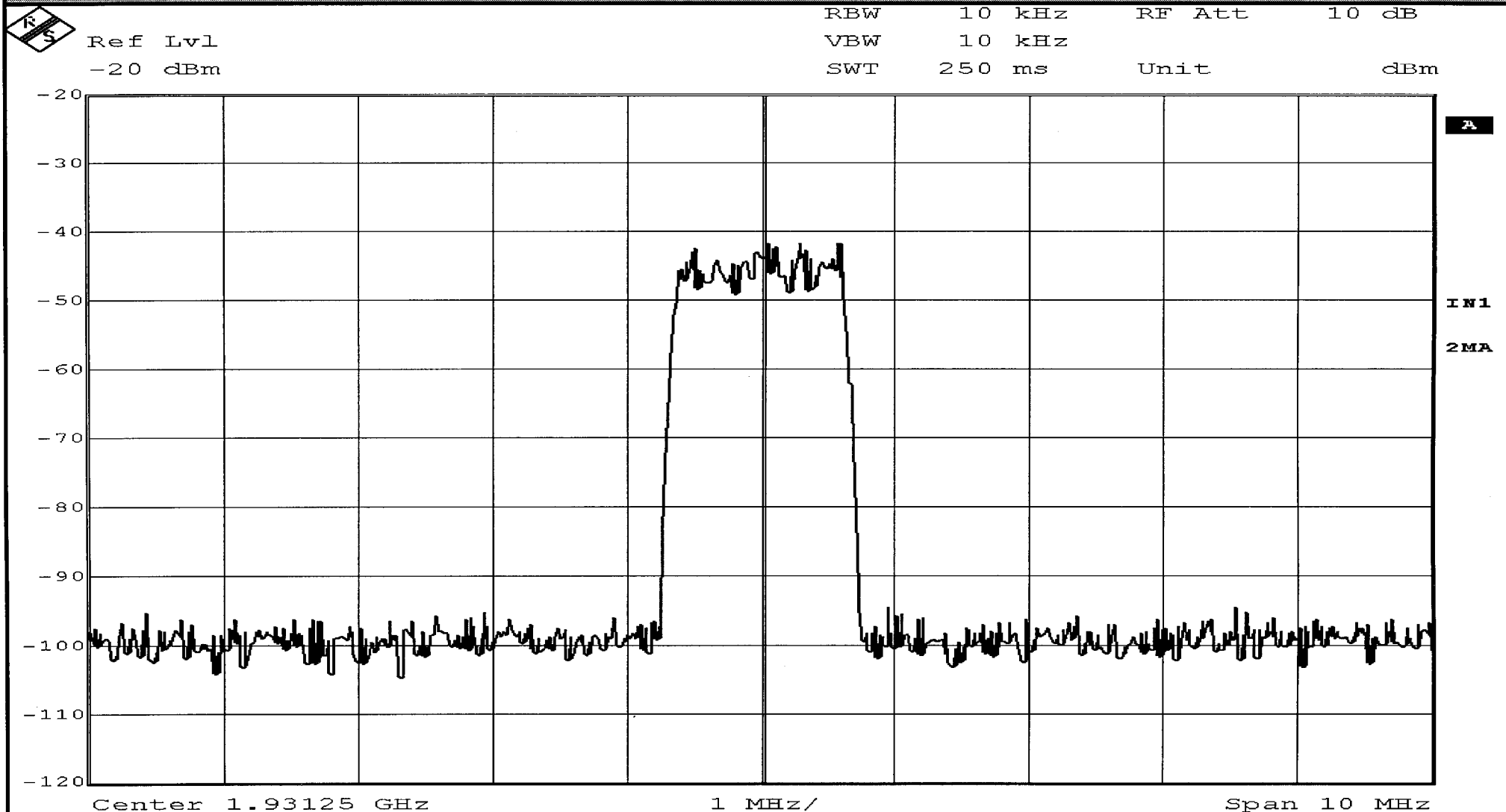


RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block A, 1930-1945 MHz Frequency: 1930.2 MHz Modulation: GSM Input Signal		
		Job No:	R-4132N
		Technician:	T. Firkowski
		Date:	6/24/03

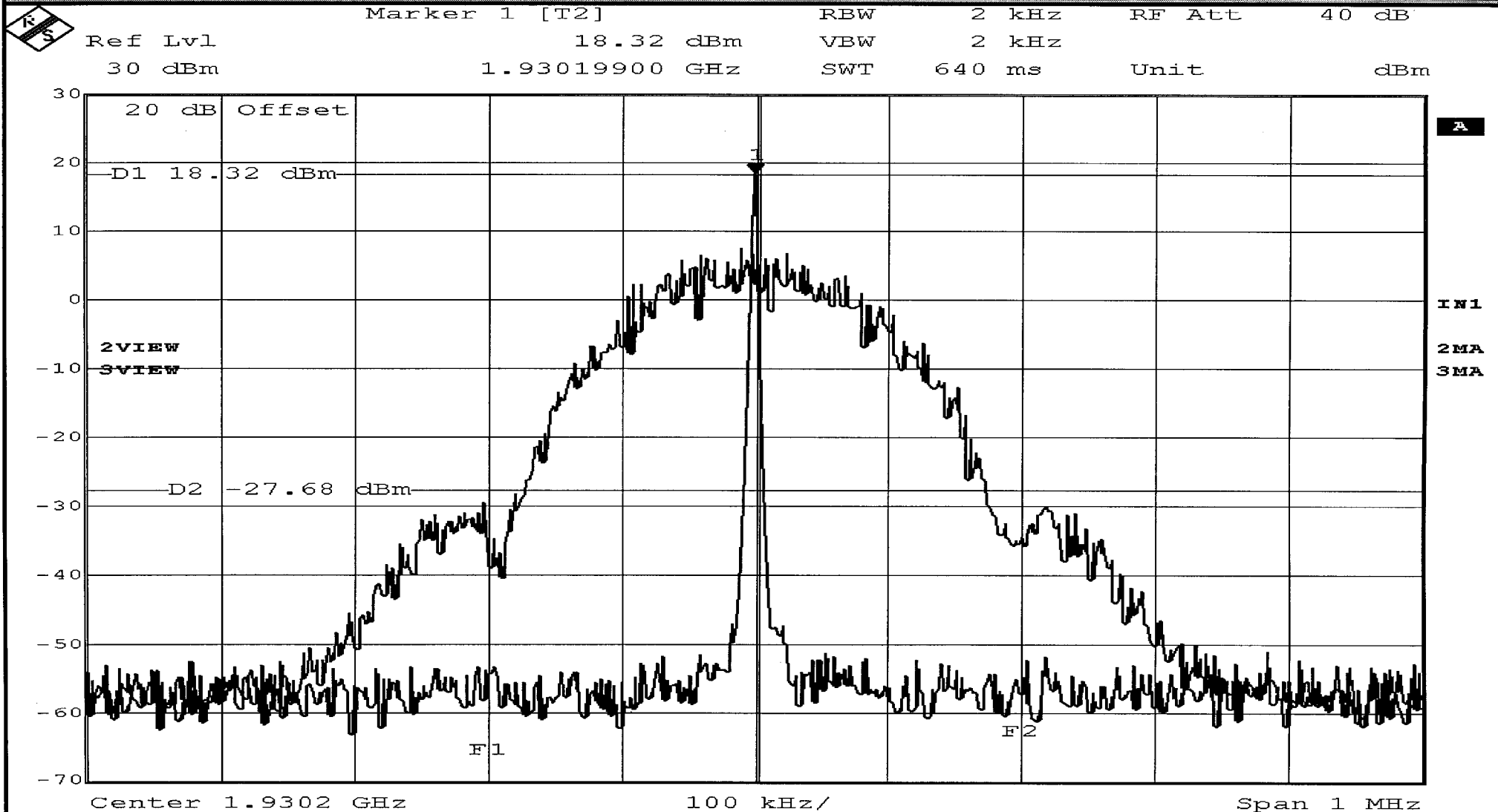


Date: 24.JUN.2003 06:40:09

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block A, 1930-1945 MHz Frequency: 1930.2 MHz Modulation: GSM Output Signal		
Job No:	R-4132N		Technician:
		T. Firkowski	Date:
		6/24/03	



Date: 23.JUN.2003 13:33:15

RETLIF TESTING LABORATORIES

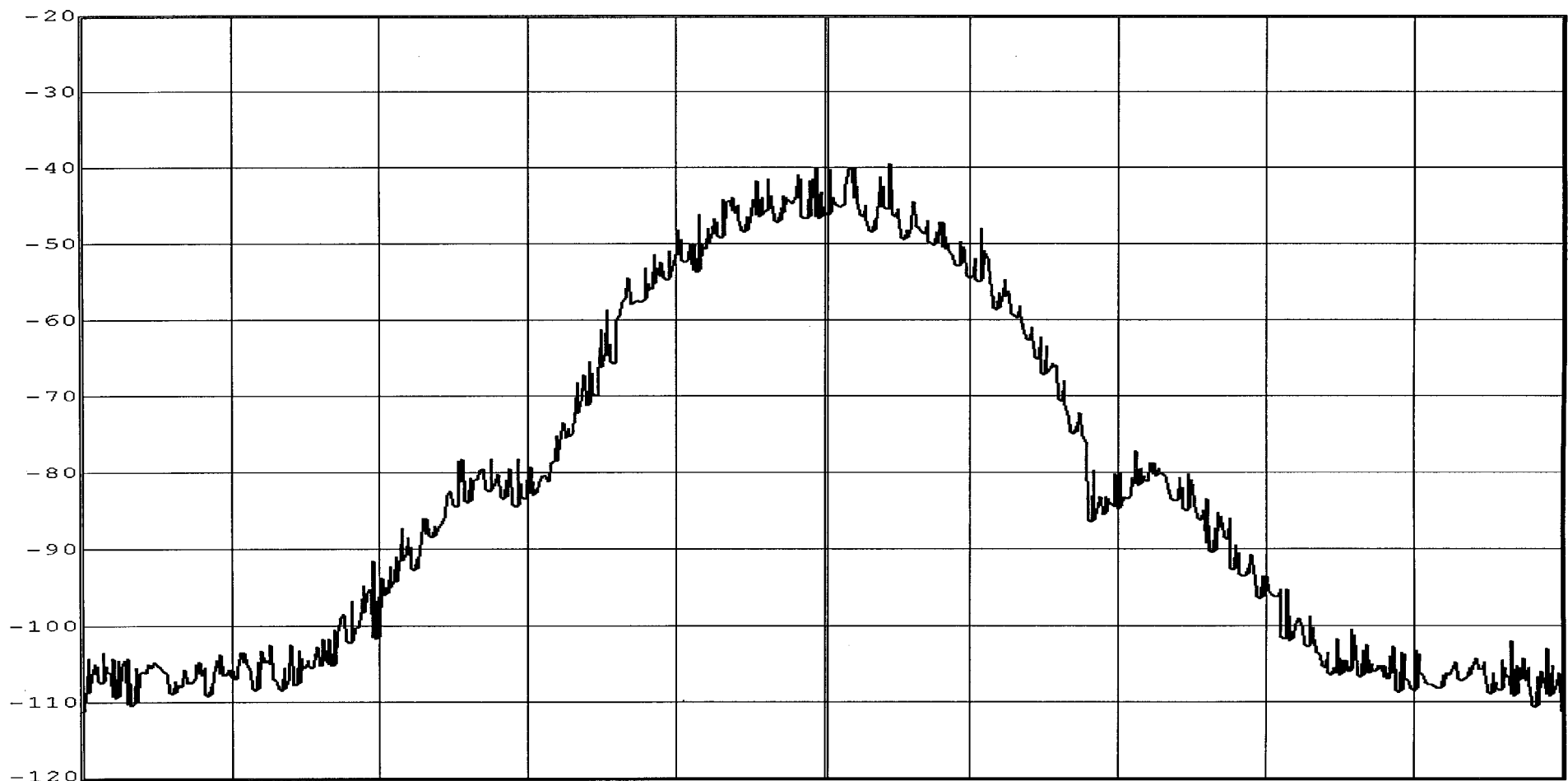
EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth				
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier		Job No:
Model No:	150PCS	Serial No:	n/a		Technician:
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229		Date:
Operating Mode:	Amplifying downlink input signal				
Notes:	PCS Band: Block A, 1930-1945 MHz Frequency: 1944.8 MHz Modulation: GSM Input Signal				



Ref Lvl
-20 dBm

RBW 2 kHz RF Att 10 dB
VBW 2 kHz
SWT 640 ms Unit dBm



A

IN1

2MA

Center 1.9448 GHz

100 kHz/

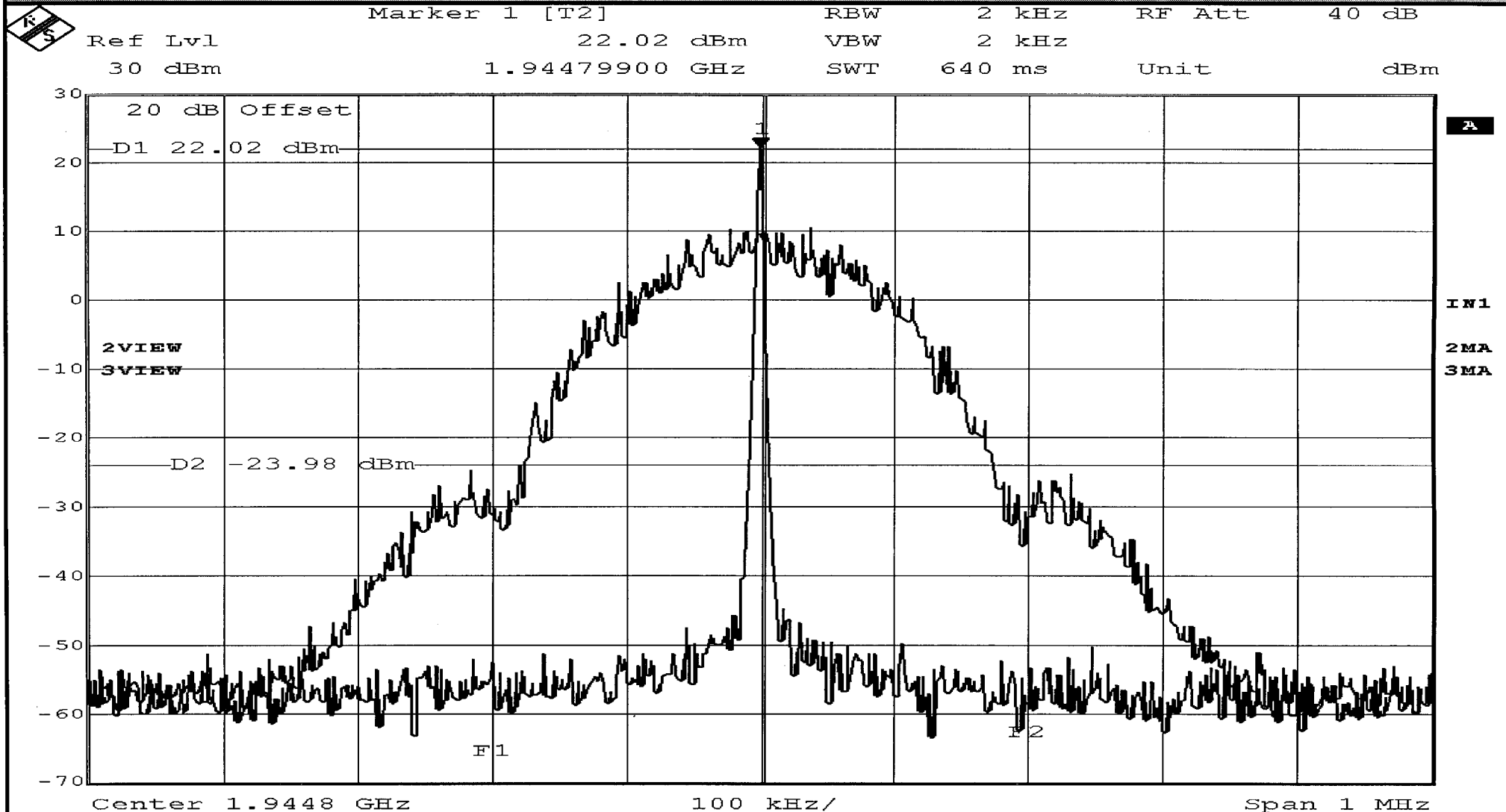
Span 1 MHz

Date: 23.JUN.2003 13:35:29

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block A, 1930-1945 MHz	Frequency: 1944.8 MHz	Modulation: GSM
			Output Signal



Date: 23.JUN.2003 13:37:32

RETLIF TESTING LABORATORIES

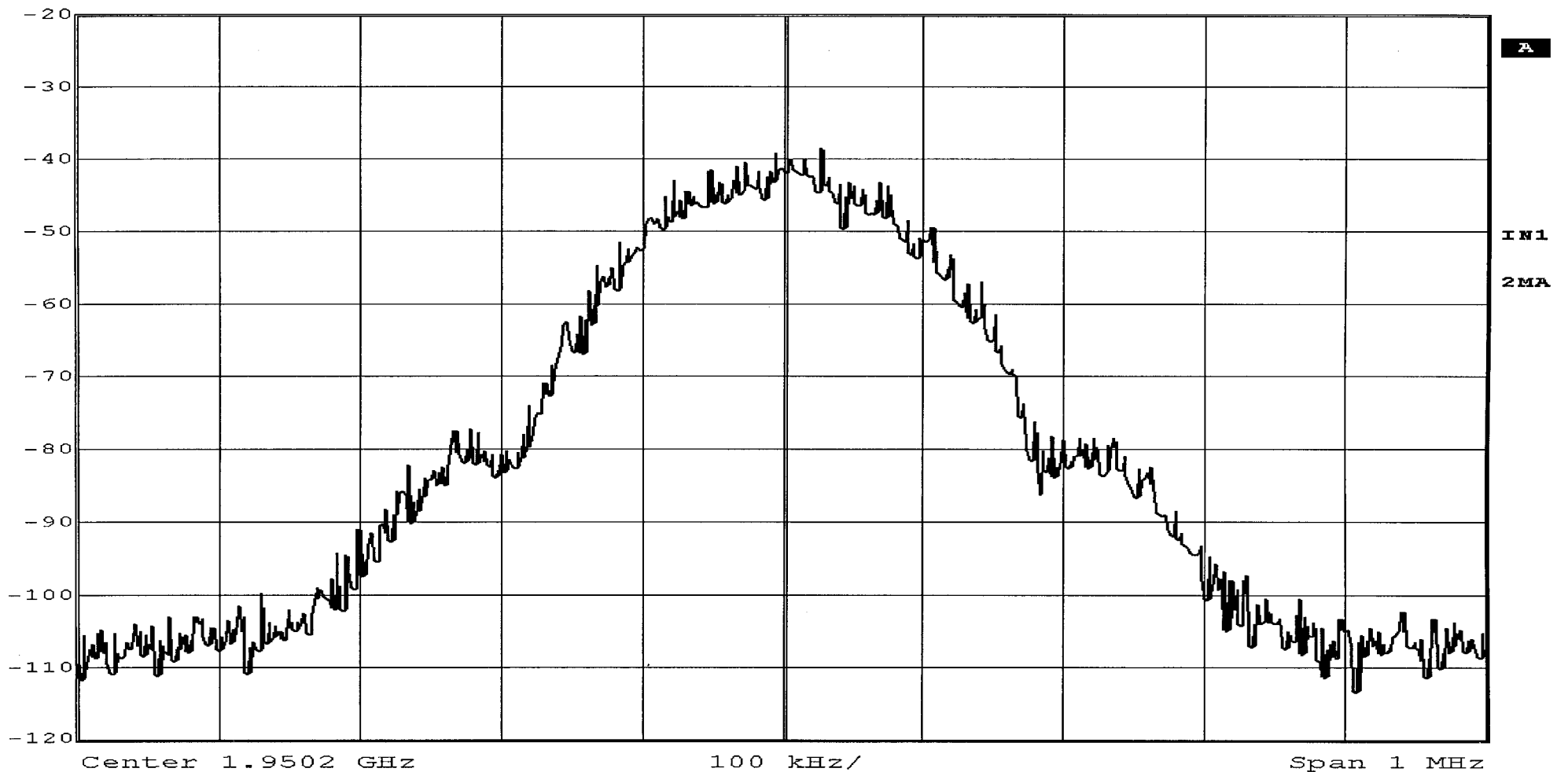
EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block B, 1950-1965 MHz Frequency: 1950.2 MHz Modulation: GSM Input Signal		
		Job No:	R-4132N
		Technician:	T. Firkowski
		Date:	6/24/03



Ref Lvl
-20 dBm

RBW 2 kHz RF Att 10 dB
VBW 2 kHz
SWT 640 ms Unit dBm



Date: 23.JUN.2003 13:48:09

Data Sheet 101 of 144

R-4132N

EMISSIONS DATA SHEET

R-4132N

RETLIF TESTING LABORATORIES

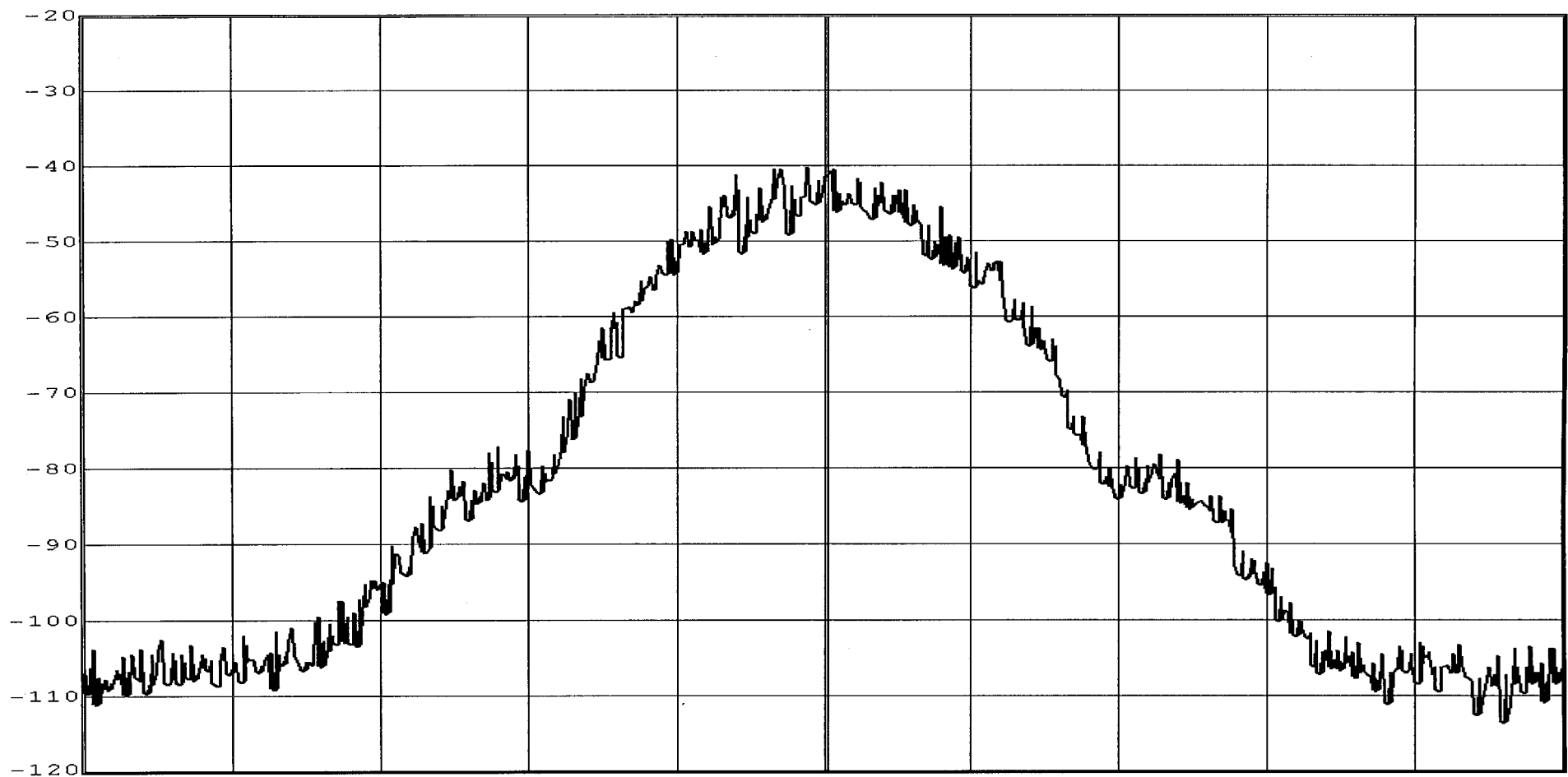
EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block B, 1950-1965 MHz	Frequency: 1964.8 MHz	Modulation: GSM
		Input Signal	



Ref Lvl
-20 dBm

RBW 2 kHz RF Att 10 dB
VBW 2 kHz
SWT 640 ms Unit dBm



Center 1.9648 GHz

100 kHz/

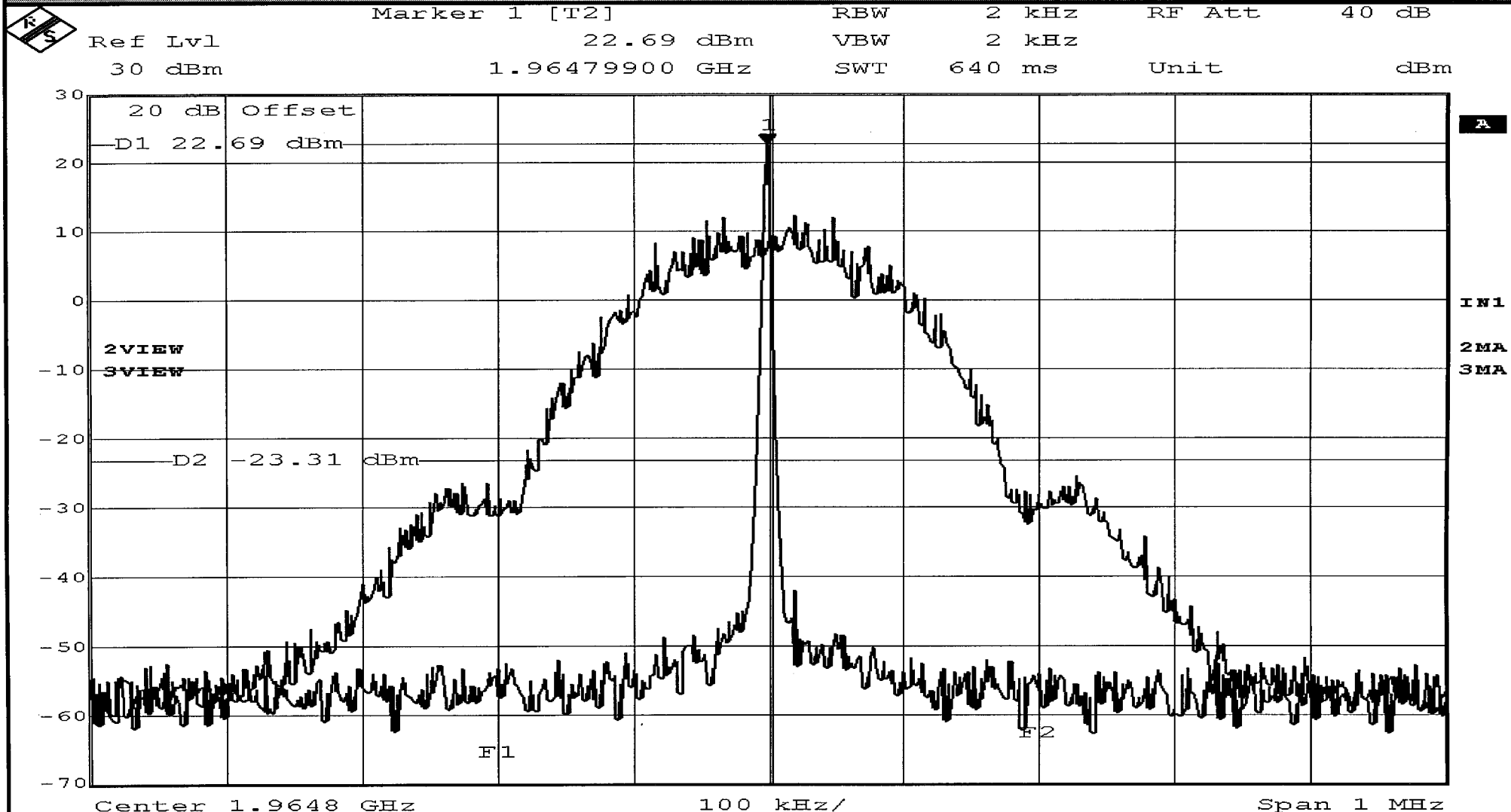
Span 1 MHz

Date: 23.JUN.2003 13:49:03

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block B, 1950-1965 MHz	Frequency: 1964.8 MHz	Modulation: GSM
			Output Signal

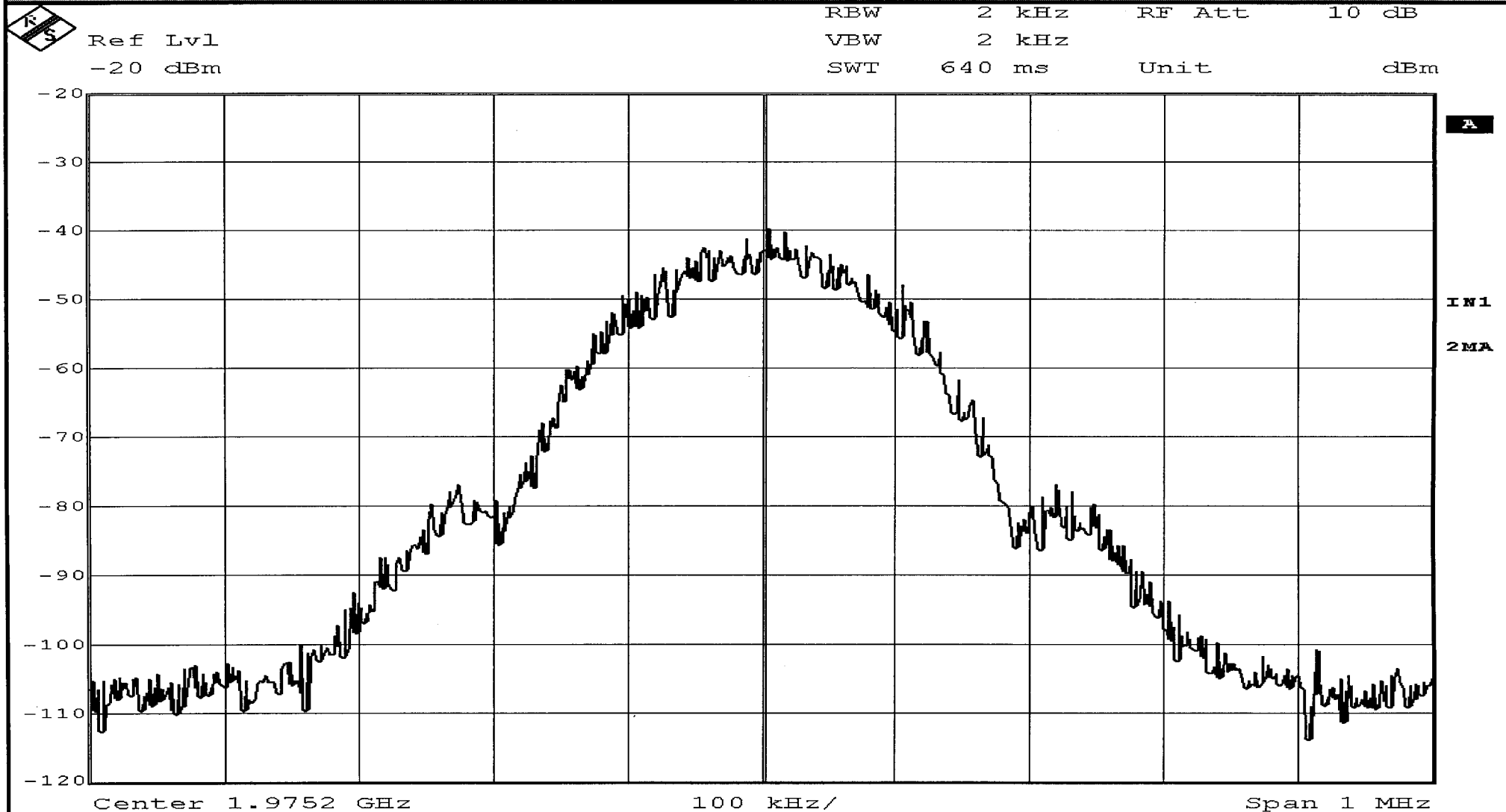


Date: 23.JUN.2003 13:50:52

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block C, 1975-1990 MHz	Frequency: 1975.2 MHz	Modulation: GSM
		Input Signal	



Date: 23.JUN.2003 14:16:33

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block C, 1975-1990 MHz	Frequency: 1975.2 MHz	Modulation: GSM
			Output Signal



Marker 1 [T2]

RBW 2 kHz

RF Att 40 dB

Ref Lvl

21.13 dBm

VBW 2 kHz

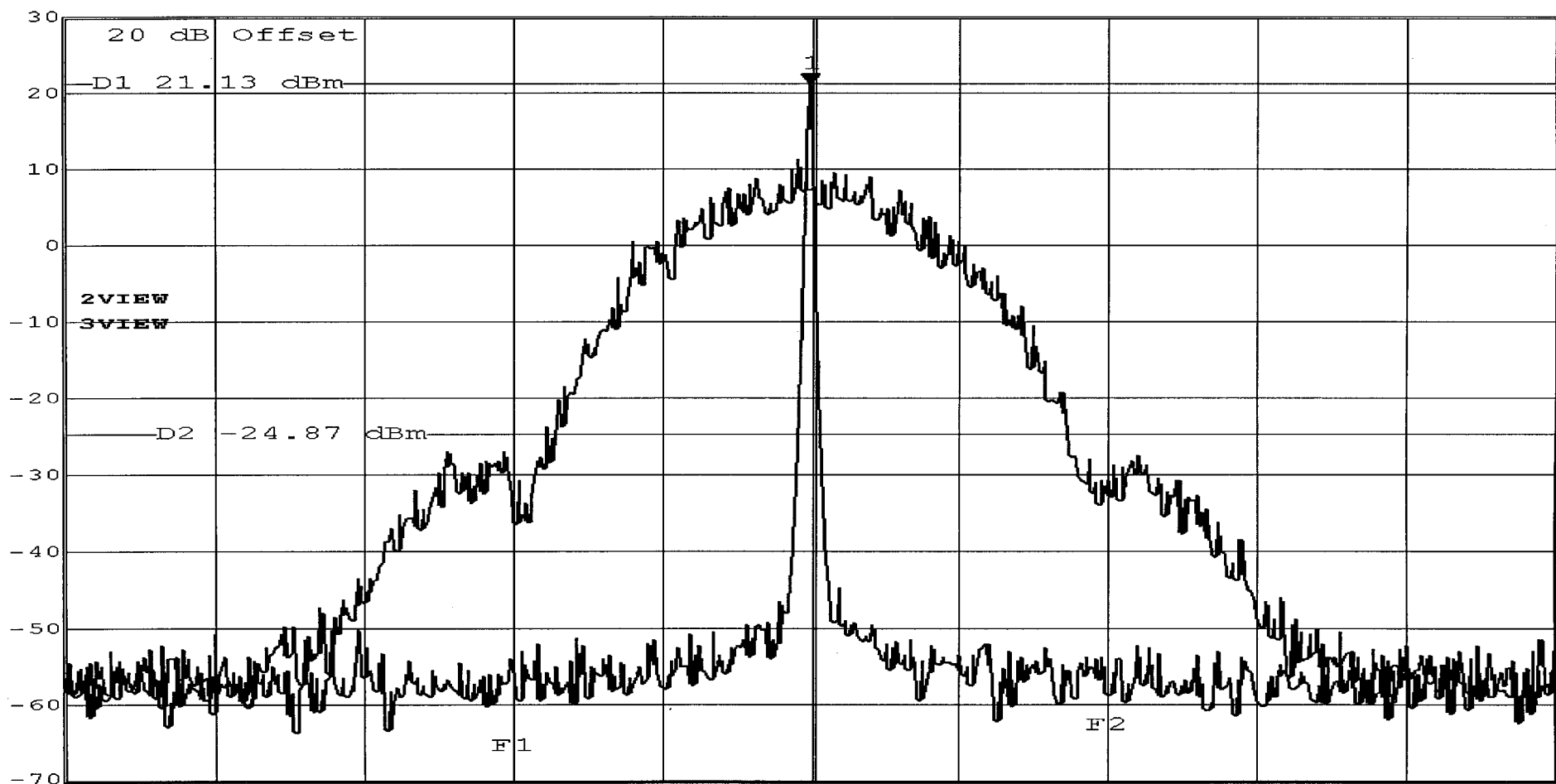
30 dBm

1.97519900 GHz

SWT 640 ms

Unit

dBm



A

IN1

2MA

3MA

Center 1.9752 GHz

100 kHz/

Span 1 MHz

Date: 23.JUN.2003 14:15:28

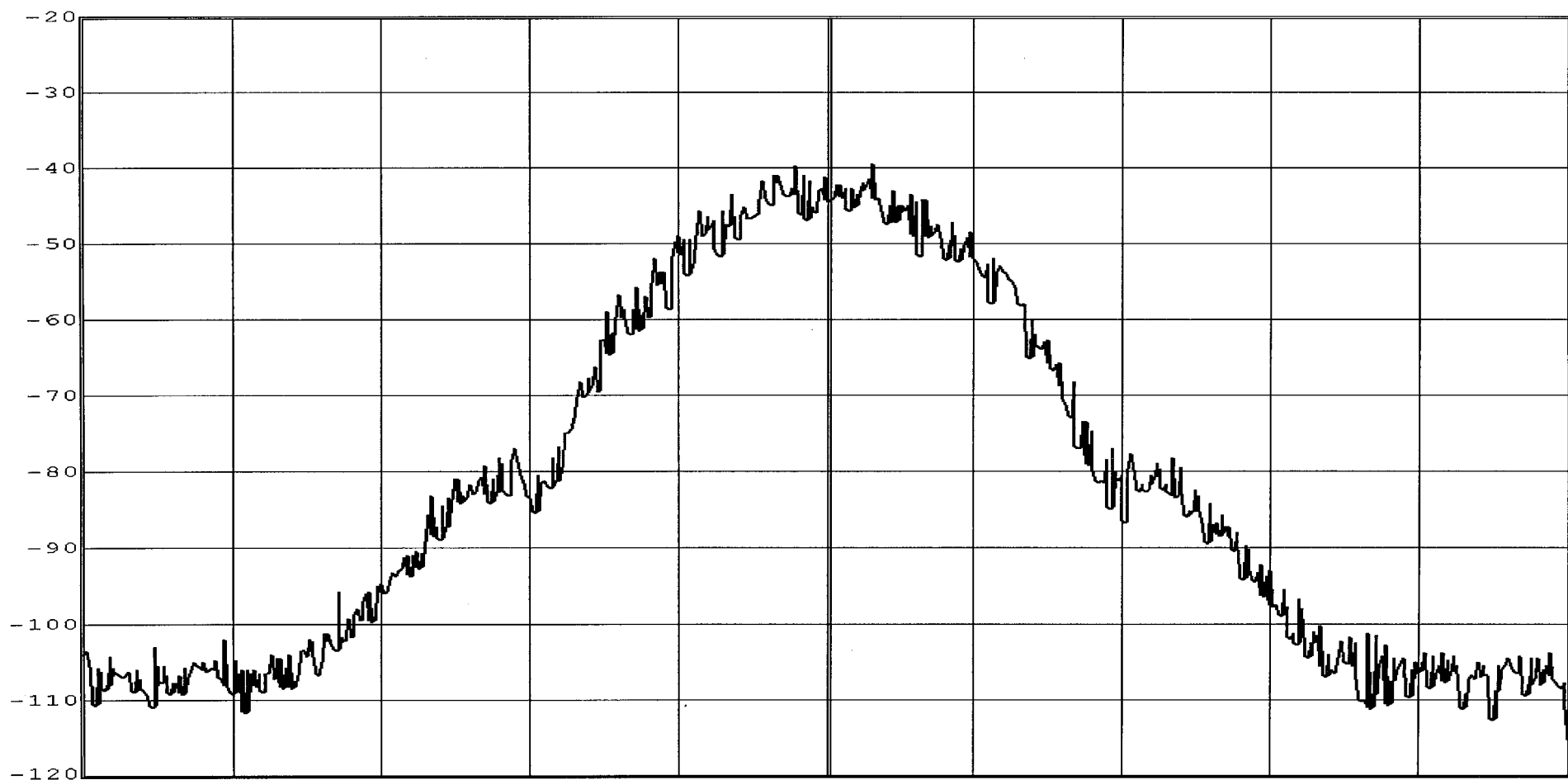
RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block C, 1975-1990 MHz Frequency: 1989.8 MHz Modulation: GSM Input Signal		
		RBW	2 kHz
		VBW	2 kHz
		SWT	640 ms
		RF Att	10 dB
		Unit	dBm



Ref Lvl
-20 dBm



A

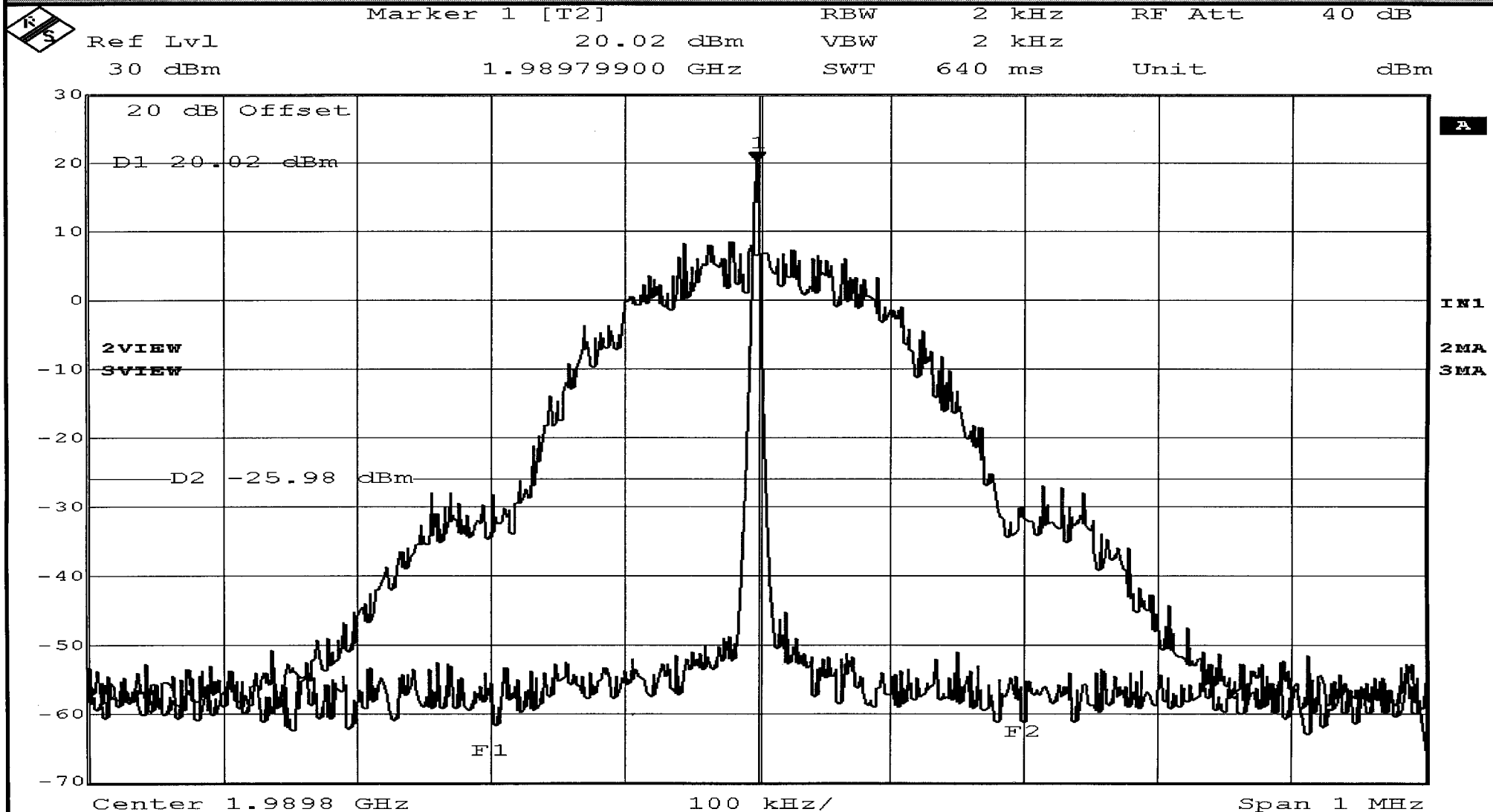
IN1
2MA

Date: 23.JUN.2003 14:17:22

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block C, 1975-1990 MHz Frequency: 1989.8 MHz Modulation: GSM Output Signal		
Job No:	R-4132N		Technician:
		T. Firkowski	
Date:	6/24/03		



Date: 23.JUN.2003 14:19:35

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

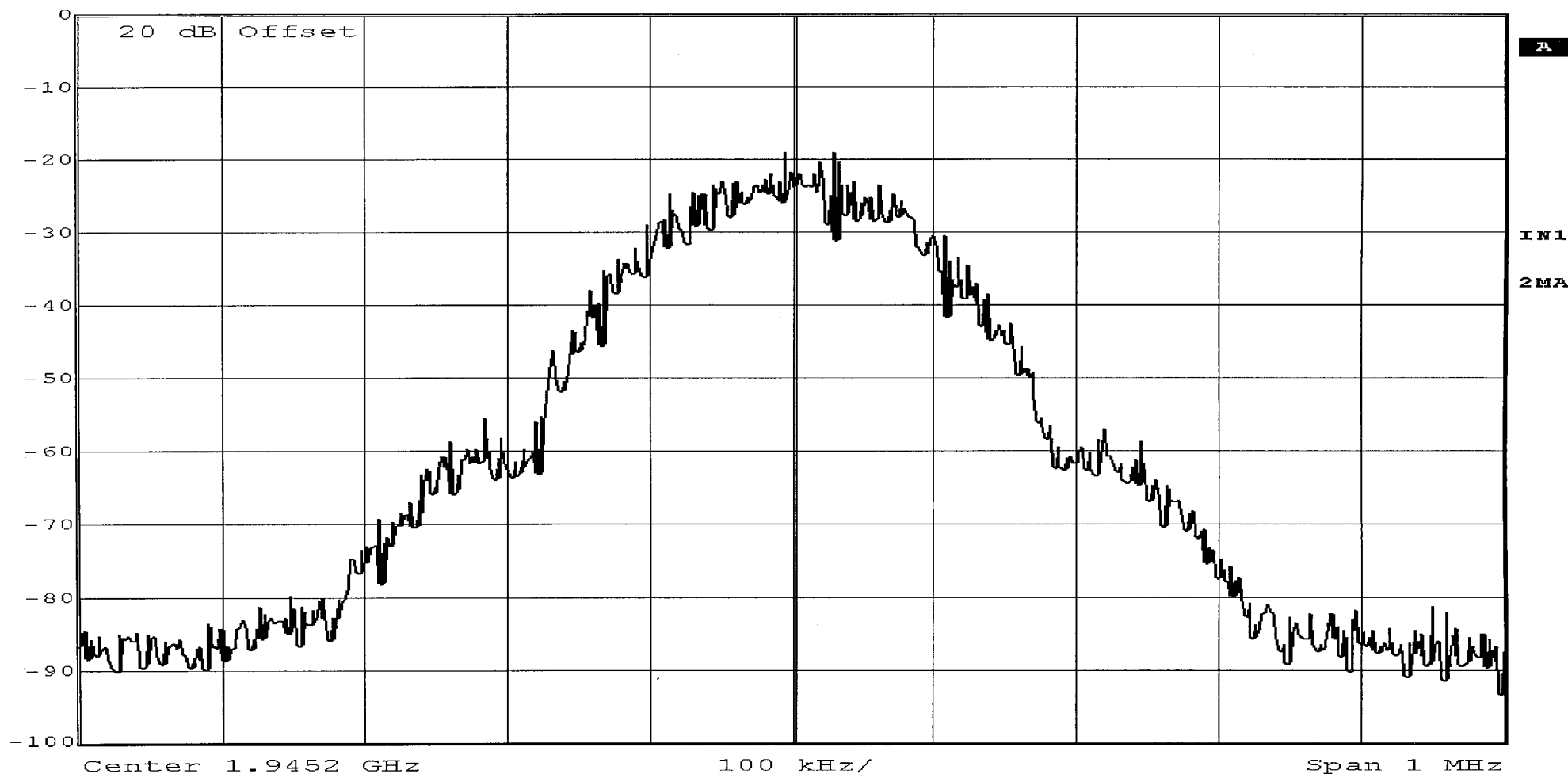
Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block D, 1945-1950 MHz	Frequency: 1945.2 MHz	Modulation: GSM
		Input Signal	



Ref Lvl

0 dBm

RBW 2 kHz RF Att 10 dB
 VBW 2 kHz
 SWT 640 ms Unit dBm

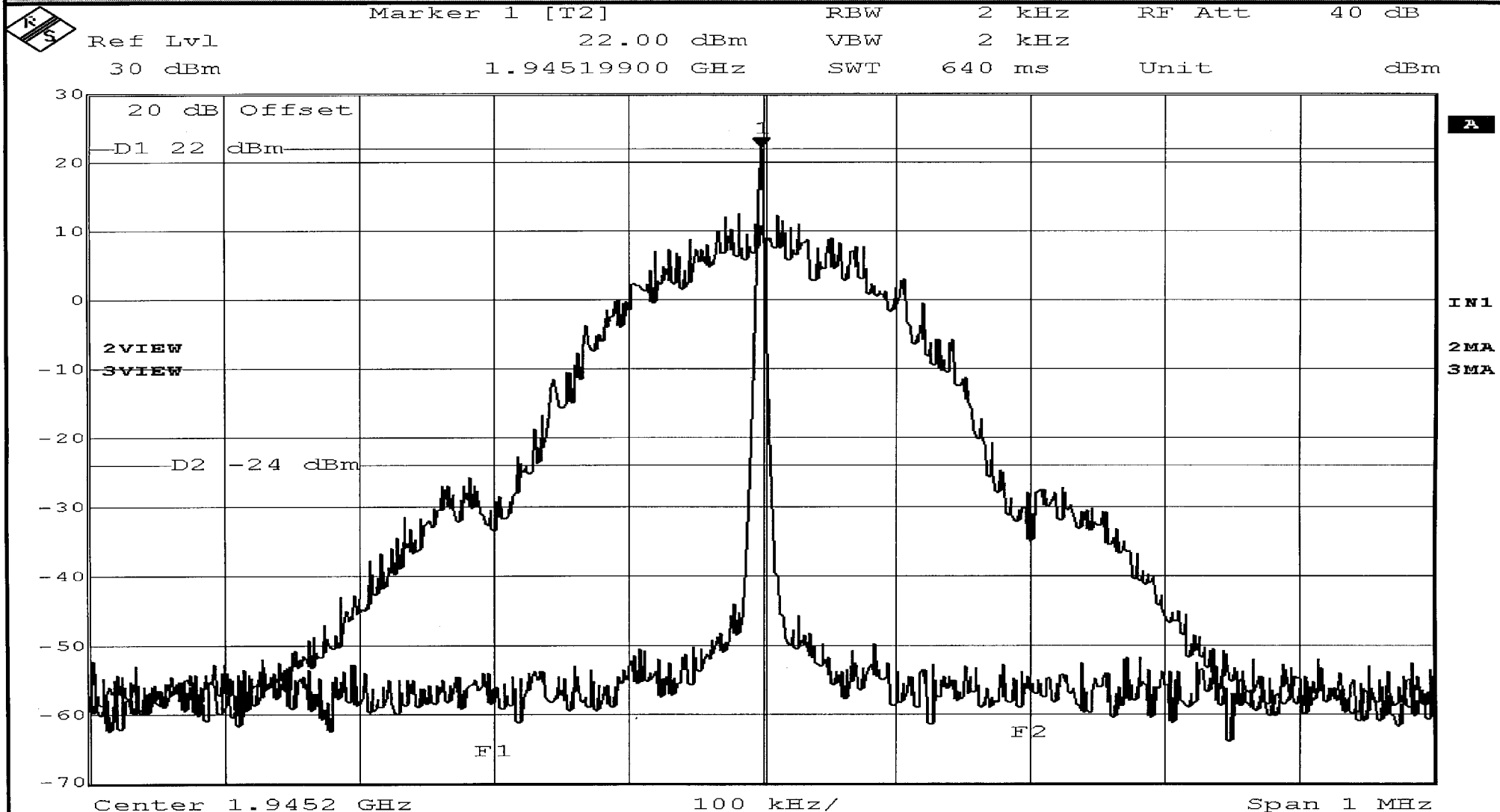


Date: 23.JUN.2003 13:41:26

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block D, 1945-1950 MHz	Frequency: 1945.2 MHz	Modulation: GSM
			Output Signal
			Date: 6/24/03



Date: 23.JUN.2003 13:39:36

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

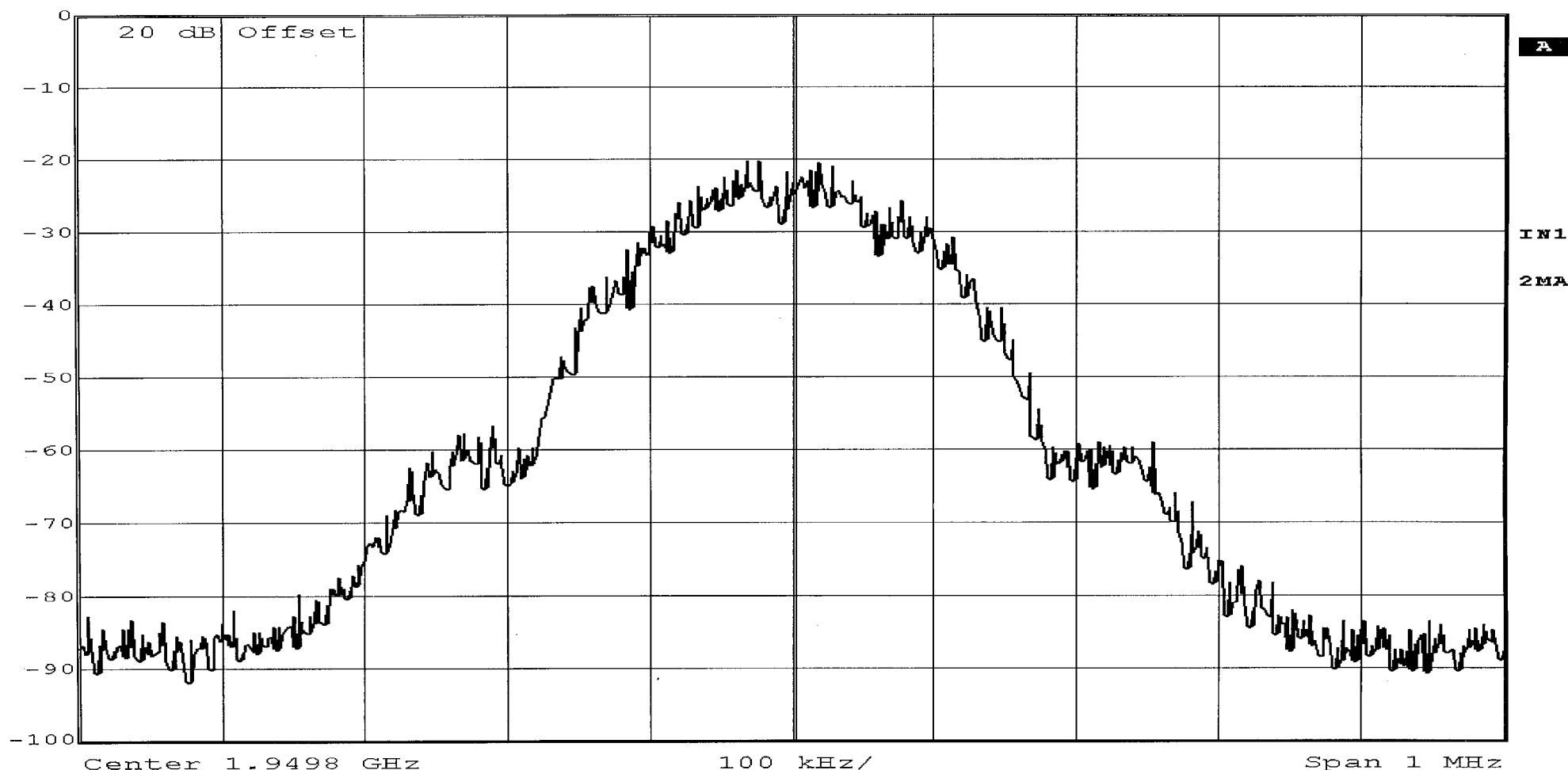
Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block D, 1945-1950 MHz	Frequency: 1949.8 MHz	Modulation: GSM
		Input Signal	



Ref Lvl

0 dBm

RBW 2 kHz RF Att 10 dB
 VBW 2 kHz
 SWT 640 ms Unit dBm

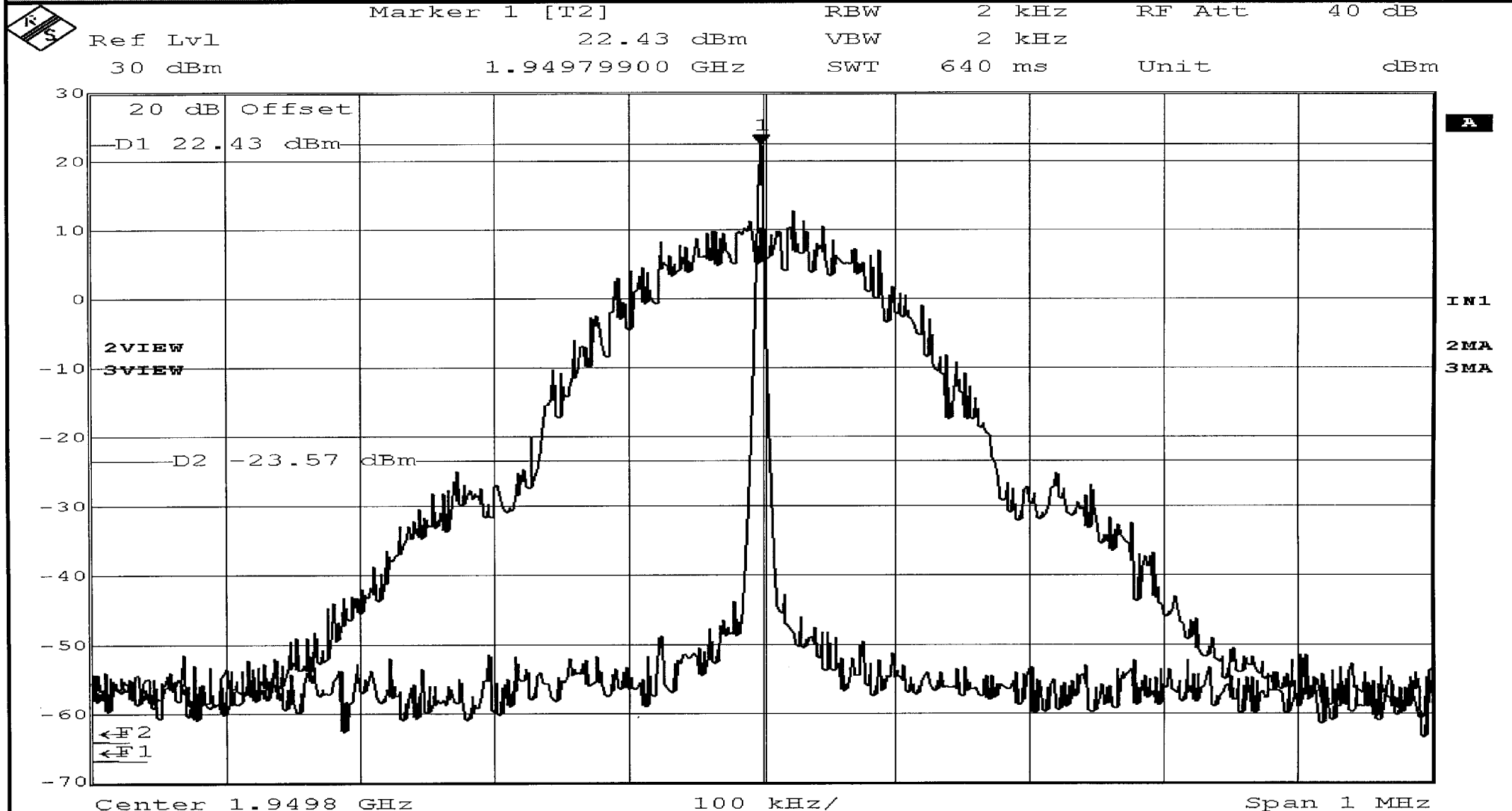


Date: 23.JUN.2003 13:42:15

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block D, 1945-1950 MHz Frequency: 1949.8 MHz Modulation: GSM Output Signal		
Job No:	R-4132N		
Technician:	T. Firkowski		
Date:	6/24/03		

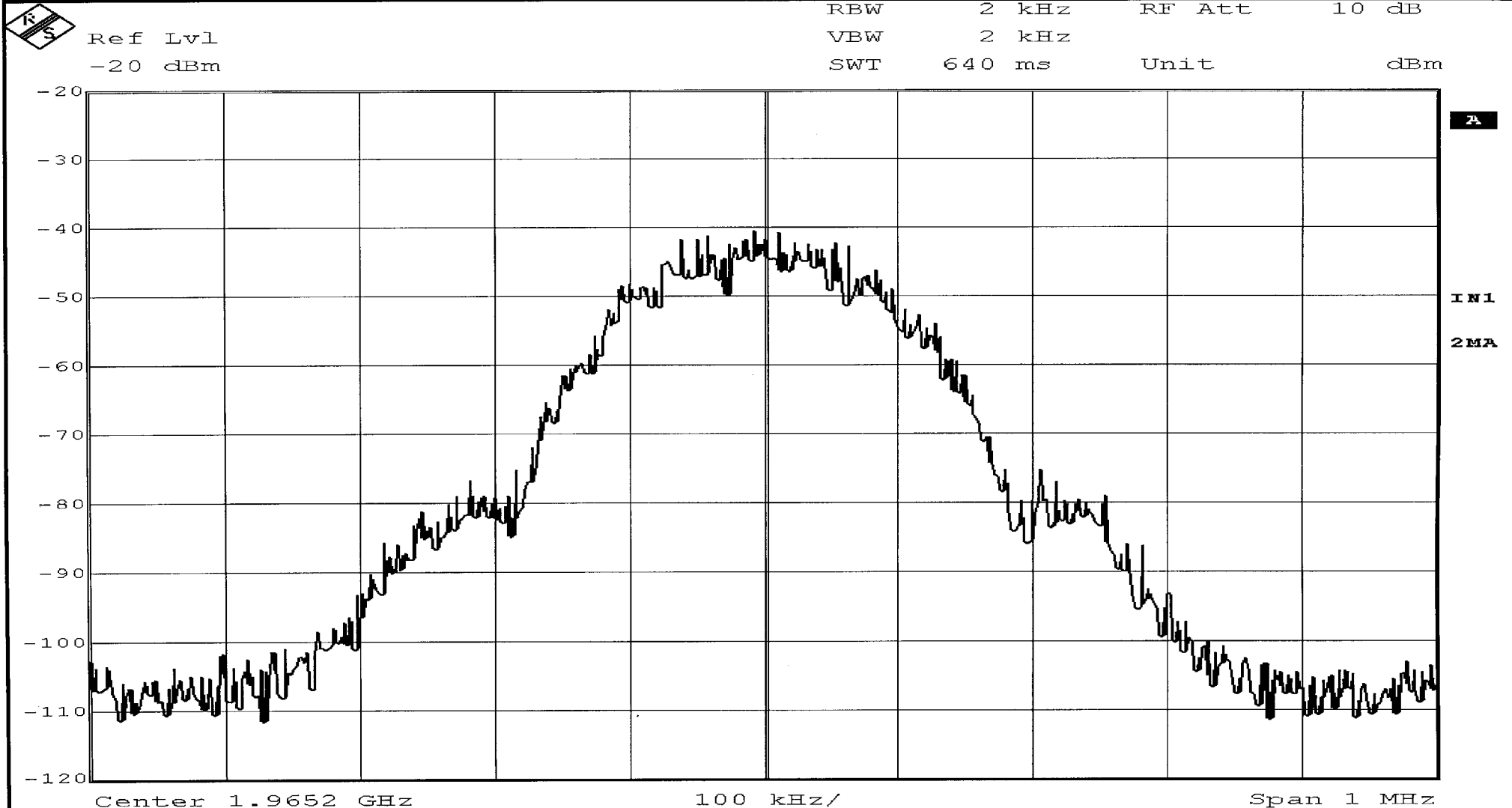


Date: 23.JUN.2003 13:44:05

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block E, 1965-1970 MHz Frequency: 1965.2 MHz Modulation: GSM Input Signal		
		Job No:	R-4132N
		Technician:	T. Firkowski
		Date:	6/24/03

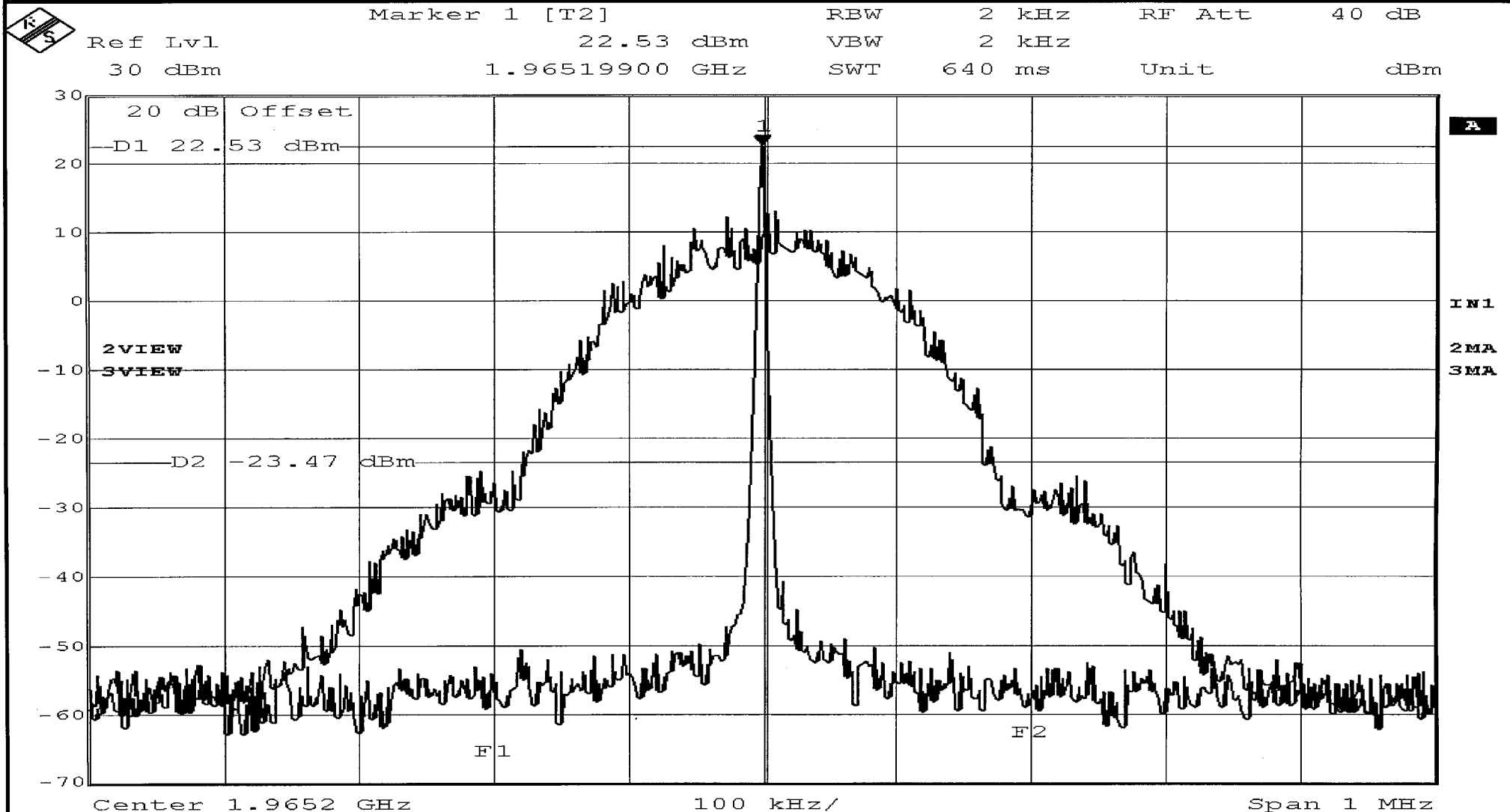


Date: 23.JUN.2003 14:01:13

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block E, 1965-1970 MHz	Frequency: 1965.2 MHz	Modulation: GSM
			Output Signal

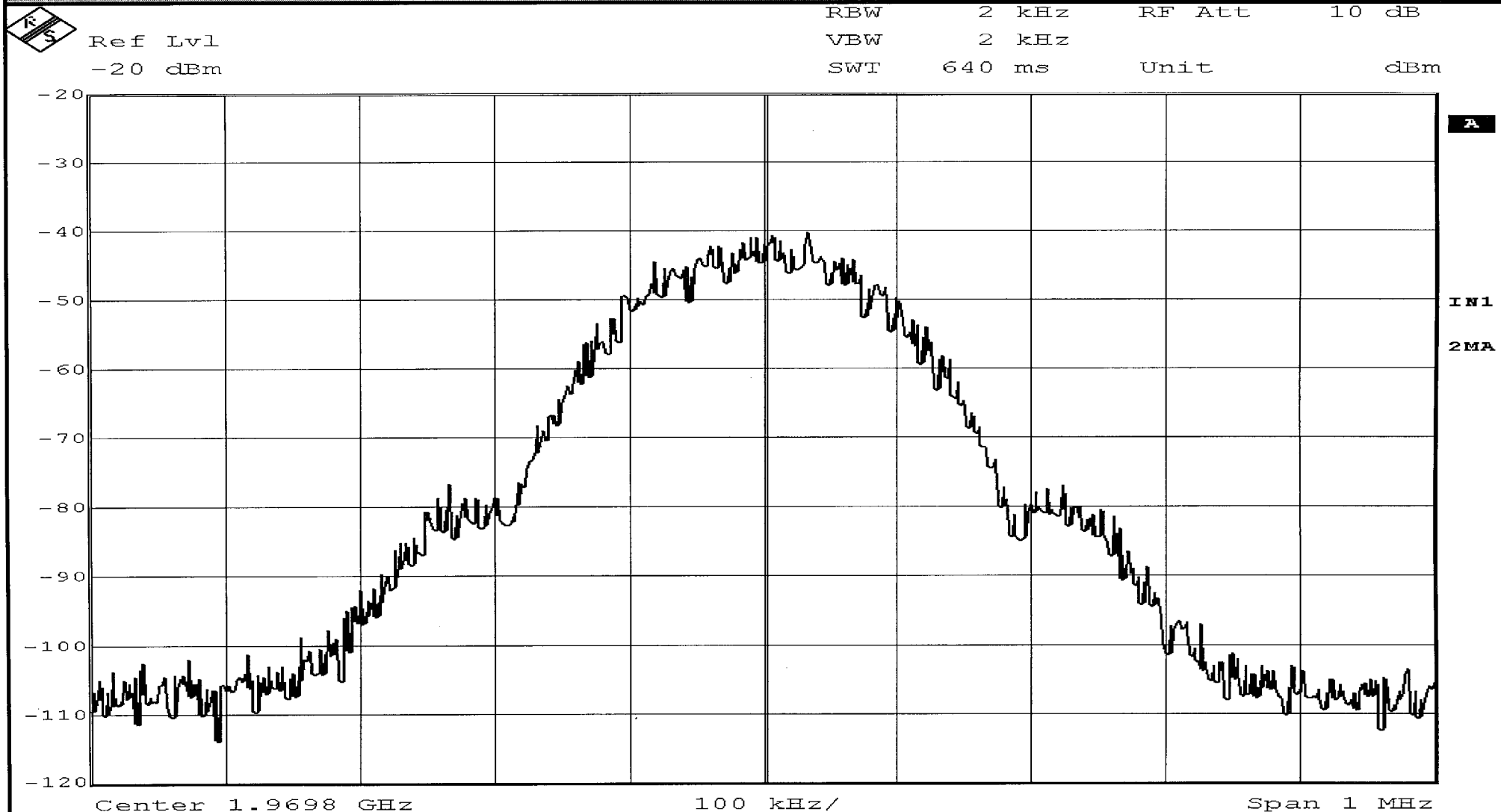


Date: 23.JUN.2003 14:00:23

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block E, 1965-1970 MHz	Frequency: 1969.8 MHz	Modulation: GSM
		Input Signal	

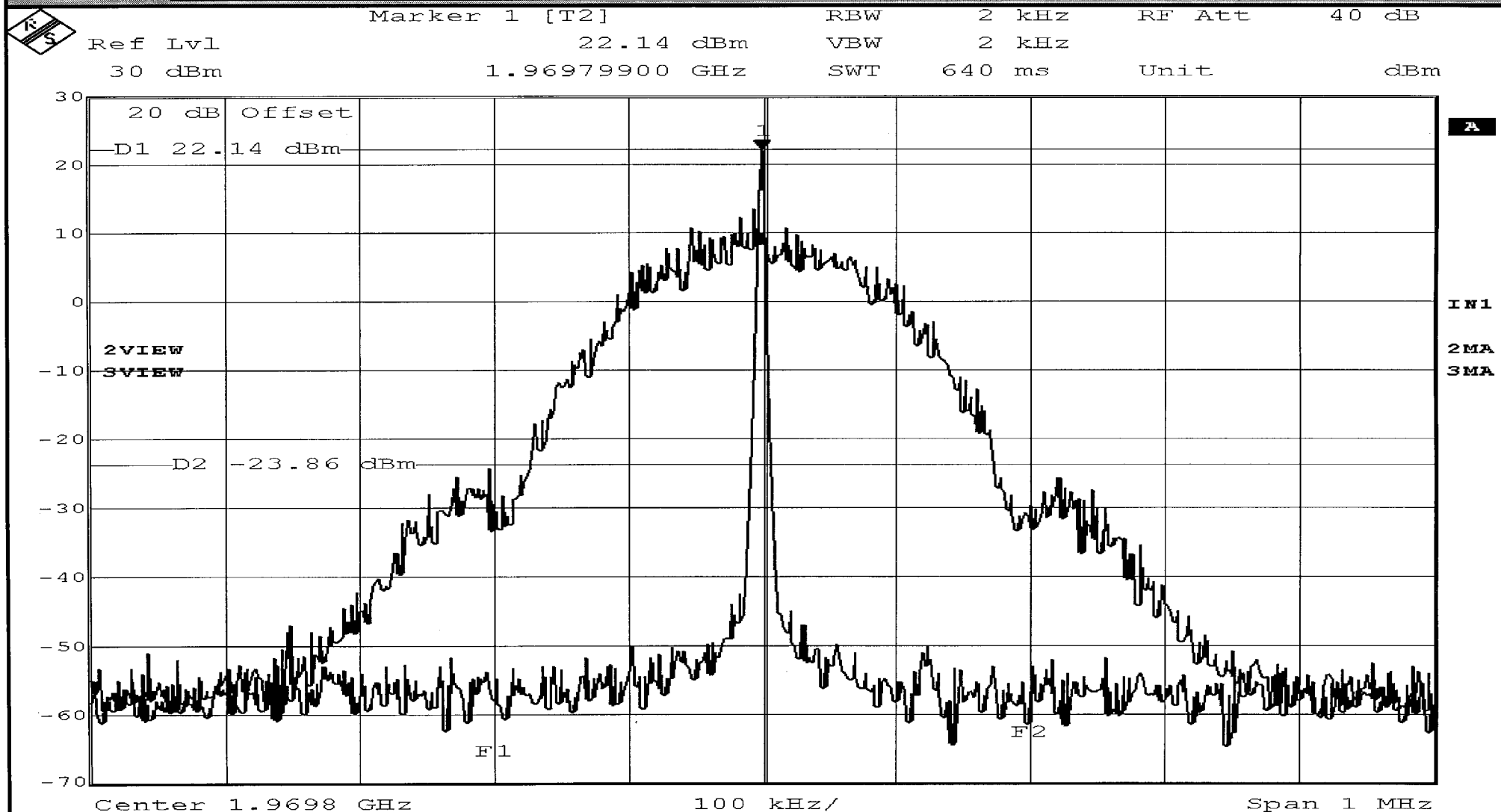


Date: 23.JUN.2003 14:02:20

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block E, 1965-1970 MHz	Frequency: 1969.8 MHz	Modulation: GSM
			Output Signal
			Date: 6/24/03
			Technician: T. Firkowski
			Job No: R-4132N



Date: 23.JUN.2003 14:04:10

RETLIF TESTING LABORATORIES

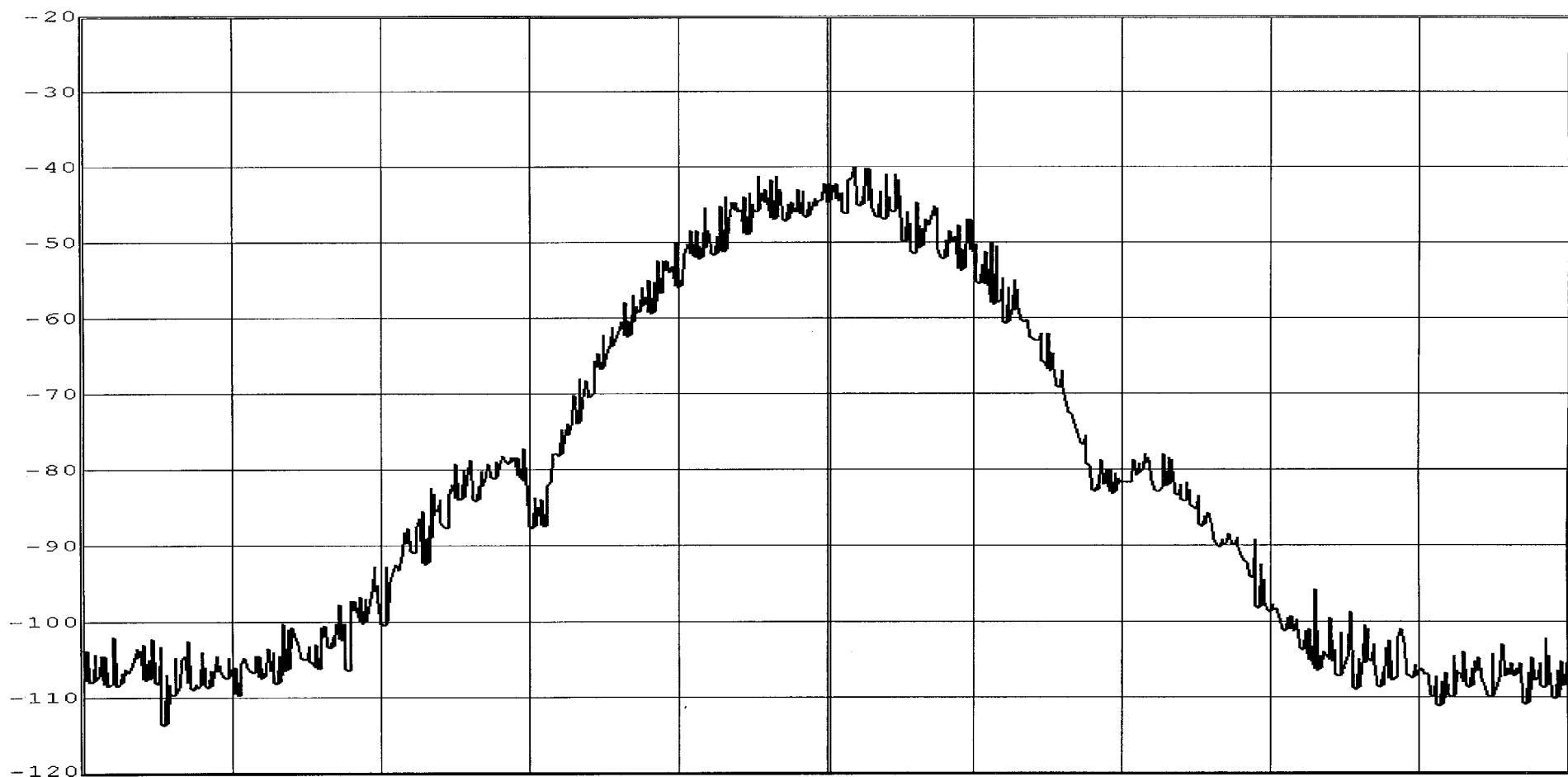
EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block F, 1970-1975 MHz	Frequency: 1970.2 MHz	Modulation: GSM
		Input Signal	



Ref Lvl
-20 dBm

RBW 2 kHz RF Att 10 dB
VBW 2 kHz
SWT 640 ms Unit dBm



A

IN1

2MA

Center 1.9702 GHz

100 kHz/

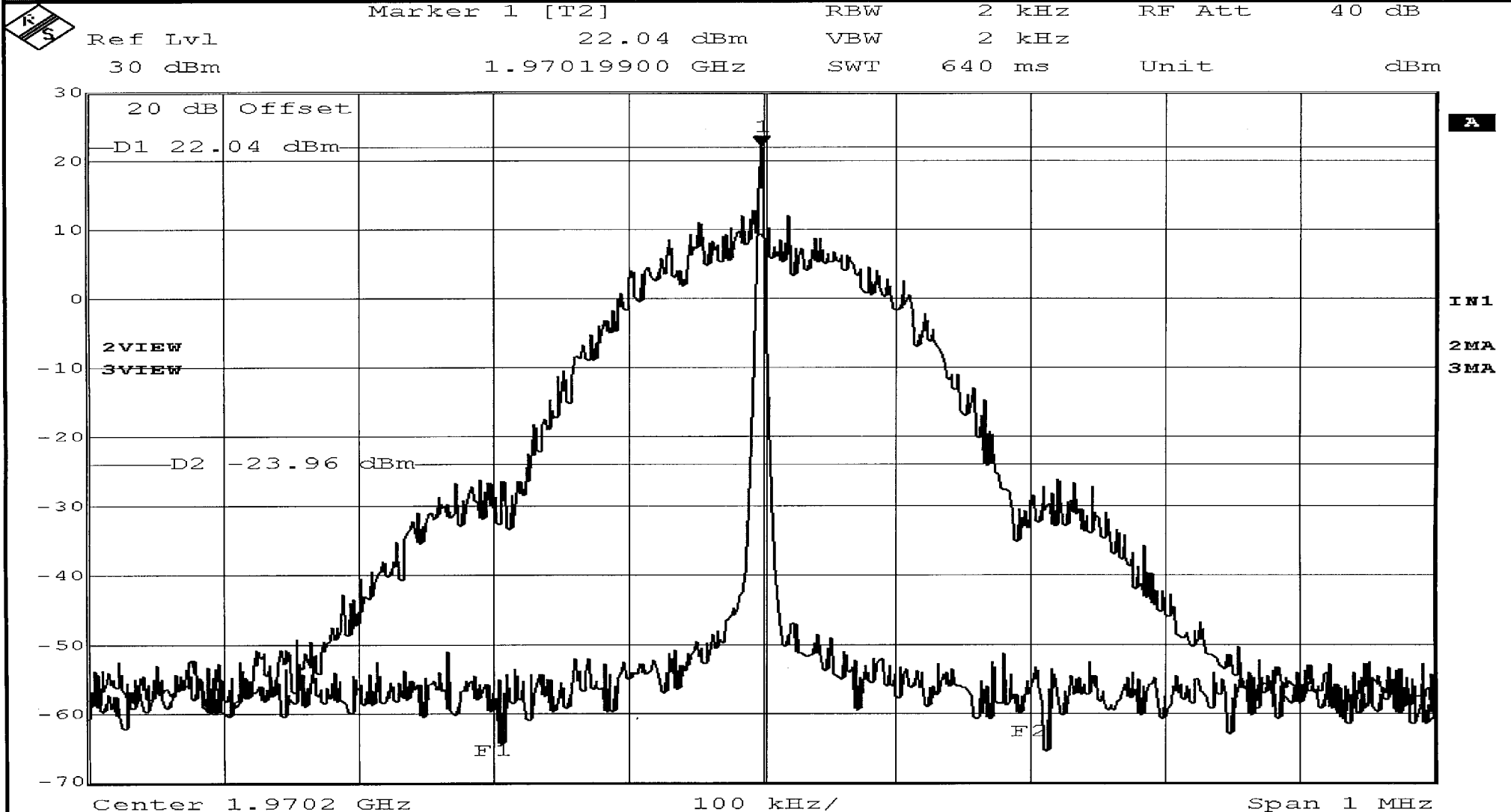
Span 1 MHz

Date: 23.JUN.2003 14:07:40

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block F, 1970-1975 MHz	Frequency: 1970.2 MHz	Modulation: GSM
			Output Signal
			Job No: R-4132N
			Technician: T. Firkowski
			Date: 6/24/03

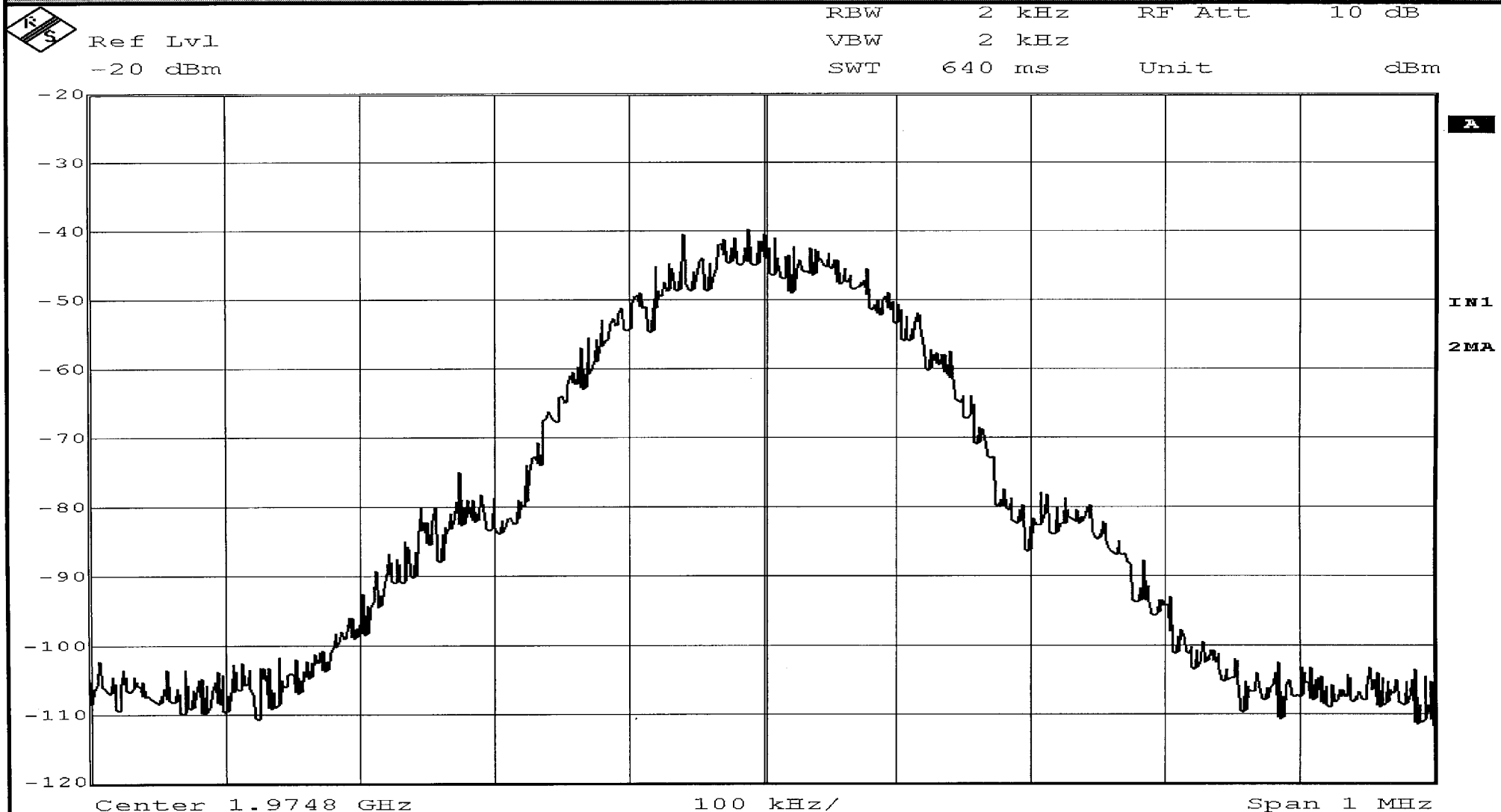


Date: 23.JUN.2003 14:13:24

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block F, 1970-1975 MHz	Frequency: 1974.8 MHz	Modulation: GSM
		Input Signal	

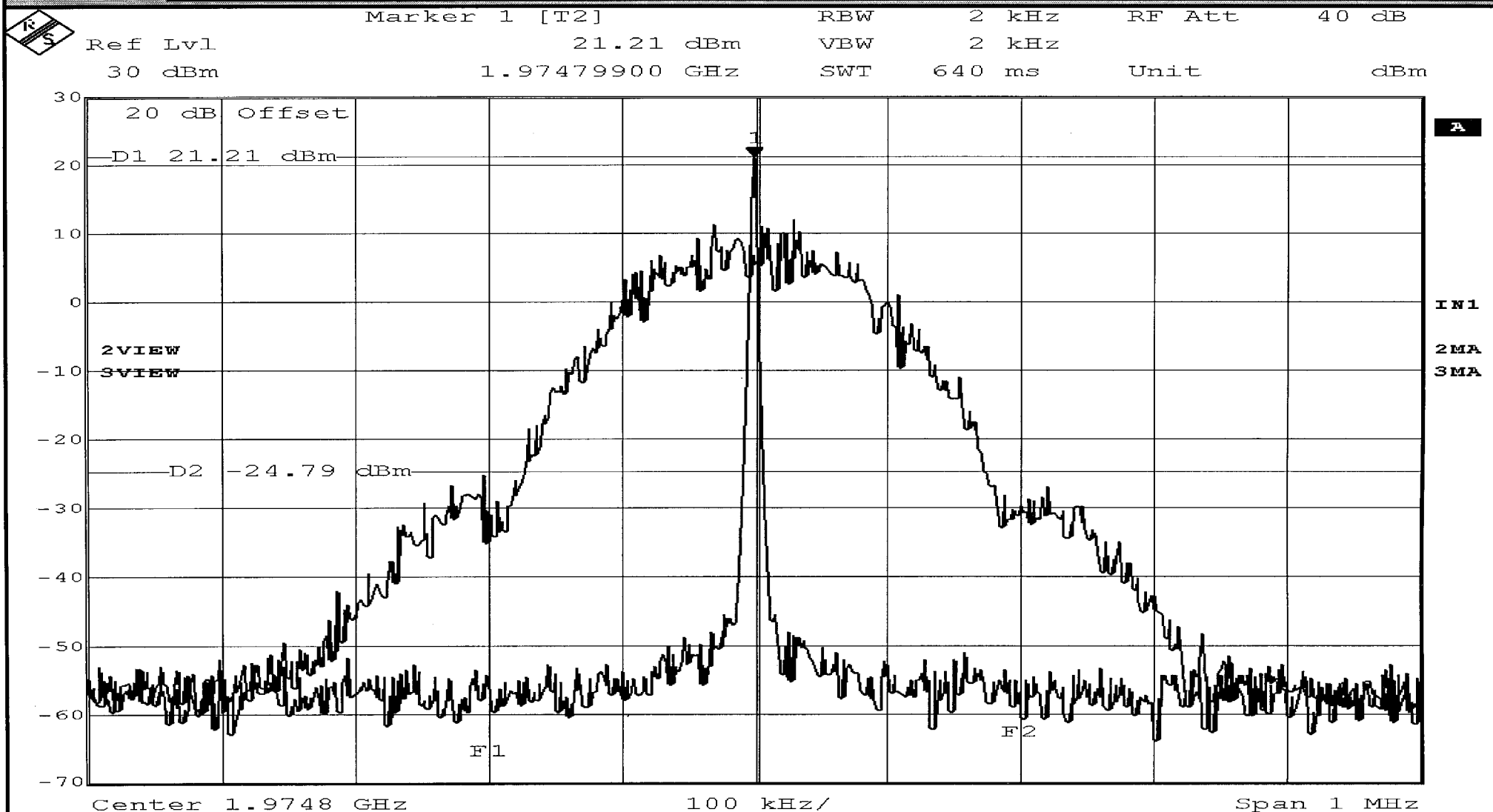


Date: 23.JUN.2003 14:08:23

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Occupied Bandwidth		
Customer:	Cellular Specialties	Test Sample:	Bidirectional Amplifier
Model No:	150PCS	Serial No:	n/a
Test Specification:	FCC Part 2 & 24	Paragraph:	2.1049 & 24.229
Operating Mode:	Amplifying downlink input signal		
Notes:	PCS Band: Block F, 1970-1975 MHz	Frequency: 1974.8 MHz	Modulation: GSM
			Output Signal
			Date: 6/24/03
			Technician: T. Firkowski
			Job No: R-4132N



Date: 23.JUN.2003 14:10:35

Data Sheet 120 of 144

R-4132N