

RETLIF TESTING LABORATORIES

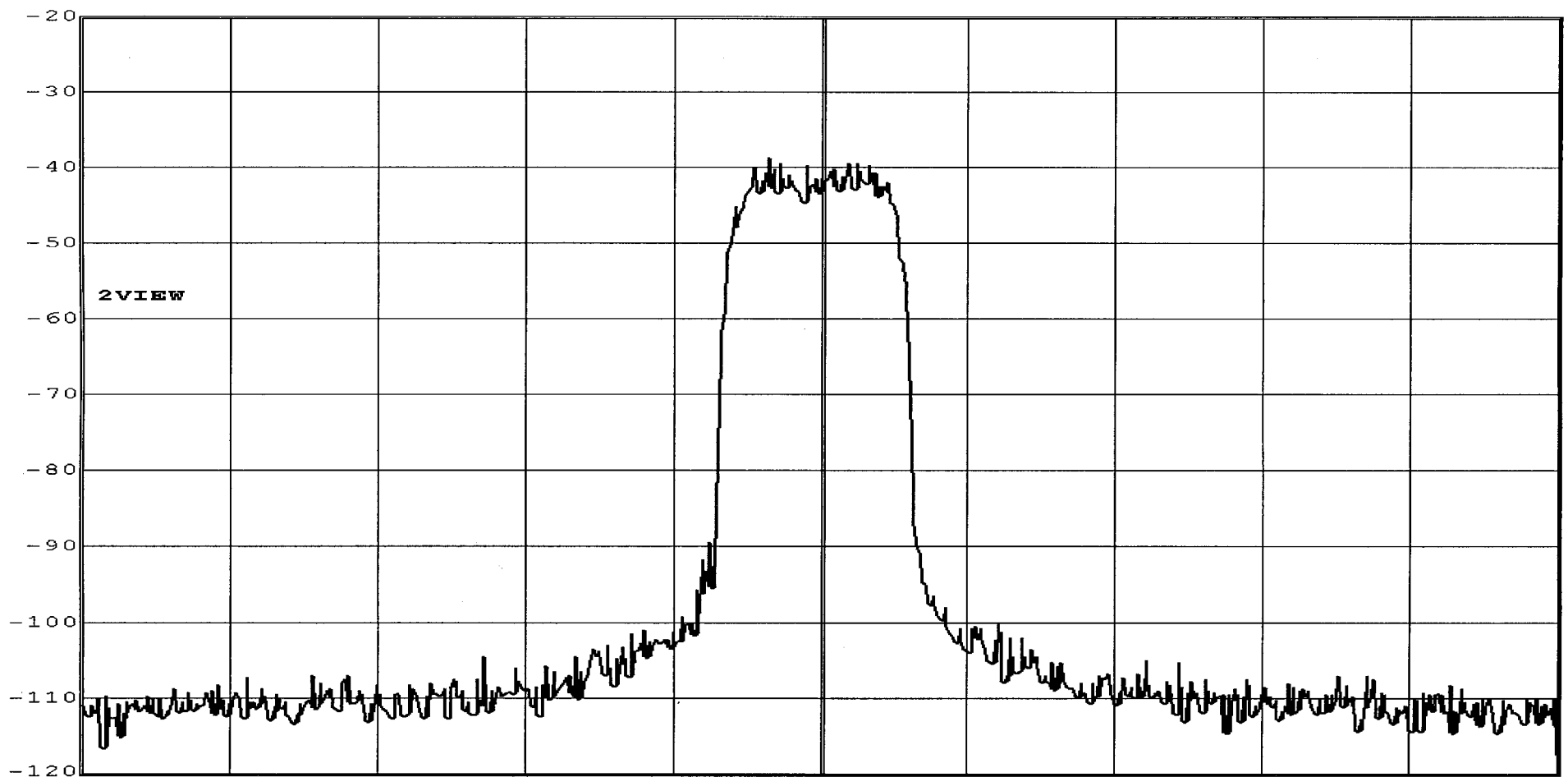
EMISSIONS DATA SHEET

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 uplink input signal		
Notes:	PCS Band: Block A, 1850-1865 MHz	Frequency: 1850.03 MHz	Modulation: TDMA
		Input Signal	



Ref Lvl
-20 dBm

RBW 300 Hz RF Att 10 dB
VBW 300 Hz
SWT 14 s Unit dBm



Center 1.85003 GHz

25 kHz/

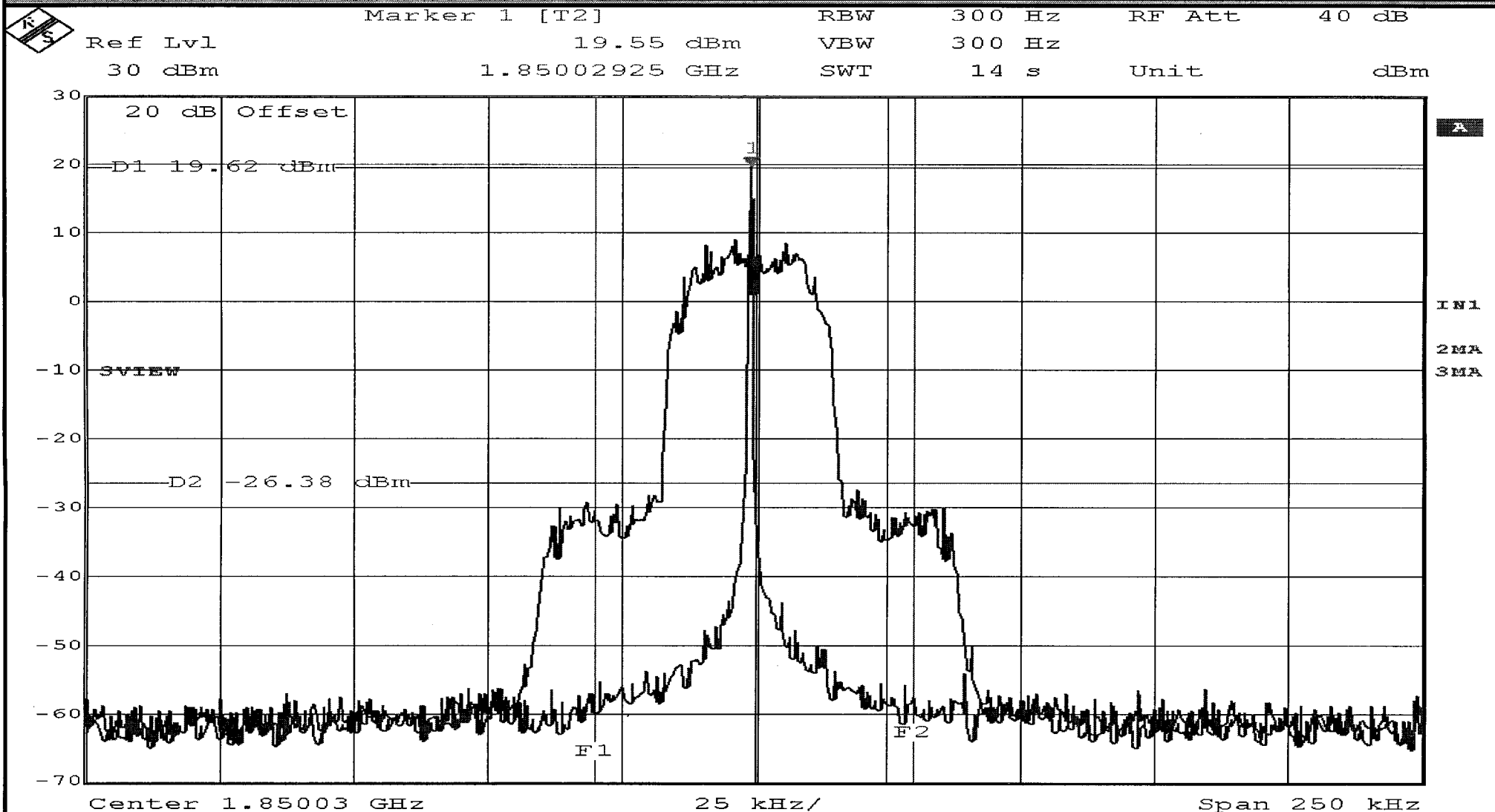
Span 250 kHz

Date: 23 JUN 2003 10:09:07

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 uplink input signal		
Notes:	PCS Band: Block A, 1850-1865 MHz	Frequency: 1850.03 MHz	Modulation: TDMA
			Output Signal



Date: 23.JUN.2003 10:03:03

RETLIF TESTING LABORATORIES

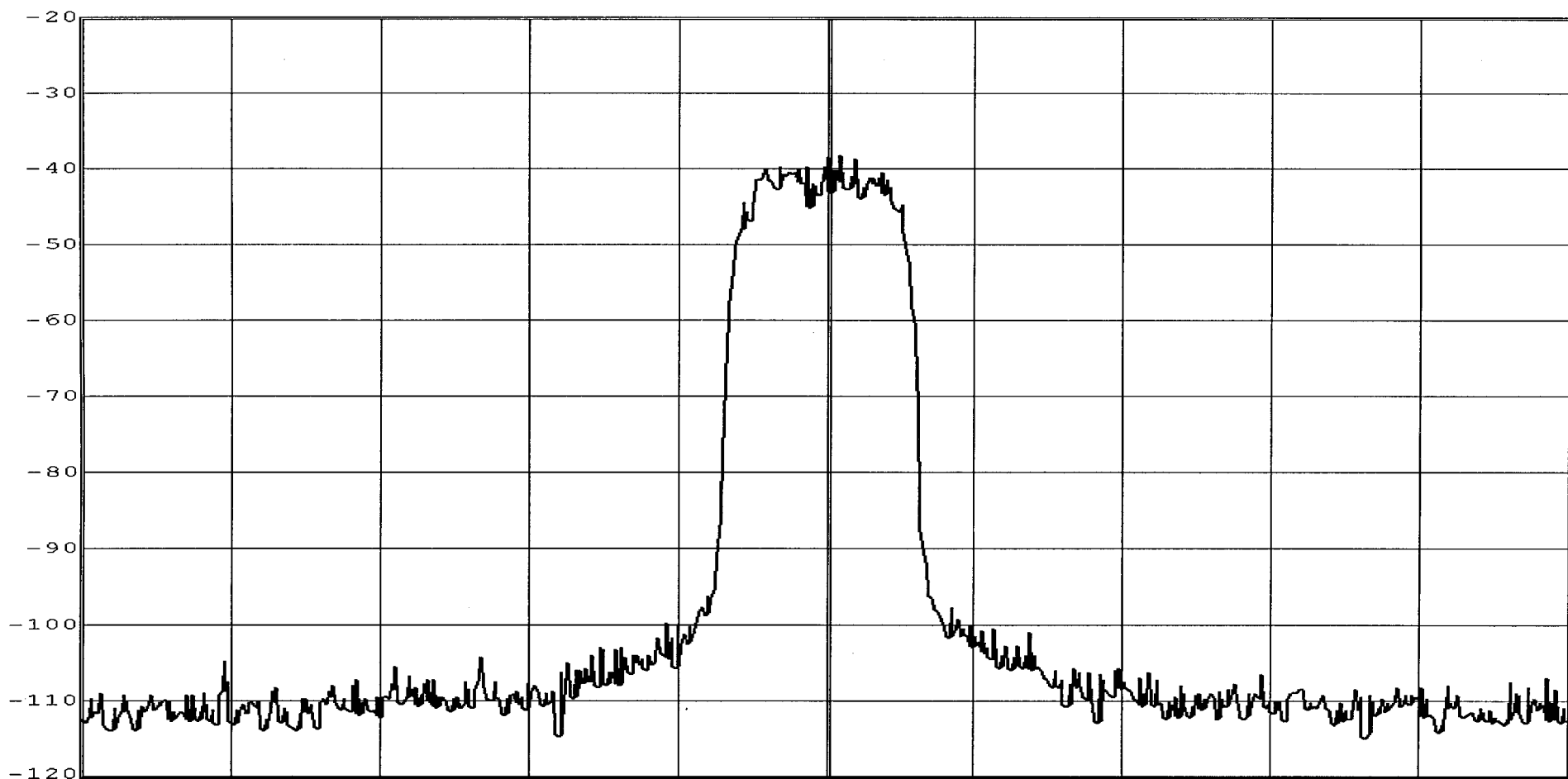
EMISSIONS DATA SHEET

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 uplink input signal		
Notes:	PCS Band: Block A, 1850-1865 MHz	Frequency: 1864.97 MHz	Modulation: TDMA
		Input Signal	



Ref Lvl
-20 dBm

RBW 300 Hz RF Att 10 dB
VBW 300 Hz
SWT 14 s Unit dBm



A
IN1
2MA

Center 1.86497 GHz

25 kHz/

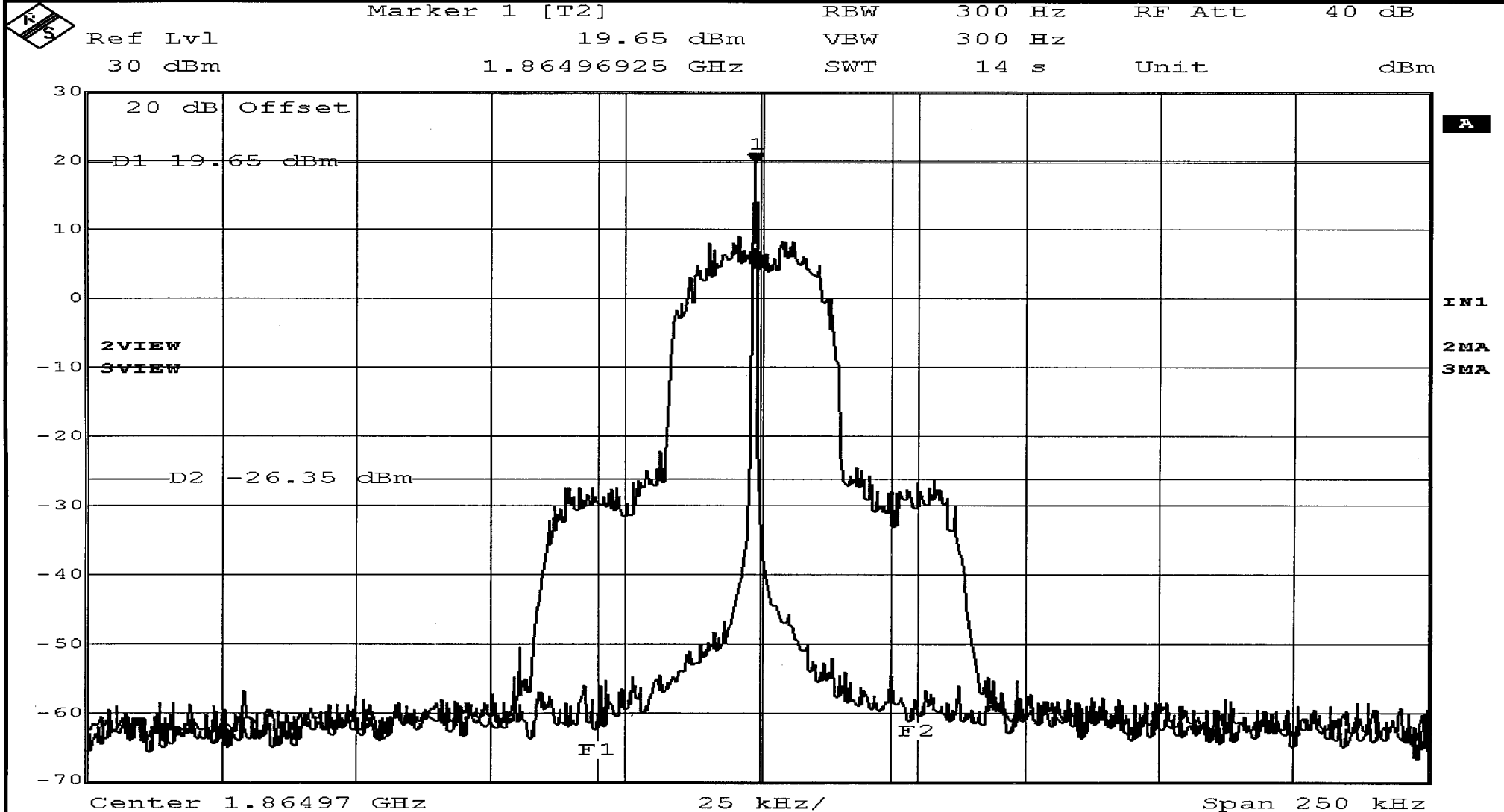
Span 250 kHz

Date: 23.JUN.2003 10:11:16

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 uplink input signal		
Notes:	PCS Band: Block A, 1850-1865 MHz	Frequency: 1864.97 MHz	Modulation: TDMA
			Output Signal
			Job No: R-4132N
			Technician: T. Firkowski
			Date: 6/24/03



Date: 23.JUN.2003 10:17:17

RETLIF TESTING LABORATORIES

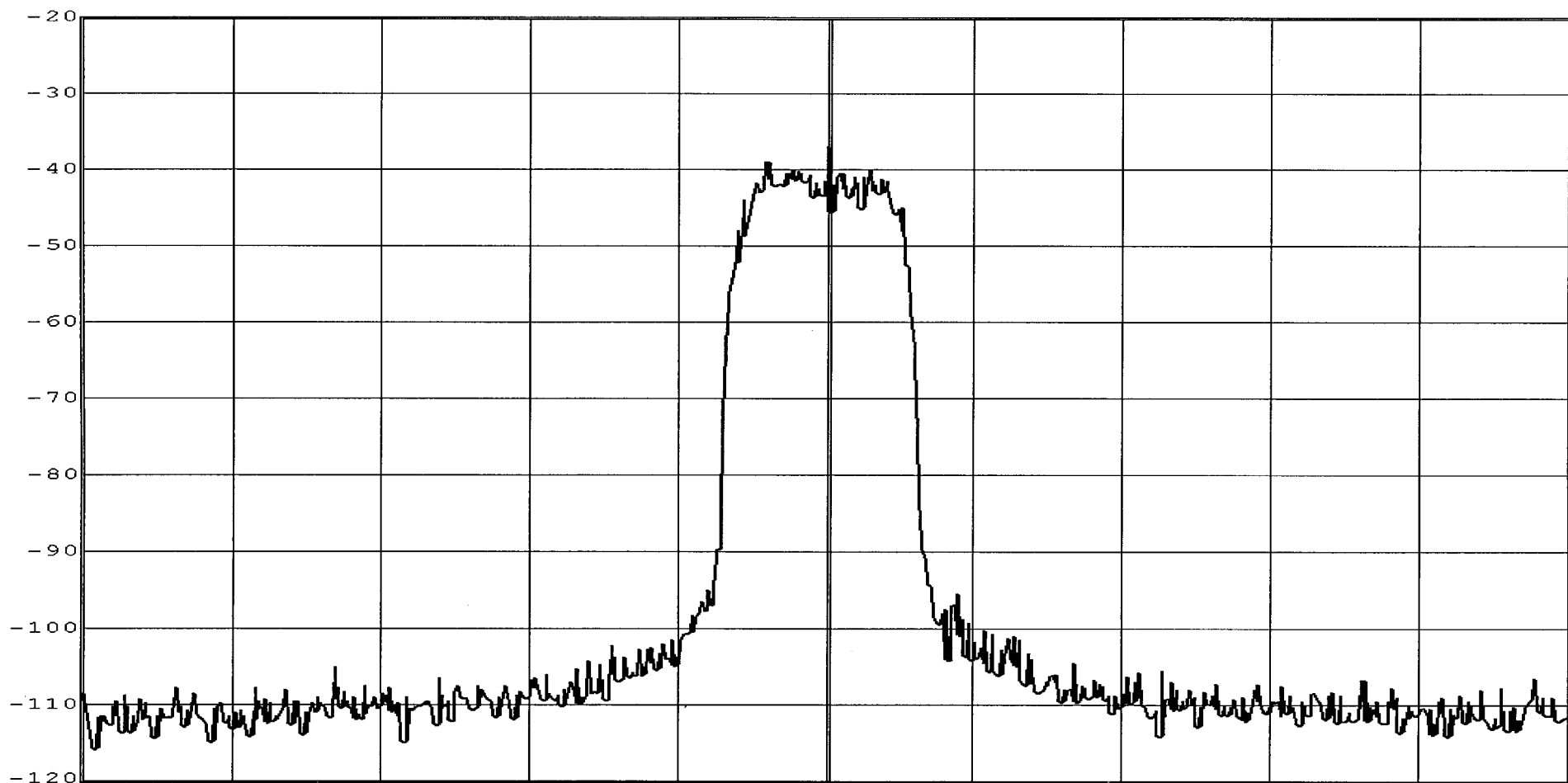
EMISSIONS DATA SHEET

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 uplink input signal		
Notes:	PCS Band: Block B, 1870-1885 MHz	Frequency: 1870.03 MHz	Modulation: TDMA
			Input Signal



Ref Lvl
-20 dBm

RBW 300 Hz RF Att 10 dB
VBW 300 Hz
SWT 14 s Unit dBm



A

IN1

2MA

Center 1.87003 GHz

25 kHz/

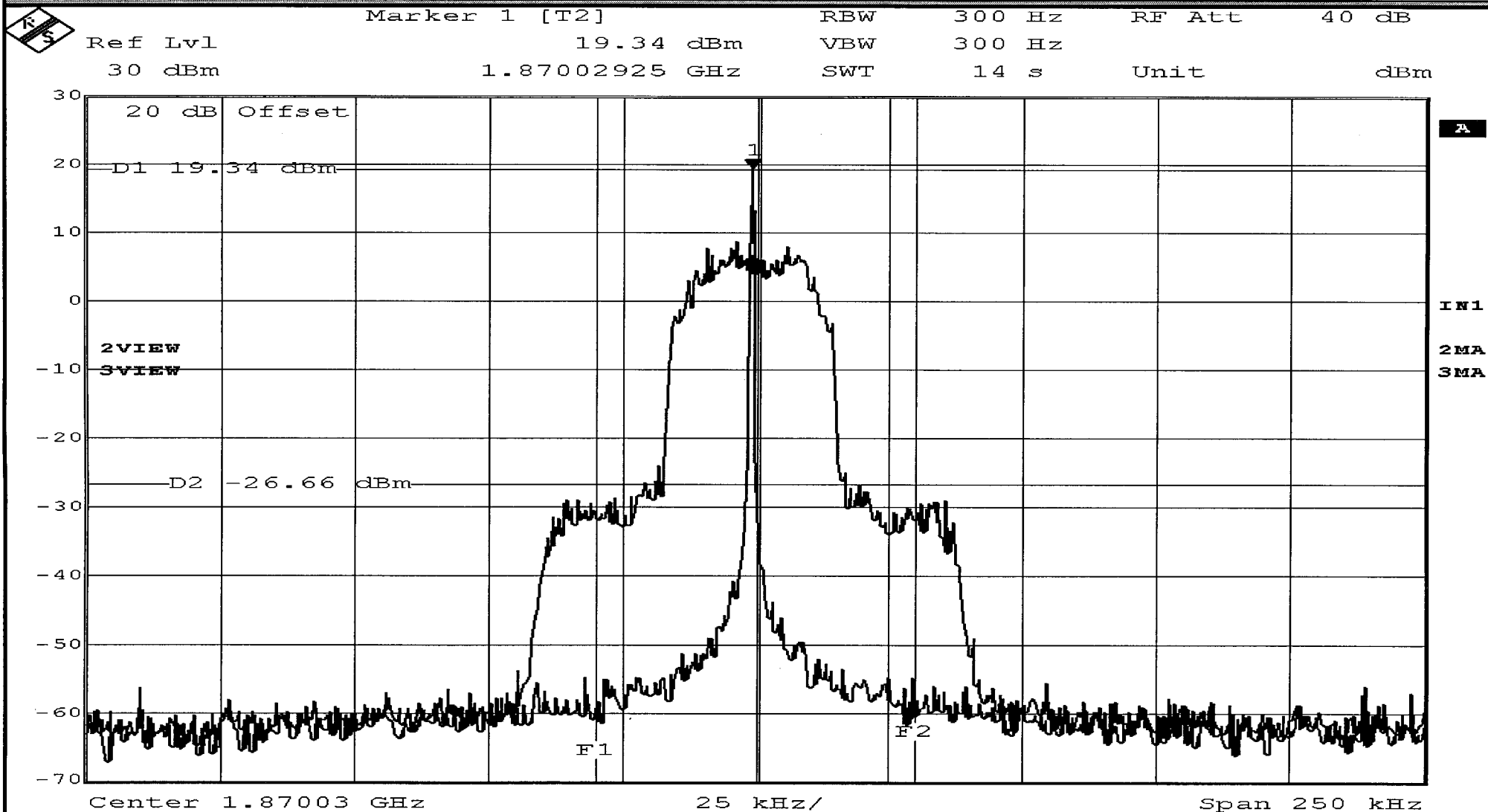
Span 250 kHz

Date: 23.JUN.2003 10:36:35

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 uplink input signal		
Notes:	PCS Band: Block B, 1870-1885 MHz	Frequency: 1870.03 MHz	Modulation: TDMA
			Output Signal

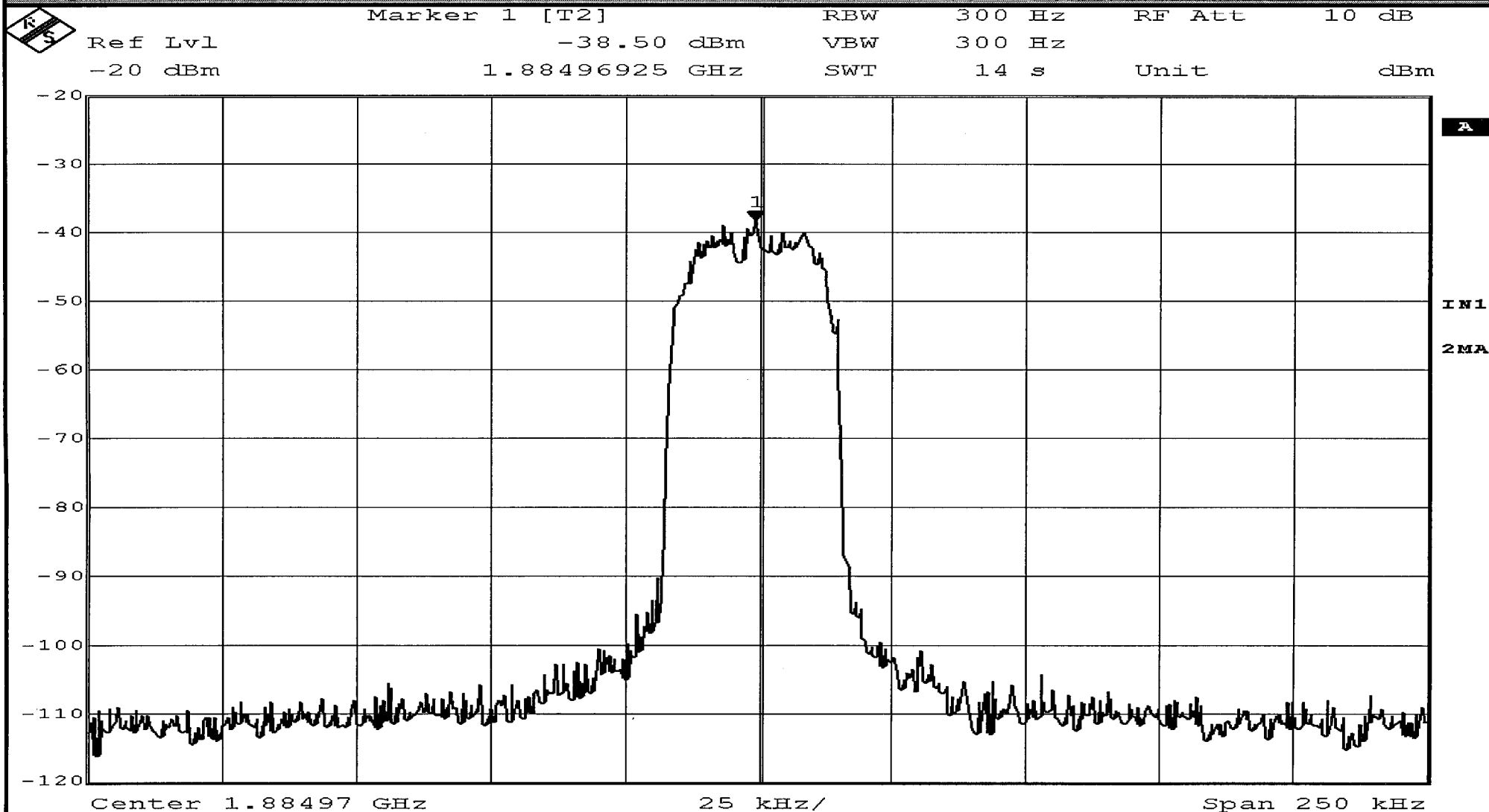


Date: 23.JUN.2003 10:34:36

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 uplink input signal		
Notes:	PCS Band: Block B, 1870-1885 MHz	Frequency: 1884.97 MHz	Modulation: TDMA
			Input Signal
			Job No: R-4132N
			Technician: T. Firkowski
			Date: 6/24/03

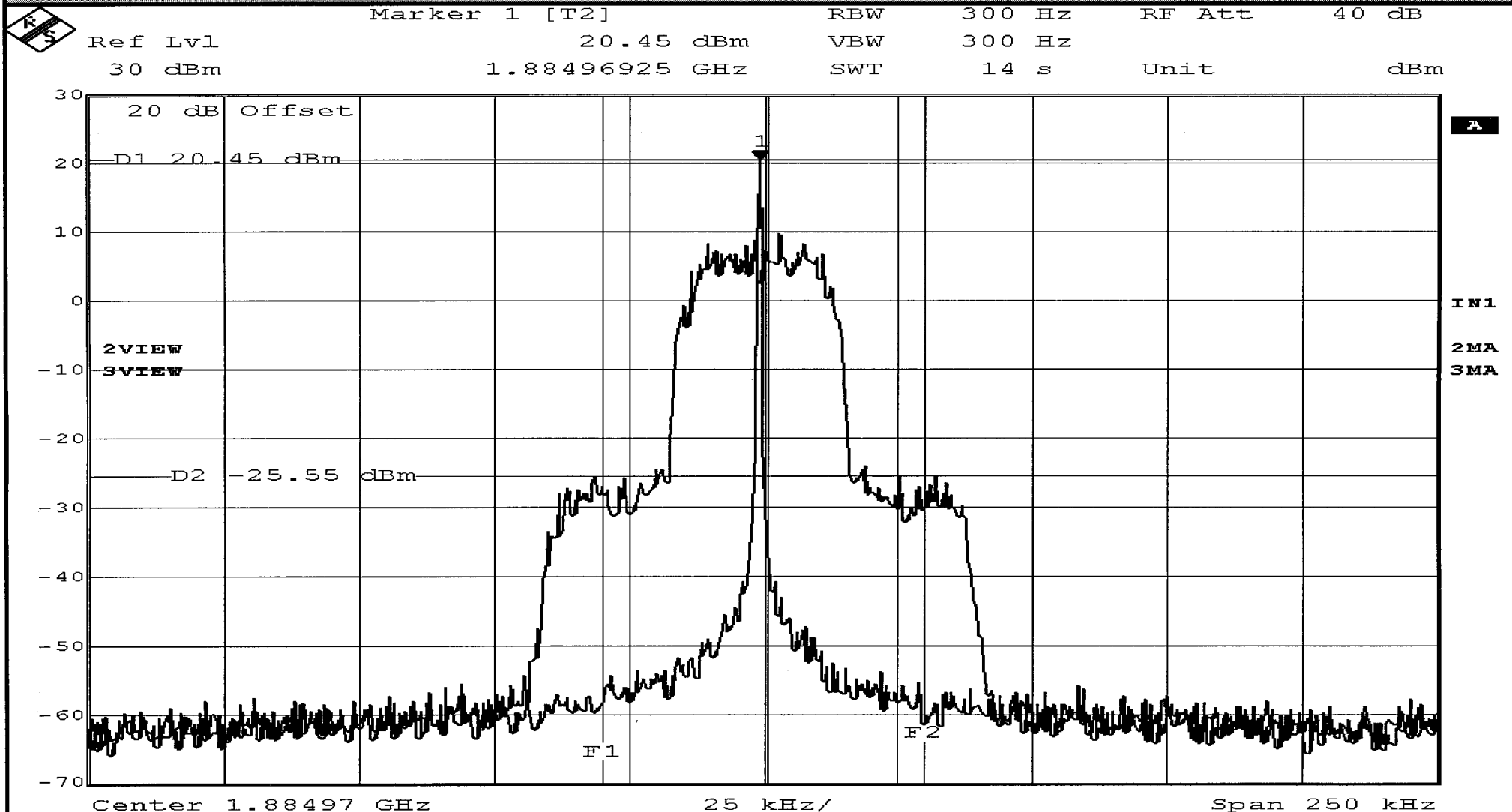


Date: 23.JUN.2003 10:49:25

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 uplink input signal		
Notes:	PCS Band: Block B, 1870-1885 MHz Frequency: 1884.97 MHz Modulation: TDMA Output Signal		
Job No:	R-4132N		Technician:
		T. Firkowski	
Date:	6/24/03		

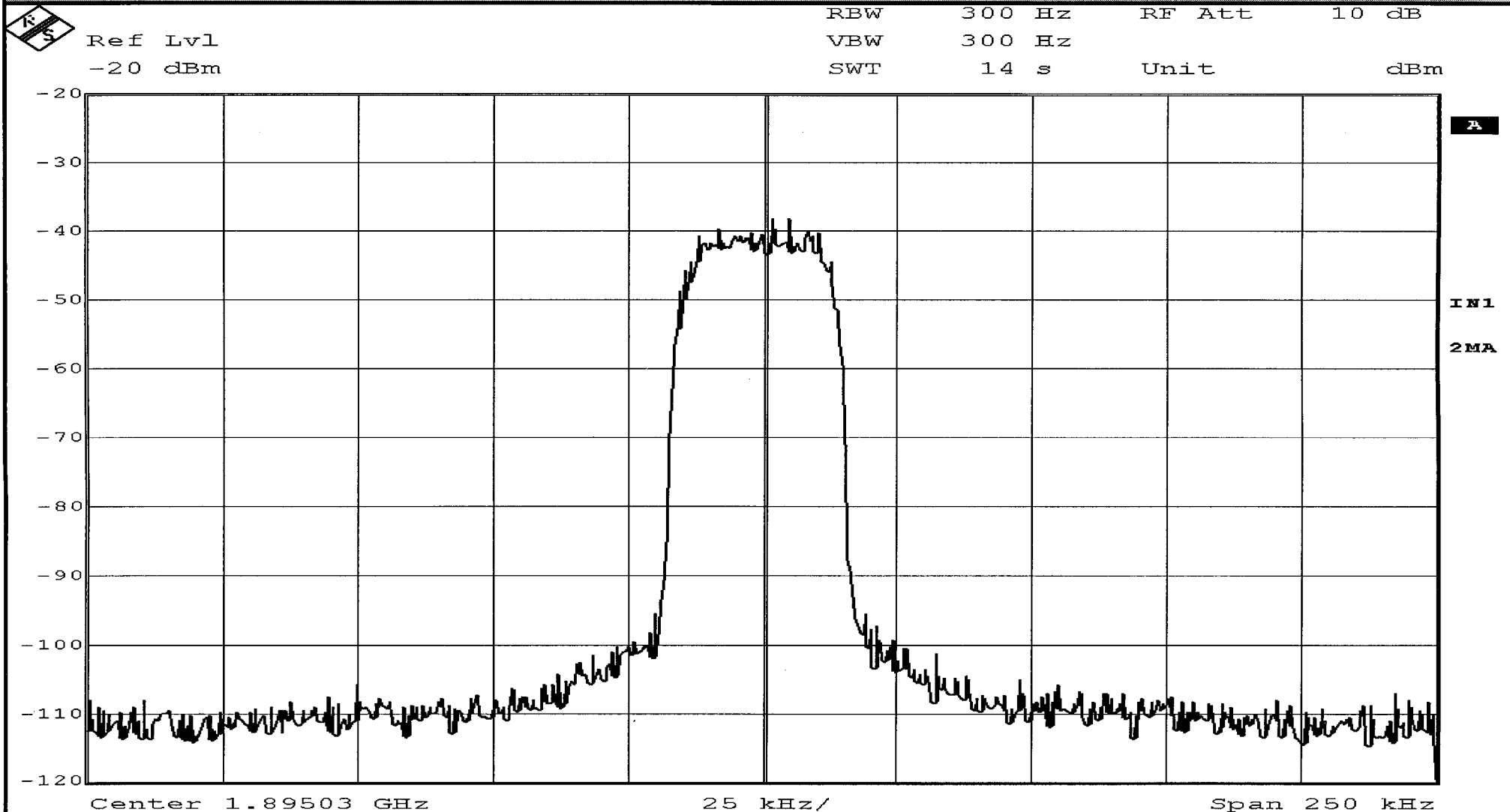


Date: 23.JUN.2003 10:53:04

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 uplink input signal		
Notes:	PCS Band: Block C, 1895-1910 MHz	Frequency: 1895.03 MHz	Modulation: TDMA
		Input Signal	

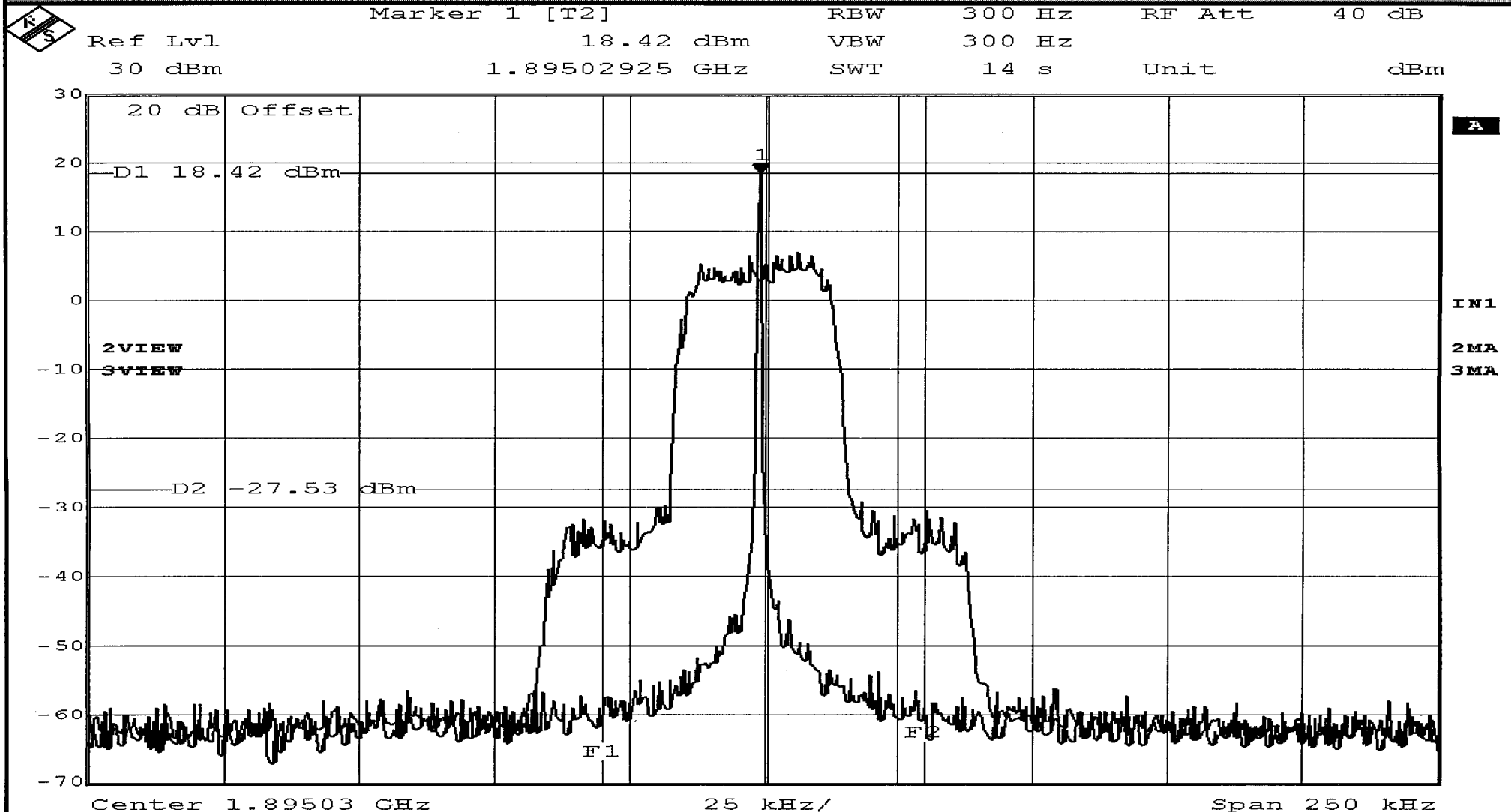


Date: 23.JUN.2003 11:16:51

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 uplink input signal		
Notes:	PCS Band: Block C, 1895-1910 MHz	Frequency: 1895.03 MHz	Modulation: TDMA
			Output Signal

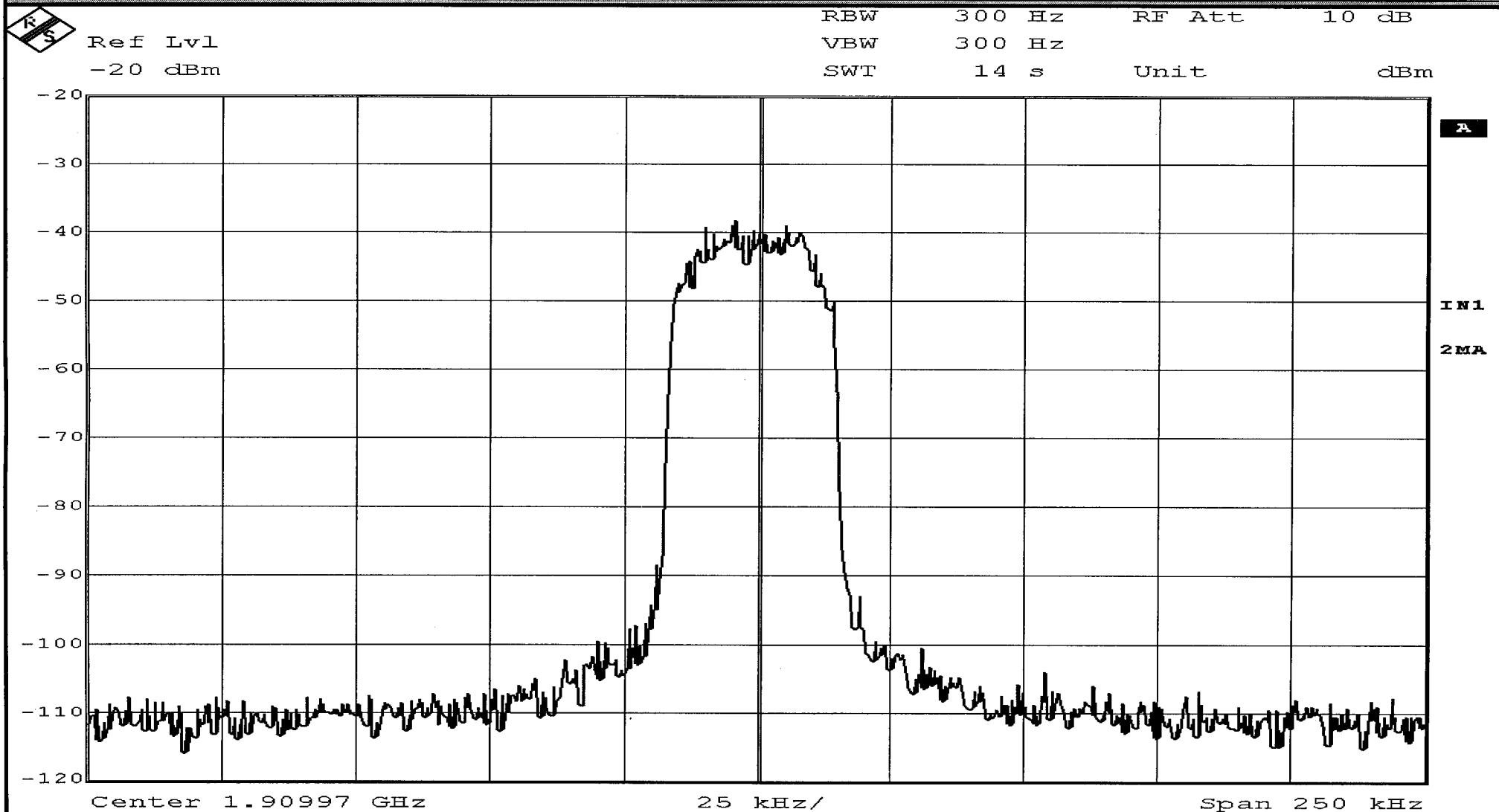


Date: 23.JUN.2003 11:15:51

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 uplink input signal		
Notes:	PCS Band: Block C, 1895-1910 MHz	Frequency: 1909.97 MHz	Modulation: TDMA
			Input Signal

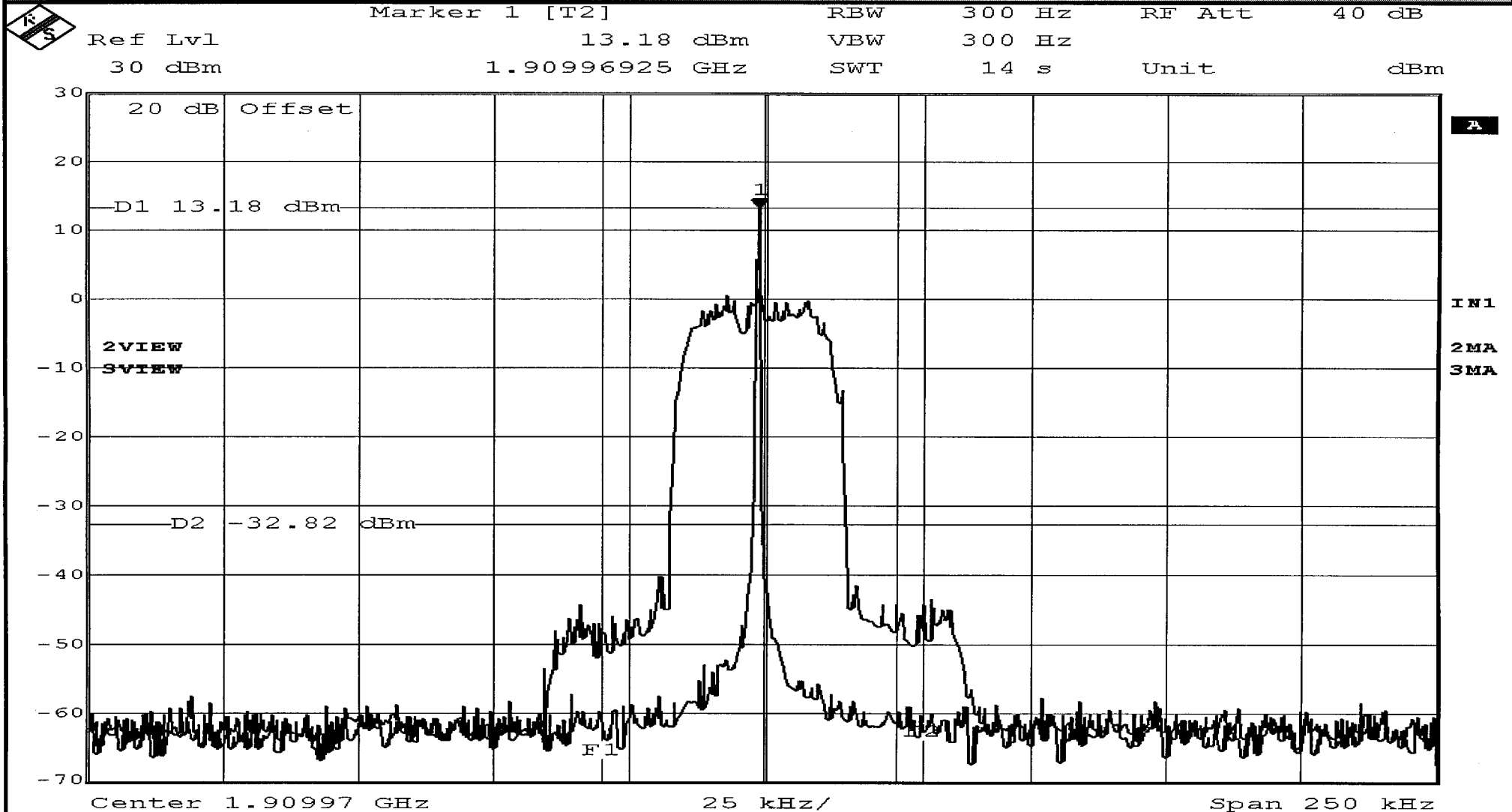


Date: 23.JUN.2003 11:18:30

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 uplink input signal		
Notes:	PCS Band: Block C, 1895-1910 MHz	Frequency: 1909.97 MHz	Modulation: TDMA
			Output Signal



Date: 23.JUN.2003 11:26:20

RETLIF TESTING LABORATORIES

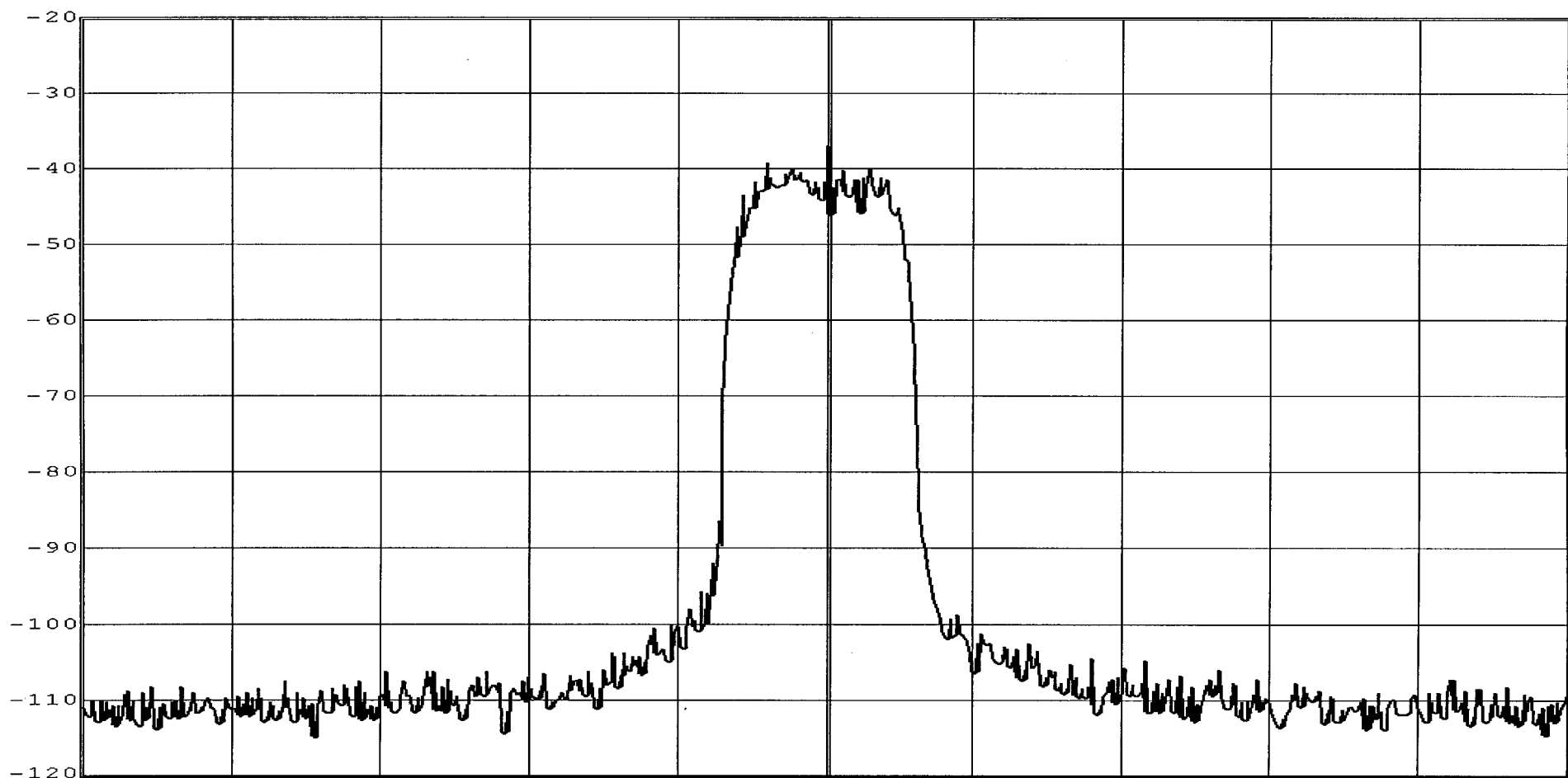
EMISSIONS DATA SHEET

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 uplink input signal		
Notes:	PCS Band: Block D, 1865-1870 MHz	Frequency: 1865.03 MHz	Modulation: TDMA
			Input Signal



Ref Lvl
-20 dBm

RBW 300 Hz RF Att 10 dB
VBW 300 Hz
SWT 14 s Unit dBm



A

IN1

2MA

Center 1.86503 GHz

25 kHz/

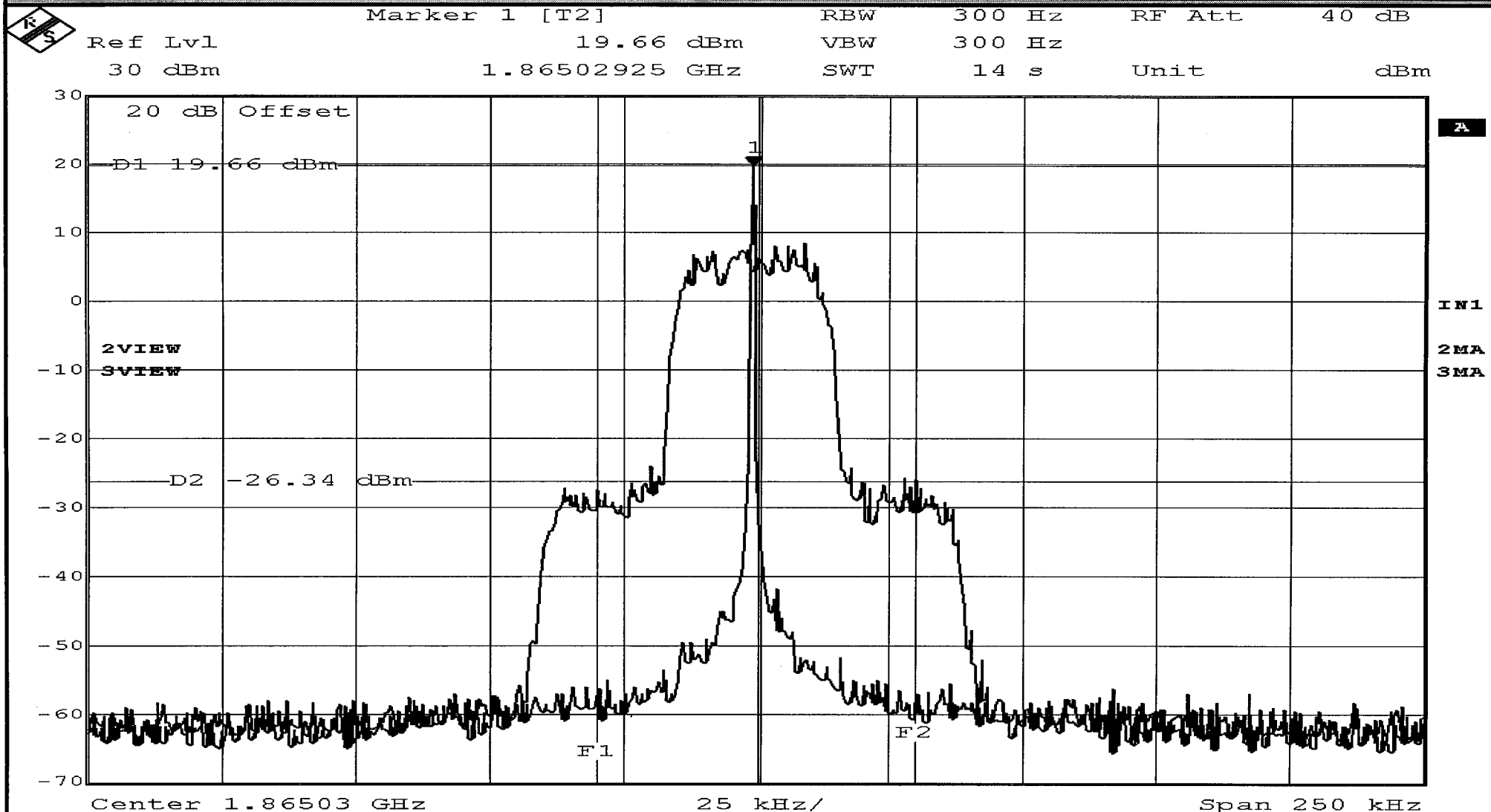
Span 250 kHz

Date: 23.JUN.2003 10:25:31

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 uplink input signal		
Notes:	PCS Band: Block D, 1865-1870 MHz	Frequency: 1865.03 MHz	Modulation: TDMA
			Output Signal



Date: 23.JUN.2003 10:22:23

RETLIF TESTING LABORATORIES

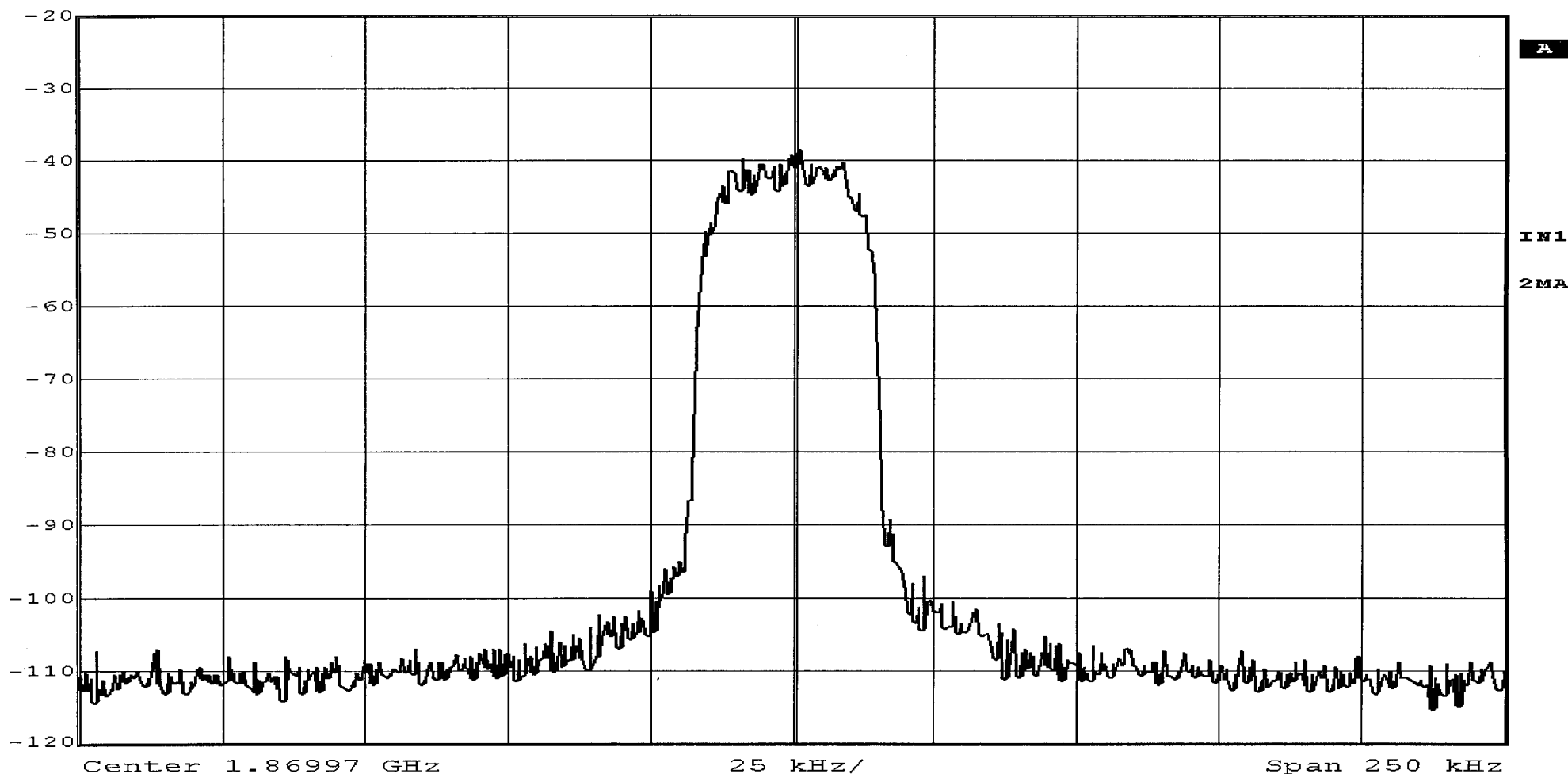
EMISSIONS DATA SHEET

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 uplink input signal		
Notes:	PCS Band: Block D, 1865-1870 MHz	Frequency: 1869.97 MHz	Modulation: TDMA
			Input Signal



Ref Lvl
-20 dBm

RBW	300 Hz	RF Att	10 dB
VBW	300 Hz		
SWT	14 s	Unit	dBm



Date: 23.JUN.2003 10:27:19

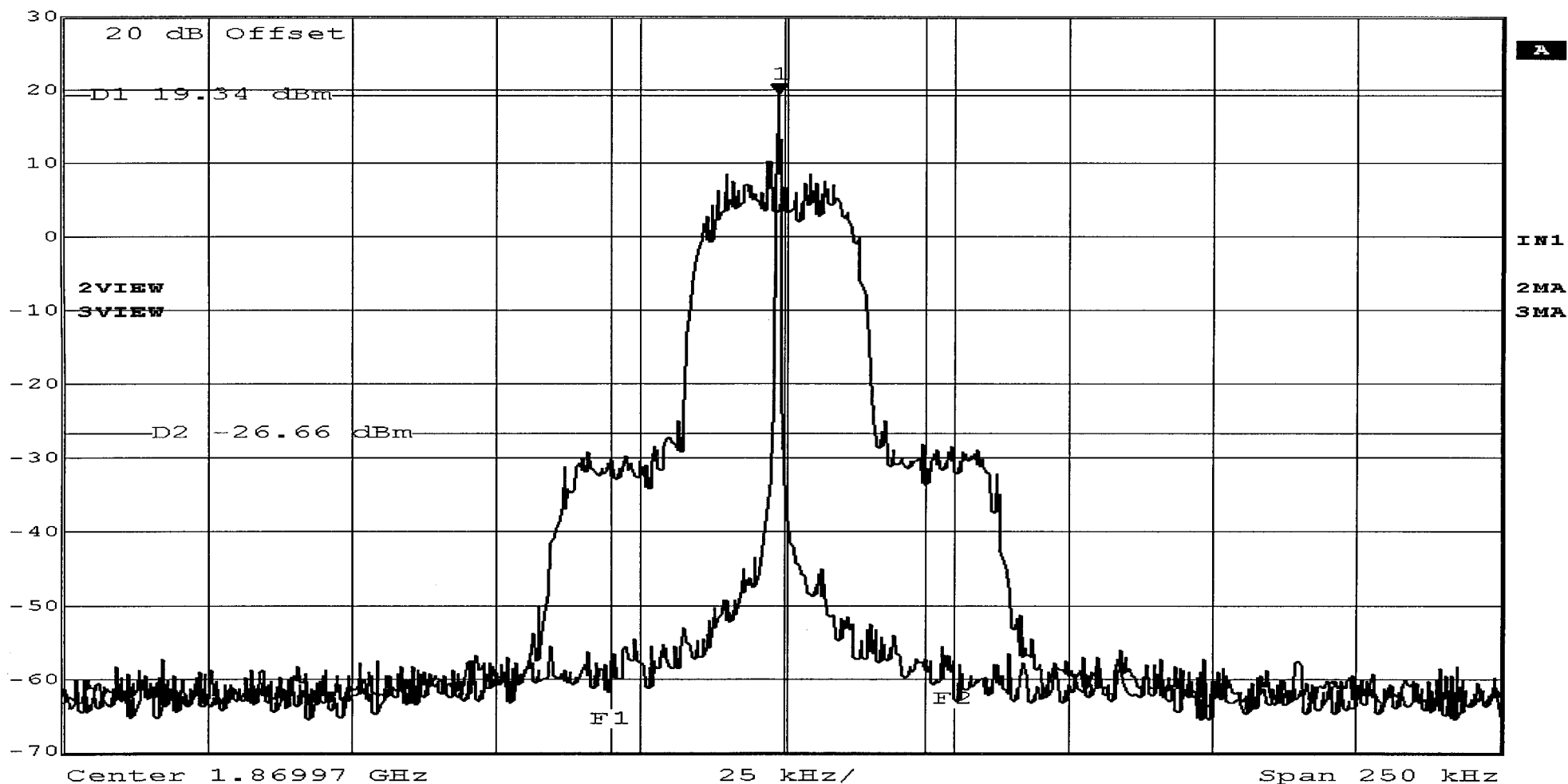
RETLIF TESTING LABORATORIES

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 uplink input signal		
Notes:	PCS Band: Block D, 1865-1870 MHz	Frequency: 1869.97 MHz	Modulation: TDMA
			Output Signal



Marker 1 [T2] RBW 300 Hz RF Att 40 dB
 Ref Lvl 19.34 dBm VBW 300 Hz
 30 dBm 1.86996925 GHz SWT 14 s Unit dBm

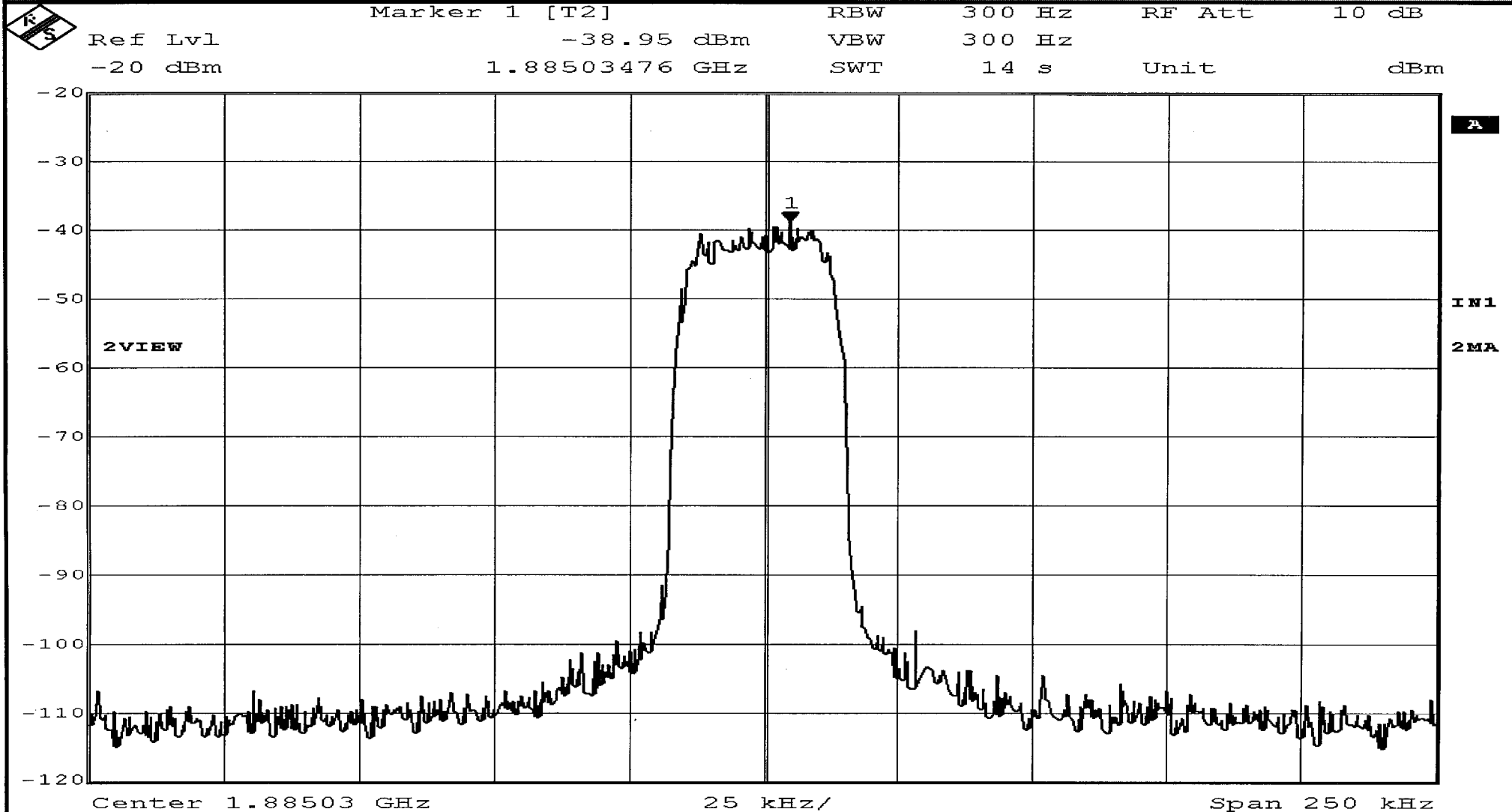


Date: 23.JUN.2003 10:31:11

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 uplink input signal		
Notes:	PCS Band: Block E, 1885-1890 MHz	Frequency: 1885.03 MHz	Modulation: TDMA
			Input Signal

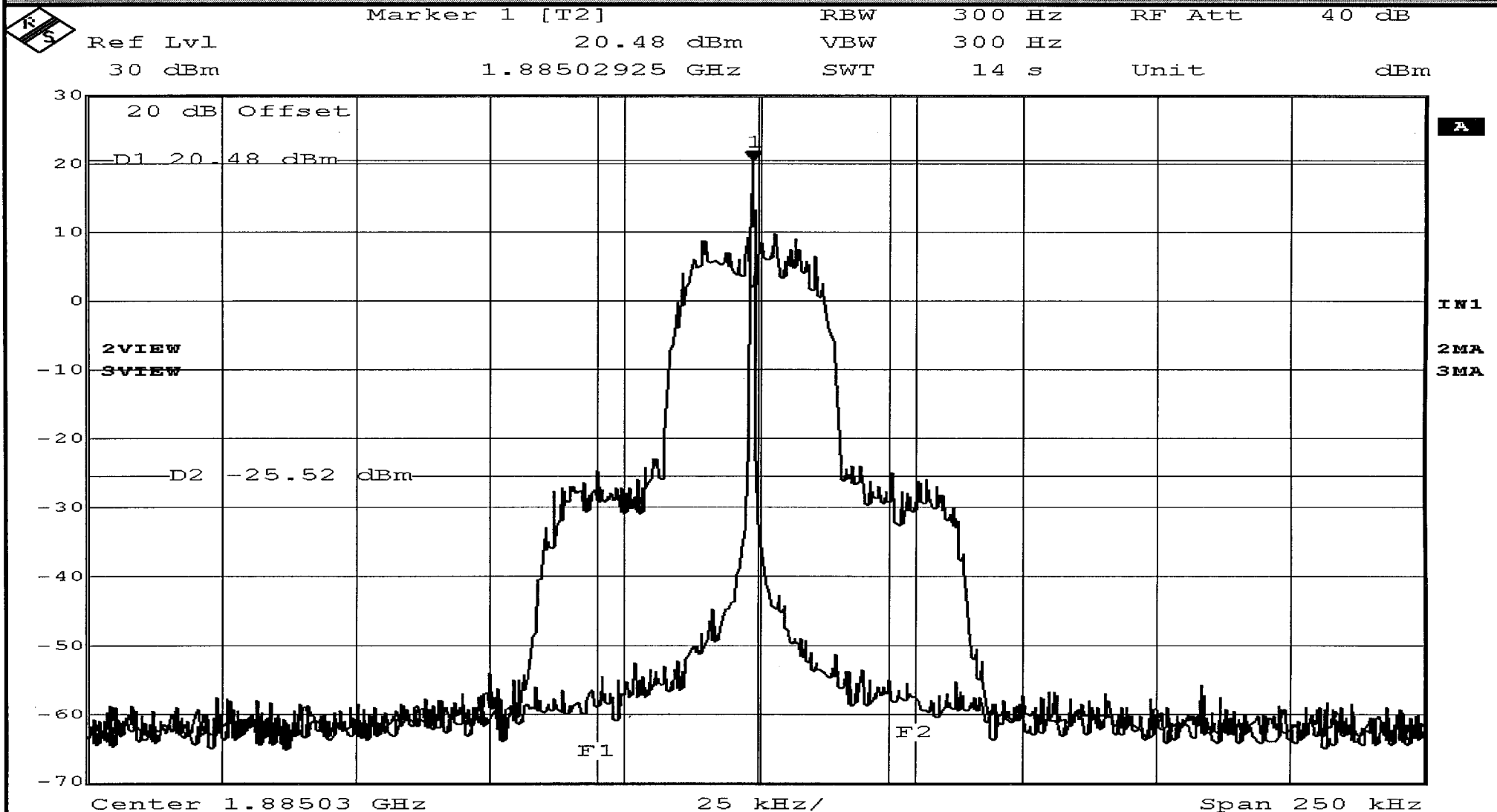


Date: 23.JUN.2003 10:59:24

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 uplink input signal		
Notes:	PCS Band: Block E, 1885-1890 MHz	Frequency: 1885.03 MHz	Modulation: TDMA
			Output Signal

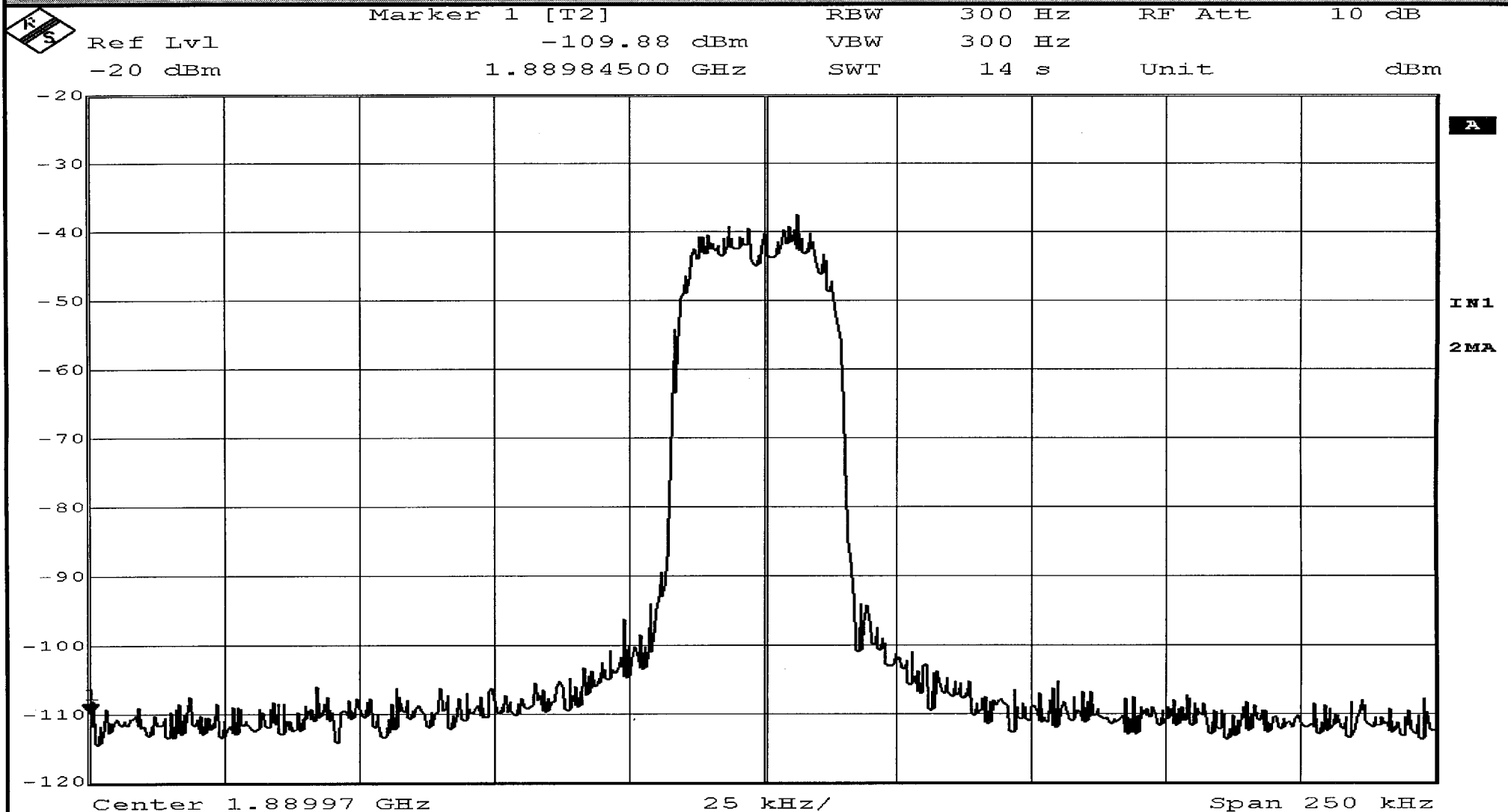


Date: 23.JUN.2003 10:57:42

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 uplink input signal		
Notes:	PCS Band: Block E, 1885-1890 MHz	Frequency: 1889.97 MHz	Modulation: TDMA
			Input Signal

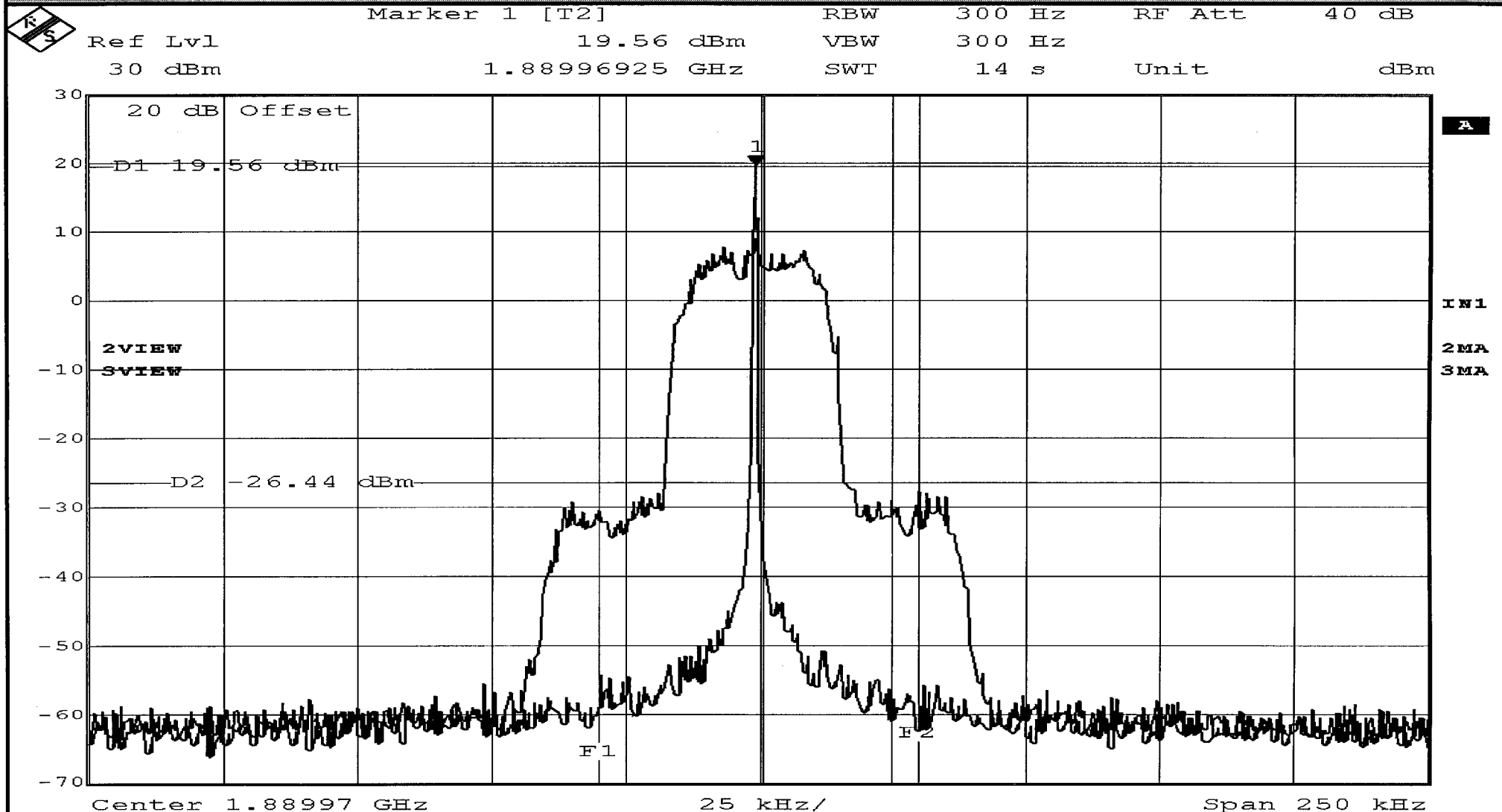


Date: 23.JUN.2003 11:00:33

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 uplink input signal		
Notes:	PCS Band: Block E, 1885-1890 MHz	Frequency: 1889.97 MHz	Modulation: TDMA
			Output Signal
			Job No: R-4132N
			Technician: T. Firkowski
			Date: 6/24/03



Date: 23.JUN.2003 11:02:56

RETLIF TESTING LABORATORIES

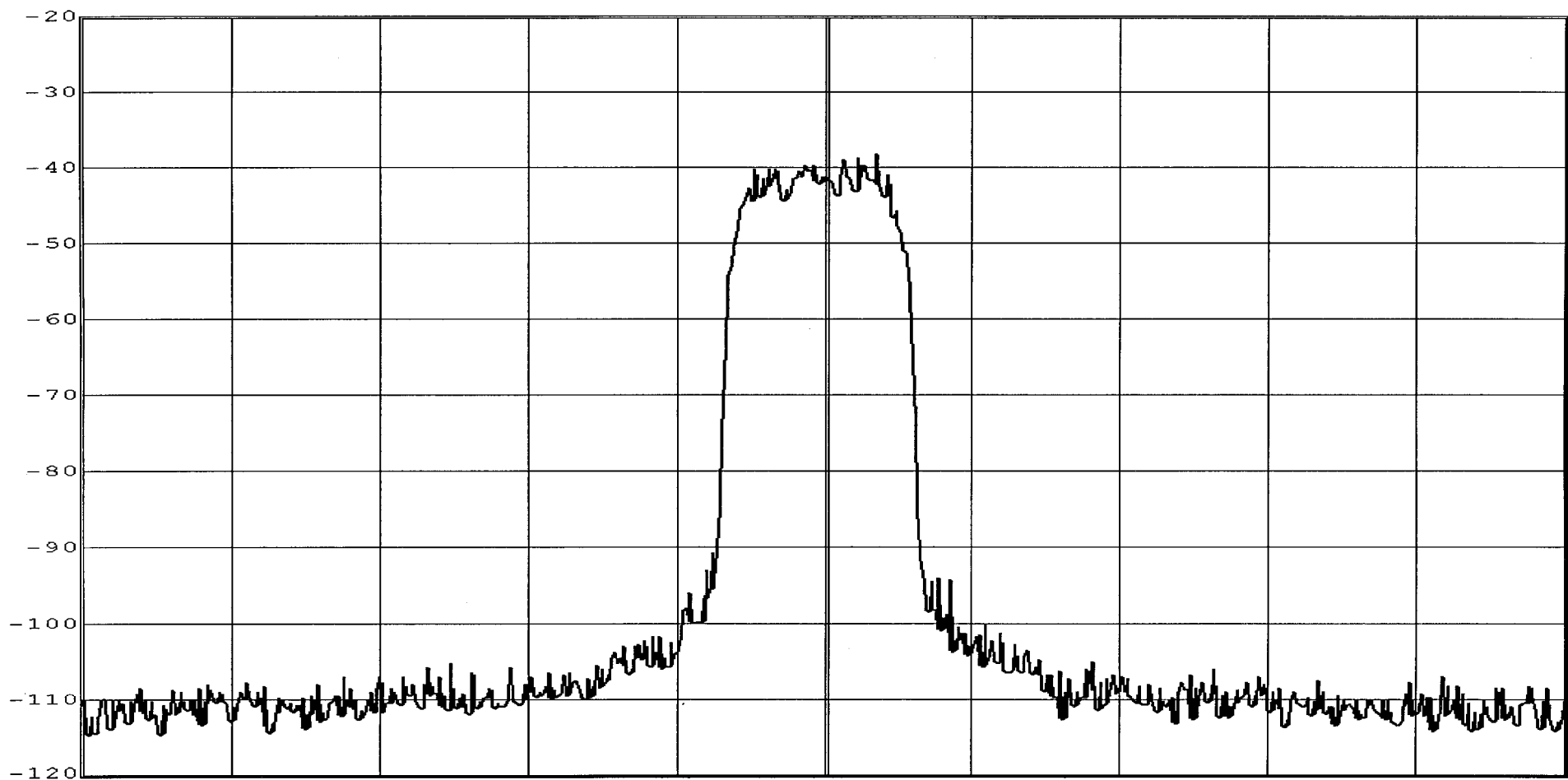
EMISSIONS DATA SHEET

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 uplink input signal		
Notes:	PCS Band: Block F, 1890-1895 MHz Frequency: 1890.03 MHz Modulation: TDMA Input Signal		
		Job No:	R-4132N
		Technician:	T. Firkowski
		Date:	6/24/03



Ref Lvl
-20 dBm

RBW 300 Hz RF Att 10 dB
VBW 300 Hz
SWT 14 s Unit dBm



A

IN1
2MA
3MA

Center 1.89003 GHz

25 kHz/

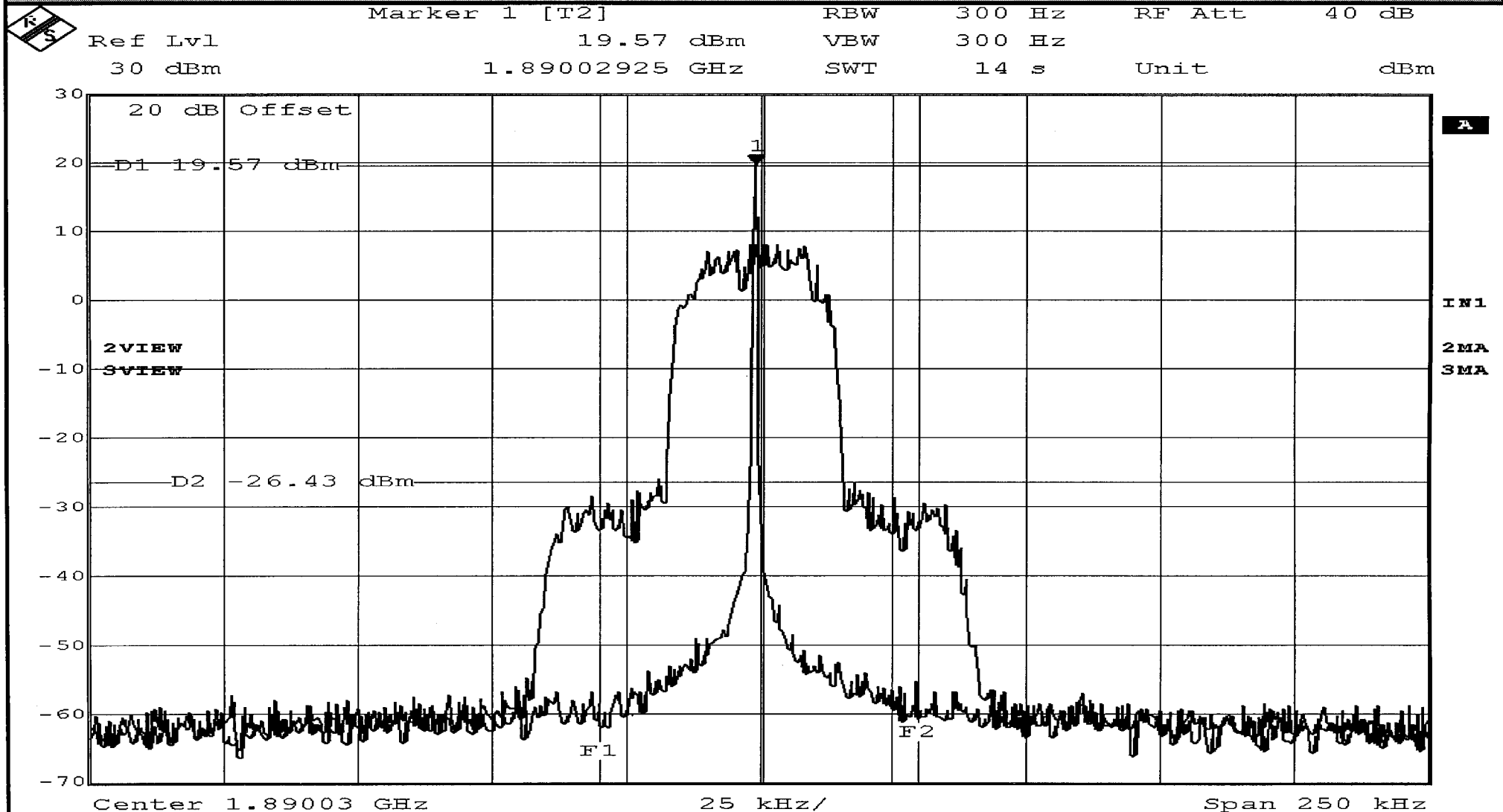
Span 250 kHz

Date: 23.JUN.2003 11:08:12

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 uplink input signal		
Notes:	PCS Band: Block F, 1890-1895 MHz	Frequency: 1890.03 MHz	Modulation: TDMA
			Output Signal



Date: 23.JUN.2003 11:06:53

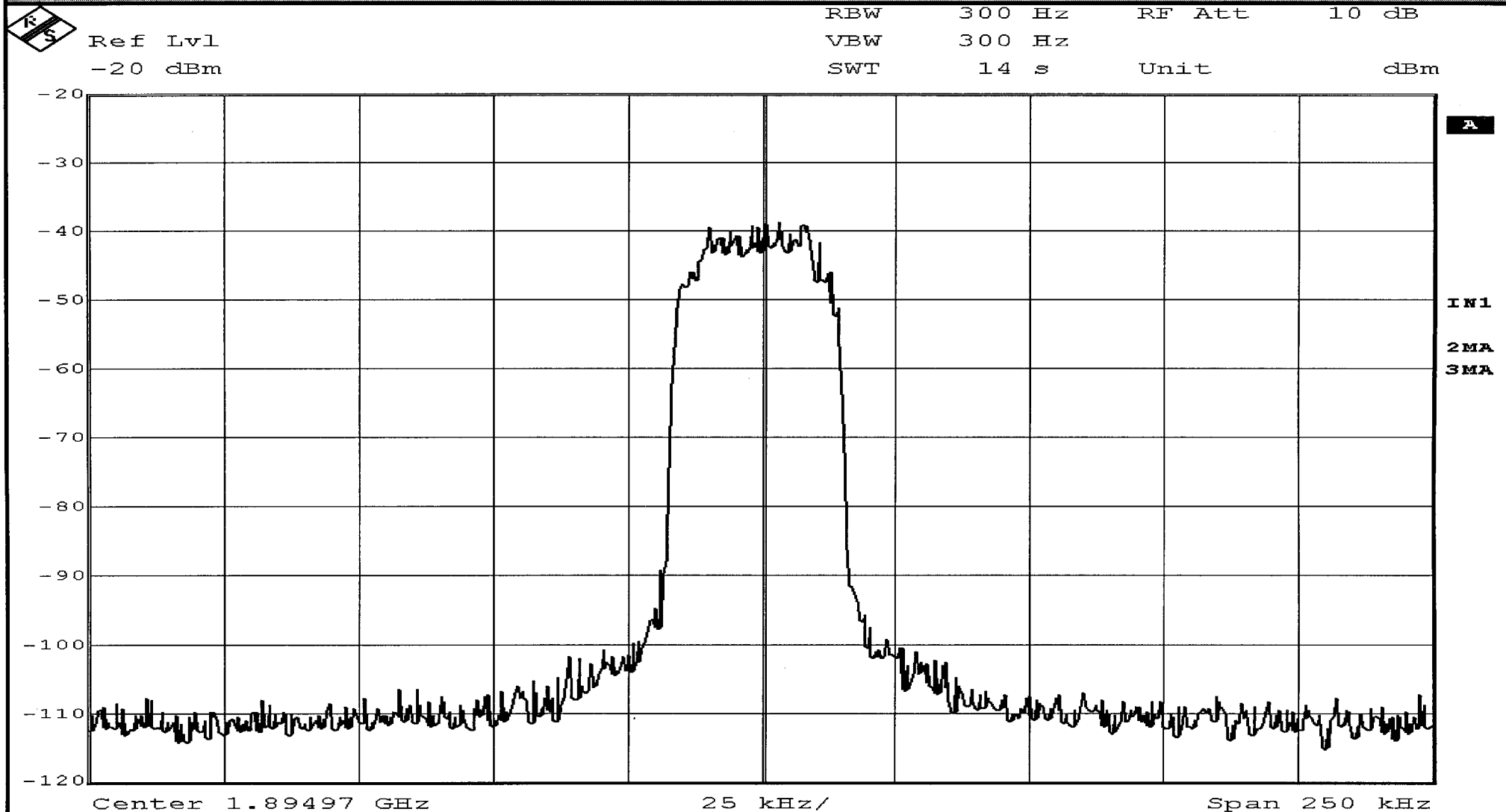
Data Sheet 22 of 144

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 uplink input signal		
Notes:	PCS Band: Block F, 1890-1895 MHz Frequency: 1894.97 MHz Modulation: TDMA Input Signal		

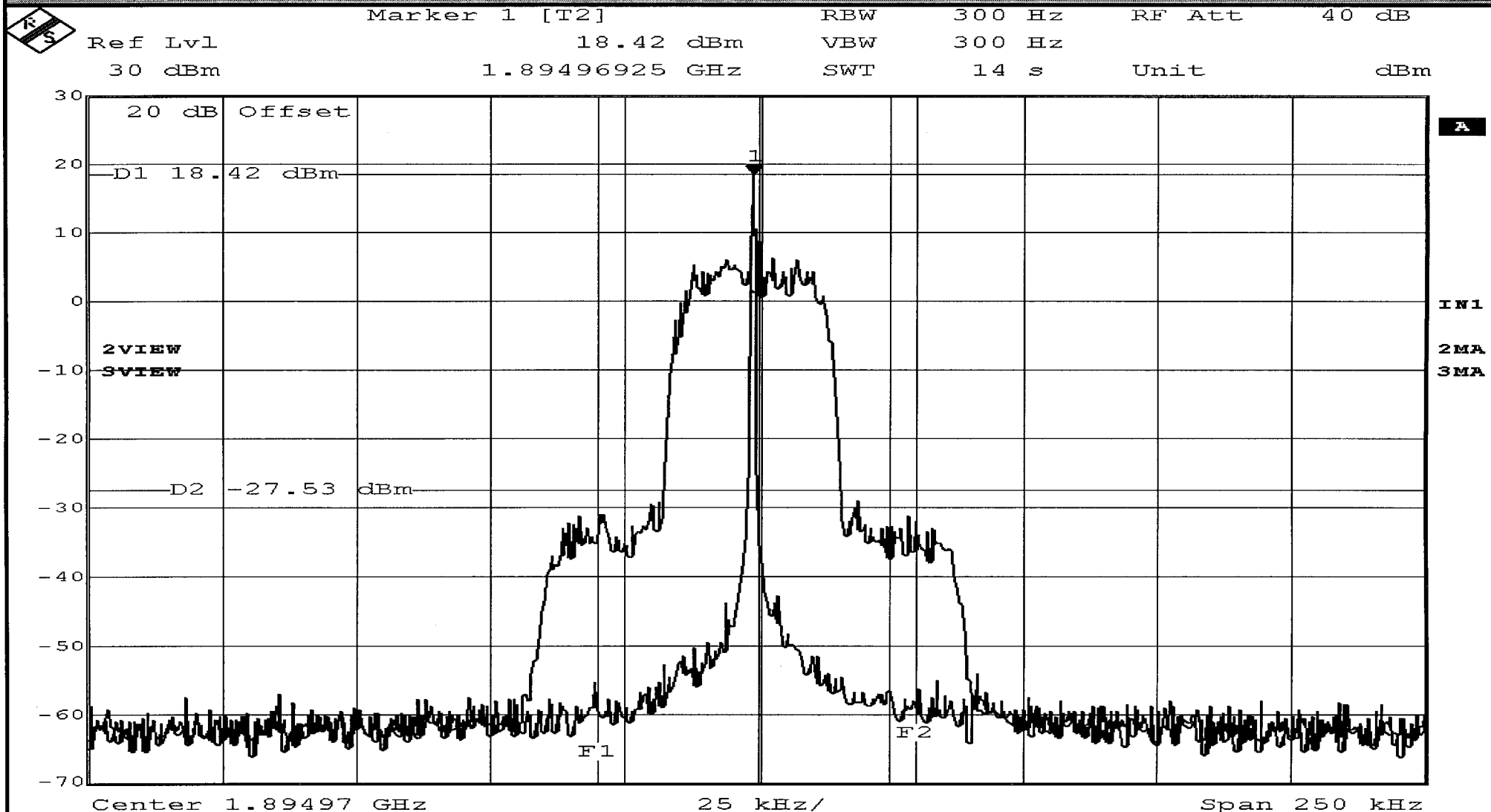


Date: 23.JUN.2003 11:09:36

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 uplink input signal		
Notes:	PCS Band: Block F, 1890-1895 MHz	Frequency: 1894.97 MHz	Modulation: TDMA
			Output Signal



Date: 23.JUN.2003 11:13:29