

ADDENDUM EMI TEST REPORT

Test Report No. : 22KE0010-YK-A

Applicant: FUKUDA DENSHI CO., LTD.
Type of Equipment: ECG & RESPIRATION TRANSMITTER
Model No.: LX-5160
FCC ID: DV8LX5160A
Test standard: FCC Part 95 Subpart H, Section 95.1115
(Except FCC 95.1115(e) Frequency Stability)
FCC Part 2 Subpart J, Section 2.1049 and 2.1051
Test Result: Complied

1. This test report shall not be reproduced except 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.

Date of test: July 9-10 and September 5-6, 2002

Tested by: T. Imamura
Toyokazu Imamura
EMC section

Approved by: O. Watafani
Osamu Watafani
Site Assistant Manager of Yamakita Lab.

A-pex International Co., Ltd.
YAMAKITA LAB.

907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: int +81 465 77 1011
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MF060b(23.04.02)

2 PRODUCT DESCRIPTION

FUKUDA DENSHI, Model: LX-5160 (referred to as the EUT in this report) is a ECG & RESPIRATION TRANSMITTER.

The clock frequency used in EUT is 9.6MHz (Reference for Carrier Frequency), 84kHz (Clock for Gate Array).

Frequency characteristics:	608.0125MHz through 613.9875MHz
No. of channels/ channel spacing:	445 channels/ 12.5kHz channel spacing
Modulation:	FSK
Antenna type:	Device Antenna
Operating Voltage:	DC1.5V

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5.2 § 95.1115(b) Out of Band Emissions(Radiated)

Test Procedure

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

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

The measuring antenna height was varied between 1 to 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.

EUT emission levels were compared when the EUT antenna position was vertical polarization and horizontal polarization.

The equipment was also previously checked at each position of three axis X,Y and Z to find that Y axis was worst in these position under the vertical antenna polarization and that Z axis was worst in these position under the horizontal antenna position. The position in which the maximum noise occurred was chosen to put into measurement.

See the photographs in the 13 to 14 page

It was opened under transmitting mode.

Radiated Spurious emissions

The result was also satisfied the general limits specified in Sec.95.1115(b).

To determine the level of band-edge spurious, we use the following procedure:

Set the resolution bandwidth to 1 kHz in the peak detector mode. Measure the maximum level of the in-band channel closest to the band edge and the maximum level of the out-of-band emissions close to the same band edge. Determine the ratio of the in-band signal to the out-of-band emissions. Then, measure the level of the in-band channel in CISPR quasi-peak mode with 120 kHz bandwidth. Using the ratio obtained, we calculate the equivalent level of the out-of-band emissions to determine compliance with the limits.

Measurement range : 30MHz to 1000MHz CISPR QP Detector, IF BW 120kHz
: 1GHz to 7GHz AV Detector

Test data : APPENDIX Page18 to 23 (30 –1000MHz)
: APPENDIX Page24 to 29 (1 – 7GHz)
: APPENDIX Page30 to 31 (Band Edges:608MHz/614MHz, Restricted band Charts)

Photographs of test setup : Page12

Test result : Pass

Test instruments : KCC-20/21/22/23/29,KCC-D1/D2,KCC-D3,KBA-02,KLA-02,KHA-02,
KAF-03,KAF-04,KAT6-03,KSA-02,KTR-04,KOTS-02

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5.3 §2.1049 Bandwidth (Antenna Port Conducted)

Test Procedure

The minimum 26dB bandwidth was measured with a spectrum analyzer connected to the antenna port.
The measurement was performed according to the procedures in ANSI C63.4-13.1.7(2000).

Occupied Bandwidth (99%)

1. 608.0125MHz (Low) : 7.64kHz
2. 611.0000MHz (Mid) : 7.57kHz
3. 613.9875MHz (High): 7.64kHz

26dB Bandwidth

1. 608.0125MHz (Low) : 31.062kHz
2. 611.0000MHz (Mid) : 31.062kHz
3. 613.9875MHz (High) : 30.811kHz

Test data : APPENDIX Page32

Test instruments : KTR-01,KSA-02,KCC-D5

5.4 § 2.1051 Out of Band Emissions(Antenna Port Conducted)

Test Procedure

The Out of Band Emissions(Conducted) was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX Page33 to 38

Test result : Pass

Test instruments : KTR-01,KCC-D5

A-pex International Co., Ltd.

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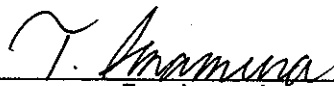
DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.

Yamakita No.2 Open Test Site

Report No. : 22KE0010-YK - **A**

Applicant : FUKUDA DENSHI CO., LTD.
Kind of Equipment : ECG & RESPIRATION TRANSMITTER
Model No. : LX-5160
Serial No. : 2002062010
Power : DC1.5V
Mode : Transmitting(608.0125MHz)
Remarks : -
Date : 9/5/2002
Test Distance : 3 m
Temperature : 30 °C
Humidity : 44 %
Regulation : FCC Part95H § 95.1115(a)


Engineer : Toyokazu Imamura

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.	608.01	BB	86.5	86.7	19.9	29.6	5.7	5.8	88.3	88.5	106.0	17.7	17.5

CALCULATION: READING[dB μ V] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

■ ANTENNA: KBA-02 (BBA9106) 30-299MHz/KLA-02 (USLP9143) 300-1000MHz

■ AMP: KAF-03 (8447D) ■ RECEIVER: KTR-04 (ESVS10) ■ CABLE: KCC-20/21/22/23/29

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
Yamakita No.2 Open Test Site
Report No. : 22KE0010-YK-A

Applicant : FUKUDA DENSHI CO., LTD.
Kind of Equipment : ECG & RESPIRATION TRANSMITTER
Model No. : LX-5160
Serial No. : 2002062010
Power : DC1.5V
Mode : Transmitting(613.9875MHz)
Remarks : -
Date : 9/5/2002
Test Distance : 3 m
Temperature : 30 °C
Humidity : 44 %
Regulation : FCC Part95H § 95.1115(a)


Engineer : Toyokazu Imamura

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.	613.99	BB	86.7	86.5	19.9	29.6	5.7	5.8	88.5	88.3	106.0	17.5	17.7

CALCULATION: READING[dB μ V] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

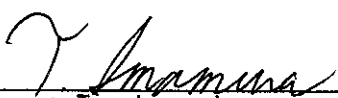
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Serial No. : 2002062010
Power : DC1.5V
Mode : Transmitting(608.0125MHz)
Remarks : -
Date : 9/5/2002
Test Distance : 3 m
Temperature : 24 °C
Humidity : 56 %
Regulation : FCC Part95H § 95.1115(b) (1)


Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	32.00	BB	20.8	20.4	17.6	28.4	1.2	5.8	17.0	16.6	46.0	29.0	29.4
2.	48.00	BB	21.3	21.4	11.5	28.5	1.4	5.8	11.5	11.6	46.0	34.5	34.4
3.	92.88	BB	23.0	24.9	8.2	28.4	2.0	5.8	10.6	12.5	46.0	35.4	33.5
4.	100.00	BB	21.0	24.4	9.9	28.4	2.1	5.8	10.4	13.8	46.0	35.6	32.2
5.	200.00	BB	19.2	19.8	16.3	27.9	3.1	5.8	16.5	17.1	46.0	29.5	28.9
6.	608.00	BB	33.5	33.2	19.9	29.6	5.7	5.8	35.3	35.0	46.0	10.7	11.0
7.	929.85	BB	20.3	20.6	22.9	29.3	7.2	5.8	26.9	27.2	46.0	19.1	18.8

CALCULATION: $\text{READING}[\text{dB } \mu\text{V}] + \text{ANT. FACTOR}[\text{dB/m}] + \text{CABLE LOSS}[\text{dB}] - \text{AMP. GAIN}[\text{dB}] + \text{ATTEN}[\text{dB}]$.

■ ANTENNA: KBA-02 (BBA9106) 30-299MHz/KLA-02 (USLP9143) 300-1000MHz
■ AMP: KAF-03 (8447D) ■ RECEIVER: KTR-04 (ESVS10) ■ CABLE: KCC-20/21/22/23/29

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Yamakita No.2 Open Test Site

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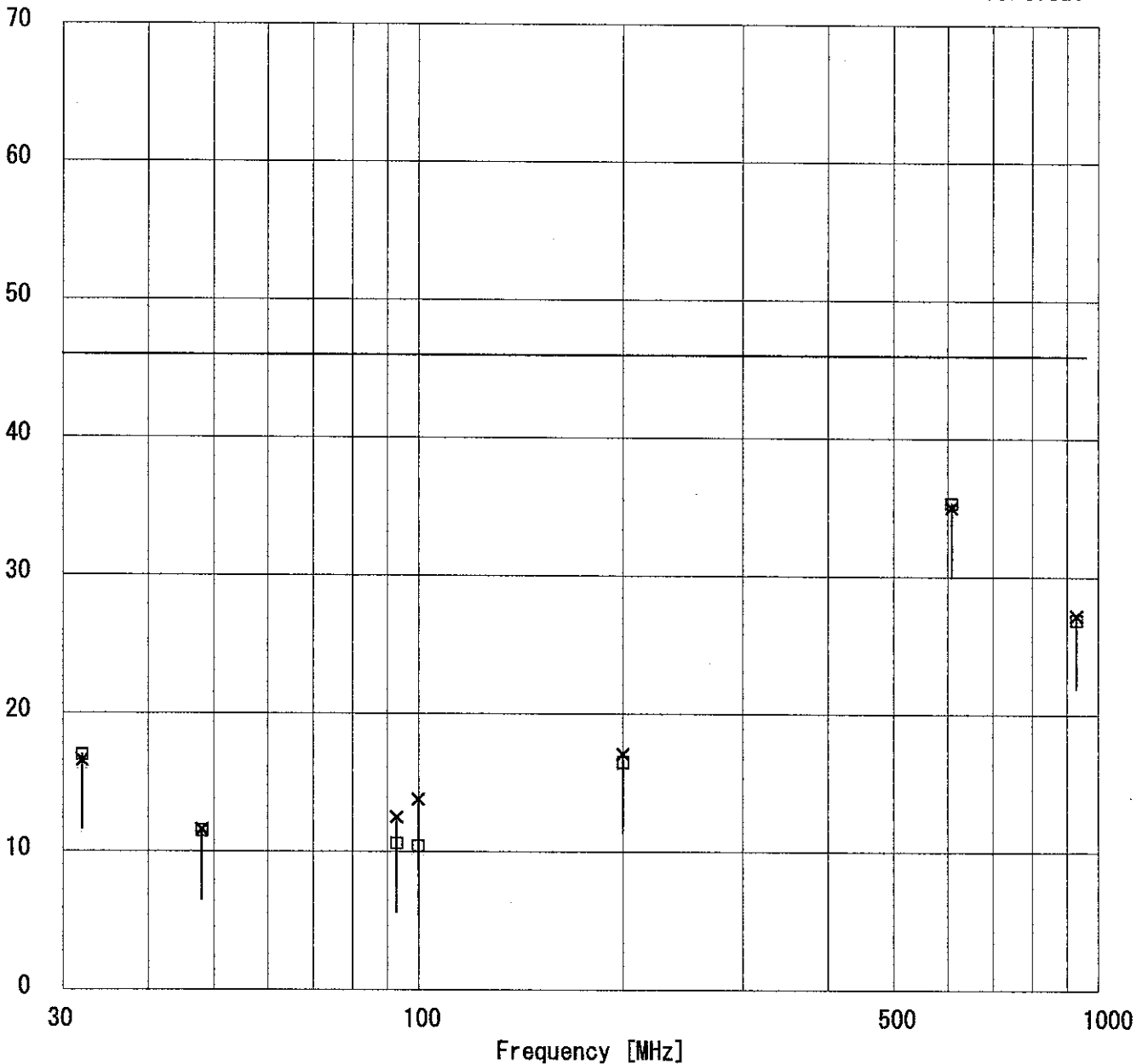
Applicant : FUKUDA DENSHI CO., LTD.
Kind of Equipment : ECG & RESPIRATION TRANSMITTER
Model No. : LX-5160
Serial No. : 2002062010
Power : DC1.5V
Mode : Transmitting (608.0125MHz)
Remarks : -
Date : 9/5/2002
Test Distance : 3 m
Temperature : 24 °C
Humidity : 56 %
Regulation : FCC Part95H § 95.1115 (b) (1)

Engineer : *T. Imamura*
Toyokazu Imamura

Emission Level [dB μ V/m]

□ Horizontal

× Vertical



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 Kind of Equipment : ECG & RESPIRATION TRANSMITTER
 Model No. : LX-5160
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 Mode : Transmitting(613.9875MHz)
 Remarks : -
 Date : 9/5/2002
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 Temperature : 24 °C
 Humidity : 56 %
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 Engineer : Toyokazu Imamura

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.	32.00	BB	21.3	24.0	17.6	28.4	1.2	5.8	17.5	20.2	46.0	28.5	25.8
2.	48.00	BB	21.6	22.7	11.5	28.5	1.4	5.8	11.8	12.9	46.0	34.2	33.1
3.	92.91	BB	23.5	23.6	8.2	28.4	2.0	5.8	11.1	11.2	46.0	34.9	34.8
4.	100.00	BB	21.9	25.2	9.9	28.4	2.1	5.8	11.3	14.6	46.0	34.7	31.4
5.	200.00	BB	19.8	19.8	16.3	27.9	3.1	5.8	17.1	17.1	46.0	28.9	28.9
6.	614.00	BB	31.7	30.5	19.9	29.6	5.7	5.8	33.5	32.3	46.0	12.5	13.7
7.	929.85	BB	20.3	20.3	22.9	29.3	7.2	5.8	26.9	26.9	46.0	19.1	19.1

CALCULATION: READING[dB μ V] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

■ ANTENNA: KBA-02 (BBA9106) 30-299MHz/KLA-02 (USLP9143) 300-1000MHz

■ AMP: KAF-03 (8447D) ■ RECEIVER: KTR-04 (ESVS10) ■ CABLE: KCC-20/21/22/23/29

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Kind of Equipment : ECG & RESPIRATION TRANSMITTER
Model No. : LX-5160
Serial No. : 2002062010
Power : DC1.5V
Mode : Transmitting (613.9875MHz)
Remarks : -
Date : 9/5/2002
Test Distance : 3 m
Temperature : 24 °C
Humidity : 56 %
Regulation : FCC Part95H § 95.1115(b) (1)

T. Imamura
Engineer : Toyokazu Imamura

Emission Level [dB μ V/m]

□ Horizontal

× Vertical

70

60

50

40

30

20

10

0

30

100

500

1000

Frequency [MHz]

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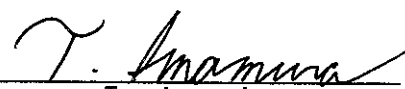
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Report No. : 22KE0010-YK-A

Applicant : FUKUDA DENSHI CO., LTD.
 Kind of Equipment : ECG & RESPIRATION TRANSMITTER
 Model No. : LX-5160
 Serial No. : 2002062010
 Power : DC1.5V
 Mode : Transmitting(608.0125MHz)
 Remarks : AV Detected mode
 Date : 7/4/2002
 Test Distance : 3 m
 Temperature : 30 °C
 Humidity : 44 %
 Regulation : FCC Part95H § 95.1115(b) (2)


 Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	1216.03	BB	47.9	44.2	26.5	35.8	4.2	0.0	42.8	39.1	53.9	11.1	14.8
2.	1824.04	BB	47.7	48.3	27.8	35.1	5.1	0.0	45.5	46.1	53.9	8.4	7.8
3.	2432.05	BB	40.0	44.0	29.9	34.9	6.0	0.0	41.0	45.0	53.9	12.9	8.9
4.	3040.06	BB	41.0	37.6	30.0	34.9	6.9	0.0	43.0	39.6	53.9	10.9	14.3
5.	3648.08	BB	43.1	41.6	30.5	35.3	7.5	0.0	45.8	44.3	53.9	8.1	9.6
6.	4256.09	BB	28.4	30.3	32.3	35.5	8.0	0.0	33.2	35.1	53.9	20.7	18.8
7.	4864.10	BB	27.3	27.2	33.7	34.7	8.7	0.0	35.0	34.9	53.9	18.9	19.0
8.	5472.11	BB	27.3	27.6	33.9	34.5	9.6	0.0	36.3	36.6	53.9	17.6	17.3
9.	6080.13	BB	27.7	27.7	36.6	34.2	10.0	0.0	40.1	40.1	53.9	13.8	13.8

CALCULATION: READING[dB μV] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

■ ANTENNA: KHA-02 (1-18GHz)

■ AMP: KAF-04 (8449B) ■ RECEIVER: KTR-01 ■ CABLE: KCC-D1/D2

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.

Yamakita No.2 Open Test Site

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Kind of Equipment : ECG & RESPIRATION TRANSMITTER
Model No. : LX-5160
Serial No. : 2002062010
Power : DC1.5V
Mode : Transmitting(608.0125MHz)
Remarks : AV Detected mode
Date : 7/4/2002
Test Distance : 3 m
Temperature : 30 °C
Humidity : 44 %
Regulation : FCC Part95H § 95.1115 (b) (2)

T. Imamura
Engineer : Toyokazu Imamura

Emission Level [dB μ V/m]

□Horizontal

×Vertical

70

60

50

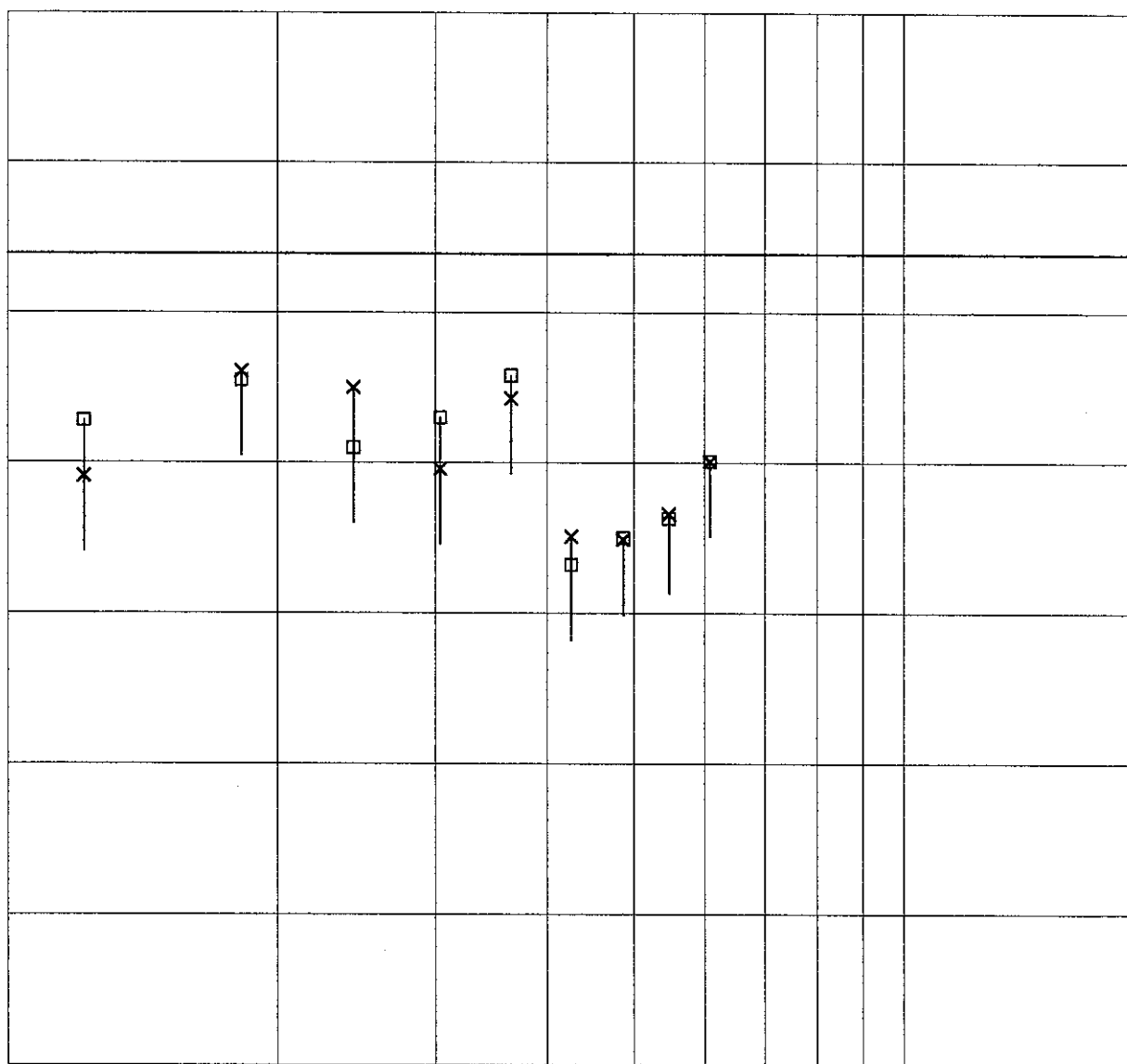
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30

20

10

0



Frequency [MHz]

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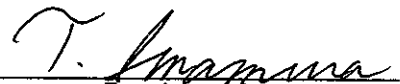
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 Kind of Equipment : ECG & RESPIRATION TRANSMITTER
 Model No. : LX-5160
 Serial No. : 2002062010
 Power : DC1.5V
 Mode : Transmitting(613.9875MHz)
 Remarks : -
 Date : 7/4/2002
 Test Distance : 3 m
 Temperature : 30 °C
 Humidity : 44 %
 Regulation : FCC Part95H § 95.1115(b) (2)


 Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	1227.98	BB	48.6	44.3	26.5	35.8	4.2	0.0	43.5	39.2	53.9	10.4	14.7
2.	1841.96	BB	46.7	49.2	27.9	35.1	5.2	0.0	44.7	47.2	53.9	9.2	6.7
3.	2455.95	BB	43.0	45.0	30.0	34.9	6.1	0.0	44.2	46.2	53.9	9.7	7.7
4.	3069.94	BB	43.9	42.0	30.0	34.9	6.9	0.0	45.9	44.0	53.9	8.0	9.9
5.	3683.93	BB	47.2	44.5	30.7	35.3	7.5	0.0	50.1	47.4	53.9	3.8	6.5
6.	4297.91	BB	28.6	30.9	32.3	35.5	8.0	0.0	33.4	35.7	53.9	20.5	18.2
7.	4911.90	BB	27.6	27.4	33.9	34.6	8.7	0.0	35.6	35.4	53.9	18.3	18.5
8.	5525.89	BB	27.3	27.3	34.0	34.4	9.6	0.0	36.5	36.5	53.9	17.4	17.4
9.	6139.88	BB	28.0	28.0	36.5	34.2	10.0	0.0	40.3	40.3	53.9	13.6	13.6

CALCULATION: READING[dB μV] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

■ANTENNA:KHA-02(1-18GHz)

■AMP:KAF-04(8449B) ■RECEIVER:KTR-01 ■CABLE:KCC-D1/D2

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.

Yamakita No.2 Open Test Site

Report No. : 22KE0010-YK-A

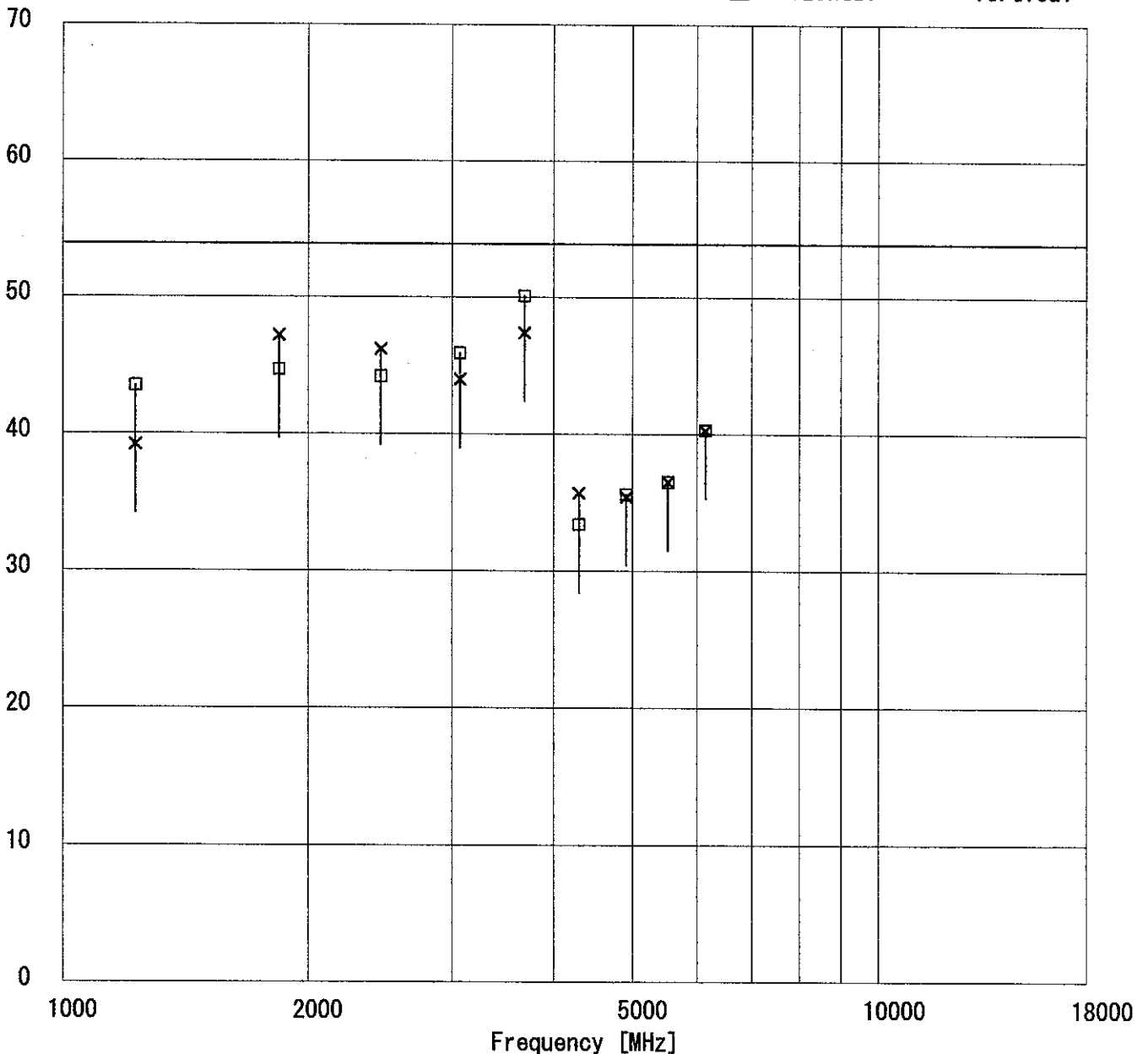
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Remarks : -
Date : 7/4/2002
Test Distance : 3 m
Temperature : 30 °C
Humidity : 44 %
Regulation : FCC Part95H § 95.1115(b) (2)

T. Imamura
Engineer : Toyokazu Imamura

Emission Level [dB μ V/m]

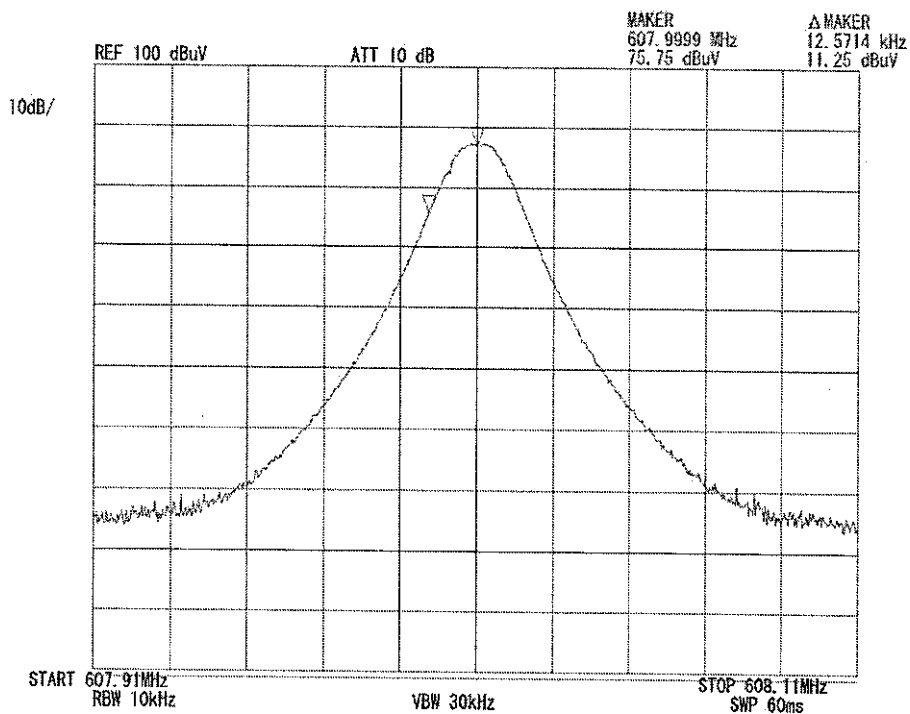
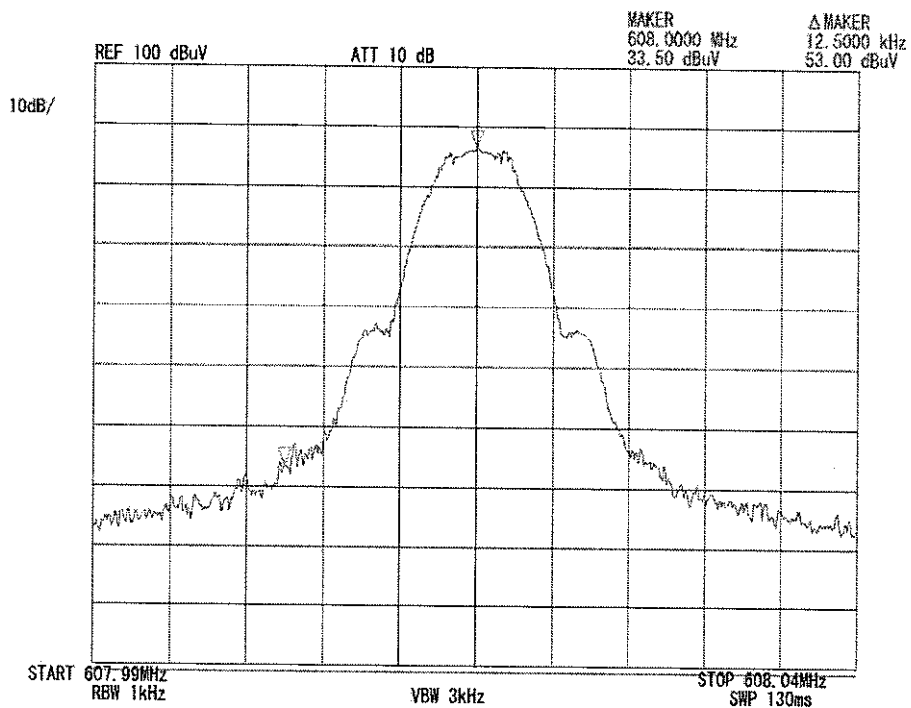
□ Horizontal

× Vertical

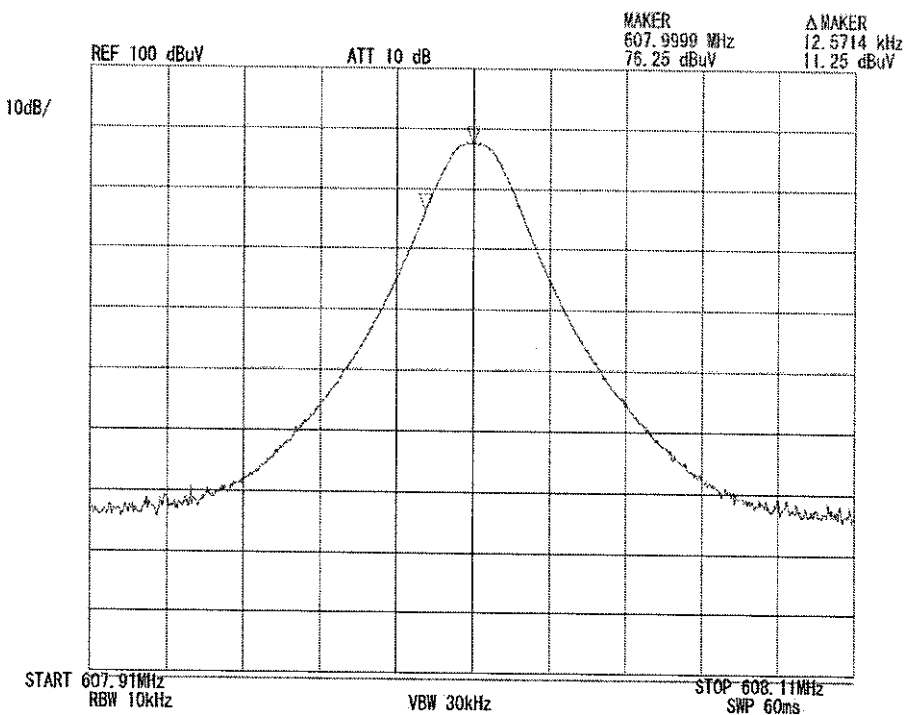
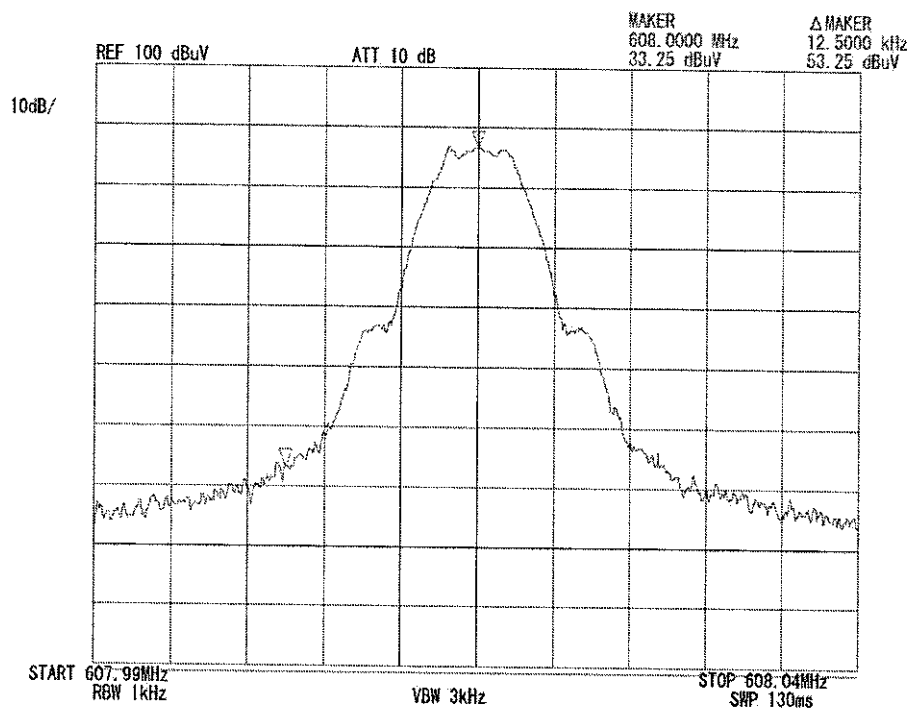


608.00MHz

1. Horizontal/ PK

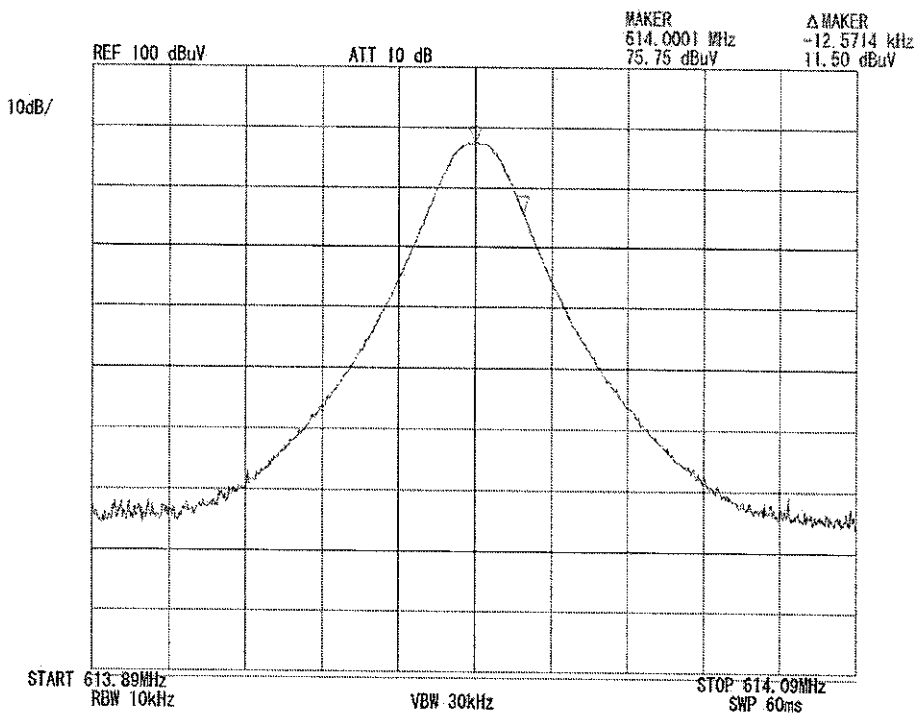
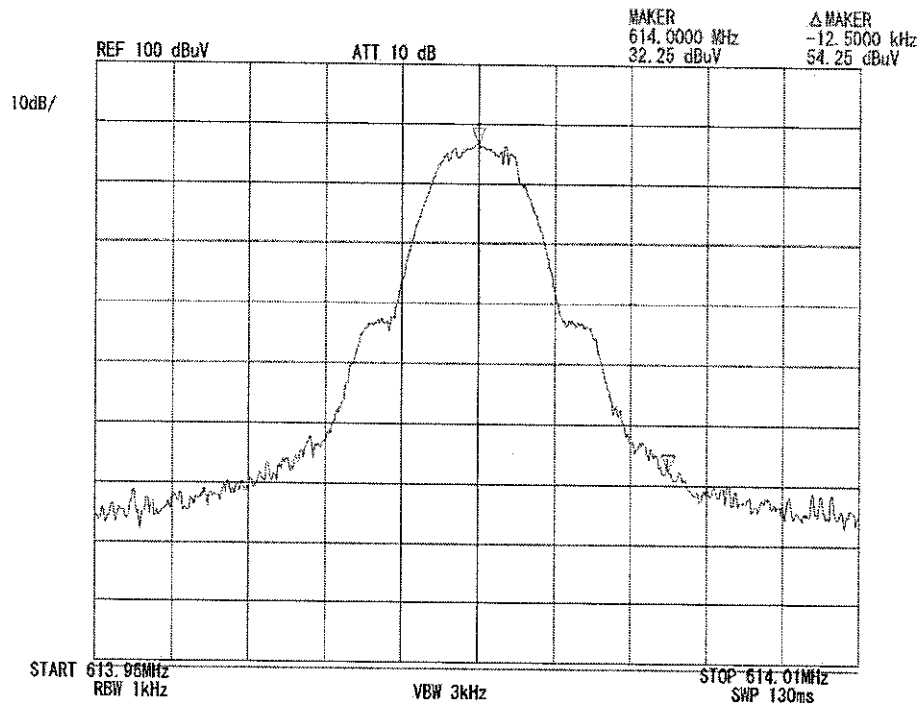


2. Vertical/PK

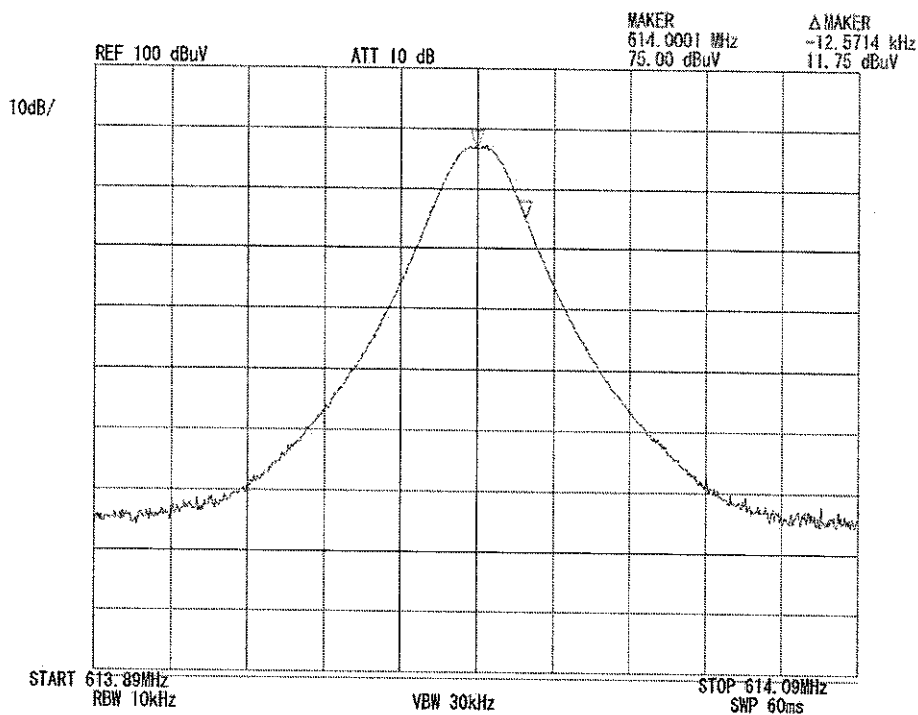
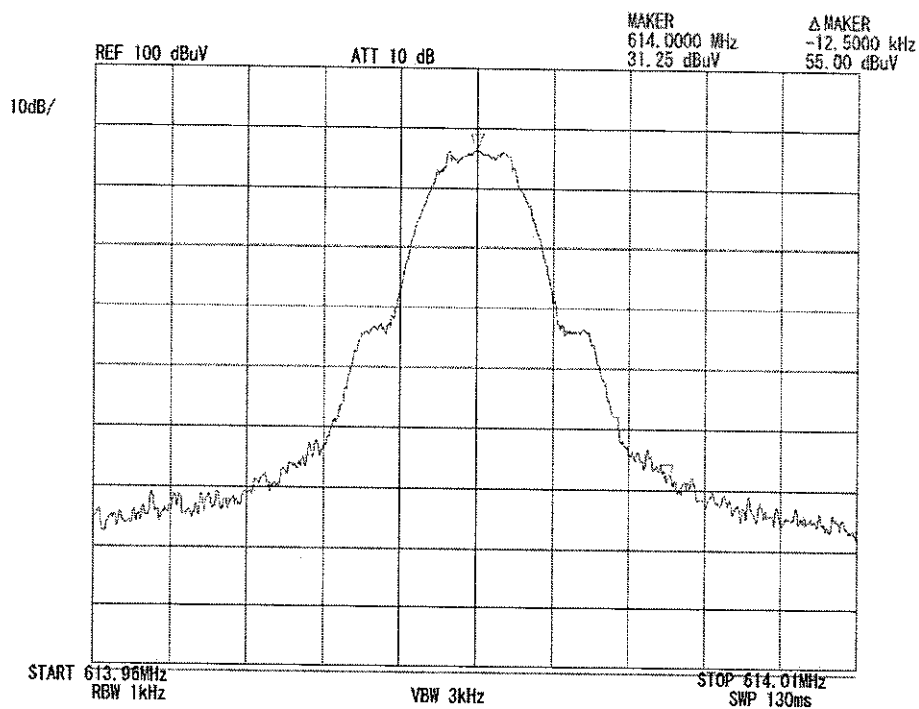


614.00MHz

1. Horizontal/PK

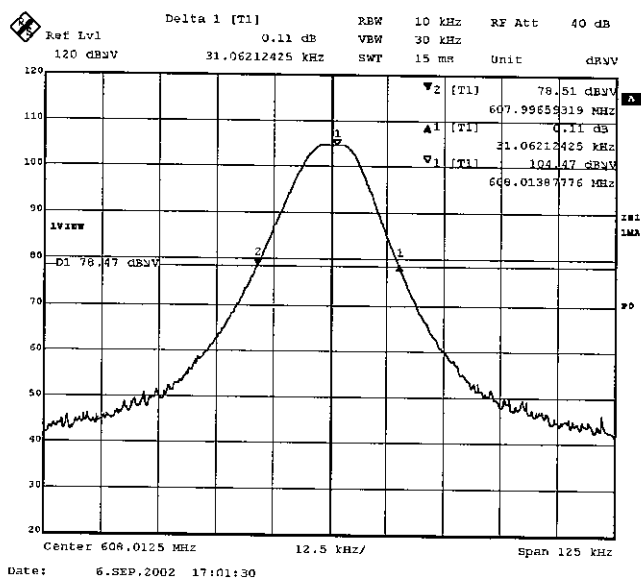


2. Vertical/PK



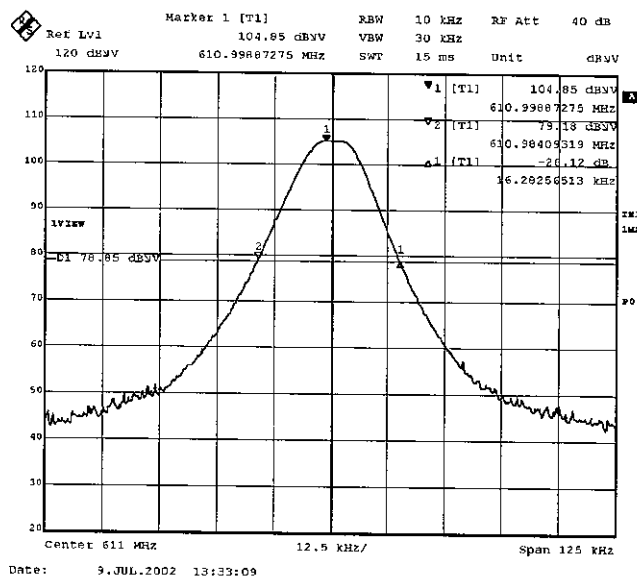
1. ch : 608.0125MHz

BW:31.062kHz



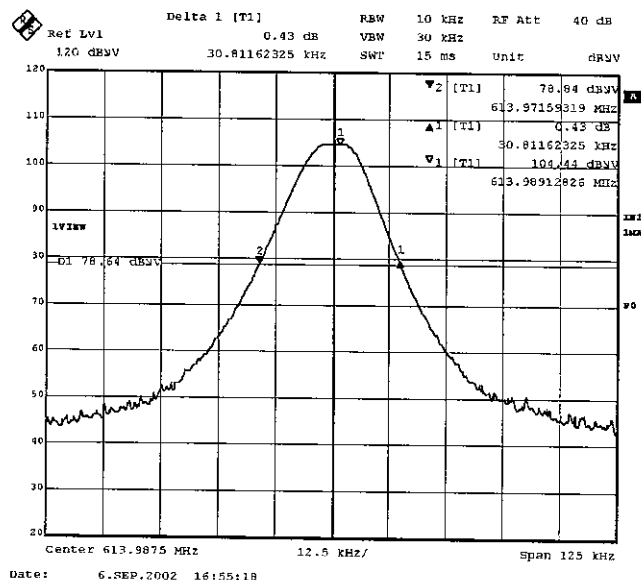
2. ch : 611.00MHz

BW:31.062kHz



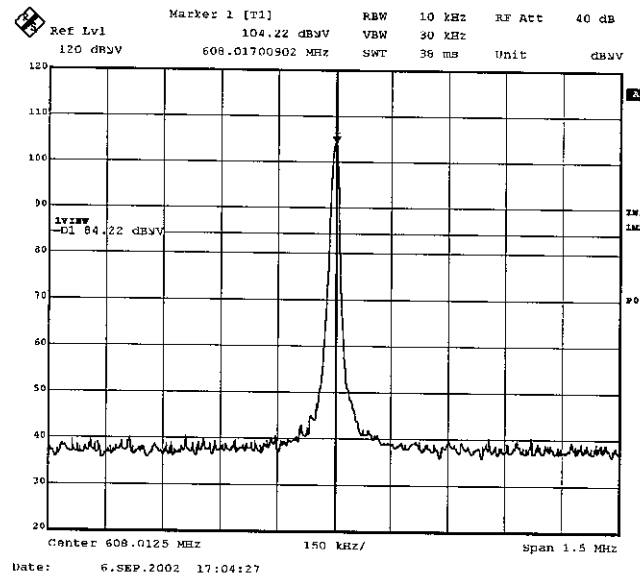
3. ch : 613.9875MHz

BW:30.811kHz

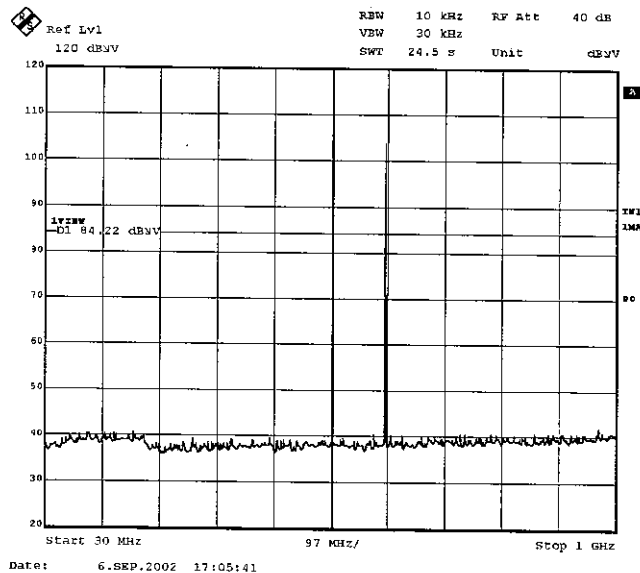


Ch 608.0125MHz

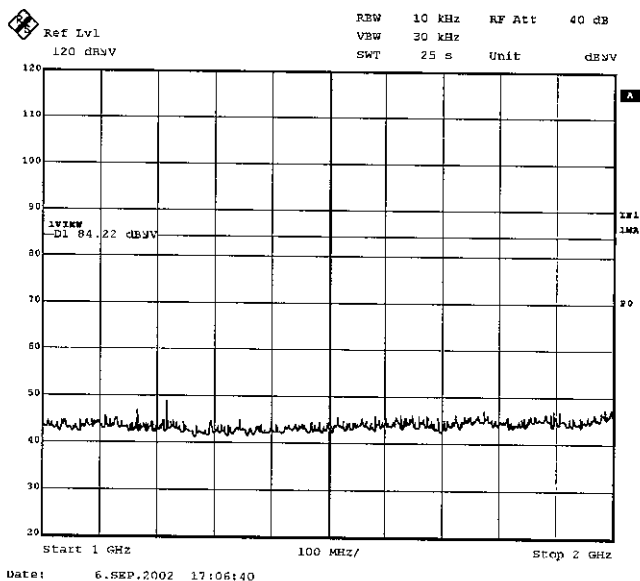
1.



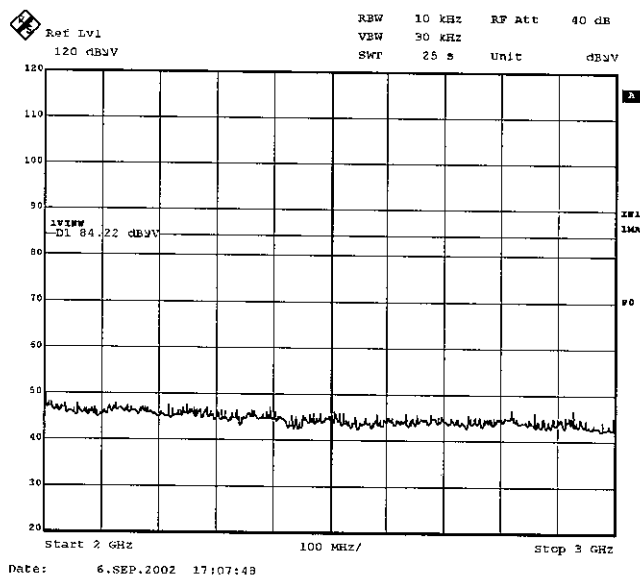
2.



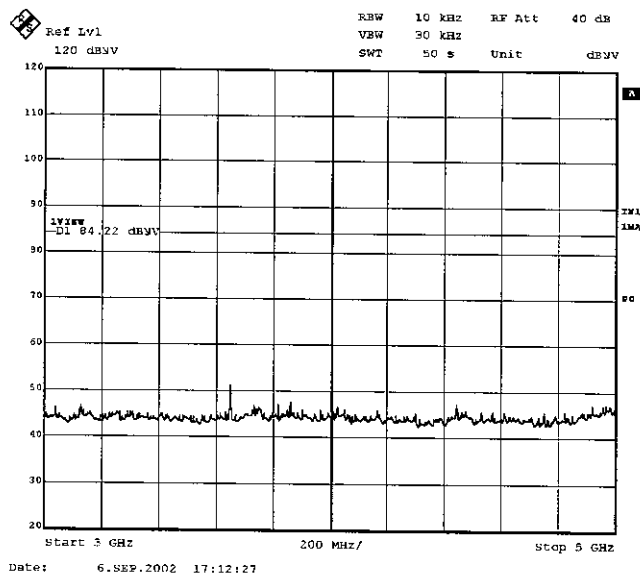
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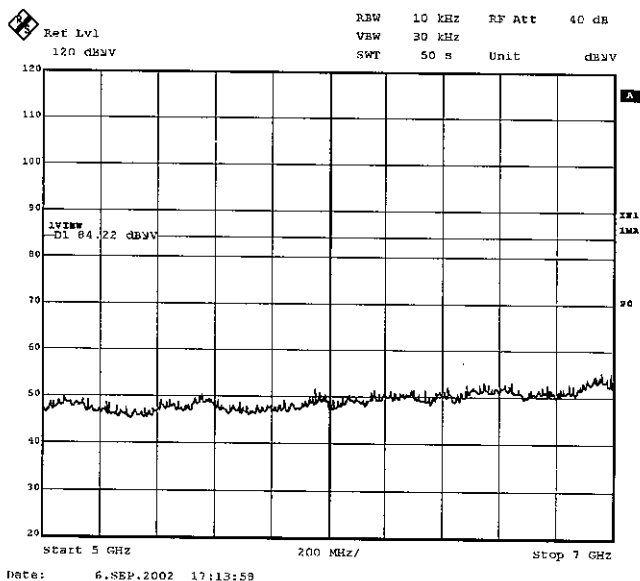
4.



5.

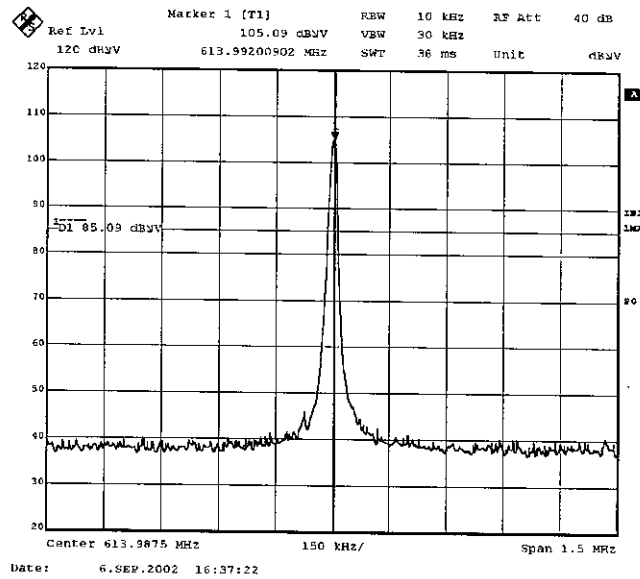


6.

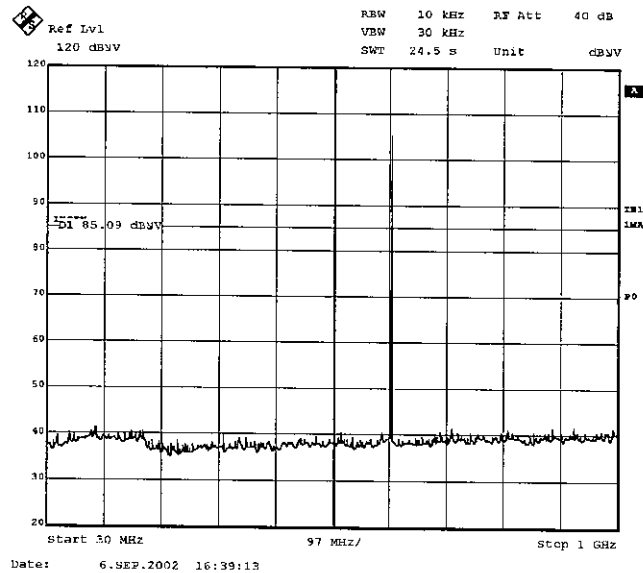


Ch 613.9875MHz

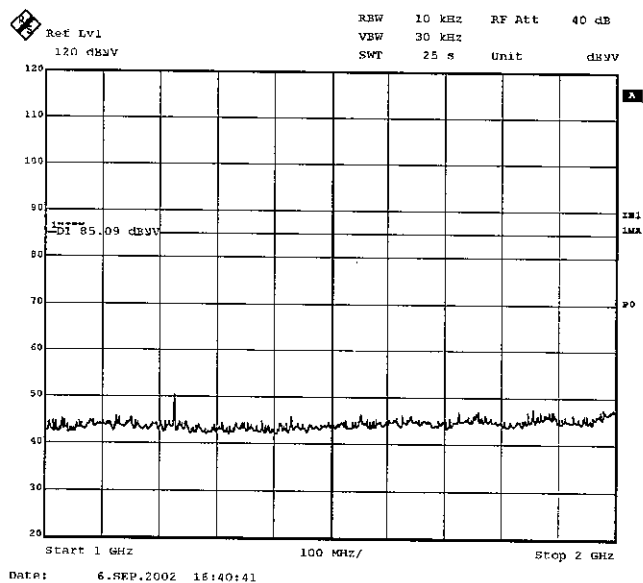
1.



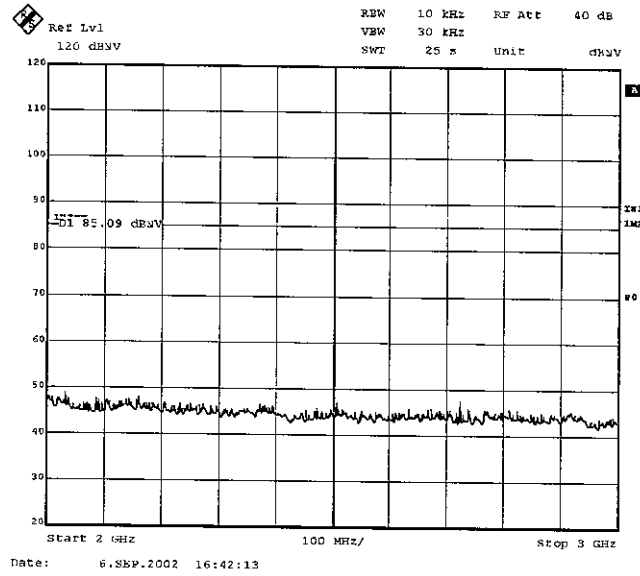
2.



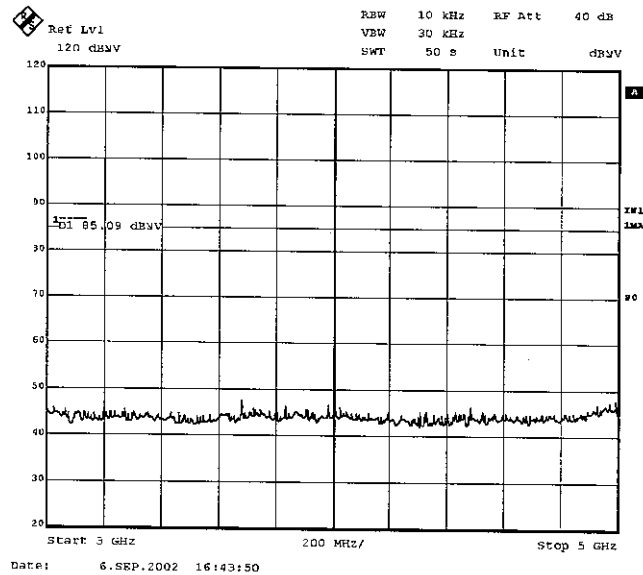
3.



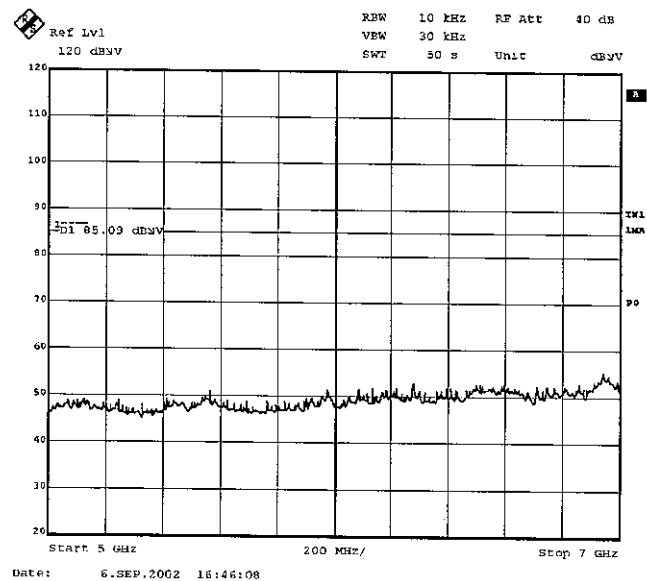
4.



5.



6.



Test Report No : 22KE0010-YK-A

APPENDIX 3 Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
KAF-03	Pre Amplifier	Hewlett Packard	8447D	RE	2001/10/19 * 12
KAF-04	Pre Amplifier	Agilent	8449B	RE	2002/06/07 * 12
KAT6-03	Attenuator	INMET	18N-6dB	RE	2002/06/20 * 12
KBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2002/08/25 * 12
KCC-20/21/22/23/29	Coaxial Cable	Fujikura/Suhner	8D-2W/12D-SF A/S04272B/S04272B	RE	2001/10/23 * 12
KCC-D1/D2	Coaxial Cable	Suhner/storm	SCOFLEX103/90-388-020	RE	2001/09/05 * 12
KHA-02	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2002/08/17 * 12
KLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2002/08/17 * 12
KOTS-02	Open Test Site	JSE	10m	RE	2002/08/20 * 12
KSA-02	Spectrum Analyzer	Advantest	R3265A	RE/AT	2001/12/03 * 12
KTR-01	Test Receiver	Rohde & Schwarz	ES140	AT	2002/07/22 * 12
KTR-04	Test Receiver	Rohde & Schwarz	ESVS10	RE	2001/10/15 * 12
KCC-D5	Coaxial Cable	Storm	421-011(2m)	AT	2002/04/16 * 12
KCC-D3	Coaxial Cable	Rosenberger	2201	RE	2002/06/28 * 12

All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Test Item:

RE: Radiated emission,

AT: Antenna terminal disturbance voltage