



FCC ID: LLM002WL11000-1

REPORT NO: F89022501
PRODUCT: PCMCIA Card
MODEL NO: WL11000-1
SERIAL NO: N/A
CLIENT: Eumitcom Technology Inc.
ADDRESS: 2F, No2, Li Hsin Rd, Science-Based Industrial Park Hsinchu 300, Taiwan, R.O.C.
ISSUED BY: ADVANCE DATA TECHNOLOGY CORPORATION (ADT CORP.)
OFFICE ADDRESS: 11F, NO. 1, SEC. 4, NAN-KING EAST RD., TAIPEI, TAIWAN, R.O.C.
LABORATORY ADDRESS: NO. 47, 14 LING, CHIA PAU TSUEN, LIN KOU HSIANG, TAIPEI HSIEN, TAIWAN, R.O.C.
TEST STANDARD: 47CFR Part 15, Subpart B & C (1999)
TEST DATE: February 10, 2000
TEST RESULT: Pass

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Accredited Laboratory

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FCC ID: LLM002WL11000-1

1. CERTIFICATION

Issue Date: March 24, 2000

PRODUCT: PCMCIA Card
MODEL NO: WL11000-1
FCC ID: LLM002WL11000-1
CLIENT: Eumitcom Technology Inc.
TEST STANDARD: FCC 47CFR Part 15, Subpart C (Section 15.247) and Subpart B
ANSI C63.4-1992

We, **ADVANCE DATA TECHNOLOGY CORPORATION**, hereby certify that one sample of the designated sample has been tested in our facility. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate representation of the measurements of the sample's characteristics and the energy emitted under the conditions herein specified.

TESTED BY: Ellis Wu **DATE:** 3/24/2000
Ellis Wu
CHECKED BY: Delphine Hsu **DATE:** 3/24/2000
Delphine Hsu
APPROVED BY: Alan Lane **DATE:** 3/24/2000
Dr. Alan Lane, Manager

2. SUMMARY OF TEST RESULTS & GENERAL STATEMENT OF CERTIFICATION

The EUT has been tested according to the EUT's specifications and the following requirements, and the worst case were found at the data rate and modulation type as 11Mb/s(QPSK).

47 CFR Part 15, Subpart C			
PARAGRAPH.	TEST REQUIREMENTS	COMPLIANCE (YES/NO)	TEST RESULT
15.107	AC Power Conducted Emissions Spec.: 48 dBuV	Yes	Minimum passing margin is -8.6 dBuV At 24.27 MHz
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Spec.: min. 500 kHz	Yes	9.56 MHz > 500 kHz
15.247(b)	Maximum Peak Output Power Spec.: max. 30 dBm	Yes	Minimum passing margin is -13.9 dBm
15.247(c)	Transmitter Radiated Emissions Spec.: Table 15.209	Yes	Minimum passing margin is -6.8 dBuV At 4924.00 MHz
15.247(d)	Power Spectral Density Spec.: 8dBm	Yes	Minimum passing margin is -12.8 dBm
15.247(e)	Processing Gain of Direct Sequence Spread Spectrum System Spec.: 10 dB	Yes	Minimum passing margin is -1.4 dB

Note 1 : N/A

3. GENERAL INFORMATION

3.1 General Description of EUT

Product:	PCMCIA Card
Model No:	WL11000-1
Power Supply:	DC Power from Notebook
Radio Technology:	Direct Sequence Spread Spectrum
Modulation Type:	BPSK, QPSK
Data Rate:	1 / 2 / 5.5 / 11 Mbps
Operating Frequency:	2412 ~ 2462 MHz
Number of Channel:	11
Channel Spacing:	5 MHz
Power Rating:	Min. 13dBm
Associated devices:	N/A

Note: The EUT is a PCMCIA PC card which is compatible with any standard, notebook computer Type II or Type III PCMCIA slot. As a Plug-and-Play device, Windows 95/98 will automatically recognize the PCMCIA PC card and initiate the installation process. Upon successful installation, the PCMCIA PC card will communicate seamlessly with other PCMCIA wireless home and office networking products.

For other detailed information, please refer to user's manual.

3.2 Description of Test mode

The EUT has 11 channels for data transmission. According to Part 15 Sec. 15.31(m), the channel 1, 6 and 11 were chosen for evaluation.

3.3 Test Methodology

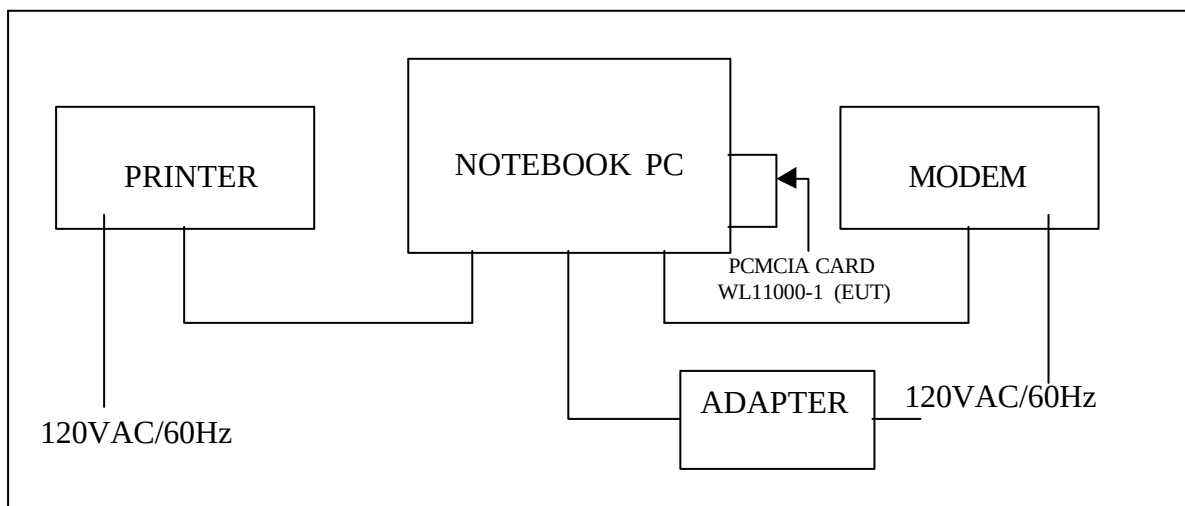
All tests were executed on a sample of EUT for the evaluation in compliance with FCC CFR47 Part 15, Subpart C.

Both conducted and radiated emissions measurements were conducted in accordance with ANSI C63.4:1992.

3.4 Support Units

No	Product	Brand	Model No.	Serial No.	FCC ID / DoC
1	Notebook PC	Twinhead	P90	10613524	FCC DoC approved
Cable : Non-shielded Power (1.8m)					
2	Printer	HP	2225C+	3123S97230	DSI6XU2225
Cable : Non-shielded power (with a power adapter) Shielded Signal (1.2m)					
3	Modem	ACCEX	1414	980020508	IFAXDM1414
Cable : Non-shielded power (with a power adapter) Shielded Signal (1.2m)					

3.5 Configuration of Tested System



4. GENERAL INFORMATION OF TEST FACILITY

4.1 Test Lab.:

☒ **Lin Kuo EMC Lab.**

No. 47, 14 Ling, Chia Pau Tsuen, Lin Kuo Hsiang, Taipei, Taiwan, R.O.C.

☐ **Hsin Chu EMC Lab.**

No. 81-1, Lu Liao Keng, 9 Ling, Wu Lung Tsuen, Chiung Lin Hsiang, R.O.C.

4.2 Calibration Interval :

All calibration interval of the test sites and test instruments is 12 months. The calibrations are traceable to NML/ROC and NIST/USA.

5. TEST PROCEDURES AND TEST RESULTS

5.1 Conducted Emission Measurement

5.1.1 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE & SCHWARZ Test Receiver	ESHS30	828109/007	July 13, 2000
ROHDE & SCHWARZ Artificial Mains Network	ESH3-Z5	839135/006	July 7, 2000
EMCO-L.I.S.N.	3825/2	9204-1964	July 7, 2000
Shielded Room	Site 2	ADT-C02	NA

The measurement uncertainty is less than +/- 2.6dB, which is calculated as per NAMAS document NIS81.

5.1.2 Test Procedure

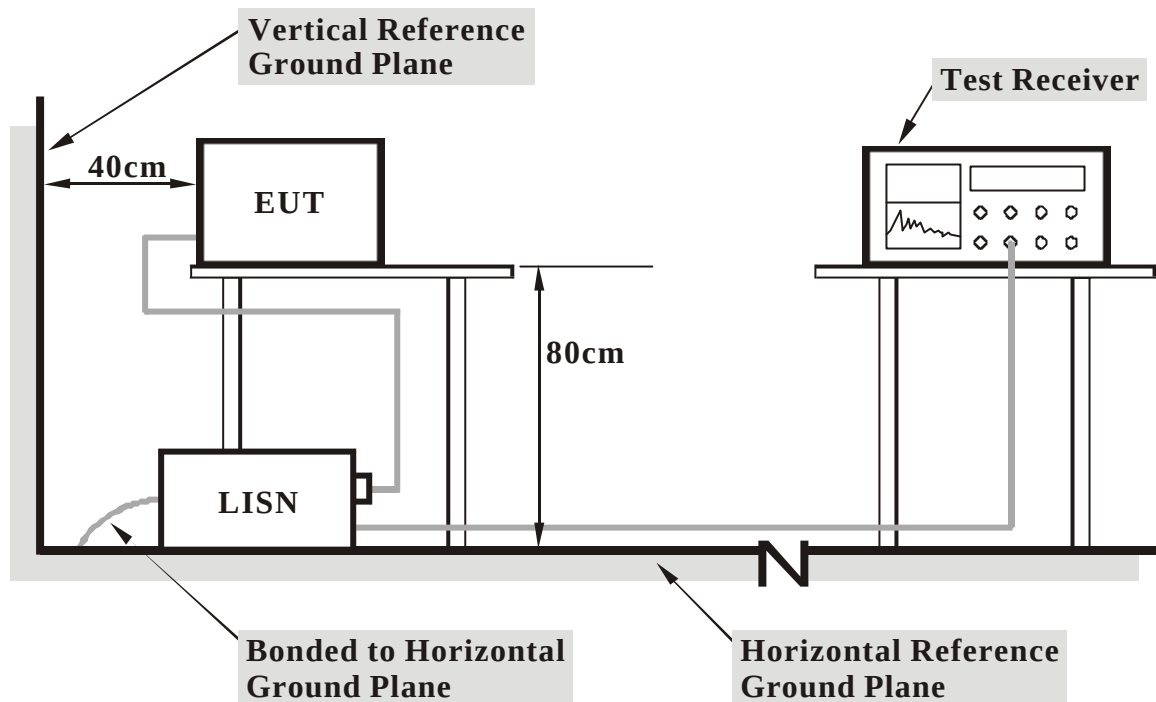
(Refer to ADT Doc. Number WI-EMI-01.)

The EUT was placed 0.4 meter from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50Ω/ 50 μ H coupling impedance for the measuring instrument.

Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

The frequency range from 450 kHz to 30 MHz was searched. The emission levels over 10dB under the prescribed limits could not be reported.

5.1.3 Test Setup



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

5.1.4 Photograph of Test Setup



5.1.5 EUT Operating condition

A software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually. "H" patterns and other messages were sent to support units and displayed on the screen of Notebook PC.

5.1.6 Climate Condition

The temperature and related humidity: 18 degree and 73%RH

5.1.7 Test Results

MODE: CH 1		6 dB Bandwidth: 10 kHz				PHASE: LINE (L)			
Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.48	0.2	32.7	-	32.9	-	48	-	-15.1	-
0.56	0.2	33.6	-	33.8	-	48	-	-14.2	-
2.63	0.2	26.0	-	26.2	-	48	-	-21.8	-
4.43	0.4	31.1	-	31.5	-	48	-	-16.5	-
15.64	1.0	31.4	-	32.4	-	48	-	-15.6	-
24.18	1.3	37.2	-	38.5	-	48	-	-9.5	-

MODE: CH1		6 dB Bandwidth: 10 kHz				PHASE: Neutral(N)			
Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.48	0.2	32.9	-	33.1	-	48	-	-14.9	-
0.56	0.2	32.3	-	32.5	-	48	-	-15.5	-
2.63	0.2	29.7	-	29.9	-	48	-	-18.1	-
4.43	0.4	30.6	-	31.0	-	48	-	-17.0	-
15.64	0.8	34.2	-	35.0	-	48	-	-13.0	-
24.18	1.2	36.9	-	38.1	-	48	-	-9.9	-

- Remarks:
1. "*": Undetectable
 2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.

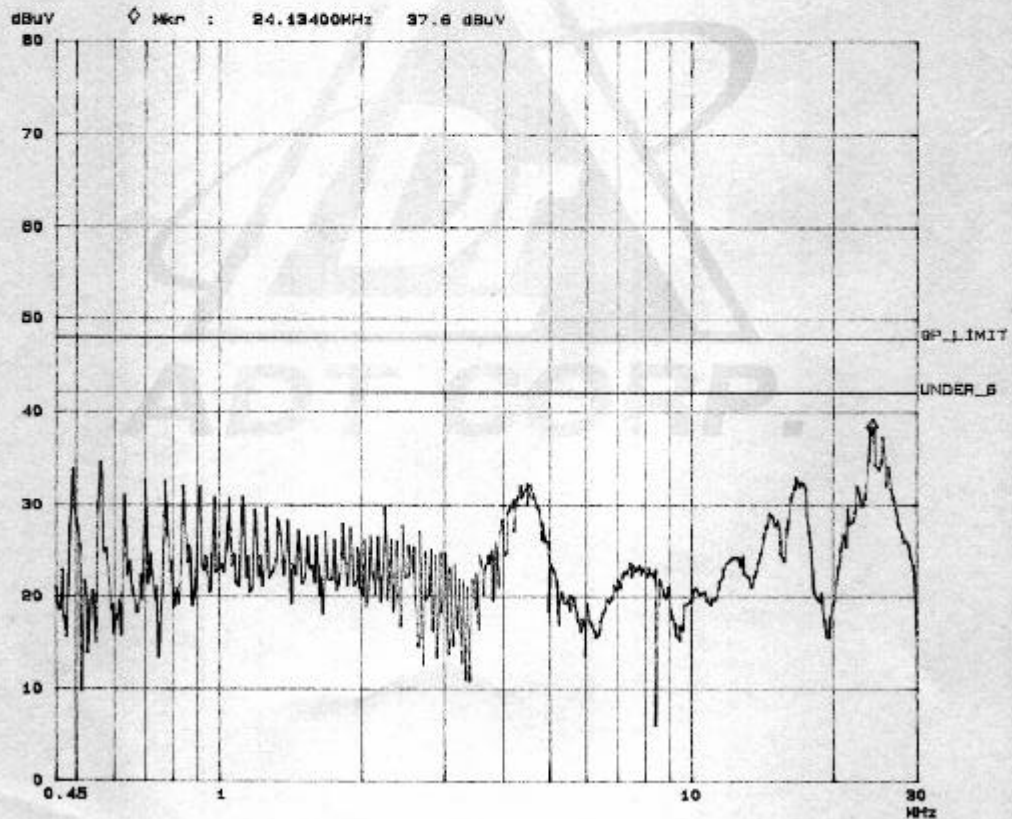
ADT CO. Shielded Room 2
FCC CLASS B

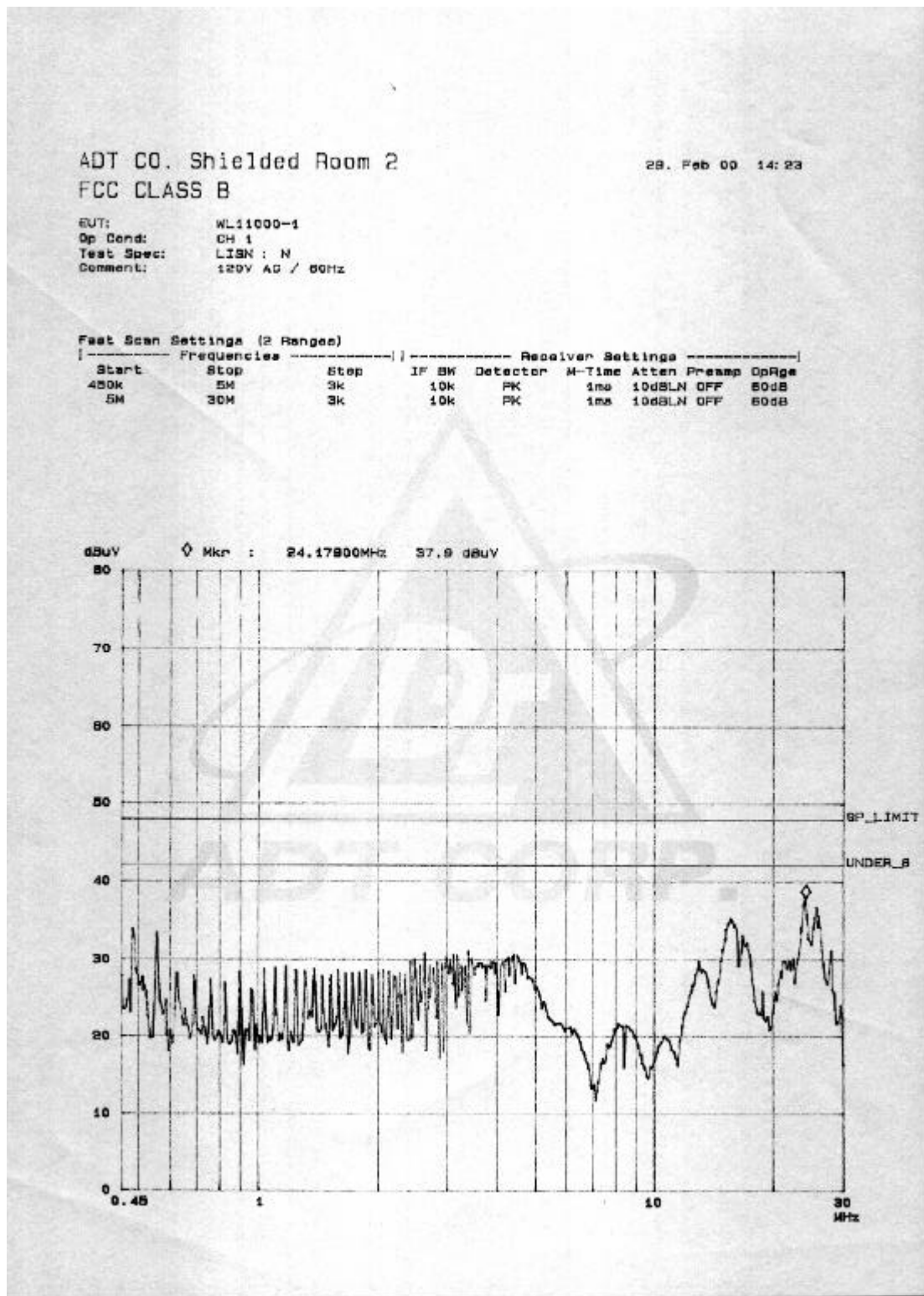
28. Feb 00 14:32

EUT: NL11000-1
Op Cond: CH 1
Test Spec: LIGN: L
Comment: 120V AG / 50Hz

Fast Scan Settings (2 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
450k	5M	3k	10k	PK	1ms	10dB	LN OFF	60dB
5M	30M	3k	10k	PK	1ms	10dB	LN OFF	60dB





MODE: CH 6		6 dB Bandwidth: 10 kHz				PHASE: Neutral(L)			
Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.49	0.2	32.1	-	32.3	-	48	-	-15.7	-
0.54	0.2	33.2	-	33.4	-	48	-	-14.6	-
2.67	0.2	25.7	-	25.9	-	48	-	-22.1	-
4.42	0.4	30.0	-	30.4	-	48	-	-17.6	-
16.87	1.0	31.7	-	32.7	-	48	-	-15.3	-
23.98	1.3	35.8	-	37.1	-	48	-	-10.9	-

MODE: CH 6		6 dB Bandwidth: 10 kHz				PHASE: Neutral(N)			
Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.49	0.2	21.8	-	22.0	-	48	-	-26.0	-
0.56	0.2	26.1	-	26.3	-	48	-	-21.7	-
2.67	0.2	26.0	-	26.2	-	48	-	-21.8	-
4.43	0.4	27.8	-	28.2	-	48	-	-19.8	-
16.87	0.8	30.9	-	31.7	-	48	-	-16.3	-
23.98	1.2	37.5	-	38.7	-	48	-	-9.3	-

- Remarks:
1. "*": Undetectable
 2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA.
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.

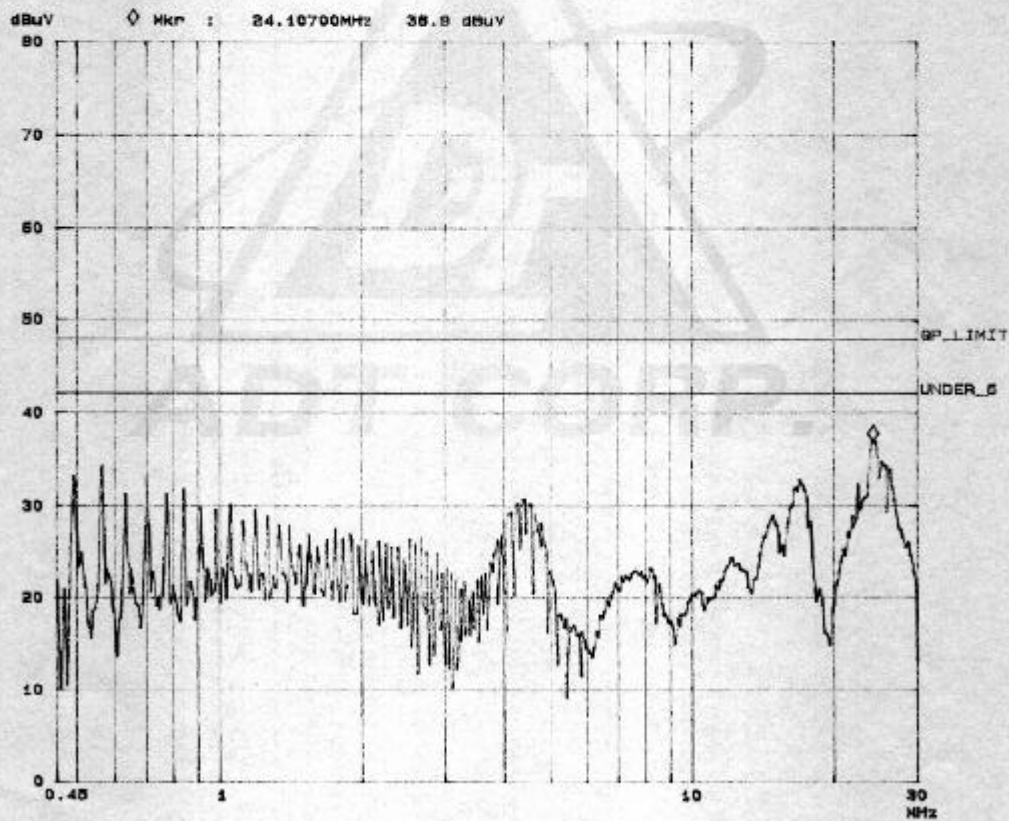
ADT CO. Shielded Room 2
FCC CLASS B

28, Feb 00 14:38

EUT: WL11000-1
Op Cond: CH 8
Test Spec: LISN : L
Comment: 120V AC / 60Hz

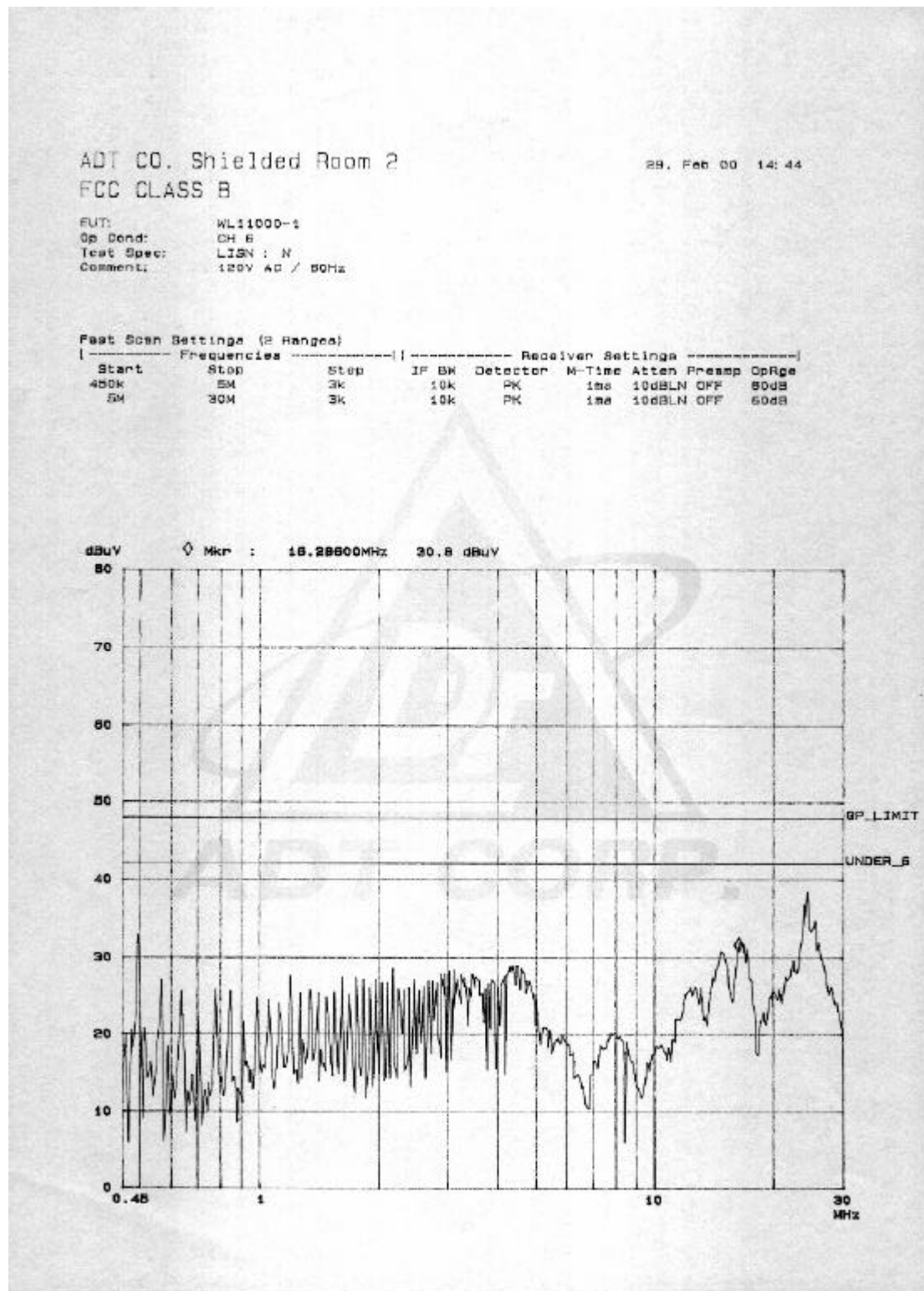
Fast Scan Settings (2 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Presamp	OpRge
450k	5M	3k	10k	PK	1ms	10dB	OFF	60dB
5M	30M	3k	10k	PK	1ms	10dB	OFF	60dB





FCC ID: LLM002WL11000-1



MODE: CH 11		6 dB Bandwidth: 10 kHz				PHASE: Neutral(L)			
Freq. [MHz]	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.50	0.2	31.5	-	31.7	-	48	-	-16.3	-
0.57	0.2	31.1	-	31.3	-	48	-	-16.7	-
2.62	0.2	23.3	-	23.5	-	48	-	-24.5	-
4.45	0.4	29.0	-	29.4	-	48	-	-18.6	-
16.89	1.0	32.7	-	33.7	-	48	-	-14.3	-
24.27	1.3	35.8	-	37.1	-	48	-	-10.9	-

MODE: CH 11		6 dB Bandwidth: 10 kHz				PHASE: Neutral(N)			
Freq. [MHz]	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.50	0.2	31.1	-	31.3	-	48	-	-16.7	-
0.57	0.2	26.3	-	26.5	-	48	-	-21.5	-
2.62	0.2	27.2	-	27.4	-	48	-	-20.6	-
4.45	0.4	27.7	-	28.1	-	48	-	-19.9	-
16.89	0.8	30.7	-	31.5	-	48	-	-16.5	-
24.27	1.2	38.2	-	39.4	-	48	-	-8.6	-

- Remarks:
1. "*": Undetectable
 2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



FCC ID: LLM002WL11000-1

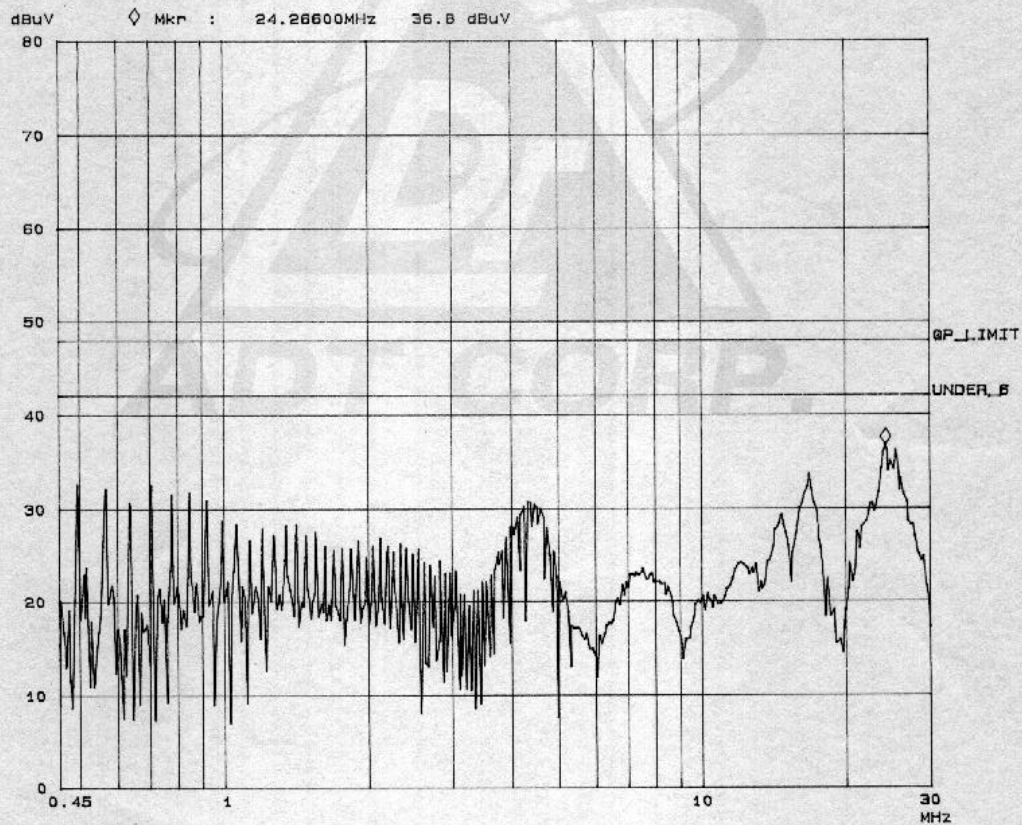
ADT CO. Shielded Room 2
FCC CLASS B

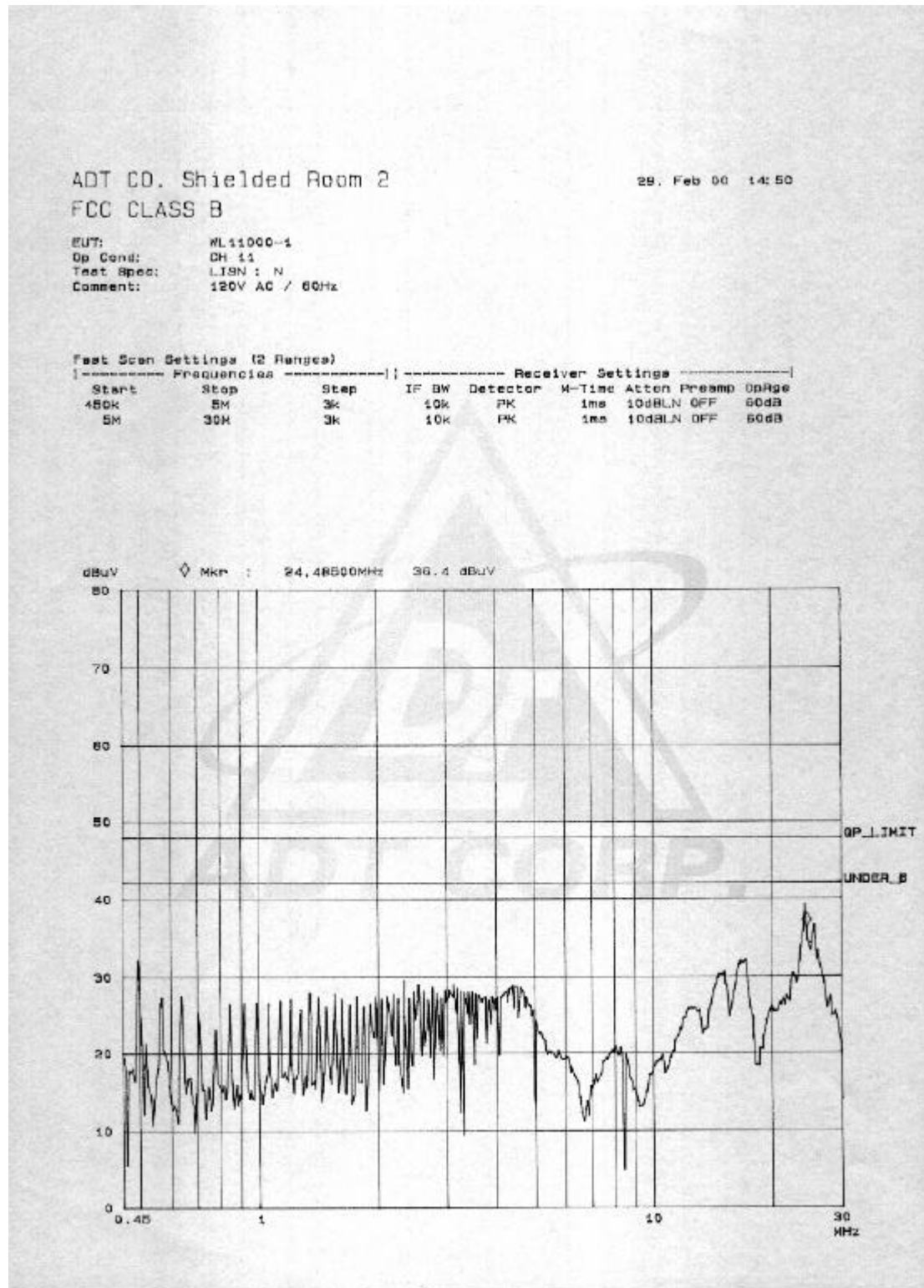
29. Feb 00 14:57

EUT: WL11000-1
Op Cond: CH 11
Test Spec: LISN: L
Comment: 120V AC / 60Hz

Fast Scan Settings (2 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpAge
450k	5M	3k	10k	PK	1ms	10dBLN	OFF	60dB
5M	30M	3k	10k	PK	1ms	10dBLN	OFF	60dB





5.2 6 dB Bandwidth Measurement

5.2.1 Test Instruments

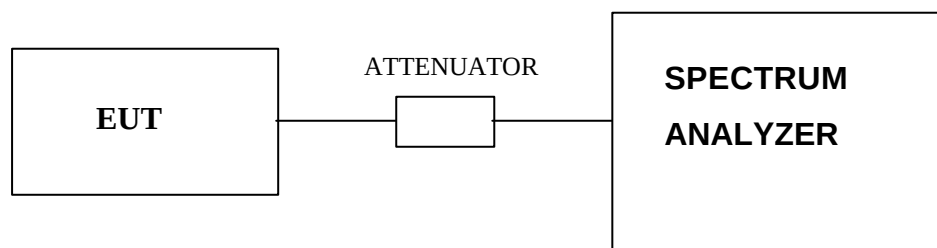
Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE & SCHWARZ TEST RECEIVER	ESMI	846839/018 848926/005	Dec. 03, 2000
HP ATTENUATOR	8496B	3247A18505	Cal. on use
HP PLOTTER	7475A	2641V27755	N/A

The measurement uncertainty is less than +/- 2.6dB, which is calculated as per NAMAS document NIS81.

5.2.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 100 kHz RBW and 100 kHz VBW,. The 6 dB bandwidth was measured and recorded.

5.2.3 Test Setup



5.2.4 EUT Operating condition

A software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

5.2.5 Climate Condition

The temperature and related humidity: 18 degree C and 78%RH



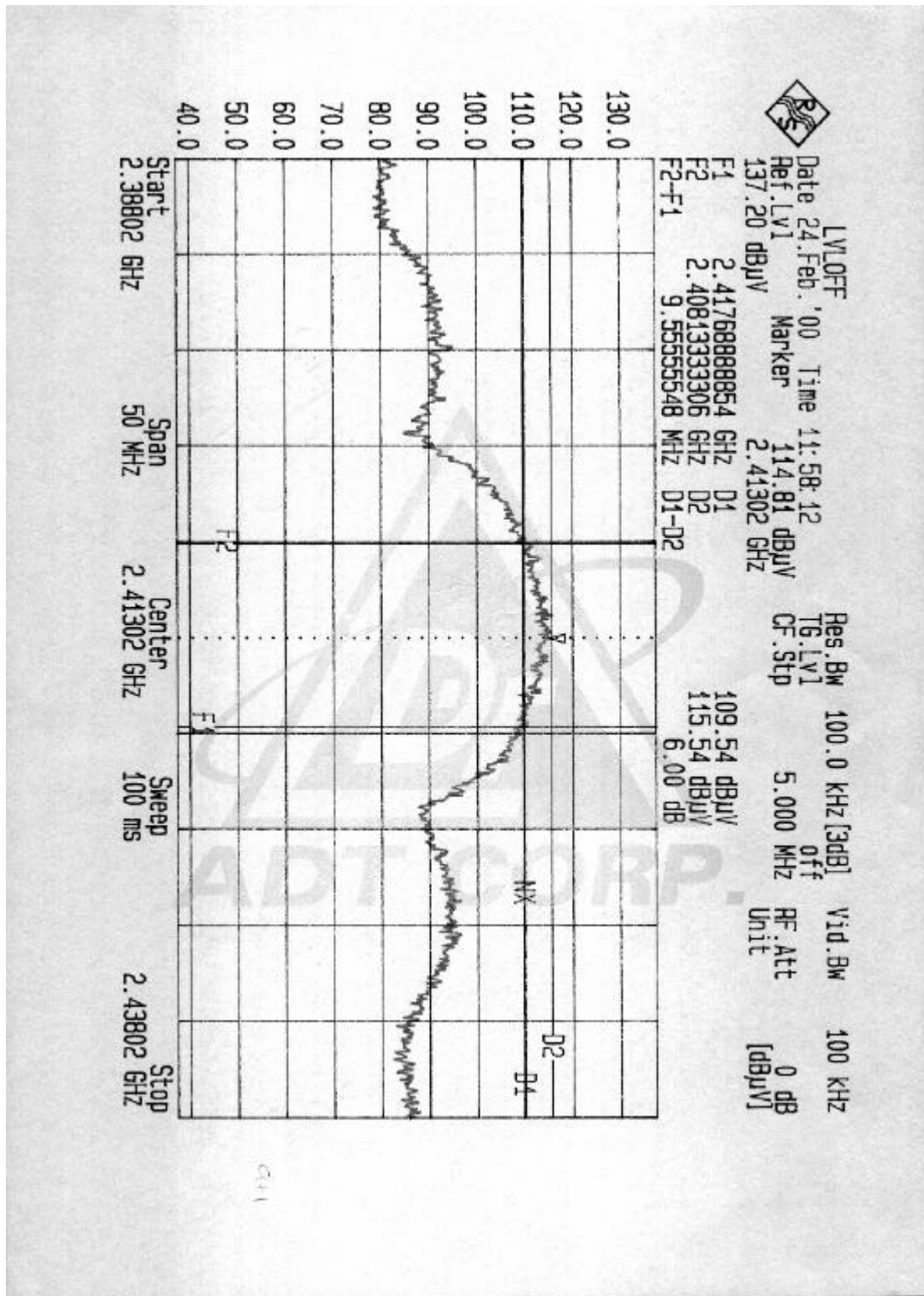
FCC ID: LLM002WL11000-1

5.2.6 Test Results

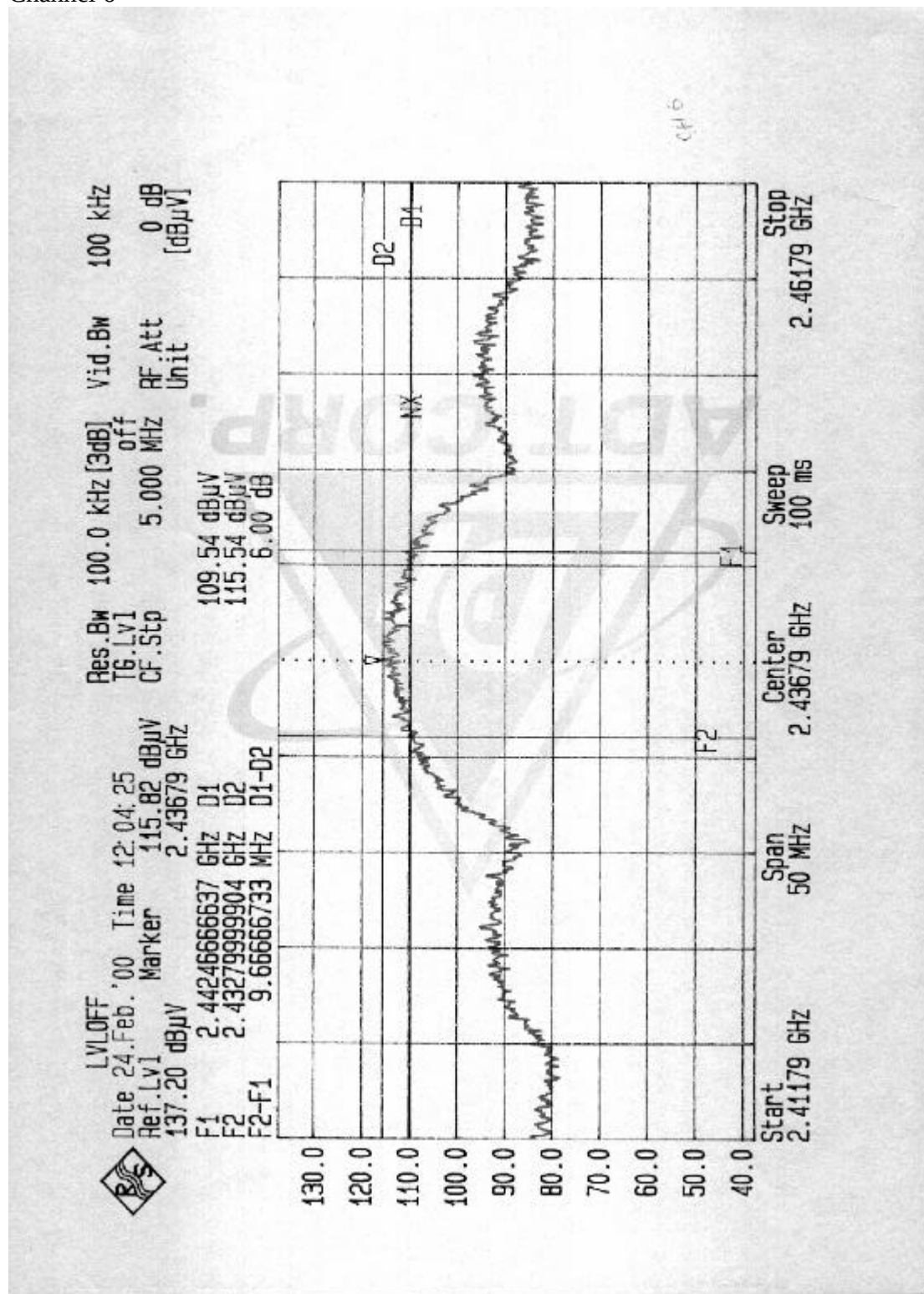
CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	9.56	0.5	PASS
6	2437	9.67	0.5	PASS
11	2462	9.61	0.5	PASS

The spectrum plots of test result are attached as below.

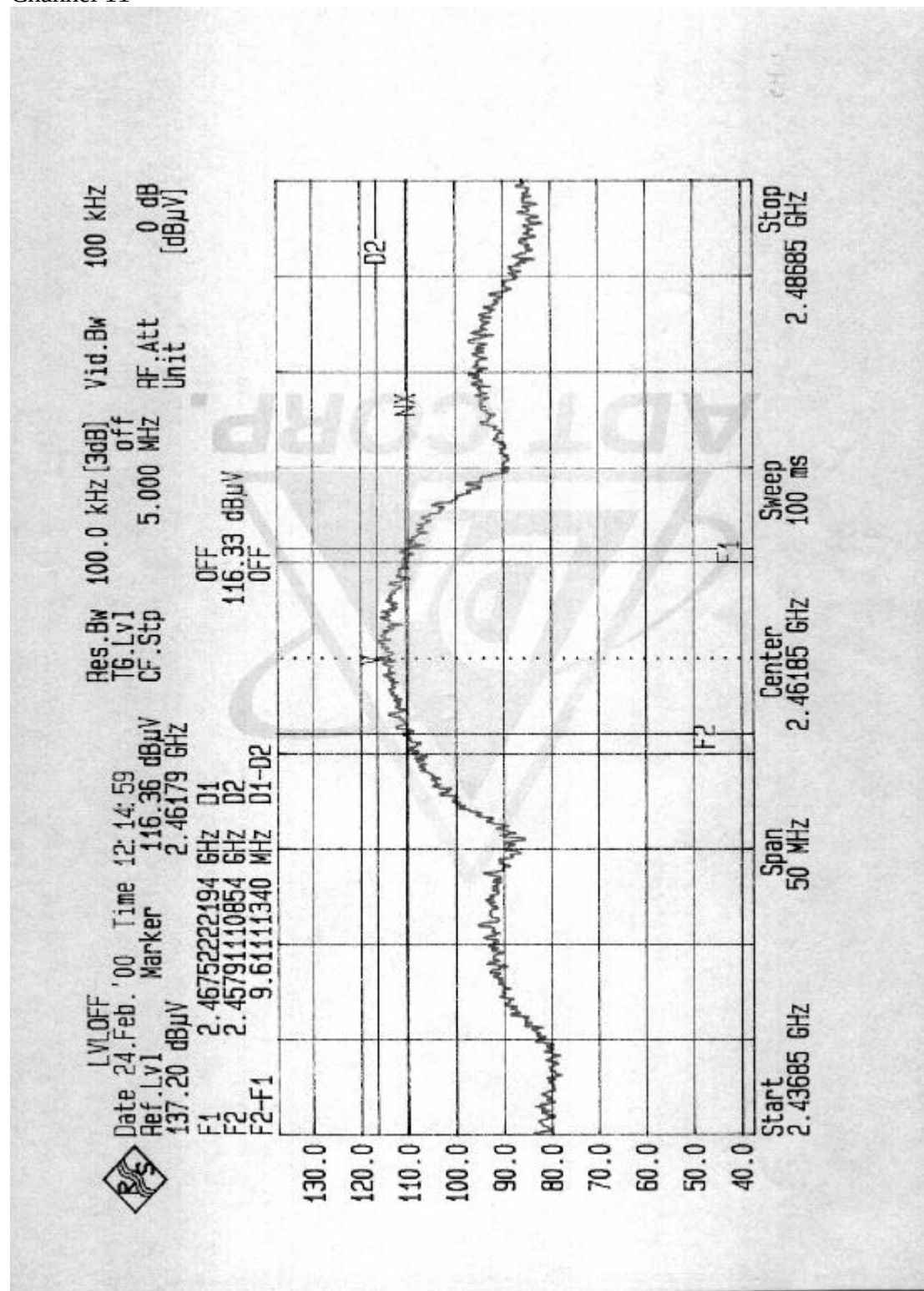
Channel 1



Channel 6



Channel 11



5.3 Maximum Peak Output Power Measurement

5.3.1 Test Instruments

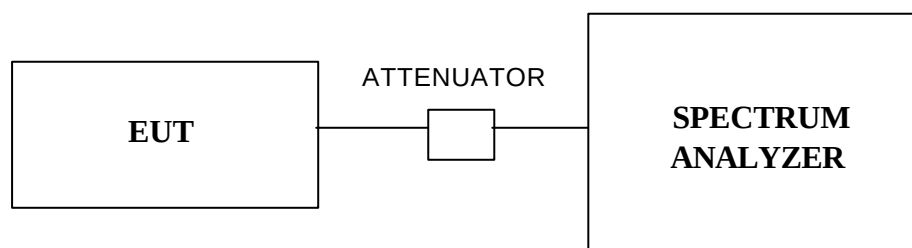
Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE & SCHWARZ TEST RECEIVER	ESMI	846839/018 848926/005	Dec. 03, 2000
HP ATTENUATOR	8496B	3247A18505	Cal. on use
HP PLOTTER	7475A	2641V27755	N/A

The measurement uncertainty is less than +/- 2.6dB, which is calculated as per NAMAS document NIS81.

5.3.2 Test Procedure

The transmitter output was connected coupled to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 1 MHz RBW and 1 MHz VBW. The peak power was measured and recorded.

5.3.3 Test Setup



5.3.4 EUT Operating condition

A software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

5.3.5 Climate Condition

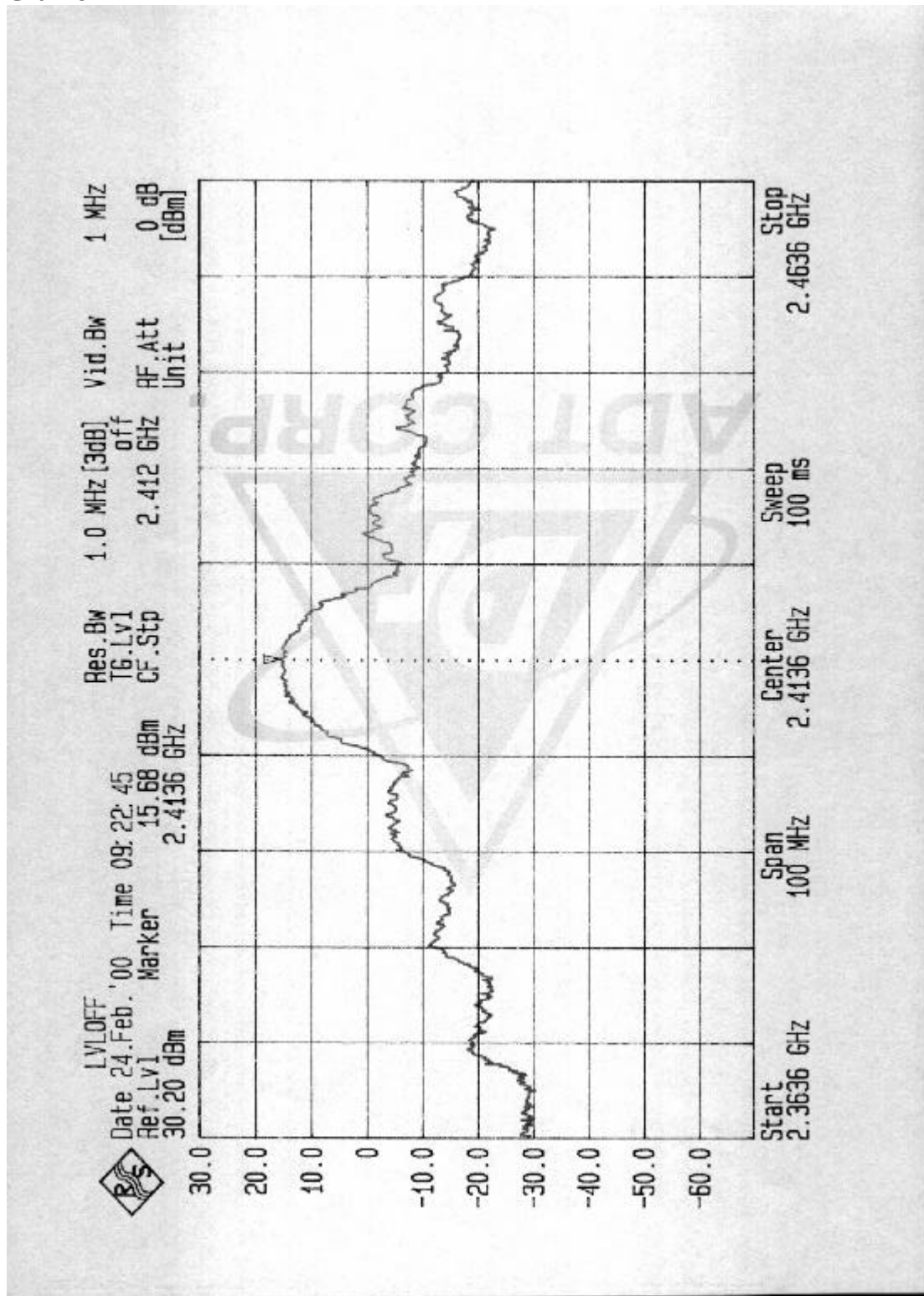
The temperature and related humidity: 18 degree C and 78%RH

5.3.6 Test Results

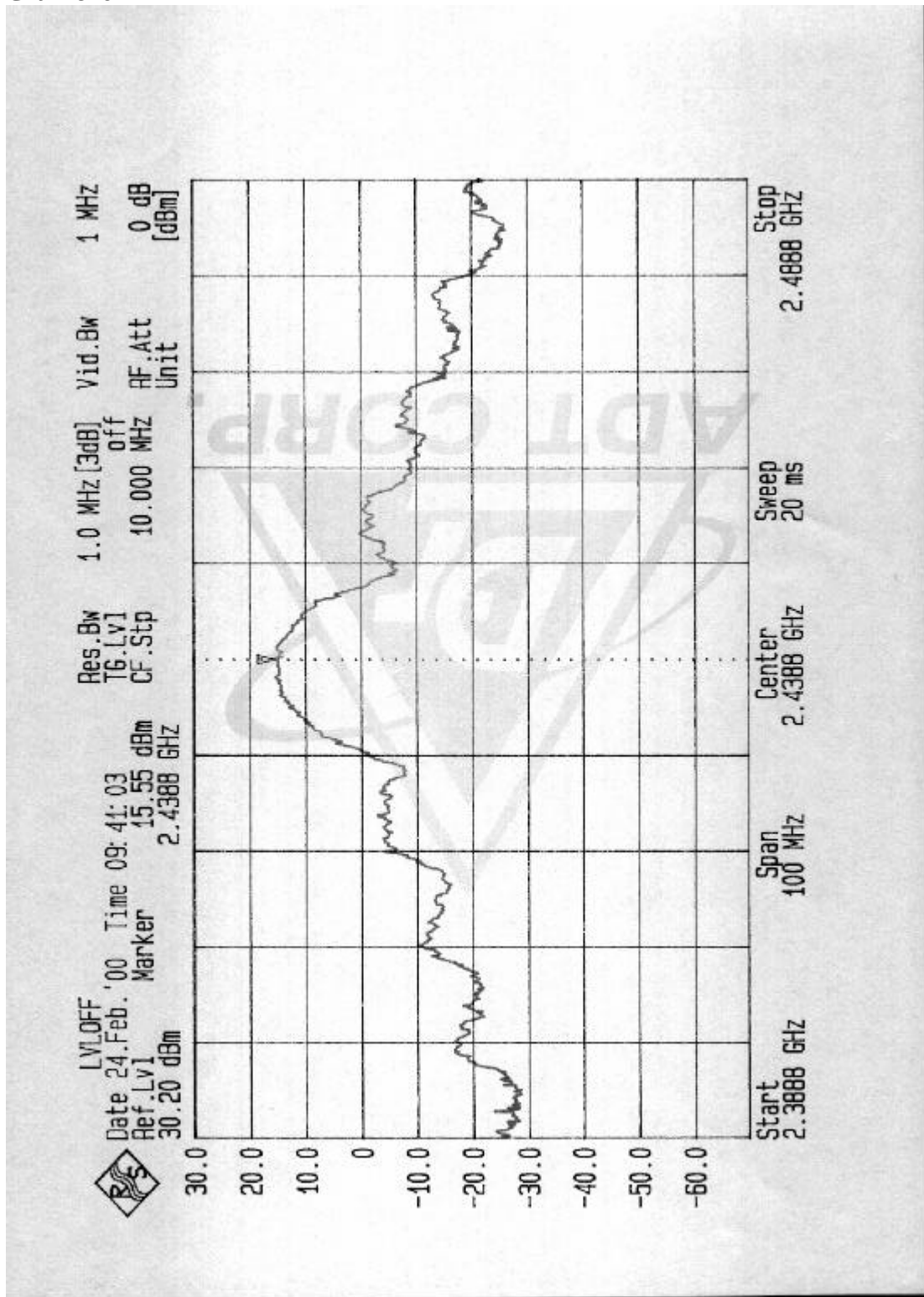
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.68	30	PASS
6	2437	15.55	30	PASS
11	2462	16.09	30	PASS

The spectrum plots are attached as below.

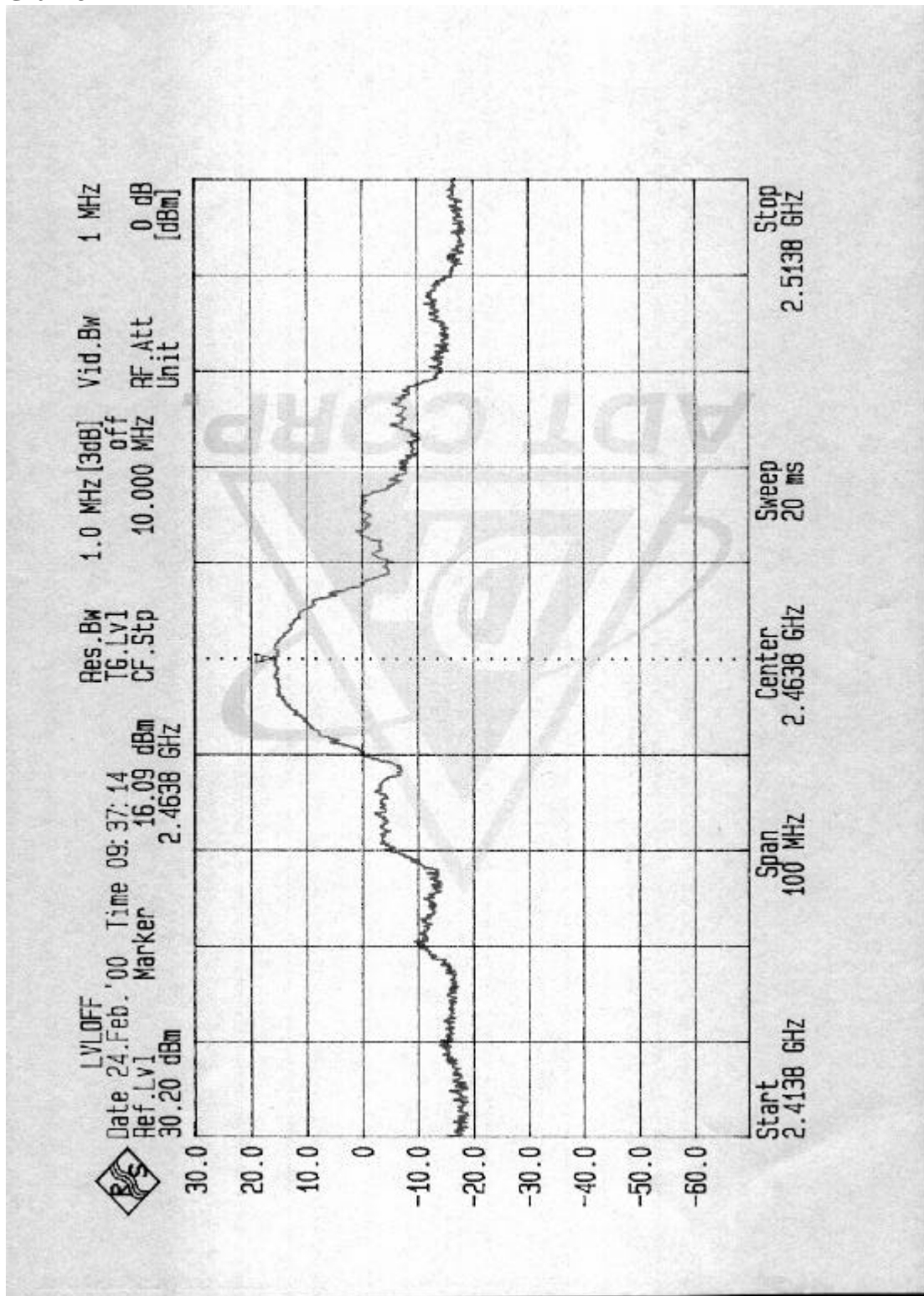
Channel 1



Channel 6



Channel 11



5.4 Radiated Emission Measurement

5.4.1 Test instruments

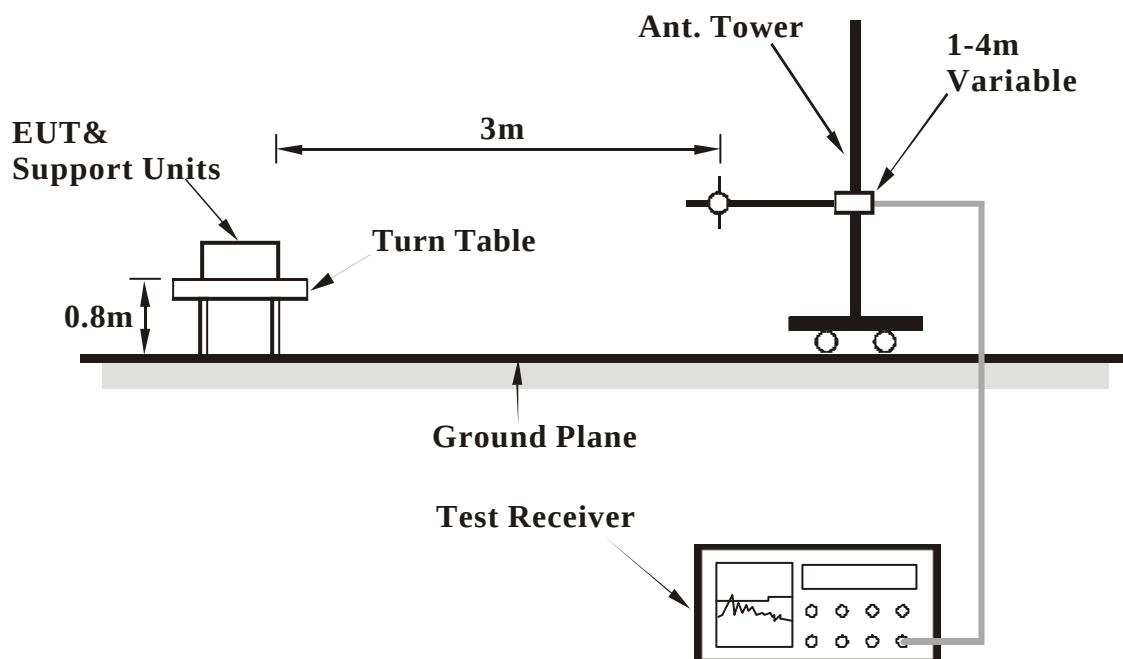
Description & Manufacturer	Model No.	Serial No.	Calibrated Until
HP Spectrum Analyzer	8590L	3544A01176	Apr 28, 2000
HP Preamplifier	8447D	2944A08485	May 01, 2000
HP Preamplifier	8347A	3307A01088	Sep. 09, 2000
ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Aug. 27, 2000
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 25, 2000
CHASE BILOG Antenna	CBL6112A	2221	Aug. 10, 2000
SCHWARZBECK Horn Antenna	BBHA9120-D	D130	Jul. 09, 2000
SCHWARZBECK Horn Antenna	BBHA9170	123	Jan. 31, 2001
EMCO Turn Table	1060	1115	N/A
SHOSHIN Tower	AP-4701	A6Y005	N/A
Open Field Test Site	Site 5	ADT-R05	Aug. 09, 2000

The measurement uncertainty is less than +/- 3dB, which is calculated as per NAMAS document NIS81.

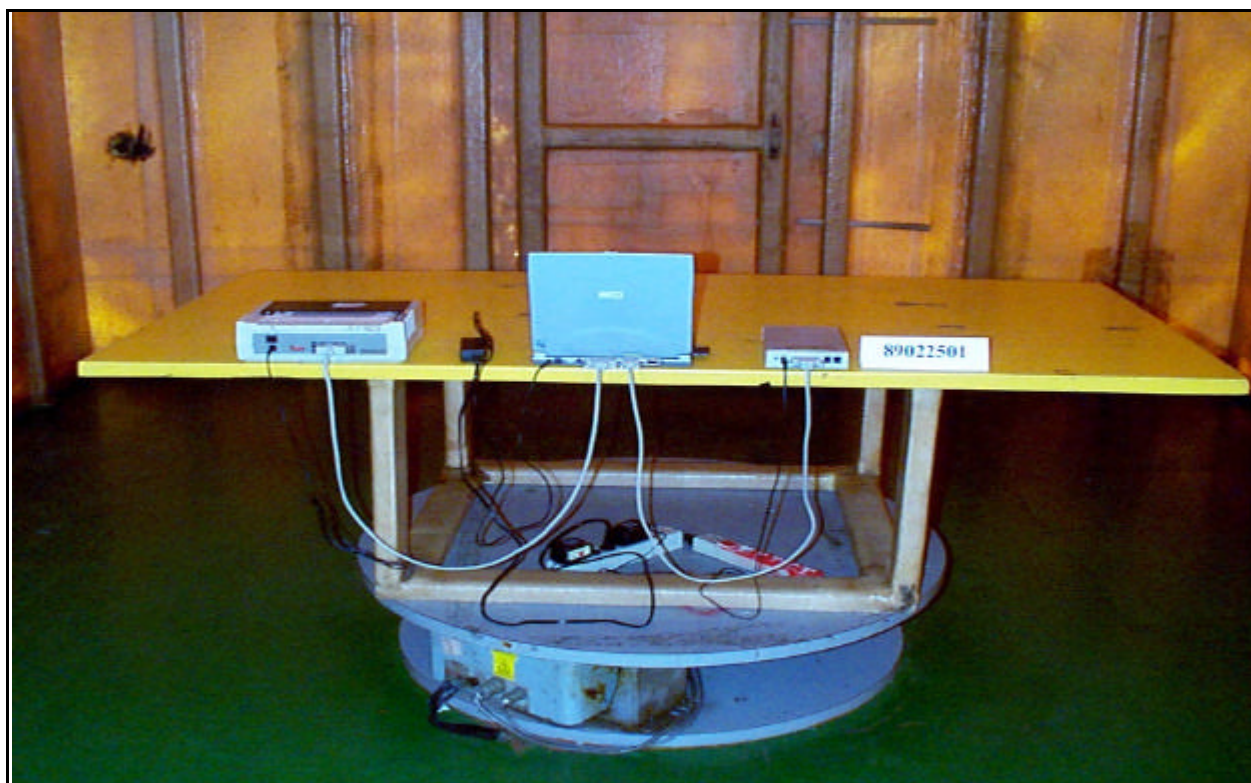
5.4.2 Test Procedure

- a. The EUT was placed on the top of a turn table 0.8 meter above ground at an open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable height antenna tower.
- c. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- d. For each suspected emission the EUT was arranged to its worst case and then tuned the antenna height from 1 meter to 4 meter and turned the turn table from 0 degree to 360 degrees to find the maximum reading.
- e. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and peak values of EUT will be reported. Otherwise the emissions which do not have 10 dB margin will be re-tested one by one using the quasi- peak method or average method as specified and then reported. Data sheet peak mode and QP mode.

5.4.3 Test Setup



5.4.4 Photograph of Test Setup





5.4.5 EUT Operating condition

A software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually. "H" patterns and other messages were sent to support units and displayed on the screen of Notebook PC.

5.4.6 Climate Condition

The temperature and related humidity: 25 degree C and 65%RH

5.4.7 Test Results

5.4.7.1 Frequency range of measurement: 30 – 1000MHz

Mode: Channel 1 Antenna Polarity: Vertical		Detector Function : Quasi-Peak		6dB Bandwidth : 120 kHz.		Distance : 3 M Freq. Range : 30 – 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
131.96	12.7	20.8	33.5	43.5	-10.0	99	365
572.01	20.9	13.7	34.6	46	-11.4	99	336
660.02	21.6	14.9	36.5	46	-9.5	132	72
704.02	21.7	11.6	33.3	46	-12.7	120	203
748.01	22.4	5.4	27.8	46	-18.2	99	71
792.02	22.4	9.3	31.7	46	-14.3	135	230
836.02	23.1	11.9	35.0	46	-11.0	173	195
924.02	23.7	10.6	34.3	46	-11.7	99	79

Channel 1 Antenna Polarity: Horizontal		Detector Function : Quasi-Peak		6dB Bandwidth : 120 kHz.		Distance : 3 M Freq. Range : 30 – 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
264.02	14.6	18.6	33.2	46	-12.8	110	236
352.02	16.4	18.8	35.2	46	-10.8	99	72
440.02	18.5	13.6	32.1	46	-13.9	99	165
572.02	20.9	11.5	32.4	46	-13.6	99	362
660.02	21.6	14.1	35.7	46	-10.3	129	228
704.02	21.7	11.9	33.6	46	-12.4	117	186
748.02	22.4	11.5	33.9	46	-12.1	107	362
924.02	23.7	8.5	32.2	46	-13.8	117	31

Remarks: 1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value
5. The limit value is defined as per 15.247(c),

Channel 6 Antenna Polarity: Vertical		Detector Function : Quasi-Peak		6dB Bandwidth : 120 kHz.		Distance : 3 M Freq. Range : 30 – 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
132.00	12.7	20.4	33.1	43.5	-10.4	99	125
484.00	19.4	12.1	31.5	46	-14.5	109	206
572.00	20.9	11.6	32.5	46	-13.5	263	231
660.00	21.6	12.4	34.0	46	-12.0	165	8
704.00	21.7	11.5	33.2	46	-12.8	145	246
836.00	23.1	8.8	31.9	46	-14.1	162	223
880.00	23.3	8.9	32.2	46	-13.8	159	163
924.01	23.7	7.0	30.7	46	-15.3	123	50

Channel 6 Antenna Polarity: Horizontal		Detector Function : Quasi-Peak		6dB Bandwidth : 120 kHz.		Distance : 3 M Freq. Range : 30 – 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
132.01	12.7	17.6	30.3	43.5	-13.2	223	104
264.01	14.6	19.4	34.0	46	-12.0	108	334
484.01	19.4	13.4	32.8	46	-13.2	99	362
528.01	20.4	13.1	33.5	46	-12.5	99	365
572.01	20.9	14.2	35.1	46	-10.9	198	10
660.01	21.6	14.9	36.5	46	-9.5	138	146
704.01	21.7	13.4	35.1	46	-10.9	137	300
924.01	23.7	9.6	33.3	46	-12.7	120	38

- Remarks:** 1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value
5. The limit value is defined as per 15.247(c),

Channel 11 Antenna Polarity: Vertical		Detector Function : Quasi-Peak		6dB Bandwidth : 120 kHz.		Distance : 3 M Freq. Range : 30 – 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
132.01	12.7	20.8	33.5	43.5	-10.0	99	98
572.01	20.9	12.2	33.1	46	-12.9	118	340
660.01	21.6	13.2	34.8	46	-11.2	152	77
704.01	21.7	11.7	33.4	46	-12.6	190	229
748.01	22.4	9.1	31.5	46	-14.5	178	157
792.01	22.4	8.9	31.3	46	-14.7	177	362
836.01	23.1	9.5	32.6	46	-13.4	101	276
880.01	23.3	7.5	30.8	46	-15.2	160	149

Channel 11 Antenna Polarity: Horizontal		Detector Function : Quasi-Peak		6dB Bandwidth : 120 kHz.		Distance : 3 M Freq. Range : 30 – 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
132.00	12.7	17.0	29.7	43.5	-13.8	124	362
264.00	14.6	15.8	30.4	46	-15.6	124	-2
572.02	20.9	12.4	33.3	46	-12.7	168	213
616.02	21.1	10.6	31.7	46	-14.3	135	212
660.02	21.6	16.3	37.9	46	-8.1	125	140
704.00	21.7	14.3	36.0	46	-10.0	125	205
836.00	23.1	11.2	34.3	46	-11.7	116	184
924.00	23.7	8.7	32.4	46	-13.6	116	22

- Remarks:** 1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value
5. The limit value is defined as per 15.247(c),

5.4.8.2 Frequency range of measurement: Above 1000 MHz

Channel 1 Antenna Polarity: Vertical		Detector Function : Peak, Average				6dB Bandwidth : 1 MHz				Distance : 3 M Freq. Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
1012.01	27.3	15.5	-	42.8	-	74	54	-31.2	-	99	362
1364.00	29.7	17.0	-	46.7	-	74	54	-27.3	-	99	20
1452.00	30.2	17.2	-	47.4	-	74	54	-26.6	-	99	268
2038.00	33.6	17.6	-	51.2	-	74	54	-22.8	-	108	262
2412.00	34.0	68.4	61.7	102.4	95.7	-	-	-	-	104	-2
4824.00	41.5	13.8	5.4	55.3	46.9	74	54	-18.7	-7.1	99	207
7236.00	-	-	-	-	-	74	54	-	-	-	-

Channel 1 Antenna Polarity: Horizontal		Detector Function : Peak, Average				6dB Bandwidth : 1 MHz				Distance : 3 M Freq. Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
1452.00	30.2	16.2	-	46.4	-	74	54	-27.6	-	99	54
2038.00	33.6	17.7	-	51.3	-	74	54	-22.7	-	145	188
2412.00	34.0	73.0	65.6	107.0	99.6	-	-	-	-	186	259
4824.00	41.5	13.4	5.5	54.9	47.0	74	54	-19.1	-7.0	99	202
7236.00	-	-	-	-	-	74	54	-	-	-	-

Remarks: 1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).

2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)

3. The other emission levels were very low against the limit.

4. Margin value = Emission level - Limit value

5. The limit value is defined as per 15.247(c),

Channel 6 Antenna Polarity: Vertical		Detector Function : Peak, Average				6dB Bandwidth : 1 MHz				Distance : 3 M Freq. Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
1364.10	29.7	15.6	-	45.3	-	74	54	-28.7	-	99	362
1452.10	30.2	16.1	-	46.3	-	74	54	-27.7	-	99	-2
2062.98	33.6	17.5	-	51.1	-	74	54	-22.9	-	153	266
2437.00	34.1	68.9	62.6	103.0	96.7	-	-	-	-	102	-2
4874.00	41.5	13.7	5.3	55.2	46.8	74	54	-18.8	-7.2	103	-1
7311.00	-	-	-	-	-	74	54	-	-	-	-

Channel 6 Antenna Polarity: Horizontal		Detector Function : Peak, Average				6dB Bandwidth : 1 MHz				Distance : 3 M Freq. Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
1364.10	29.7	15.2	-	44.9	-	74	54	-29.1	-	99	-2
1452.00	30.2	17.1	-	47.3	-	74	54	-26.7	-	99	323
2063.00	33.6	17.2	-	50.8	-	74	54	-23.2	-	99	-2
2437.00	34.0	73.3	67.2	107.4	101.3	-	-	-	-	100	308
4874.00	41.5	13.8	5.4	55.3	46.9	74	54	-18.7	-7.1	101	306
7311.00	-	-	-	-	-	74	54	-	-	-	-

- Remarks:** 1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value
5. The limit value is defined as per 15.247(c),

Channel 11 Antenna Polarity: Vertical		Detector Function : Peak, Average				6dB Bandwidth : 1 MHz				Distance : 3 M Freq. Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
1364.10	29.7	16.8	-	46.5	-	74	54	-27.5	-	99	94
1451.97	30.2	16.1	-	46.3	-	74	54	-27.7	-	115	330
2087.3	33.7	18.2	-	51.9	-	74	54	-22.1	-	99	261
2462.0	34.1	69.2	62.5	103.3	96.6	-	-	-	-	101	341
4924.00	41.6	13.8	5.4	55.4	47.0	74	54	-18.6	-7.0	101	341
7386.00	-	-	-	-	-	-	-	-	-	-	-

Channel 11 Antenna Polarity: Horizontal		Detector Function : Peak, Average				6dB Bandwidth : 1 MHz				Distance : 3 M Freq. Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
1364.02	29.7	15.0	-	44.7	-	74	54	-29.3	-	157	-2
1451.97	30.2	16.3	-	46.5	-	74	54	-27.5	-	164	174
1495.90	30.7	16.3	-	47.0	-	74	54	-27.0	-	164	174
2088.10	33.7	17.8	-	51.5	-	74	54	-22.5	-	146	204
2462.00	34.1	74.4	68.0	108.5	102.1	-	-	-	-	188	259
4924.00	41.6	14.3	5.6	55.9	47.2	74	54	-18.1	-6.8	182	246
7386.00	-	-	-	-	-	-	-	-	-	-	-

- Remarks:**
1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
 2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247(c),

5.5 Power Spectral Density Measurement

5.5.1 Test Instruments

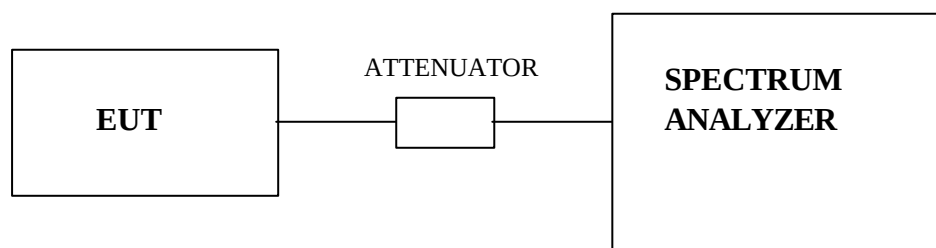
Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE & SCHWARZ TEST RECEIVER	ESMI	846839/018 848926/005	Dec. 03, 2000
HP ATTENUATOR	8496B	3247A18505	Cal. on use
HP PLOTTER	7475A	2641V27755	N/A

The measurement uncertainty is less than +/- 2.6dB, which is calculated as per NAMAS document NIS81.

5.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW,. The power spectral density was measured and recorded.

5.5.3 Test Setup



5.5.4 EUT Operating condition

A software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

5.5.5 Climate Condition

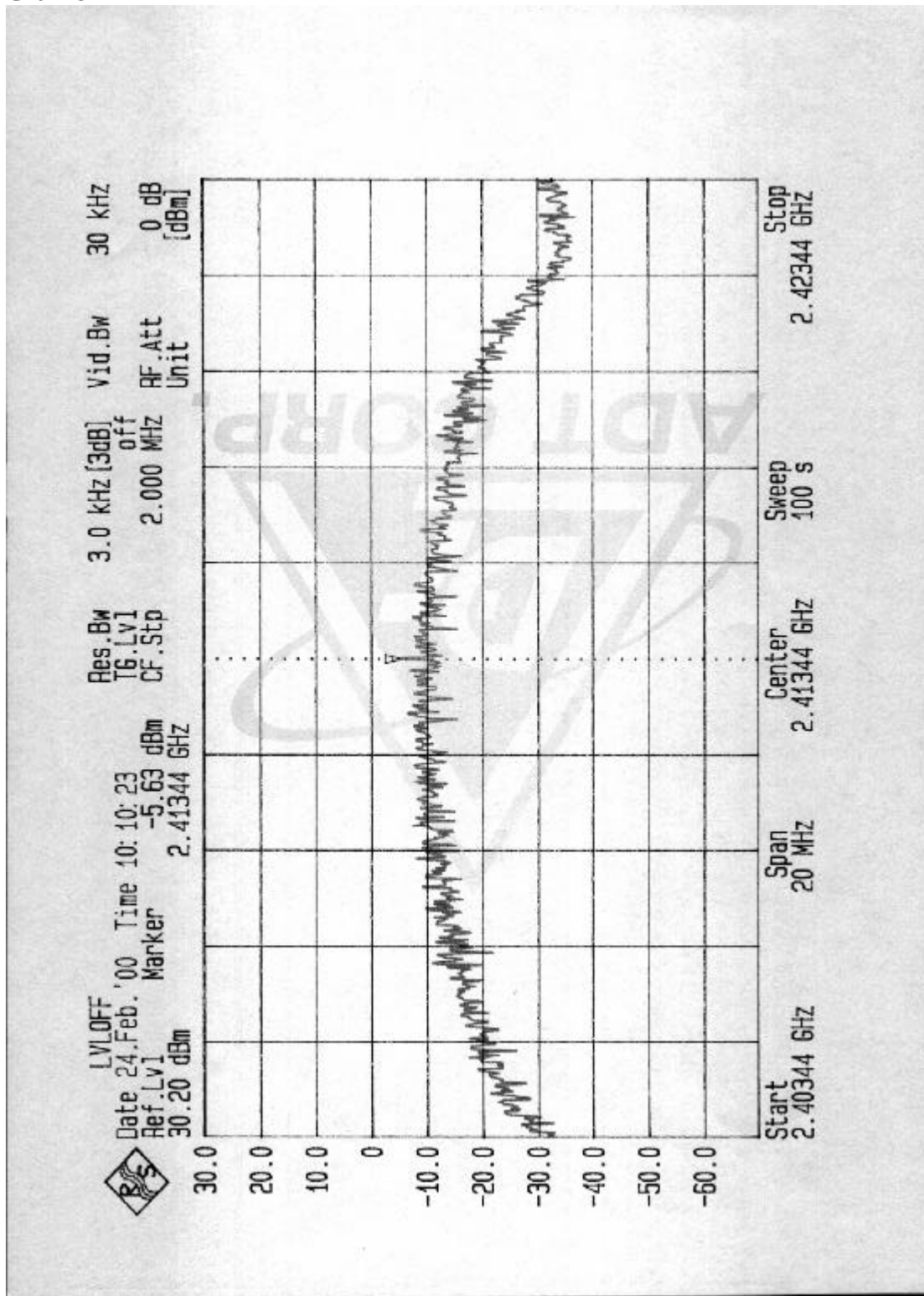
The temperature and related humidity: 18 degree C and 78%RH

5.5.6 Test Results

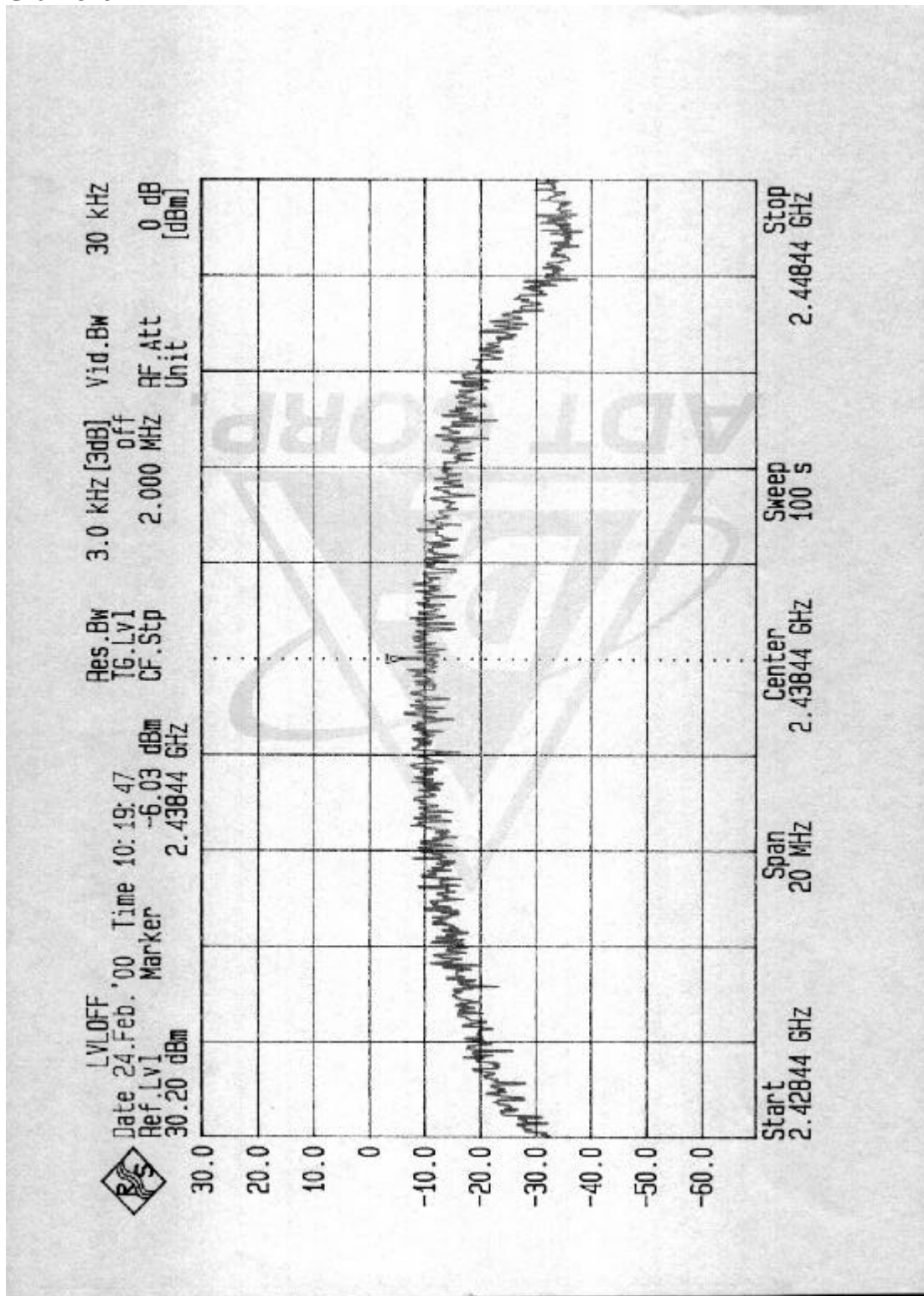
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW	MAXIMUM LIMIT (MHz)	PASS/FAIL
1	2412	-5.63	8dBm	PASS
6	2437	-6.03	8dBm	PASS
11	2462	-4.79	8dBm	PASS

The spectrum plots of test result are attached as below.

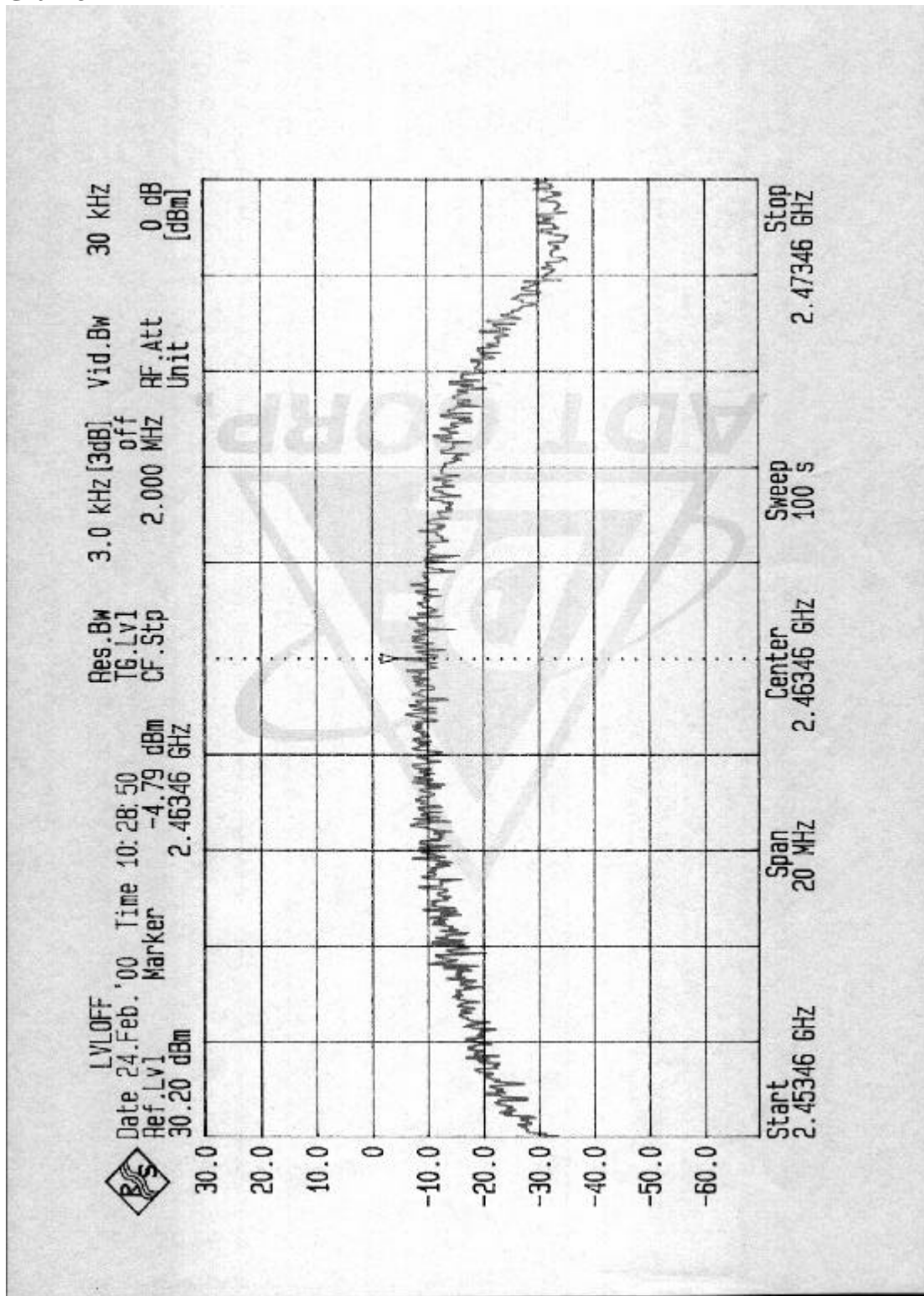
Channel 1



Channel 6



Channel 11



5.6 Processing Gain of a Direct Sequence Spread Spectrum Measurement

5.6.1 Test Instruments and Support Units

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
Hewlett Packard Spectrum Analyzer, 9kHz to 22GHz	HP8593E	S942848	15 Jun 2000
Marconi Signal Generator, 10kHz to 2.7GHz	2031	953426	06 Aug 1998
Hewlett Packard Power Meter,	HP438A	S952633	06 Jan 2000
Hewlett Packard Power Sensor, -20 to -70dBm	HP8481D	SCD15369	24 Feb 2000
Hewlett Packard Attenuator, 6dB to 10 dB	HP8493A	NA	NA
Hewlett Packard Step Attenuator, 1dB steps	HP8494A	NA	NA
Hewlett Packard Step Attenuator, 10dB steps	HP8495D	NA	NA
Hewlett Packard Power Splitter,	HP11667B	04390	NA
Campaq Laptop Computer (Qty 2),	Armada 1700	NA	NA

5.6.2 Method of Measurement

The processing gain may be measured using the CW jamming margin method. Figure 1 shows the test configuration. The test consists of stepping a signal generator in 50 kHz increments across the passband of the system. At each point, the generator level required to produce the recommended Bit Error Rate (BER) is recorded. This level is jammer level. The output power of the transmitting unit is measured at the same point. The jammer to Signal (J/S) ratio is then calculated. Discard the worst 20% of the J/S data points. The lowest remaining J/S ratio is used when calculating the Process Gain.

Using equation (1) shown above, calculate the signal to noise ratio required for your chosen BER. This value and the measured J/S ratio are used in the following equation to calculate the Process Gain (Gp) of the system.

$$G_p = (S/N)_0 + M_j + L_{sys}$$

Where:

$(S/N)_0$: Signal to noise ratio for the chosen BER.

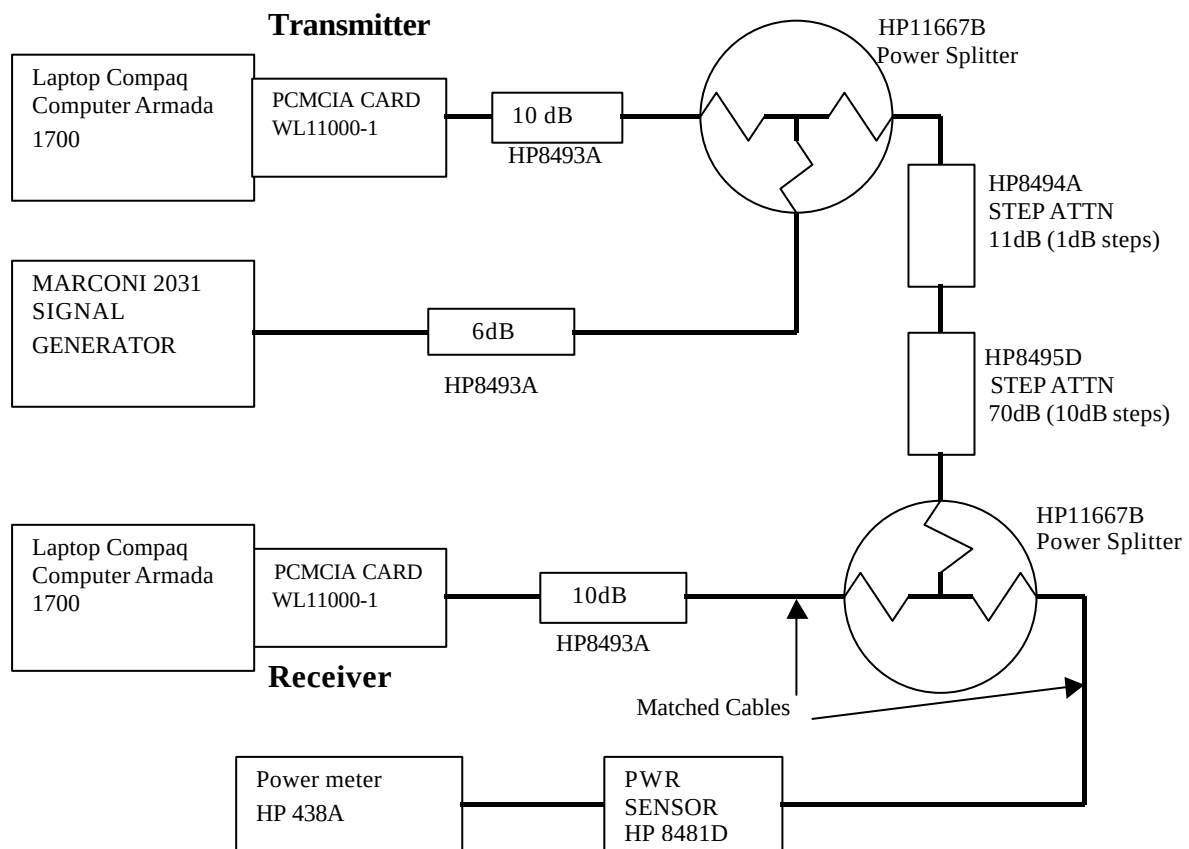
M_j : Maximum jammer to Signal Ratio that recorded at the detected BER.

L_{sys} : System losses . For the purpose of this processing gain calculation we assume a L_{sys} at its minimum value of 2 dB.

Applicable Reference Documents.

1. "HFA3861A Direct Sequence Spread Spectrum Baseband Processor" Harris Corporation Semiconductor Sector Preliminary Data Sheet, Melbourne FL, July 1999.
2. "M-ary Orthogonal Keying BER Curve" .

5.6.3 Test Setup



5.6.4 Test Procedure

Obtain the simplex link shown. Perform all independent instrumentation calibrations Prior to this procedure. Set operating power levels using fixed and variable attenuators In system to meet the following objectives:

1. Signal Power at receiver approximately -60dBm (above thermal sensitivity such that Thermal noise does not cause bit errors.
2. Signal Power at power meter between -20 and -30dBm for optimal linearity.
3. Use spectrum analyzer to monitor test.
4. Ensure that CW Jammer generator RF output is disabled and measure the power at the power meter port using the power meter. This is the relative signal power, S_r .
5. Disable Transmitter, and set CW Jammer generator RF output frequency equal to the carrier frequency and enable generator output. Set reference CW Jammer power level at power meter port 8.4dB below S_r (minimum J/S, or 10dB processing gain reference level). Note the power level setting on the generator, this is the reference CW Jammer power setting, J_r .
6. Disable CW Jammer, re-establish link. PER test should be operating essentially error –free.
7. Enable CW Jammer at the reference power level and verify that the PER test indicates a PER of less than 8%.
8. Alternatively, adjust the CW Jammer level to that which causes 8% PER and verify that the S/J is less than 8.4dB .
9. Repeat step 7 for uniform steps in frequency increments of 50 kHz across the receiver passband with the CW Jammer. In this case the receiver passband is $\pm 8.5\text{ MHz}$.

The numerical data associated with the following radio channel is tabulated and presented for :

Channel 1 : 2412 MHz
Channel 6 : 2437 MHz
Channel 11 : 2462 MHz



5.6.5 EUT Operating condition

Software provided by client to set the EUT to transmit at lowest, middle and highest channel frequencies.

5.6.6 Climate Condition

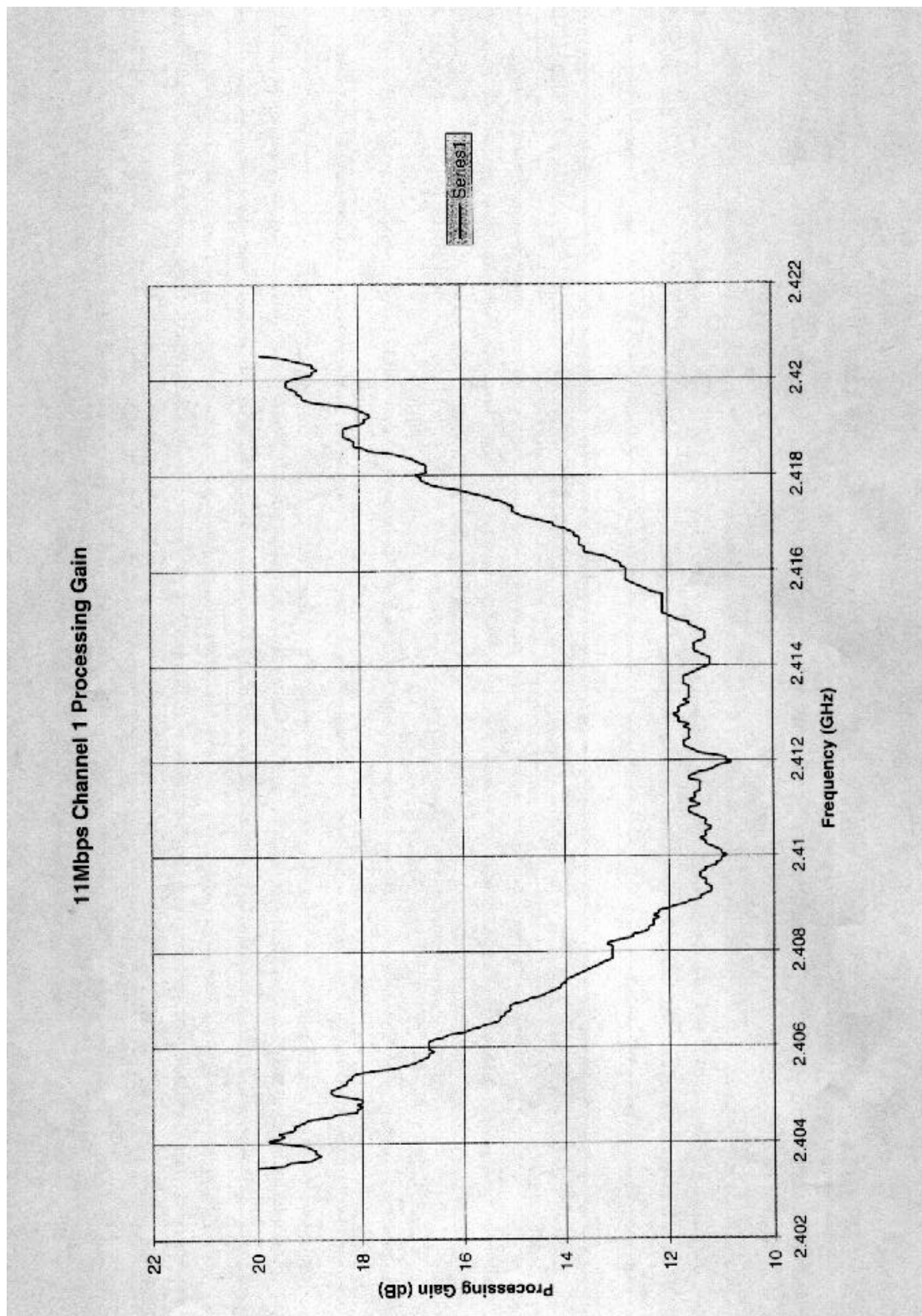
The temperature and related humidity: 25° C and 50%RH

5.6.7 Test Results

11Mbps CHANNEL 1 Processing Gain							
$G_p = (S/N)_o + M_j + L_{sys}$							
Freq.	G_p	$(S/N)_o$	$M_j = J/S$	L_{sys}	Jammer	LVL	FER
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	
2.4095	11.3	16.4	-7.1	2	-47.1	-0.7	6.3
2.40955	11.4	16.4	-7	2	-47	-0.6	6.9
2.4096	11.4	16.4	-7	2	-47	-0.6	7.4
2.40965	11.4	16.4	-7	2	-47	-0.6	7.3
2.4097	11.3	16.4	-7.1	2	-47.1	-0.7	6.7
2.40975	11.3	16.4	-7.1	2	-47.1	-0.7	8
2.4098	11.1	16.4	-7.3	2	-47.3	-0.9	6.7
2.40985	11.1	16.4	-7.3	2	-47.3	0.9	7.6
2.4099	11	16.4	-7.4	2	-47.4	-1	6.5
2.40995	11	16.4	-7.4	2	-47.4	-1	7.4
2.41	10.9	16.4	-7.5	2	-47.5	-1.1	6.1
2.41005	11	16.4	-7.4	2	-47.4	-1	8
2.4101	11	16.4	-7.4	2	-47.4	-1	6.6
2.41015	11.1	16.4	-7.3	2	-47.3	-0.9	7.6
2.4102	11.2	16.4	-7.2	2	-47.2	-0.8	7.7
2.41025	11.3	16.4	-7.1	2	-47.1	-0.7	7.5
2.4103	11.3	16.4	-7.1	2	-47.1	-0.7	6.3
2.41035	11.4	16.4	-7	2	-47	-0.6	8
2.4104	11.3	16.4	-7.1	2	-47.1	-0.7	6.4
2.41045	11.3	16.4	-7.1	2	-47.1	-0.7	6.5
2.4105	11.3	16.4	-7.1	2	-47.1	-0.7	7.2
2.41055	11.2	16.4	-7.2	2	-47.2	-0.8	6.5
2.4106	11.2	16.4	-7.2	2	-47.2	-0.8	6.6
2.41065	11.3	16.4	-7.1	2	-47.1	-0.7	7.8
2.4107	11.3	16.4	-7.1	2	-47.1	-0.7	7
2.41075	11.3	16.4	-7.1	2	-47.1	-0.7	6
2.4108	11.4	16.4	-7	2	-47	-0.6	6.2
2.41085	11.5	16.4	-6.9	2	-46.9	-0.5	6.5
2.4109	11.6	16.4	-6.8	2	-46.8	-0.4	6.9
2.41095	11.6	16.4	-6.8	2	-46.8	-0.4	6.7
2.411	11.6	16.4	-6.8	2	-46.8	-0.4	7.8
2.41105	11.4	16.4	-7	2	-47	-0.6	7.2
2.4111	11.5	16.4	-6.9	2	-46.9	-0.5	7
2.41115	11.6	16.4	-6.8	2	-46.8	-0.4	7.4

11Mbps CHANNEL 1 Processing Gain							
$G_p = (S/N)_o + M_j + L_{sys}$							
Freq.	G_p	$(S/N)_o$	$M_j = J/S$	L_{sys}	Jammer	LVL	FER
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	
2.4112	11.5	16.4	-6.9	2	-46.9	-0.5	6.3
2.41125	11.5	16.4	-6.9	2	-46.9	-0.5	6.6
2.4113	11.5	16.4	-6.9	2	-46.9	-0.5	6.9
2.41135	11.4	16.4	-7	2	-47	-0.6	6.1
2.4114	11.4	16.4	-7	2	-47	-0.6	6
2.41145	11.4	16.4	-7	2	-47	-0.6	6.7
2.4115	11.4	16.4	-7	2	-47	-0.6	7.3
2.41155	11.4	16.4	-7	2	-47	-0.6	6.6
2.4116	11.6	16.4	-6.8	2	-46.8	-0.4	7.7
2.41165	11.6	16.4	-6.8	2	-46.8	-0.4	6.6
2.4117	11.5	16.4	-6.9	2	-46.9	-0.5	6
2.41175	11.4	16.4	-7	2	-47	-0.6	6.8
2.4118	11.2	16.4	-7.2	2	-47.2	-0.8	5.8
2.41185	11.1	16.4	-7.3	2	-47.3	-0.9	7.1
2.4119	11	16.4	-7.4	2	-47.4	-1	5.6
2.41195	10.8	16.4	-7.6	2	-47.6	-1.2	6
2.412	10.9	16.4	-7.5	2	-47.5	-1.1	6.1
2.41205	10.9	16.4	-7.5	2	-47.5	-1.1	4
2.4121	11.1	16.4	-7.3	2	-47.3	-0.9	3.5
2.41215	11.4	16.4	-7	2	-47	-0.6	6.5
2.4122	11.5	16.4	-6.9	2	-46.9	-0.5	5.4
2.41225	11.6	16.4	-6.8	2	-46.8	-0.4	7.5
2.4123	11.7	16.4	-6.7	2	-46.7	-0.3	4.5
2.41235	11.7	16.4	-6.7	2	-46.7	-0.3	7.2
2.4124	11.7	16.4	-6.7	2	-46.7	-0.3	6.7
2.41245	11.6	16.4	-6.8	2	-46.8	-0.4	5.9
2.4125	11.6	16.4	-6.8	2	-46.8	-0.4	6.6
2.41255	11.6	16.4	-6.8	2	-46.8	-0.4	6.2
2.4126	11.6	16.4	-6.8	2	-46.8	-0.4	5.5
2.41265	11.6	16.4	-6.8	2	-46.8	-0.4	5.6
2.4127	11.7	16.4	-6.7	2	-46.7	-0.3	7
2.41275	11.6	16.4	-6.8	2	-46.8	-0.4	7.3
2.4128	11.8	16.4	-6.6	2	-46.6	-0.2	7
2.41285	11.8	16.4	-6.6	2	-46.6	-0.2	7.1

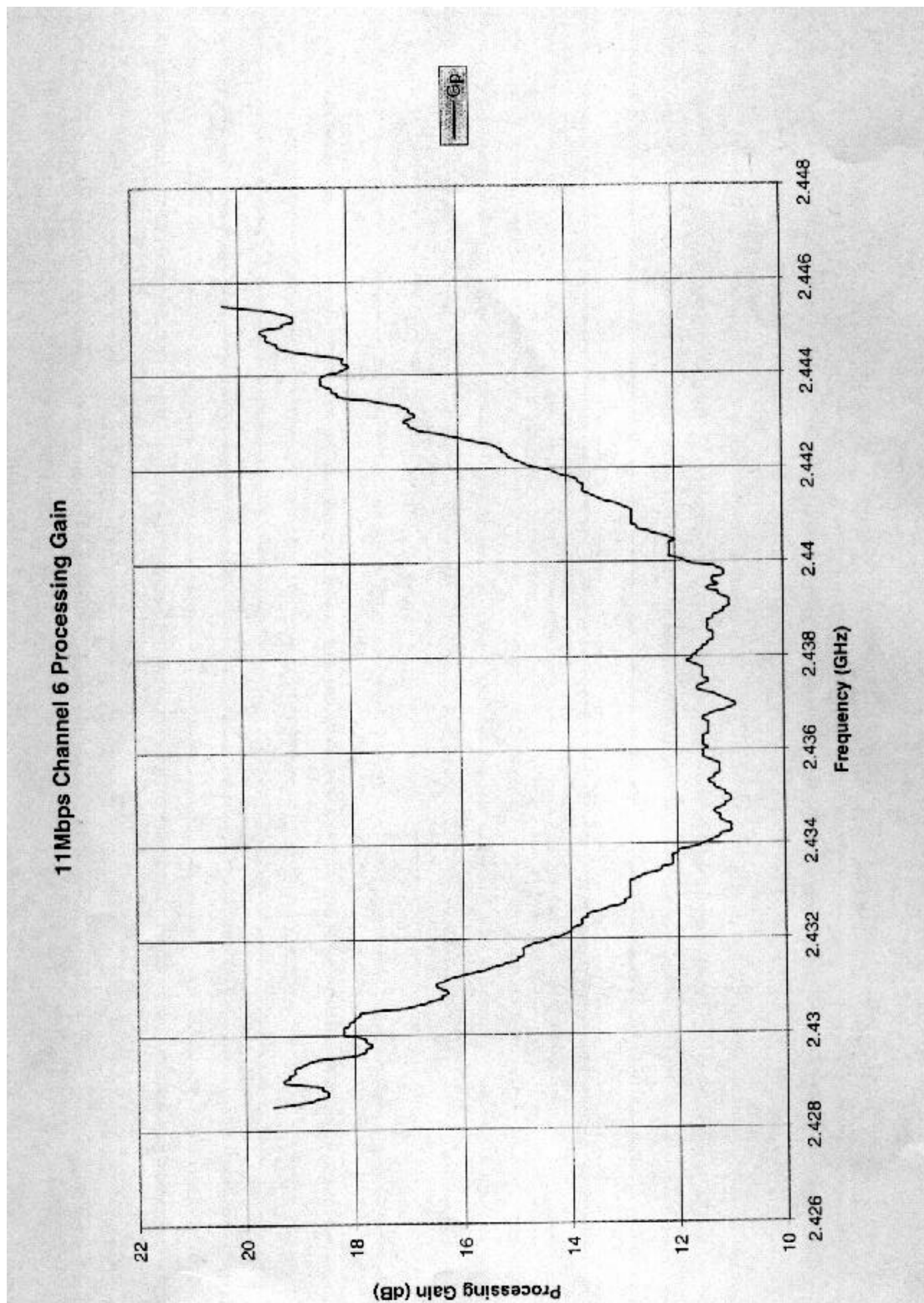
11Mbps CHANNEL 1 Processing Gain							
$G_p = (S/N)_o + M_j + L_{sys}$							
Freq.	G_p	$(S/N)_o$	$M_j = J/S$	L_{sys}	Jammer	LVL	FER
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	
2.4129	11.8	16.4	-6.6	2	-46.6	-0.2	6.3
2.41295	11.9	16.4	-6.5	2	-46.5	-0.1	7.7
2.413	11.8	16.4	-6.6	2	-46.6	-0.2	5.9
2.41305	11.8	16.4	-6.6	2	-46.6	-0.2	6.5
2.4131	11.8	16.4	-6.6	2	-46.6	-0.2	7.5
2.41315	11.7	16.4	-6.7	2	-46.7	-0.3	6.3
2.4132	11.6	16.4	-6.8	2	-46.8	-0.4	7.6
2.41325	11.7	16.4	-6.7	2	-46.7	-0.3	7
2.4133	11.6	16.4	-6.8	2	-46.8	-0.4	6.8
2.41335	11.6	16.4	-6.8	2	-46.8	-0.4	8
2.4134	11.6	16.4	-6.8	2	-46.8	-0.4	7.9
2.41345	11.6	16.4	-6.8	2	-46.8	-0.4	7.5
2.4135	11.6	16.4	-6.8	2	-46.8	-0.4	7.1
2.41355	11.7	16.4	-6.8	2	-46.8	-0.4	6.7
2.4136	11.6	16.4	-6.7	2	-46.7	-0.3	7.8
2.41365	11.7	16.4	-6.7	2	-46.7	-0.3	7.1
2.4137	11.7	16.4	-6.7	2	-46.7	-0.3	6.9
2.41375	11.7	16.4	-6.7	2	-46.7	-0.3	7.3
2.4138	11.6	16.4	-6.8	2	-46.8	-0.4	7
2.41385	11.5	16.4	-6.9	2	-46.9	-0.5	6.4
2.4139	11.4	16.4	-7	2	-47	-0.6	7.5
2.41395	11.3	16.4	-7.1	2	-47.1	-0.7	7.5
2.414	11.2	16.4	-7.2	2	-47.2	-0.8	6.3
2.41405	11.2	16.4	-7.2	2	-47.2	-0.8	6.9
2.4141	11.2	16.4	-7.2	2	-47.2	-0.8	6.4
2.41415	11.2	16.4	-7.2	2	-47.2	-0.8	6
2.4142	11.3	16.4	-7.1	2	-47.1	-0.7	6.6
2.41425	11.4	16.4	-7	2	-47	-0.6	6.7
2.4143	11.5	16.4	-6.9	2	-46.9	-0.5	7.5
2.41435	11.5	16.4	-6.9	2	-46.9	-0.5	6.3
2.4144	11.5	16.4	-6.9	2	-46.9	-0.5	6.5
2.41445	11.5	16.4	-6.9	2	-46.9	-0.5	7.4
2.4145	11.4	16.4	-7	2	-47	-0.6	6.6
Processing Gain : 11.5 dB							



11Mbps CHANNEL 6 Processing Gain							
$G_p = (S/N)_o + M_j + L_{sys}$							
Freq.	G_p	$(S/N)_o$	$M_j = J/S$	L_{sys}	Jammer	LVL	FER
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	
2.4345	11.2	16.4	-7.2	2	-47.2	-3.1	7
2.43455	11.2	16.4	-7.2	2	-47.2	-3.1	6.1
2.4346	11.2	16.4	-7.2	2	-47.2	-3.1	5.7
2.43465	11.3	16.4	-7.1	2	-47.1	-3	6.4
2.4347	11.3	16.4	-7.1	2	-47.1	-3	7.4
2.43475	11.2	16.4	-7.2	2	-47.2	-3.1	7
2.4348	11.1	16.4	-7.3	2	-47.3	-3.2	6.9
2.43485	11.1	16.4	-7.3	2	-47.3	-3.2	7.8
2.4349	11	16.4	-7.4	2	-47.4	-3.3	7.4
2.43495	11	16.4	-7.4	2	-47.4	-3.3	6.7
2.435	11	16.4	-7.4	2	-47.4	-3.3	6.7
2.43505	11.1	16.4	-7.3	2	-47.3	-3.2	8
2.4351	11.1	16.4	-7.3	2	-47.3	-3.2	7.1
2.43515	11.2	16.4	-7.2	2	-47.2	-3.1	7.3
2.4352	11.3	16.4	-7.1	2	-47.1	-3	7.7
2.43525	11.3	16.4	-7.1	2	-47.1	-3	6
2.4353	11.4	16.4	-7	2	-47	-2.9	7.7
2.43535	11.4	16.4	-7	2	-47	-2.9	7.8
2.4354	11.3	16.4	-7.1	2	-47.1	-3	7.1
2.43545	11.3	16.4	-7.1	2	-47.1	-3	7.3
2.4355	11.2	16.4	-7.2	2	-47.2	-3.1	6.5
2.43555	11.2	16.4	-7.2	2	-47.2	-3.1	6.4
2.4356	11.2	16.4	-7.2	2	-47.2	-3.1	6.1
2.43565	11.2	16.4	-7.2	2	-47.2	-3.1	6
2.4357	11.2	16.4	-7.2	2	-47.2	-3.1	6.5
2.43575	11.3	16.4	-7.1	2	-47.1	-3	7.1
2.4358	11.4	16.4	-7	2	-47	-2.9	7.4
2.43585	11.5	16.4	-6.9	2	-46.9	-2.8	7.2
2.4359	11.5	16.4	-6.9	2	-46.9	-2.8	7.1
2.43595	11.5	16.4	-6.9	2	-46.9	-2.8	6.2
2.436	11.5	16.4	-6.9	2	-46.9	-2.8	6.4
2.43605	11.4	16.4	-7	2	-47	-2.9	7.3
2.4361	11.5	16.4	-6.9	2	-46.9	-2.8	7.9
2.43615	11.5	16.4	-6.9	2	-46.9	-2.8	7

11Mbps CHANNEL 6 Processing Gain							
$G_p = (S/N)_o + M_j + L_{sys}$							
Freq.	G_p	$(S/N)_o$	$M_j = J/S$	L_{sys}	Jammer	LVL	FER
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	
2.4362	11.5	16.4	-6.9	2	-46.9	-2.8	7.1
2.43625	11.5	16.4	-6.9	2	-46.9	-2.8	7.5
2.4363	11.5	16.4	-6.9	2	-46.9	-2.8	8
2.43635	11.4	16.4	-7	2	-47	-2.9	7.2
2.4364	11.4	16.4	-7	2	-47	-2.9	6.7
2.43645	11.4	16.4	-7	2	-47	-2.9	6.3
2.4365	11.4	16.4	-7	2	-47	-2.9	6.5
2.43655	11.4	16.4	-7	2	-47	-2.9	6.9
2.4366	11.4	16.4	-7	2	-47	-2.9	6.7
2.43665	11.5	16.4	-6.9	2	-46.9	-2.8	7.7
2.4367	11.5	16.4	-6.9	2	-46.9	-2.8	6.3
2.43675	11.4	16.4	-7	2	-47	-2.9	6.7
2.4368	11.3	16.4	-7.1	2	-47.1	-3	7.7
2.43685	11.1	16.4	-7.3	2	-47.3	-3.2	6.4
2.4369	11	16.4	-7.4	2	-47.4	-3.3	6.6
2.43695	10.9	16.4	-7.5	2	-47.5	-3.4	6.5
2.437	10.9	16.4	-7.5	2	-47.5	-3.4	5.6
2.43705	11	16.4	-7.4	2	-47.4	-3.3	8
2.4371	11.1	16.4	-7.3	2	-47.3	-3.2	7.2
2.43715	11.2	16.4	-7.2	2	-47.2	-3.1	5.5
2.4372	11.3	16.4	-7.1	2	-47.1	-3	5.3
2.43725	11.5	16.4	-6.9	2	-46.9	-2.8	6.6
2.4373	11.6	16.4	-6.8	2	-46.8	-2.7	6.3
2.43735	11.6	16.4	-6.8	2	-46.8	-2.7	6.1
2.4374	11.5	16.4	-6.9	2	-46.9	-2.8	5.8
2.43745	11.4	16.4	-7	2	-47	-2.9	5.6
2.4375	11.4	16.4	-7	2	-47	-2.9	6.3
2.43755	11.5	16.4	-6.9	2	-46.9	-2.8	7.8
2.4376	11.5	16.4	-6.9	2	-46.9	-2.8	7.1
2.43765	11.5	16.4	-6.9	2	-46.9	-2.8	5.6
2.4377	11.5	16.4	-6.9	2	-46.9	-2.8	6
2.43775	11.5	16.4	-6.9	2	-46.9	-2.8	7.9
2.4378	11.6	16.4	-6.8	2	-46.8	-2.7	6.4
2.43785	11.7	16.4	-6.7	2	-46.7	-2.6	7.2

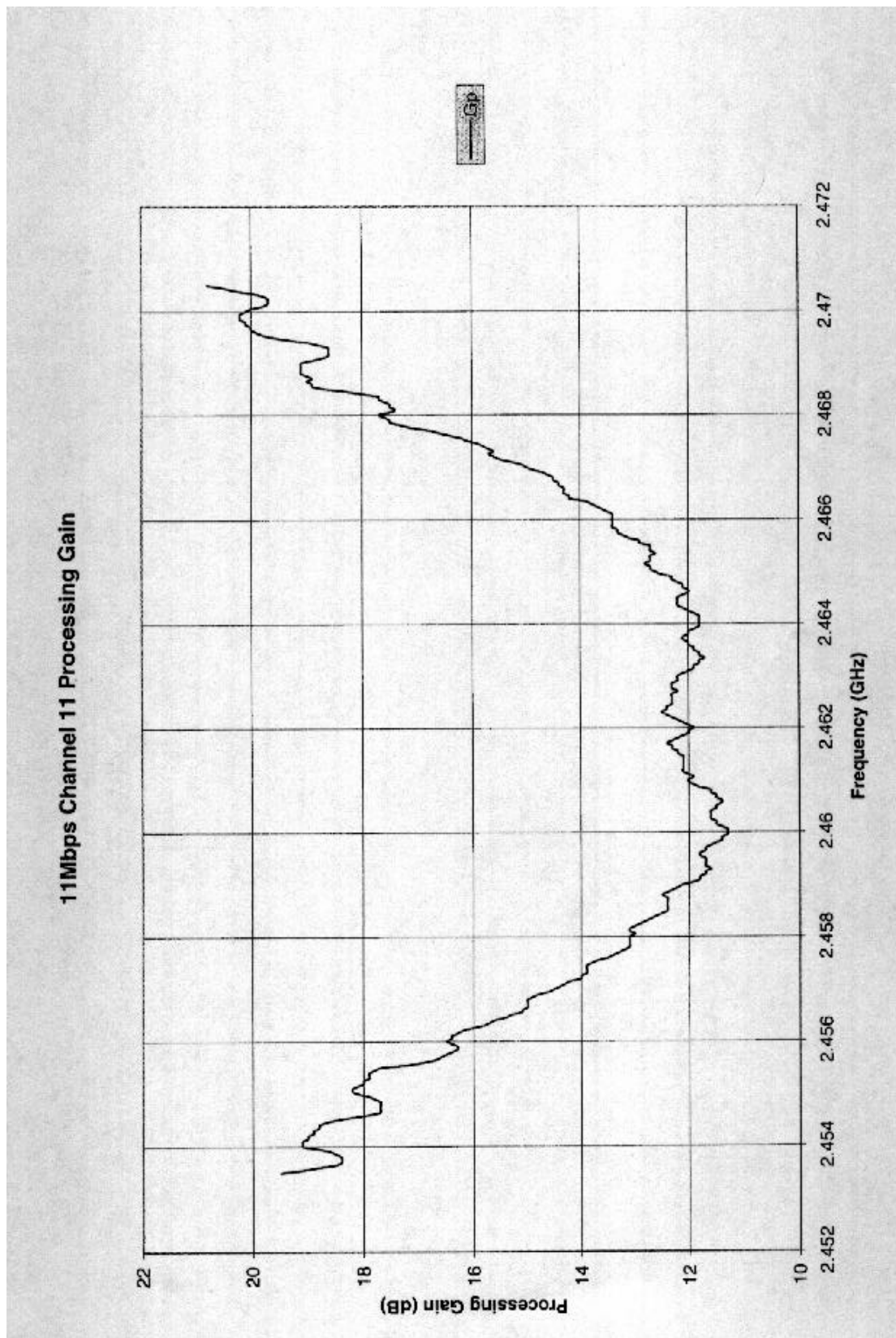
11Mbps CHANNEL 6 Processing Gain							
$G_p = (S/N)_o + M_j + L_{sys}$							
Freq.	G_p	$(S/N)_o$	$M_j = J/S$	L_{sys}	Jammer	LVL	FER
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	
2.4379	11.8	16.4	-6.6	2	-46.6	-2.5	6.6
2.43795	11.7	16.4	-6.7	2	-46.7	-2.6	7.4
2.438	11.7	16.4	-6.7	2	-46.7	-2.6	7.9
2.43805	11.6	16.4	-6.8	2	-46.8	-2.7	6.2
2.4381	11.6	16.4	-6.8	2	-46.8	-2.7	7.6
2.43815	11.5	16.4	-6.9	2	-46.9	-2.8	6.4
2.4382	11.5	16.4	-6.9	2	-46.9	-2.8	7.5
2.43825	11.4	16.4	-7	2	-47	-2.9	6.6
2.4383	11.4	16.4	-7	2	-47	-2.9	7.7
2.43835	11.3	16.4	-7.1	2	-47.1	-3	6.8
2.4384	11.3	16.4	-7.1	2	-47.1	-3	7.2
2.43845	11.3	16.4	-7.1	2	-47.1	-3	6.7
2.4385	11.3	16.4	-7.1	2	-47.1	-3	6.3
2.43855	11.4	16.4	-7	2	-47	-2.9	7.8
2.4386	11.4	16.4	-7	2	-47	-2.9	6.2
2.43865	11.4	16.4	-7	2	-47	-2.9	6.8
2.4387	11.4	16.4	-7	2	-47	-2.9	6.5
2.43875	11.4	16.4	-7	2	-47	-2.9	6.9
2.4388	11.3	16.4	-7.1	2	-47.1	-3	6.7
2.43885	11.3	16.4	-7.1	2	-47.1	-3	8
2.4389	11.2	16.4	-7.2	2	-47.2	-3.1	7.7
2.4895	11.1	16.4	-7.3	2	-47.3	-3.2	7.1
2.439	11.1	16.4	-7.3	2	-47.3	-3.2	7.8
2.43905	11	16.4	-7.4	2	-47.4	-3.3	6.5
2.4391	11	16.4	-7.4	2	-47.4	-3.3	7.8
2.43915	11	16.4	-7.4	2	-47.4	-3.3	7.8
2.4392	11	16.4	-7.4	2	-47.4	-3.3	6.7
2.43925	11.1	16.4	-7.3	2	-47.3	-3.2	6.8
2.4393	11.2	16.4	-7.2	2	-47.2	-3.1	7.4
2.43935	11.2	16.4	-7.2	2	-47.2	-3.1	6.5
2.4394	11.4	16.4	-7	2	-47	-2.9	6.5
2.43945	11.4	16.4	-7	2	-47	-2.9	6.5
2.4395	11.2	16.4	-7.2	2	-47.2	-3.1	6.5
Processing Gain : 11.4 dB							



11Mbps CHANNEL 11 Processing Gain							
$G_p = (S/N)_o + M_j + L_{sys}$							
Freq.	G_p	$(S/N)_o$	$M_j = J/S$	L_{sys}	Jammer	LVL	FER
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	
2.4595	11.7	16.4	-6.7	2	-46.7	-4.9	5.8
2.45955	11.8	16.4	-6.6	2	-46.6	-4.8	7.1
5.4596	11.8	16.4	-6.6	2	-46.6	-4.8	6.5
2.45965	11.7	16.4	-6.7	2	-46.7	-4.9	5.9
2.4597	11.7	16.4	-6.7	2	-46.7	-4.9	7.6
2.45975	11.6	16.4	-6.8	2	-46.8	-5	8
2.4598	11.5	16.4	-6.9	2	-46.9	-5.1	7.1
2.45985	11.4	16.4	-7	2	-47	-5.2	7.5
2.4599	11.4	16.4	-7	2	-47	-5.2	8
2.45995	11.3	16.4	-7.1	2	-47.1	-5.3	7
2.46	11.3	16.4	-7.1	2	-47.1	-5.3	6.6
2.46005	11.3	16.4	-7.1	2	-47.1	-5.3	6.6
2.4601	11.4	16.4	-7	2	-47	-5.2	7.1
2.46015	11.5	16.4	-6.9	2	-46.9	-5.1	7.1
2.4602	11.5	16.4	-6.9	2	-46.9	-5.1	6
2.46025	11.6	16.4	-6.8	2	-46.8	-5	6.4
2.4603	11.6	16.4	-6.8	2	-46.8	-5	6
2.46035	11.6	16.4	-6.8	2	-46.8	-5	6.8
2.4604	11.6	16.4	-6.8	2	-46.8	-5	7.2
2.46045	11.5	16.4	-6.9	2	-46.9	-5.1	6.6
2.4605	11.5	16.4	-6.9	2	-46.9	-5.1	7.2
2.46055	11.4	16.4	-7	2	-47	-5.2	6.6
2.4606	11.4	16.4	-7	2	-47	-5.2	7.1
2.46065	11.5	16.4	-6.9	2	-46.9	-5.1	8
2.4607	11.5	16.4	-6.9	2	-46.9	-5.1	6.7
2.46075	11.6	16.4	-6.8	2	-46.8	-5	7.8
2.4608	11.6	16.4	-6.8	2	-46.8	-5	6
2.46085	11.8	16.4	-6.6	2	-46.6	-4.8	7.7
2.4609	11.9	16.4	-6.5	2	-46.5	-4.7	7.6
2.46095	12	16.4	-6.4	2	-46.4	-4.6	7.9
2.461	12	16.4	-6.4	2	-46.4	-4.6	7.8
2.46105	11.9	16.4	-6.5	2	-46.5	-4.7	8
2.4611	12	16.4	-6.4	2	-46.4	-4.6	7.7
2.46115	12.1	16.4	-6.3	2	-46.3	-4.5	7.4

11Mbps CHANNEL 11 Processing Gain							
$G_p = (S/N)_o + M_j + L_{sys}$							
Freq.	G_p	$(S/N)_o$	$M_j = J/S$	L_{sys}	Jammer	LVL	FER
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	
2.4612	12.1	16.4	-6.3	2	-46.3	-4.5	6.8
2.46125	12.1	16.4	-6.3	2	-46.3	-4.5	6.5
2.4613	12.1	16.4	-6.3	2	-46.3	-4.5	7
2.46135	12.1	16.4	-6.3	2	-46.3	-4.5	6.5
2.4614	12.1	16.4	-6.3	2	-46.3	-4.5	6.5
2.46145	12.1	16.4	-6.3	2	-46.3	-4.5	6
2.4615	12.2	16.4	-6.2	2	-46.2	-4.4	7.8
2.46155	12.2	16.4	-6.2	2	-46.2	-4.4	6.8
2.4616	12.3	16.4	-6.1	2	-46.1	-4.3	6.8
2.46165	12.3	16.4	-6.1	2	-46.1	-4.3	5.4
2.4617	12.4	16.4	-6	2	-46	-4.2	7.1
2.46175	12.3	16.4	-6.1	2	-46.1	-4.3	5.8
2.4618	12.2	16.4	-6.2	2	-46.2	-4.4	6.5
2.46185	12.1	16.4	-6.3	2	-46.3	-4.5	7
2.4619	12	16.4	-6.4	2	-46.4	-4.6	6.2
2.46195	12	16.4	-6.4	2	-46.4	-4.6	7
2.462	11.9	16.4	-6.5	2	-46.5	-4.7	6.2
2.46205	12	16.4	-6.4	2	-46.4	-4.6	7
2.4621	12.1	16.4	-6.3	2	-46.3	-4.5	7
2.46215	12.2	16.4	-6.2	2	-46.2	-4.4	6.6
2.4622	12.3	16.4	-6.1	2	-46.1	-4.3	5.8
2.46225	12.4	16.4	-6	2	-46	-4.2	5.2
2.4623	12.5	16.4	-5.9	2	-45.9	-4.1	7.3
2.46235	12.4	16.4	-6	2	-46	-4.2	5.5
2.4624	12.4	16.4	-6	2	-46	-4.2	7.3
2.46245	12.3	16.4	-6.1	2	-46.1	-4.3	6.2
2.4625	12.3	16.4	-6.1	2	-46.1	-4.3	6.4
2.46255	12.3	16.4	-6.1	2	-46.1	-4.3	6.5
2.4626	12.3	16.4	-6.1	2	-46.1	-4.3	7.2
2.46265	12.3	16.4	-6.1	2	-46.1	-4.3	7.8
2.4627	12.2	16.4	-6.2	2	-46.2	-4.4	6.3
2.46275	12.3	16.4	-6.1	2	-46.1	-4.3	7.1
2.4628	12.3	16.4	-6.1	2	-46.1	-4.3	7.9
2.46285	12.3	16.4	-6.1	2	-46.1	-4.3	7.5

11Mbps CHANNEL 11 Processing Gain							
$G_p = (S/N)_o + M_j + L_{sys}$							
Freq.	Gp	(S/N) _o	M _j = J/S	L _{sys}	Jammer	LVL	FER
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	
2.4629	12.2	16.4	-6.2	2	-46.2	-4.4	6.6
2.46295	12.2	16.4	-6.2	2	-46.2	-4.4	6.7
2.463	12.2	16.4	-6.2	2	-46.2	-4.4	7.8
2.46305	12.1	16.4	-6.3	2	-46.3	-4.5	7.2
2.4631	12	16.4	-6.4	2	-46.4	-4.6	6.5
2.46315	11.9	16.4	-6.5	2	-46.5	-4.7	5.6
2.4632	11.9	16.4	-6.5	2	-46.5	-4.7	7.5
2.46325	11.8	16.4	-6.6	2	-46.6	-4.8	6.3
2.4633	11.8	16.4	-6.6	2	-46.6	-4.8	6.8
2.46335	11.7	16.4	-6.7	2	-46.7	-4.9	5.9
2.4634	11.8	16.4	-6.6	2	-46.6	-4.8	7
2.46345	11.8	16.4	-6.6	2	-46.6	-4.8	7.5
2.4635	11.9	16.4	-6.5	2	-46.5	-4.7	8.2
2.46355	11.9	16.4	-6.5	2	-46.5	-4.7	7.2
2.4636	12	16.4	-6.4	2	-46.4	-4.6	7.4
2.46365	12	16.4	-6.4	2	-46.4	-4.6	6.8
2.4637	12.1	16.4	-6.3	2	-46.3	-4.5	7.9
2.46375	12.1	16.4	-6.3	2	-46.3	-4.5	8
2.4638	12	16.4	-6.4	2	-46.4	-4.6	6.8
2.46385	12	16.4	-6.4	2	-46.4	-4.6	7.6
2.4639	11.9	16.4	-6.5	2	-46.5	-4.7	7
2.46395	11.8	16.4	-6.6	2	-46.6	-4.8	6.9
2.464	11.8	16.4	-6.6	2	-46.6	-4.8	7.5
2.46405	11.8	16.4	-6.6	2	-46.6	-4.8	7.8
2.4641	11.8	16.4	-6.6	2	-46.6	-4.8	7.6
2.46415	11.8	16.4	-6.6	2	-46.6	-4.8	6.6
2.4642	11.9	16.4	-6.5	2	-46.5	-4.7	7.2
2.46425	12	16.4	-6.4	2	-46.4	-4.6	7.4
2.4643	12.1	16.4	-6.3	2	-46.3	-4.5	7.2
2.46435	12.2	16.4	-6.2	2	-46.2	-4.4	7.4
4.4644	12.2	16.4	-6.2	2	-46.2	-4.4	6.8
2.46445	12.2	16.4	-6.2	2	-46.2	-4.4	6.2
2.4645	12.2	16.4	-6.2	2	-46.2	-4.4	7.9
Processing Gain : 12 dB							



2Mbps CHANNEL 6 Processing Gain							
$G_p = (S/N)_o + M_j + L_{sys}$							
Freq.	G_p	$(S/N)_o$	$M_j = J/S$	L_{sys}	Jammer	LVL	FER
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	
2.4345	12.1	13.3	-3.2	2	-43.2	0.5	6.6
2.43455	12.7	13.3	-2.6	2	-42.6	1.1	5.7
2.4346	12.9	13.3	-2.4	2	-42.4	1.3	7.9
2.43465	13	13.3	-2.3	2	-42.3	1.4	6.5
2.4347	13	13.3	-2.3	2	-42.3	1.4	6.1
2.43475	12.9	13.3	-2.4	2	-42.4	1.3	5.1
2.4348	13.1	13.3	-2.2	2	-42.2	1.5	7.6
2.43485	12.4	13.3	-2.9	2	-42.9	0.8	7.1
2.4349	12.1	13.3	-3.2	2	-43.2	0.5	6.8
2.43495	12.6	13.3	-2.7	2	-42.7	1	6.5
2.435	12.6	13.3	-2.7	2	-42.7	1	5
2.43505	12.5	13.3	-2.8	2	-42.8	0.9	6.3
2.4351	12.4	13.3	-2.9	2	-42.9	0.8	5.9
2.43515	12.4	13.3	-2.9	2	-42.9	0.8	7.8
2.4352	12.2	13.3	-3.1	2	-43.1	0.6	7.7
2.43525	12.2	13.3	-3.1	2	-43.7	0.6	5.7
2.4353	12.3	13.3	-3	2	-43	0.7	7.3
2.43535	11.9	13.3	-3.4	2	-43.4	0.3	6.4
2.4354	11.5	13.3	-3.8	2	-43.8	-0.1	6
2.43545	12.1	13.3	-3.2	2	-43.2	0.5	6.4
2.4355	11.5	13.3	-3.8	2	-43.8	-0.1	7.8
2.43555	12.4	13.3	-2.9	2	-42.9	0.8	5.5
2.4356	12.7	13.3	-2.6	2	-42.6	1.1	7.4
2.43565	12.9	13.3	-2.4	2	-42.4	1.3	8.1
2.4357	12.8	13.3	-2.5	2	-42.5	1.2	5.6
5.43575	12.8	13.3	-2.5	2	-42.5	1.2	7.6
2.4358	12.9	13.3	-2.4	2	-42.4	1.3	6.3
2.43585	12.1	13.3	-3.2	2	-43.2	0.5	7.3
2.4359	11.7	13.3	-3.6	2	-43.6	0.1	6.1
2.43595	12.4	13.3	-2.9	2	-42.9	0.8	5.5
2.436	12.5	13.3	-2.8	2	-42.8	0.9	5.9
2.43605	12.5	13.3	-2.8	2	-42.8	0.9	6.2
2.4361	12.4	13.3	-2.9	2	-42.9	0.8	6.4
2.43615	12.4	13.3	-2.9	2	-42.9	0.8	6.3

2Mbps CHANNEL 6 Processing Gain							
$G_p = (S/N)_o + M_j + L_{sys}$							
Freq.	G_p	$(S/N)_o$	$M_j = J/S$	L_{sys}	Jammer	LVL	FER
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	
2.4362	12.1	13.3	-3.2	2	-43.2	0.5	6.2
2.43625	12.1	13.3	-3.2	2	-43.2	0.5	6.5
2.4363	12.1	13.3	-3.2	2	-43.2	0.5	6.3
2.43635	11.5	13.3	-3.8	2	-43.8	-0.1	7.2
2.4364	11.1	13.3	-4.2	2	-44.2	-0.5	6.7
2.43645	11.7	13.3	-3.6	2	-43.6	0.1	6.4
2.4365	11.2	13.3	-4.1	2	-44.1	-0.4	7.2
2.43655	12.6	13.3	-2.7	2	-42.7	1	7.2
2.4366	13.1	13.3	-2.2	2	-42.2	1.5	7
2.43665	13.7	13.3	-1.6	2	-41.6	2.1	6.6
2.4367	14.1	13.3	-1.2	2	-41.2	2.5	7
2.43675	15.1	13.3	-0.2	2	-40.2	3.5	7.3
2.4368	15.7	13.3	0.4	2	-39.6	4.1	5.9
2.43685	16.2	13.3	0.9	2	-39.1	4.6	7.4
2.4369	16.1	13.3	0.8	2	-39.2	4.5	5.9
2.43695	16.3	13.3	1	2	-39	4.7	5.8
2.437	16.6	13.3	1.3	2	-38.7	5	6.9
2.43705	16.3	13.3	1	2	-39	4.7	6.6
2.4371	16.3	13.3	1	2	-39	4.7	7.3
2.43715	16	13.3	0.7	2	-39.3	4.4	7.7
2.4372	15.5	13.3	0.2	2	-39.8	3.9	7.7
2.43725	14.8	13.3	-0.5	2	-40.5	3.2	7
2.4373	14	13.3	-1.3	2	-41.3	2.4	6.1
2.43735	13.5	13.3	-1.8	2	-41.8	1.9	7.9
2.4374	12.7	13.3	-2.6	2	-42.6	1.1	6.9
2.43745	12.6	13.3	-2.7	2	-42.7	1	6.7
2.4375	11.6	13.3	-3.7	2	-43.7	0	7.1
2.43755	12.1	13.3	-3.2	2	-43.2	0.5	5.6
2.4376	12.1	13.3	-3.2	2	-43.2	0.5	6.5
2.43765	12.1	13.3	-3.2	2	-43.2	0.5	5.3
2.4377	12	13.3	-3.3	2	-43.3	0.4	6.9
2.43775	11.7	13.3	-3.6	2	-43.6	0.1	7.1
2.4378	12	13.3	-3.3	2	-43.3	0.4	6.8
2.43785	11.1	13.3	-4.2	2	-44.2	-0.5	7.1

2Mbps CHANNEL 6 Processing Gain							
$G_p = (S/N)_o + M_j + L_{sys}$							
Freq.	G_p	$(S/N)_o$	$M_j = J/S$	L_{sys}	Jammer	LVL	FER
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	
2.4379	11.2	13.3	-4.1	2	-44.1	-0.4	8
2.43795	12.1	13.3	-3.2	2	-43.2	0.5	7.5
2.438	12.5	13.3	-2.8	2	-42.8	0.9	7
2.43805	12.7	13.3	-2.6	2	-42.6	1.1	6.3
2.4381	12.8	13.3	-2.5	2	-42.5	1.2	7.9
2.43815	12.9	13.3	-2.4	2	-42.4	1.3	4.9
2.4382	12.9	13.3	-2.4	2	-42.4	1.3	8
2.43825	12.9	13.3	-2.4	2	-42.4	1.3	7.6
2.4383	12.8	13.3	-2.5	2	-42.5	1.2	5.1
2.43835	12.6	13.3	-2.7	2	-42.7	1	7.5
2.4384	12	13.3	-3.3	2	-43.3	0.4	6.8
2.43845	12.4	13.3	-2.9	2	-42.9	0.8	6.3
2.4385	11.7	13.3	-3.6	2	-43.6	0.1	8
2.43855	12.3	13.3	-3	2	-43	0.7	6.8
2.4386	12.3	13.3	-3	2	-43	0.7	7.9
2.43865	12.3	13.3	-3	2	-43	0.7	7.2
2.4387	12.2	13.3	-3.1	2	-43.1	0.6	5.5
2.43875	12	13.3	-3.3	2	-43.3	0.4	6.6
2.4388	12.3	13.3	-3	2	-43	0.7	6.5
2.43885	11.6	13.3	-3.7	2	-43.7	0	6.7
2.4389	11.6	13.3	-3.7	2	-43.7	0	7.3
2.43895	12.4	13.3	-2.9	2	-42.9	0.8	7.5
2.439	12.7	13.3	-2.6	2	-42.6	1.1	8.1
2.43905	12.7	13.3	-2.6	2	-42.6	1.1	6.8
2.4391	12.8	13.3	-2.5	2	-42.5	1.2	7.3
2.43915	12.9	13.3	-2.4	2	-42.4	1.3	6
2.4392	12.8	13.3	-2.5	2	-42.5	1.2	6.2
2.43925	12.9	13.3	-2.4	2	-42.4	1.3	7.5
2.4393	12.8	13.3	-2.5	2	-42.5	1.2	5.2
2.43935	12.6	13.3	-2.7	2	-42.7	1	6
2.4394	12.3	13.3	-3	2	-43	0.7	6.7
2.43945	12.5	13.3	-2.8	2	-42.8	0.9	7
2.4395	12	13.3	-3.3	2	-43.3	0.4	7.7
Processing Gain : 12.5 dB							

