

EMI TEST REPORT

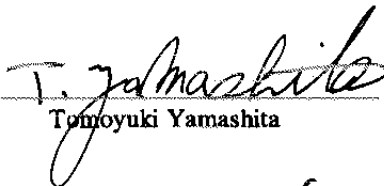
Test Report No. : 23AE0010-YW-1

Applicant: Toshiba Corporation Medical Systems Company
Type of Equipment: Personal Computer
Model No.: FC2710
Test standard: FCC Part 15 Subpart B Class B
FCC ID: QKPFC2710
Test Result: Complied

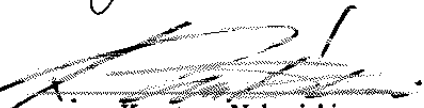
1. This test report shall not be reproduced in full or partial, without the written approval of A-Pex International Co., Ltd.
2. The results in this report apply only to the sample tested.
3. This equipment is in compliance with above regulation. We hereby certify that the data contains a true representation of the EMC profile.
4. The test results in this report are traceable to the national or international standards.

Date of test: August 16, 2002

Tested by:


Tomoyuki Yamashita

Approved by:


Kazutoyo Nakanishi
Site Operation Manager of EMC Section

A-Pex International Co., Ltd.
YOKOWA LAB.

108 Yokowa-cho, Ise-shi, Mie-ken 516-1106 JAPAN

Telephone: +81 596 39 1485
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MF060b(23.04.02)

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A-Pex International Co., Ltd.

YOKOWA LAB.

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SECTION 1: Client information

Company Name : Toshiba Corporation Medical Systems Company
 Brand Name : TOSHIBA
 Address : 1385 Shimoishigami, Otawara-shi, Tochigi-ken 324-8550 JAPAN
 Telephone Number : +81 287 26 6242
 Facsimile Number : +81 287 26 6054
 Contact Person : Hitoshi Shibutani

SECTION 2: Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of Equipment : Personal Computer
 Brand name : TOSHIBA
 Model No. : FC2710
 Serial No. : R013-260102
 Rating : AC 100-120V/ AC 200-240V, 50Hz/ 60Hz
 Country of Manufacture : Japan
 Receipt Date of Sample : August 8, 2002
 Condition of E.U.T. : Production model

2.2 Product description

Model: FC2710, referred to as the EUT in this report, is the Personal Computer designed for a data processing unit of automated biochemical analyzer.

Dimension: 363(W) x 406(D) x 181(H) mm

Weight: 11 kg

The clock frequency used in the EUT as follows:

Unit	Device	OSC Freq.	Input Freq.	Operation Freq.	
Main Board	CPU	-	66.6MHz	566MHz	PLL
	System Controller	-	33.3MHz	33.3MHz	PLL
		-	66.6MHz	66.6MHz	
	OSC	14.31818MHz	-	14.31818MHz	
		-	-	33.3MHz	PLL
		-	-	48MHz	PLL
		-	-	66.6MHz	PLL
	I/O Controller	32.768kHz	-	32.768kHz	
		-	48MHz	48MHz	
		-	33.3MHz	33.3MHz	
		-	14.31818MHz	14.31818MHz	
-		33.3MHz	8.325MHz	PLL	
EC	8.00MHz	-	8.00MHz		
Super I/O	-	14.31818MHz	14.31818MHz		
Video Board	Video Controller	14.31818MHz	-	40MHz	PLL

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SECTION 3: Test specification, procedures and results

3.1 Test Specification

Test Specification : FCC Part 15 Subpart B
Title : FCC 47CFR Part15 Radio Frequency Device
Subpart B Unintentional Radiators

3.2 Procedures & results

Item	Test Procedure	Limits	Deviation	Worst margin	Result
Conducted emission	ANSI C63.4:2000	Class B	N/A	6.6 dB (7.8032MHz: N)	Complied
Radiated emission	ANSI C63.4:2000	Class B	N/A	1.6 dB (465.57MHz: Horizontal)	Complied

3.3 Additions or deviations to standards

No addition, deviation or exclusion has been made from standards.

3.4 Confirmation

A-Pex International Co., Ltd. hereby confirms that E.U.T., in the configuration tested, complies with the specifications FCC Part 15 Subpart B Class B.

3.5 Uncertainty

Conducted emission test

The measurement uncertainty (with a 95% confidence level) for this test was ± 2.0 dB.

The data listed in this test report has enough margin, more than site margin.

Radiated Emission Test (3m)

The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is ± 4.4 dB.

The data listed in this test report has enough margin, more than site margin.

The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is ± 4.8 dB.

The data listed in this test report may exceed the test limit because it does not have enough margin.

The measurement uncertainty (with a 95% confidence level) for this test using Horn antenna is ± 5.8 dB.

The data listed in this test report has enough margin, more than site margin.

3.6 Test Location

A-Pex International Co.,Ltd. Yokowa No.2 test site and Shielded room (No.2 site)

108 Yokowa-cho, Ise-shi, Mie-ken 516-1106 Japan

Telephone number : +81-596-39-1485

Facsimile number : +81-596-39-0232

This site has been fully described in a report submitted to FCC office, and listed on October 26, 2000(Registration number: 90411).

*NVLAP Lab. code : 200109-0

3.7 Test setup, Data of EMI & Test instruments

Refer to Appendix 1 to 3.

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SECTION 4: Operation of E.U.T. during testing

4.1 Operating Modes

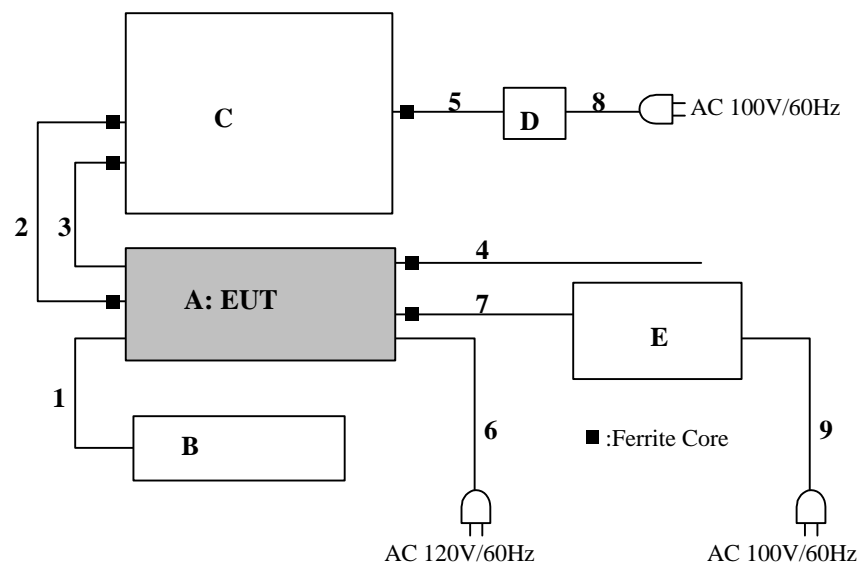
The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to typical use.

Test sequence is used: Running mode, Floppy Running, Hard Disk Running, Standby

1. FDD and HDD read/ write operations
2. 15 inch LCD with touch screen operations

Justification: The system was configured in typical fashion (as a customer would normally use it) for testing.

4.2 Configuration and peripherals



*Cabling was taken into consideration and test data was taken under worse case conditions.

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Description of EUT and Support equipment

No.	Item	Model number	Serial number	Manufacturer	FCC ID
A	Personal Computer	FC2710	R013-260102	TOSHIBA	QKPFC2710
B	Keyboard	FKB8720 SERIES	Q9000002	Microsoft	C9SKB8720
C	LCD Touch Monitor	41-81367-112	48590219TA00095	3M Touch Systems, Inc.	DoC
D	AC Adaptor	HASU05F	201024A0570	HUA JUNG COMP. Co., Ltd.	N/A
E	Printer	C3990A	JPHL021975	Hewlett Packard	DoC

List of cables used

No.	Name	Length (m)	Shield	Backshell Material	Remark
1	Keyboard Cable	1.6	Shielded	Polyvinyl chloride	-
2	RGB Cable	1.7	Shielded	Polyvinyl chloride	-
3	Serial Cable	1.8	Shielded	Polyvinyl chloride	-
4	GPIB Cable	3.9	Shielded	Metal	-
5	DC Power Cable	1.5	Unshielded	Polyvinyl chloride	-
6	AC Power Cable	2.3	Unshielded	Polyvinyl chloride	-
7	Printer Cable	2.5	Shielded	Polyvinyl chloride	-
8	AC Power Cable	1.9	Unshielded	Polyvinyl chloride	-
9	AC Power Cable	2.5	Unshielded	Polyvinyl chloride	-

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SECTION 5: Conducted emission

5.1 Operating environment

The test was carried out in a shielded room 4.5 x 3.6 x 2.7m.

Temperature : See data

Humidity : See data

5.2 Test configuration

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane.

The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT and its peripherals was aligned and flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. I/O cables and AC cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged at a 40cm height to the ground plane. Each EUT current-carrying power lead, except the ground (safety) lead, was individually connected through a LISN to the input power source. All unused 50ohm connectors of the LISN were resistively terminated in 50ohm when not connected to the measuring equipment.

A drawing of the set up is shown in the photos of Appendix 1.

5.3 Test conditions

Frequency range : 150kHz-30MHz

EUT position : Table top

EUT operation mode : Running mode, Floopy Running, Hard Disk Running, Standby

5.4 Test procedure

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a shielded room.

The EUT was connected to a Line Impedance Stabilization Network (LISN).

An overview sweep with peak detection has been performed.

The measurements have been performed with a quasi-peak detector, if necessary with an average detector.

The conducted emission measurements were made with the following detector function of the test receiver.

Detector Type : QP

IF Bandwidth : 10kHz

5.5 Results

Summary of the test results: Pass

Date : August 16, 2002

Test engineer : Tomoyuki Yamashita

A-Pex International Co., Ltd.

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SECTION 6: Radiated emission

6.1 Operating environment

The test was carried out in an open site.

Temperature : See data
Humidity : See data

6.2 Test configuration

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane.

The rear of EUT and its peripherals was aligned and flushed with rear of tabletop. I/O cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged 40cm height to the ground plane. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

A drawing of the set up is shown in the photos of Appendix 1.

6.3 Test conditions

Frequency range : 30MHz-5000MHz
Test distance : 3m
EUT position : Table top
EUT operation mode : Running mode, Floopy Running, Hard Disk Running, Standby

6.4 Test procedure

The Radiated Electric Field Strength intensity has been measured on an open test site with a ground plane and at a distance of 3m.

Pre check measurements were performed with a search coil at 80-90MHz, 270-290MHz and 500-700MHz which are high-level emission in a screened room to distinguish disturbances of EUT from the ambient noise.

Measurements were performed with quasi-peak and average detectors.

The measuring antenna height was varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization.

The radiated emission measurements were made with the following detector function of the test receiver and the spectrum analyzer.

Frequency range	: 30 MHz – 1GHz	: 1GHz – 5GHz
Detector Type	: QP	: AV
IF Bandwidth	: 120kHz	: RBW: 1MHz/ VBW: 10Hz

6.5 Results

Summary of the test results: Pass

Date : August 16, 2002

Test engineer : Tomoyuki Yamashita

A-Pex International Co., Ltd.

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Contents of Appendixes

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APPENDIX 2: Data of EMI test

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APPENDIX 3: Test Instruments

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**Conducted emission
Photograph 1**



Photograph 2



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**Radiated emission
Photograph 1**



Photograph 2



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MF060b(23.04.02)

DATA OF CONDUCTION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23AE0010-YW-1

Applicant : TOSHIBA CORPORATION MEDICAL SYSTEMS COMPANY
 Kind of Equipment : Personal Computer
 Model No. : FC2710
 Serial No. :
 Power : AC120V/60Hz
 Mode : Running
 Remarks : FCC ID: QKPF02710
 Date : 8/16/2002
 Phase : Single Phase
 Temperature : 26 °C
 Humidity : 60 %
 Regulation : FCC Part15B CLASS B

T. Yamashita
 Engineer : Tomoyuki Yamashita

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dBuV]	AV	QP [dBuV]	AV				QP [dBuV]	AV	QP [dBuV]	AV	QP [dB]	AV
1.	0.7709	31.9	-	34.2	-	0.2	0.3	0.0	34.7	-	48.0	-	13.3	-
2.	1.3229	33.0	-	33.8	-	0.2	0.4	0.0	34.4	-	48.0	-	13.6	-
3.	3.5847	33.7	-	35.6	-	0.3	0.4	0.0	36.3	-	48.0	-	11.7	-
4.	7.8032	40.4	-	40.1	-	0.4	0.6	0.0	41.4	-	48.0	-	6.6	-
5.	13.7560	35.3	-	35.1	-	0.6	0.7	0.0	36.6	-	48.0	-	11.4	-
6.	23.1200	32.1	-	31.8	-	0.9	0.9	0.0	33.9	-	48.0	-	14.1	-

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

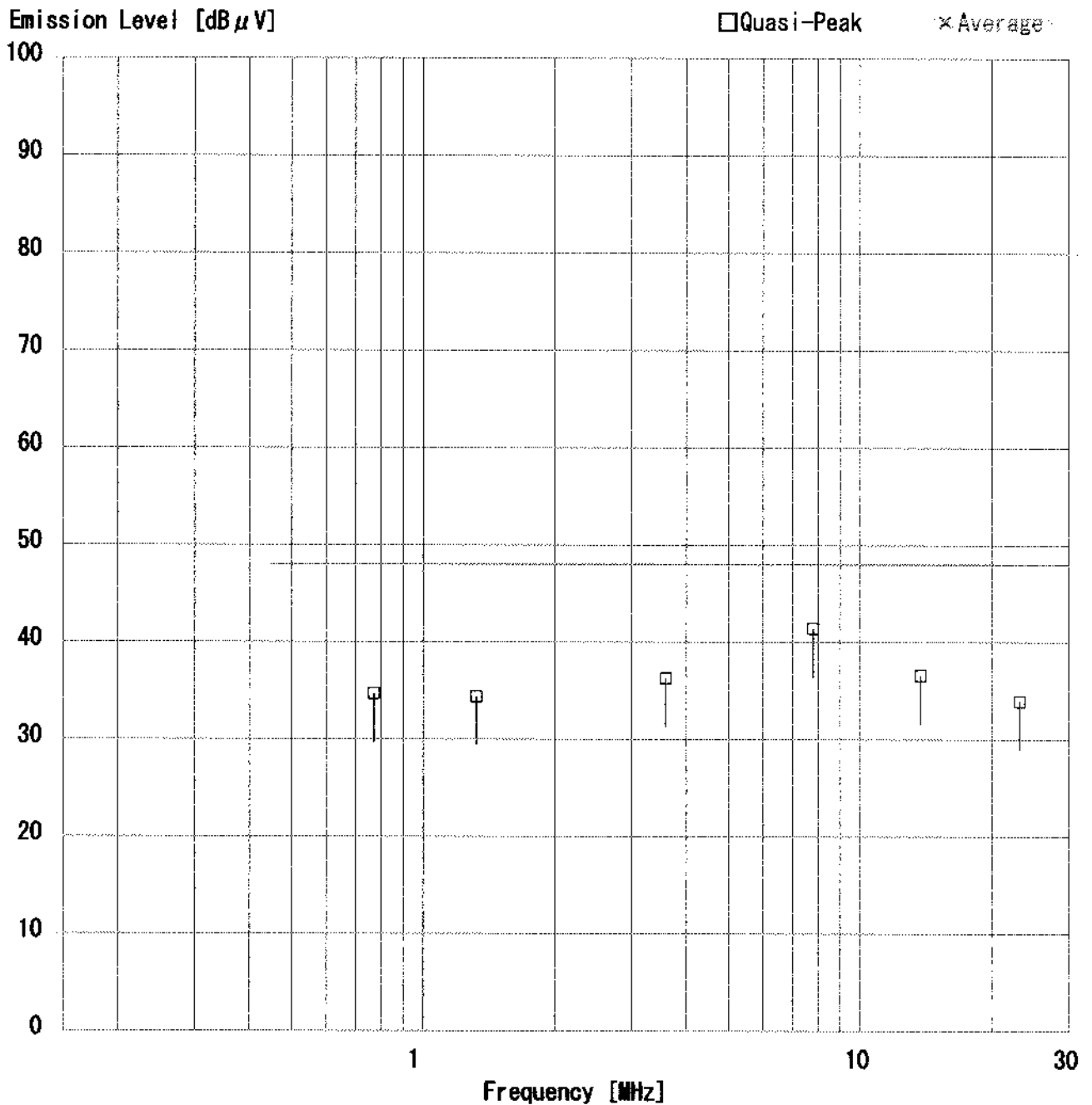
Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23AE0010-YW-1

Applicant : TOSHIBA CORPORATION MEDICAL SYSTEMS COMPANY
Kind of Equipment : Personal Computer
Model No. : FC2710
Serial No. :
Power : AC120V/60Hz
Mode : Running
Remarks : FCC ID: QKPC2710
Date : 8/16/2002
Phase : Single Phase
Temperature : 26 °C
Humidity : 60 %
Regulation : FCC Part15B CLASS B

T. Yamashita
Engineer : Tomoyuki Yamashita



DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.

YOKOWA No.2 OPEN TEST SITE

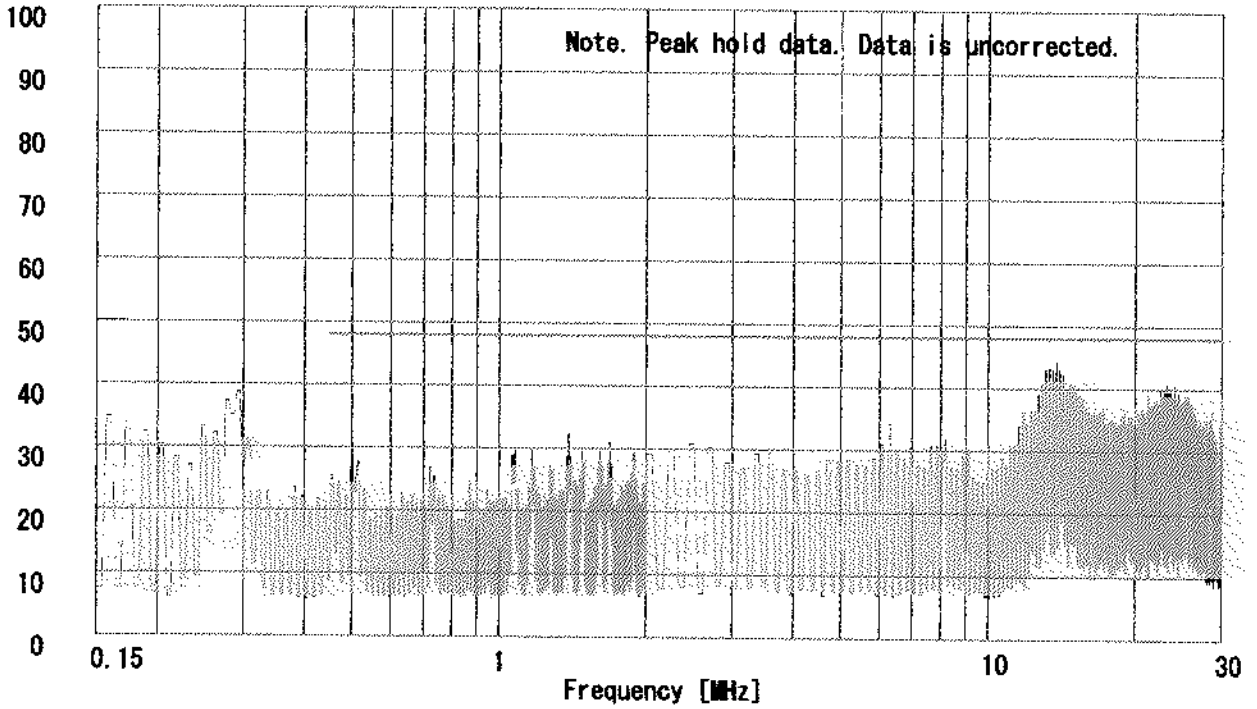
Report No. : 23AE0010-YW-1

Applicant : TOSHIBA CORPORATION MEDICAL SYSTEMS COMPANY
Kind of Equipment : Personal Computer
Model No. : FC2710
Serial No. :
Power : AC120V/60Hz
Mode : Running
Remarks : FCC ID: QKPC2710
Date : 8/16/2002
Phase : Single Phase
Temperature : 26 °C
Humidity : 60 %
Regulation 1 : FCC Part15B CLASS B
Regulation 2 : None

T. Yamashita
Engineer : Tomoyuki Yamashita

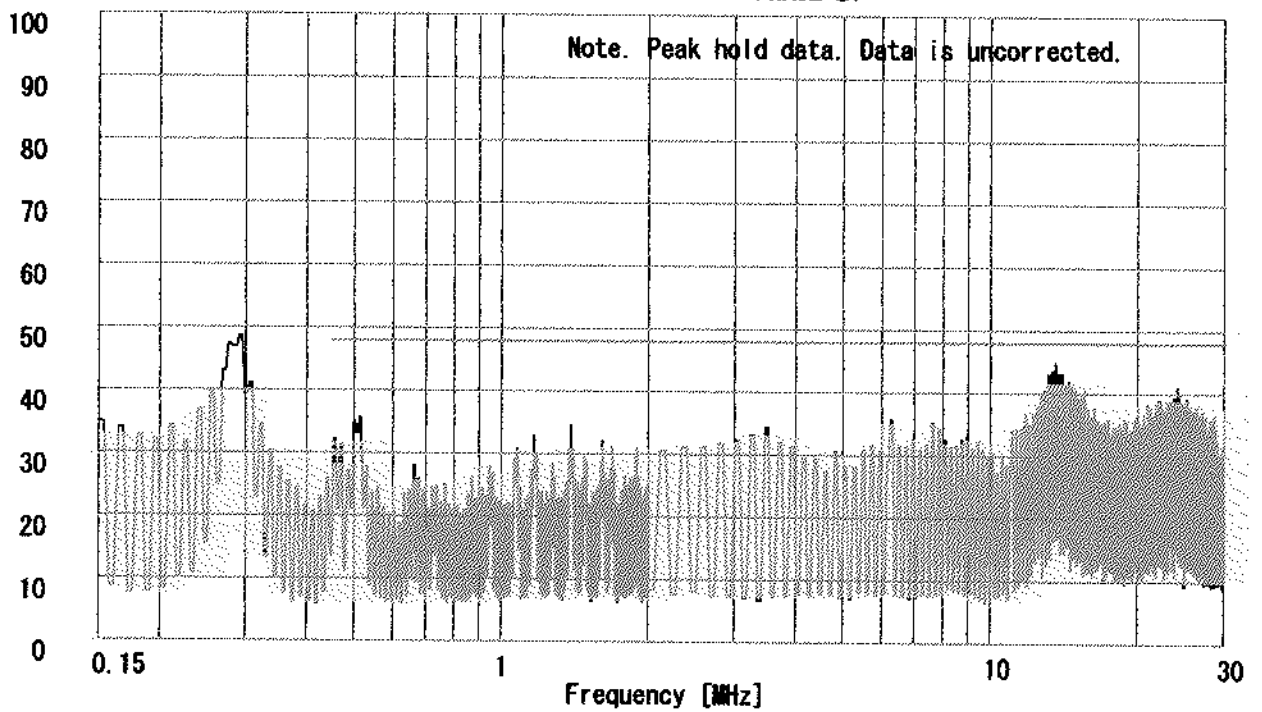
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1

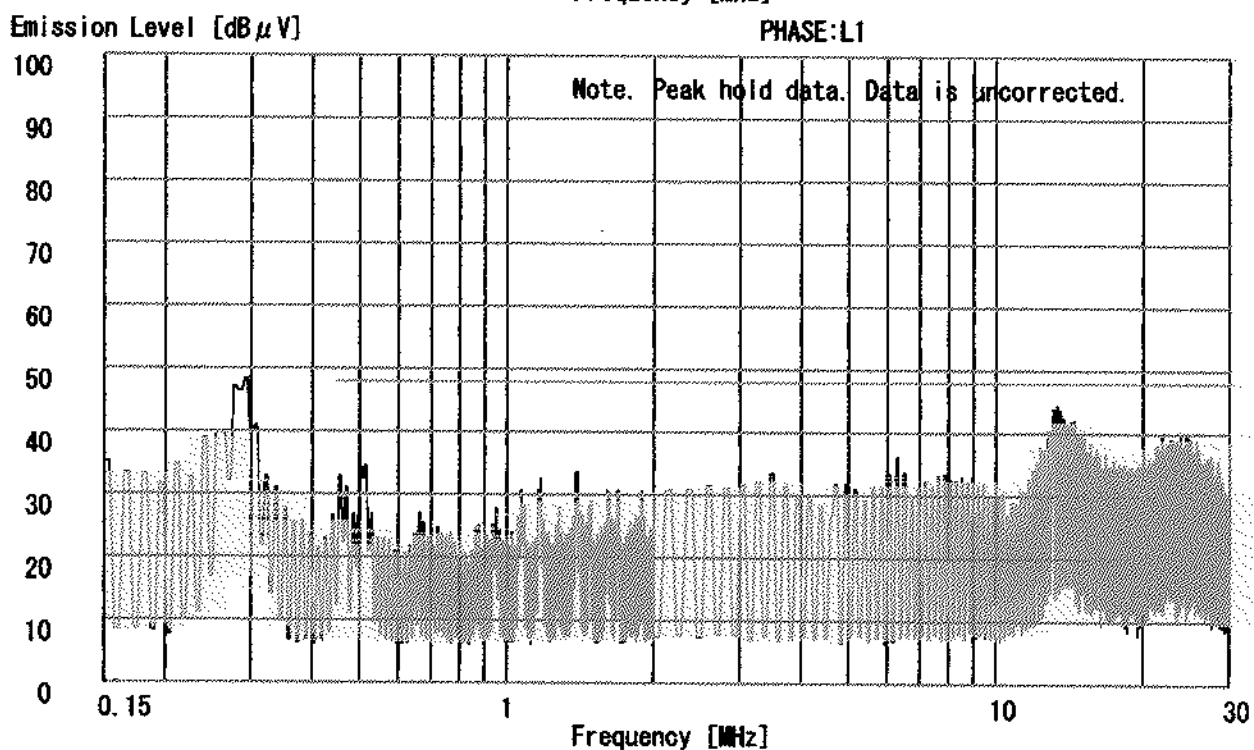
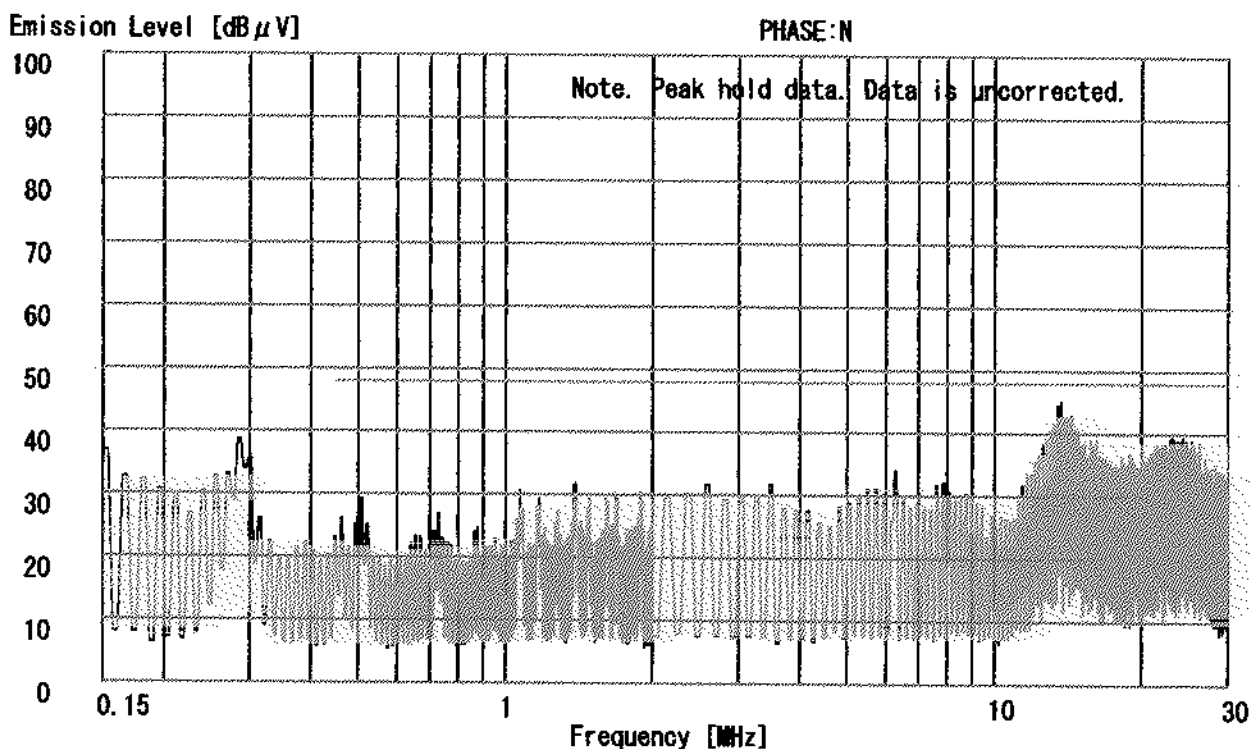


DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23AE0010-YW-1

Applicant : TOSHIBA CORPORATION MEDICAL SYSTEMS COMPANY
Kind of Equipment : Personal Computer
Model No. : FC2710
Serial No. :
Power : AC120V/60Hz
Mode : Floppy Running
Remarks : FCC ID: QKPF02710
Date : 8/16/2002
Phase : Single Phase
Temperature : 26 °C
Humidity : 60 %
Regulation 1 : FCC Part15B CLASS B
Regulation 2 : None

T. Yamashita
Engineer : Tomoyuki Yamashita



DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.

YOKOWA No.2 OPEN TEST SITE

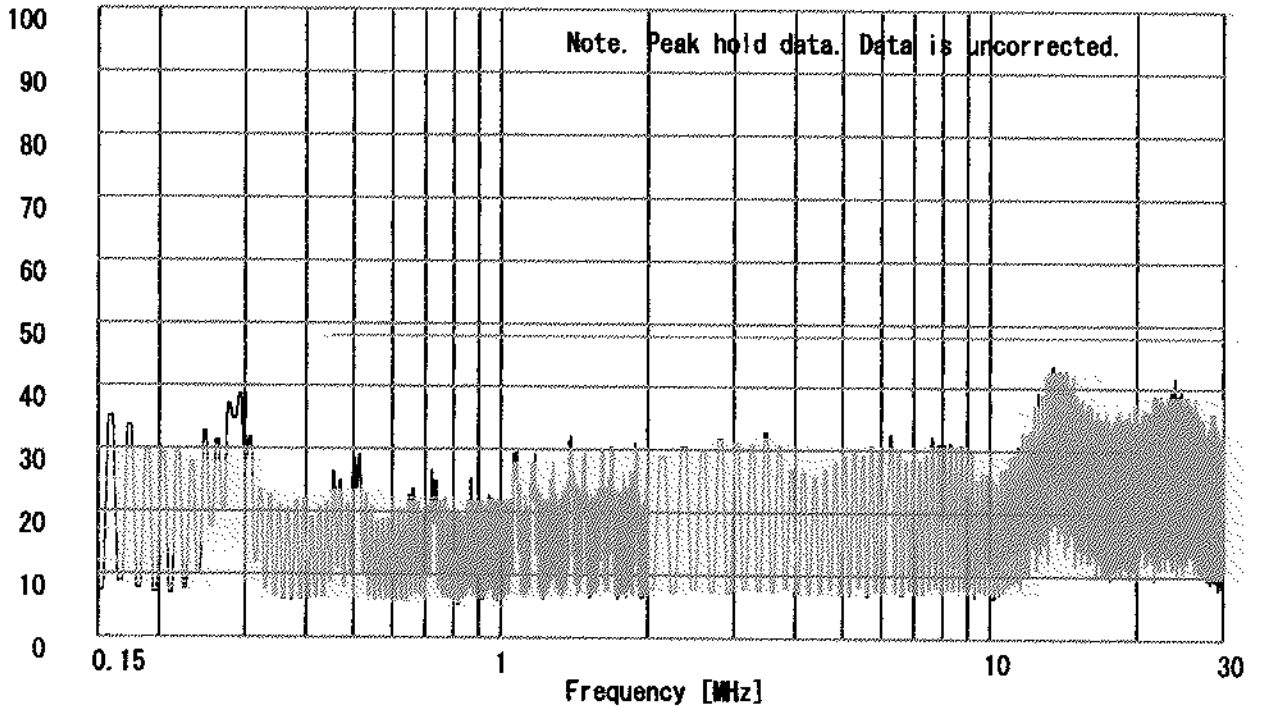
Report No. : 23AE0010-YW-1

Applicant : TOSHIBA CORPORATION MEDICAL SYSTEMS COMPANY
Kind of Equipment : Personal Computer
Model No. : FC2710
Serial No. :
Power : AC120V/60Hz
Mode : Hard Disk Running
Remarks : FCC ID: QKPF2710
Date : 8/16/2002
Phase : Single Phase
Temperature : 26 °C
Humidity : 60 %
Regulation 1 : FCC Part15B CLASS B
Regulation 2 : None

T. Yamashita
Engineer : Tomoyuki Yamashita

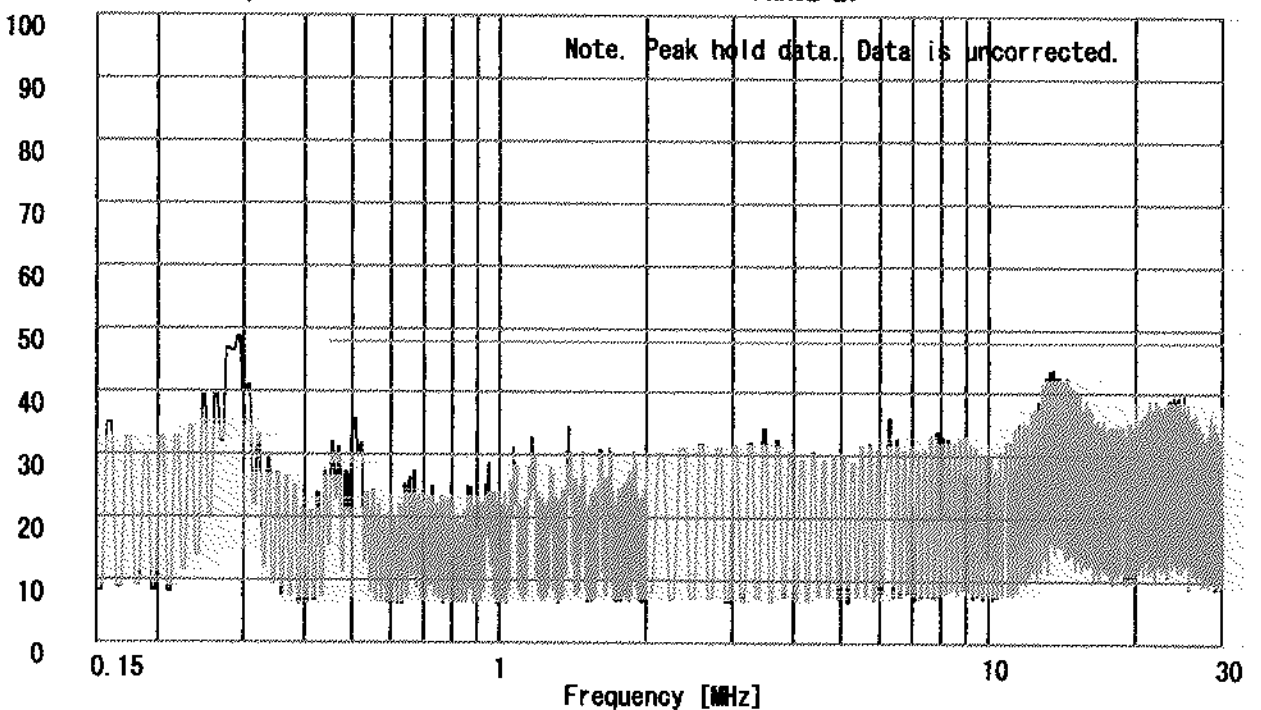
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.

YOKOWA No.2 OPEN TEST SITE

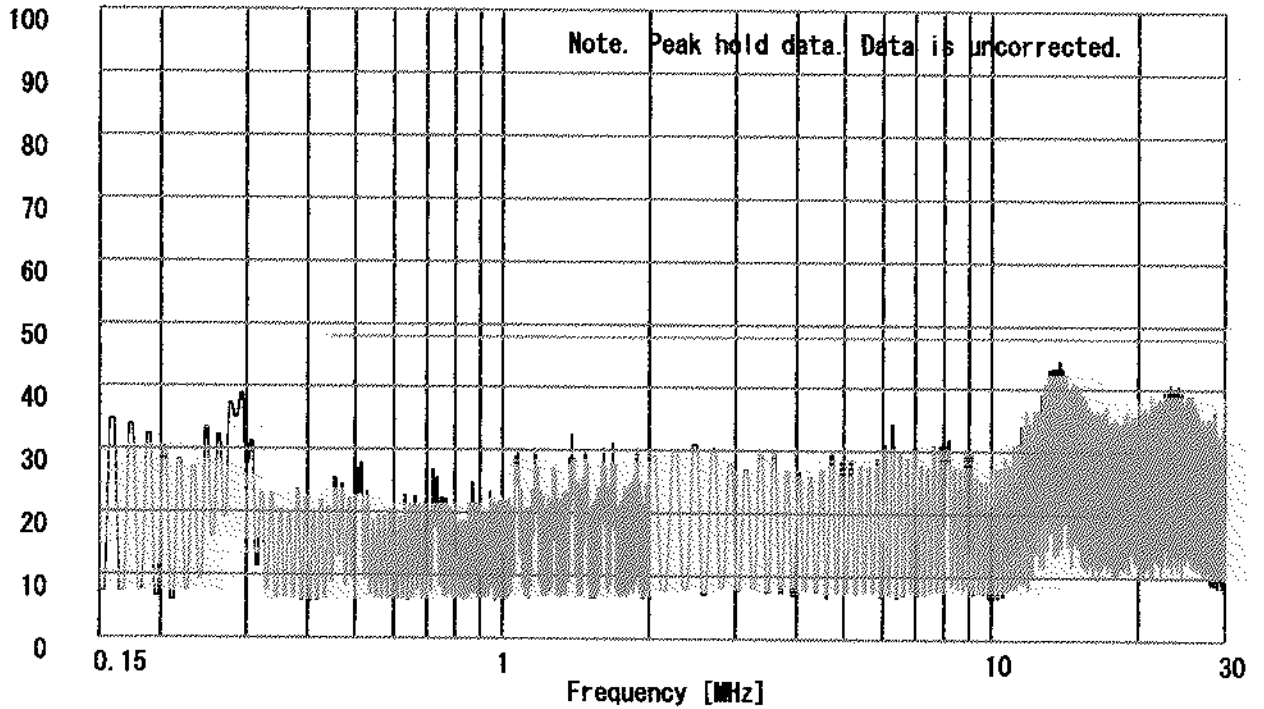
Report No. : 23AE0010-YW-1

Applicant : TOSHIBA CORPORATION MEDICAL SYSTEMS COMPANY
Kind of Equipment : Personal Computer
Model No. : FC2710
Serial No. :
Power : AC120V/60Hz
Mode : Standby
Remarks : FCC ID: QKPF2710
Date : 8/16/2002
Phase : Single Phase
Temperature : 26 °C
Humidity : 60 %
Regulation 1 : FCC Part15B CLASS B
Regulation 2 : None

T. Yamashita
Engineer : Tomoyuki Yamashita

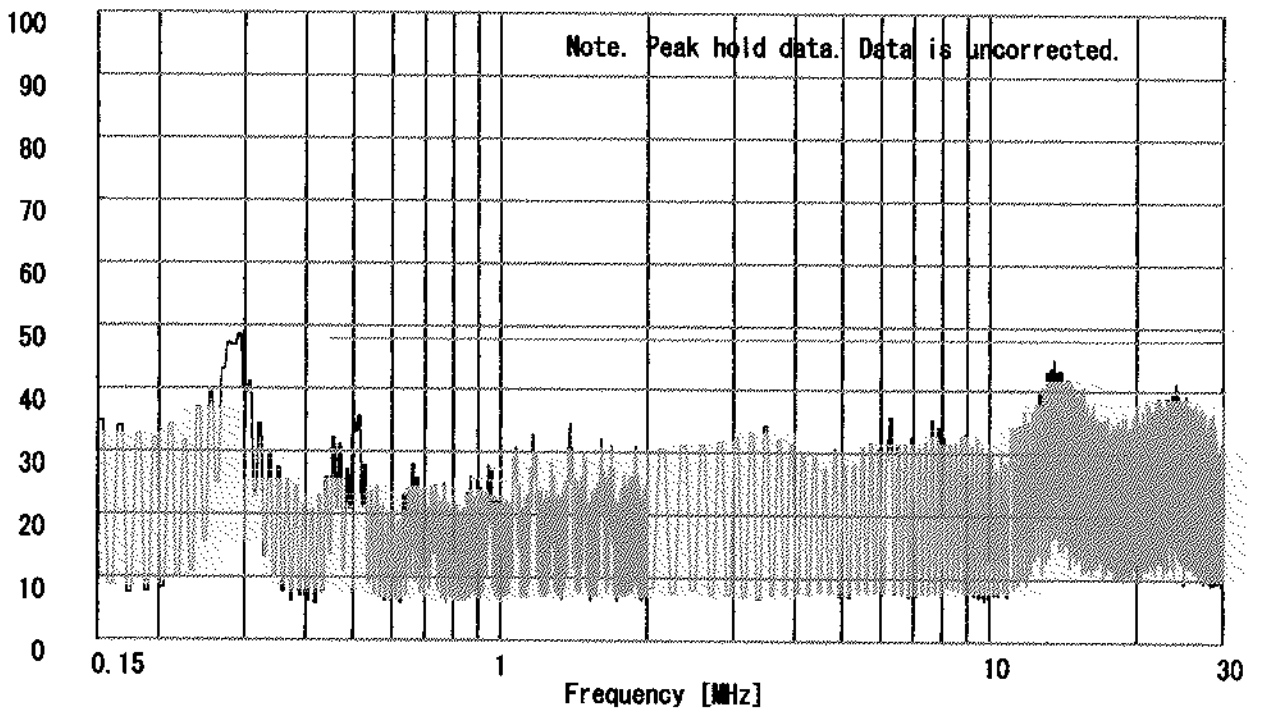
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 23AE0010-YW-1

Applicant : TOSHIBA CORPORATION MEDICAL SYSTEMS COMPANY
 Kind of Equipment : Personal Computer
 Model No. : FC2710
 Serial No. :
 Power : AC120V/60Hz
 Mode : Running
 Remarks : FCC ID: QKPF2710
 Date : 8/16/2002
 Test Distance : 3 m
 Temperature : 28 °C
 Humidity : 56 %
 Regulation : FCC Part15B CLASS B

T. Yamashita
 Engineer : Tomoyuki Yamashita

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.	62.37	BB	33.2	47.8	8.0	29.5	1.8	6.0	19.5	34.1	40.0	20.5	5.9	
2.	86.31	BB	38.6	45.2	7.4	29.7	2.1	6.1	24.5	31.1	40.0	15.5	8.9	
3.	140.55	BB	32.4	35.7	14.6	29.8	3.5	6.0	26.7	30.0	43.5	16.8	13.5	
4.	240.01	BB	31.4	31.9	16.7	29.8	3.6	6.0	27.9	28.4	46.0	18.1	17.6	
5.	333.89	BB	36.9	35.0	14.2	30.1	4.4	6.1	31.5	29.6	46.0	14.5	16.4	
6.	400.69	BB	36.1	34.5	15.5	30.2	4.9	6.1	32.4	30.8	46.0	13.6	15.2	
7.	465.57	BB	46.1	45.3	17.0	30.2	5.4	6.1	44.4	43.6	46.0	1.6	2.4	
8.	1007.05	BB	46.2	47.5	24.6	38.7	1.6	0.0	33.7	35.0	54.0	20.3	19.0	
9.	1139.55	BB	50.4	48.1	25.1	38.5	1.7	0.0	38.7	36.4	54.0	15.3	17.6	
10.	1268.95	BB	44.6	45.0	25.6	38.4	1.8	0.0	33.6	34.0	54.0	20.4	20.0	
11.	3761.49	BB	44.6	43.1	32.3	37.3	3.4	0.0	43.0	41.5	54.0	11.0	12.5	

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

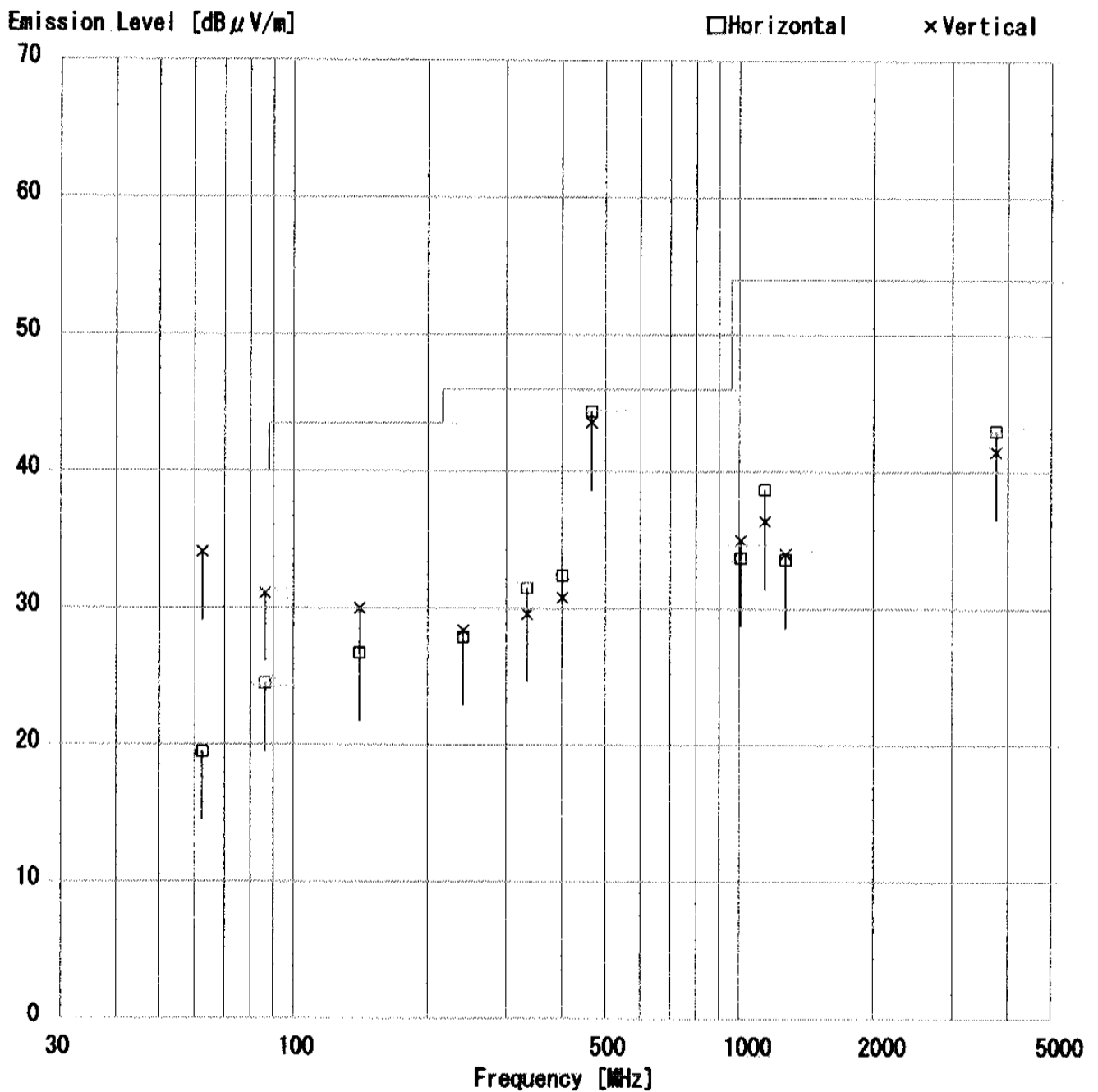
Except for the above table : adequate margin data below the limits.
 ANT. TYPE : 30-300MHz:Biconical, 300-1000MHz:Logperiodic, 1-5GHz DRG Horn.

DATA OF RADIATION TEST

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YOKOWA No.2 OPEN TEST SITE
Report No. : 23AE0010-YW-1

Applicant : TOSHIBA CORPORATION MEDICAL SYSTEMS COMPANY
Kind of Equipment : Personal Computer
Model No. : FC2710
Serial No. :
Power : AC120V/60Hz
Mode : Running
Remarks : FCC ID: QKPF2710
Date : 8/16/2002
Test Distance : 3 m
Temperature : 28 °C
Humidity : 56 %
Regulation : FCC Part15B CLASS B

T. Yamashita
Engineer : Tomoyuki Yamashita



Test Report No :23AE0010-YW-1

APPENDIX 3 Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * interval(month)
AF-03	Pre Amplifier	Anritsu	MH648A	RE	2002/04/01 * 12
AT-04	Attenuator	Anritsu	MP721B	RE	2002/04/04 * 12
BA-04	Biconical Antenna	Schwarzbeck	BBA9106	RE	2002/04/27 * 12
LA-05	Logperiodic Antenna	Schwarzbeck	UHALP9108-A	RE	2001/11/17 * 12
SA-08	Spectrum Analyzer	Advantest	R3272	CE, RE	2002/04/11 * 12
TR-03	Test Receiver	Rohde & Schwarz	ESHS30	CE	2002/05/30 * 12
TR-04	Test Receiver	Rohde & Schwarz	ESVS10	RE	2002/05/01 * 12
OS-10	Digital Humidity Indicator	SATO	PC-5000TRH	RE	2002/05/09 * 12
OS-15	Digital Humidity Indicator	SATO	PC-5000TRH	CE	2002/05/16 * 12
CC-20RC	Yokowa No.2 open coaxial(0.01-1000MHz)	A-PEX	CC-21,CC-22,C C-23,CC-24,CC -25,CC-26,CC-2 7,SW-21,SW-22	RE	2002/03/30 * 12
CC-2S	Yokowa No.2 shield coaxial(0.01MHz-1000MHz)	A-PEX	CC-24,CC-25,C C-26,CC-28,CC -29,SW-21,SW-2 2	CE	2002/03/30 * 12
HA-01	Horn Antenna	A.HSystems	SAS-200/571	RE	2002/05/07 * 12
CC-C6	Microwave Cable	Suhner	SUCOFLEX	RE	2002/01/13 * 12
CC-C11	Microwave Cable	Storm	421-014(4mx2)	RE	2001/12/22 * 12
YOATS-02	Open Test Site	JSE	3m, 10m	RE	2002/03/17 * 12
LS-07	LISN	Schwarzbeck	NSLK8126	CE	2001/11/06 * 12
LS-04	LISN	Rohde & Schwarz	ESH3-Z5	CE (EUT)	2001/11/06 * 12
TA-03	Terminator	TME	GT-01	CE	2002/04/28 * 12

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

A-PEX INTERNATIONAL CO., LTD.