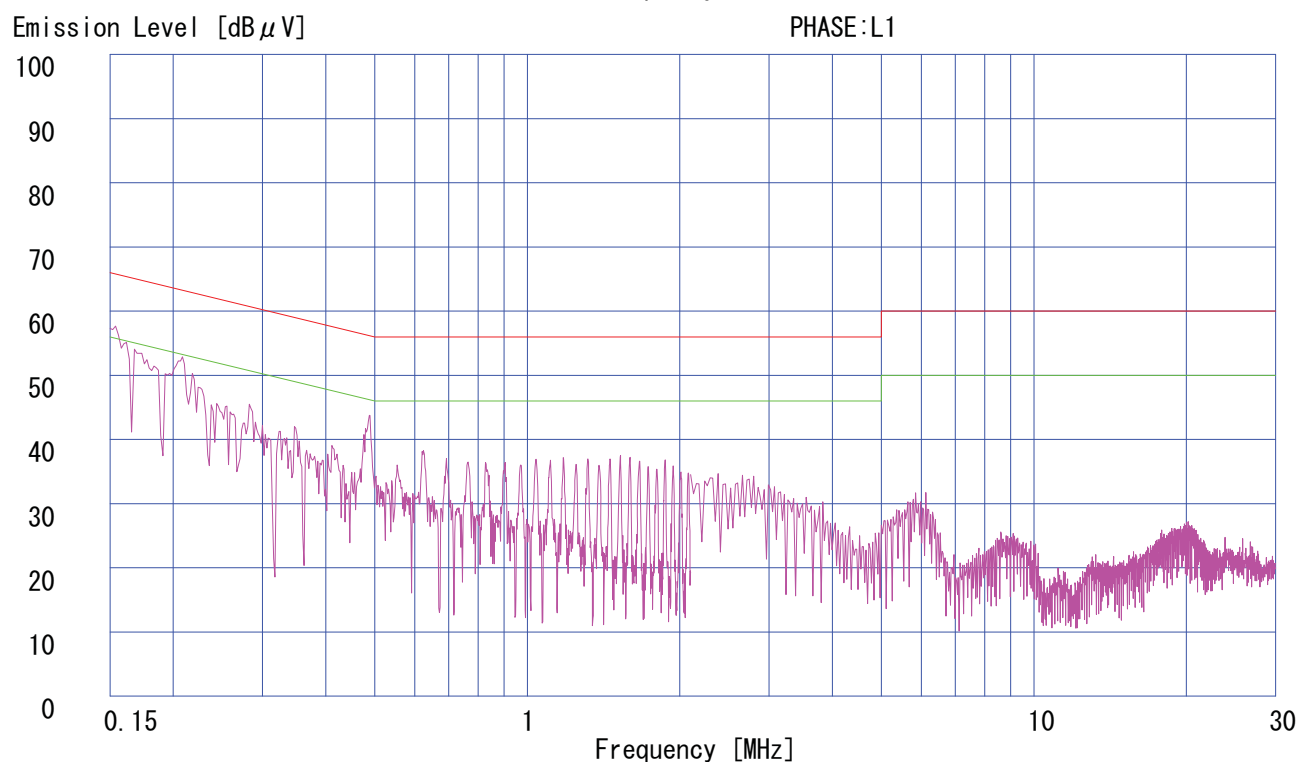
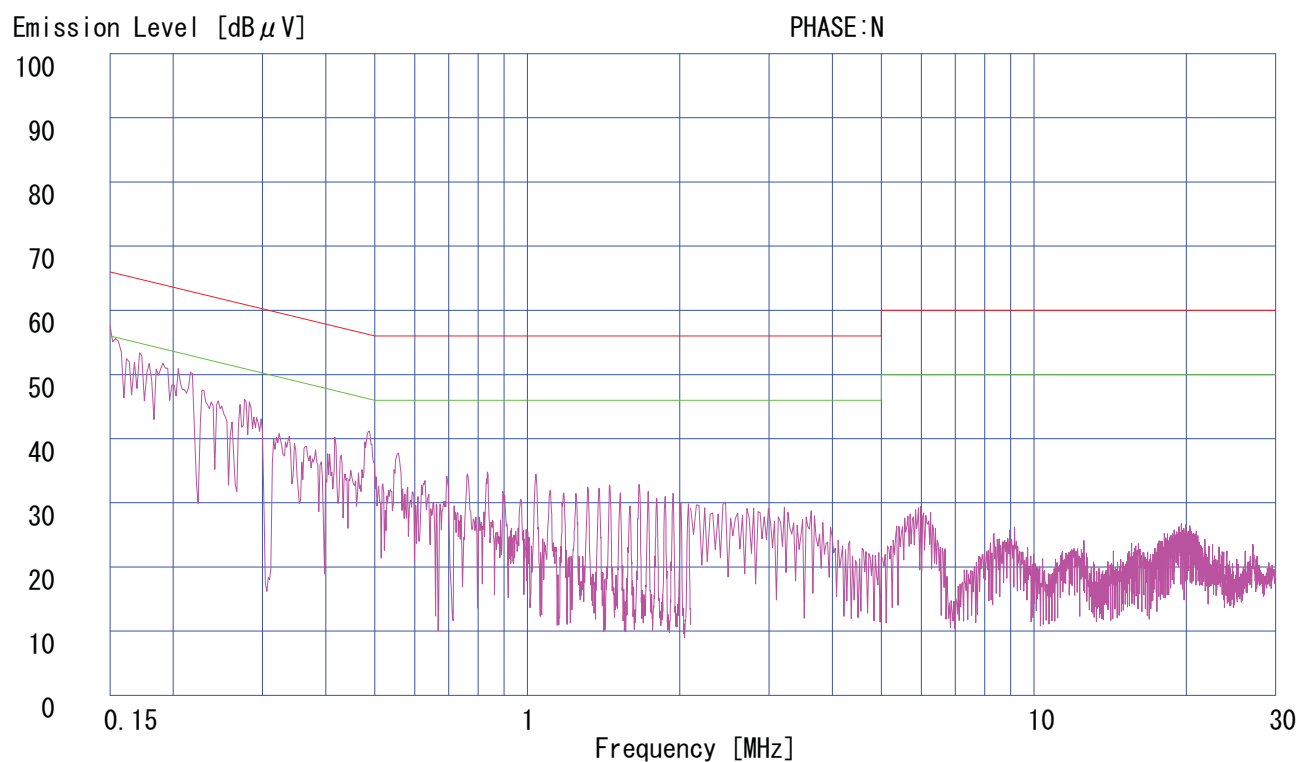
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Date : 2/23/2007  
Phase : Single Phase  
Temperature : 23 °C  
Humidity : 39 %  
Regulation 1 : FCC Part15B CLASS B(CISPR)  
Regulation 2 : None

Engineer : Masanori Nishiyama



# DATA OF RADIATION TEST

UL Japan, Inc.

YOKOWA No.1 OPEN TEST SITE

Report No. : 31KE0311-YW-01

Power : DC5V (PC: AC120V/60Hz)  
Mode : Authenticate Mode  
Remarks :  
Date : 2/23/2007  
Test Distance : 3 m  
Temperature : 21 °C  
Humidity : 32 %  
Regulation : FCC Part15B CLASS B

Engineer : Masanori Nishiyama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB $\mu$ V/m]	MARGIN	
			HOR [dB $\mu$ V]	VER [dB $\mu$ V]					HOR [dB $\mu$ V/m]	VER [dB $\mu$ V/m]		HOR [dB]	VER [dB]
1.	96.01	BB	27.6	31.9	9.3	29.5	1.5	5.9	14.8	19.1	43.5	28.7	24.4
2.	150.02	BB	29.1	35.8	15.3	29.5	1.8	5.9	22.6	29.3	43.5	20.9	14.2
3.	180.01	BB	27.1	33.6	17.2	29.5	2.0	5.9	22.7	29.2	43.5	20.8	14.3
4.	192.00	BB	28.7	34.6	17.2	29.5	2.1	5.9	24.4	30.3	43.5	19.1	13.2
5.	240.01	BB	33.7	29.5	17.2	29.6	2.3	5.9	29.5	25.3	46.0	16.5	20.7
6.	335.97	BB	31.4	29.7	16.3	29.6	2.8	5.9	26.8	25.1	46.0	19.2	20.9
7.	431.98	BB	32.4	31.3	18.2	29.7	3.2	5.9	30.0	28.9	46.0	16.0	17.1

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

Except for the above table: adequate margin data below the limits.

ANT.TYPE : 30-300MHz Biconical, 300-1000MHz Logperiodic

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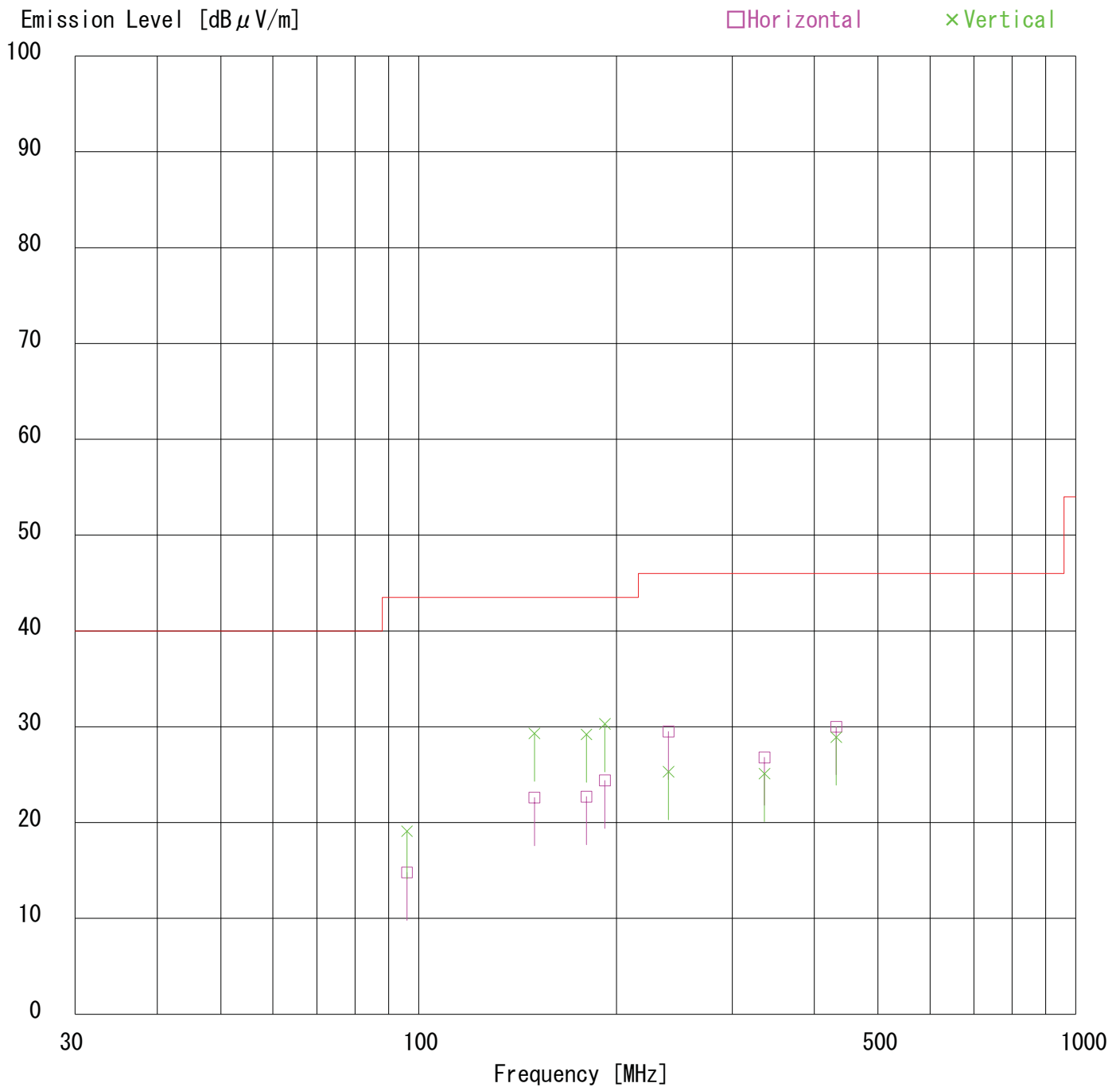
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Temperature : 21 °C  
Humidity : 32 %  
Regulation : FCC Part15B CLASS B

Engineer : Masanori Nishiyama





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UL Japan, Inc.

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Power : DC5V (PC:AC120V/60Hz)  
 Mode : Idle Mode  
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 Date : 2/23/2007  
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Engineer : Masanori Nishiyama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	72.01	BB	34.6	37.4	6.6	29.6	1.3	5.9	18.8	21.6	40.0	21.2	18.4
2.	96.01	BB	32.5	37.9	9.3	29.5	1.5	5.9	19.7	25.1	43.5	23.8	18.4
3.	144.01	BB	33.1	39.0	14.7	29.5	1.8	5.9	26.0	31.9	43.5	17.5	11.6
4.	168.01	BB	32.7	38.1	16.7	29.5	1.9	5.9	27.7	33.1	43.5	15.8	10.4
5.	216.01	BB	36.0	34.0	17.2	29.5	2.2	5.9	31.8	29.8	46.0	14.2	16.2
6.	239.98	BB	34.0	32.0	17.2	29.5	2.3	5.9	29.9	27.9	46.0	16.1	18.1
7.	336.01	BB	31.7	30.3	16.3	29.6	2.8	5.9	27.1	25.7	46.0	18.9	20.3
8.	431.99	BB	32.7	31.4	18.2	29.7	3.2	5.9	30.3	29.0	46.0	15.7	17.0
9.	504.03	BB	37.9	43.9	18.9	29.7	3.5	5.9	36.5	42.5	46.0	9.5	3.5
10.	552.03	BB	37.0	43.1	19.3	29.7	3.7	5.9	36.2	42.3	46.0	9.8	3.7

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

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 ANT.TYPE : 30-300MHz Biconical, 300-1000MHz Logperiodic

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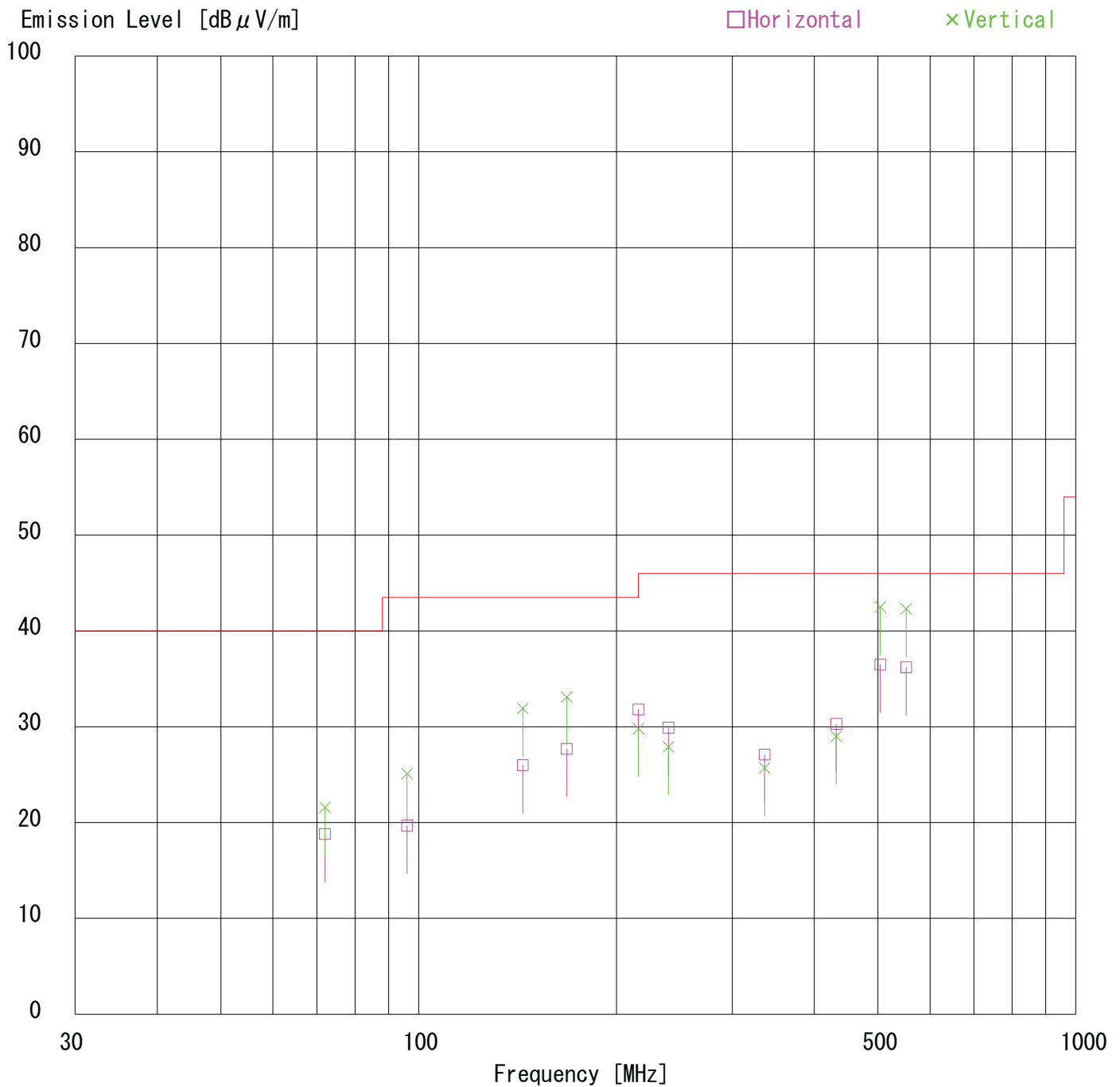
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Regulation : FCC Part15B CLASS B

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### APPENDIX 3 Test Instruments

#### EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
SA-05	Spectrum Analyzer	Advantest	R3271	CE	2006/12/22 * 12
APRCV05	Test Receiver	Rohde & Schwarz	ESS	CE	2006/09/02 * 12
CC-7S	Yokowa No7 Shielded room(CE)	UL Apex	CC-71,CC-72,CC-73,C C-75,SW-71,SW-72	CE	2006/08/28 * 12
TS-09	Tester	MASTECH	M9807A	CE	2006/09/04 * 12
OS-09	Digital Humidity Indicator	SATO	PC-5000TRH	CE	2006/04/25 * 24
YOICE-07	Software for Conducted emission(No.7S/R)	UL Apex	-	CE	-
YJM-01	Measure	Rubber KOMBE	GW-5H99E	CE	-
LS-04	LISN(AMN)	Rohde & Schwarz	ESH3-Z5	CE(EUT)	2006/11/14 * 12
LS-10	LISN(AMN)	Schwarzbeck	NSLK8127	CE	2006/04/11 * 12
AF-02	Pre Amplifier	Anritsu	MH648A	RE	2006/03/23 * 12
AT-01	Attenuator	Anritsu	MP721A	RE	2006/11/07 * 12
BA-10	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/12/05 * 12
APANT12	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	RE	2006/08/05 * 12
TR-08	Test Receiver	Rohde & Schwarz	ESCI	RE	2006/03/04 * 12
CC-10RC	Yokowa No.1 open coaxial(0.01-1000MHz)	UL Apex	CC-11,CC-12,CC-14,C C-15,CC-16,,SW-11,SW-12	RE	2006/09/01 * 12
YOATS-01	Open Test Site	JSE	3m、10m	RE	2006/04/29 * 12
OS-03	Digital Humidity Indicator	SATO	PC-5000TRH-II	RE	2006/01/19 * 24
YOIRE-01	Software for Radiated emission(No.1 site)	UL Apex	Software for Radiated emission(No.1 site)	RE	-
YJM-03	Measure	KOMERI	-		-
AT-10	Attenuator	Anritsu	MP721B	RE	2006/07/03 * 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 :

CE: Conducted emission,

RE: Radiated emission