

Exhibit Q: Misc. Test Data for Model 4120

FCC ID: QYT-4120

Northwest EMC

Version 4.2 Nov, 1996

EUT Name:

4120

Serial Number:

Beta 6 MICN00286

Test Date:

03-27-1998

Tested By:

Bill R./Jim T./Titty T.

Comments:

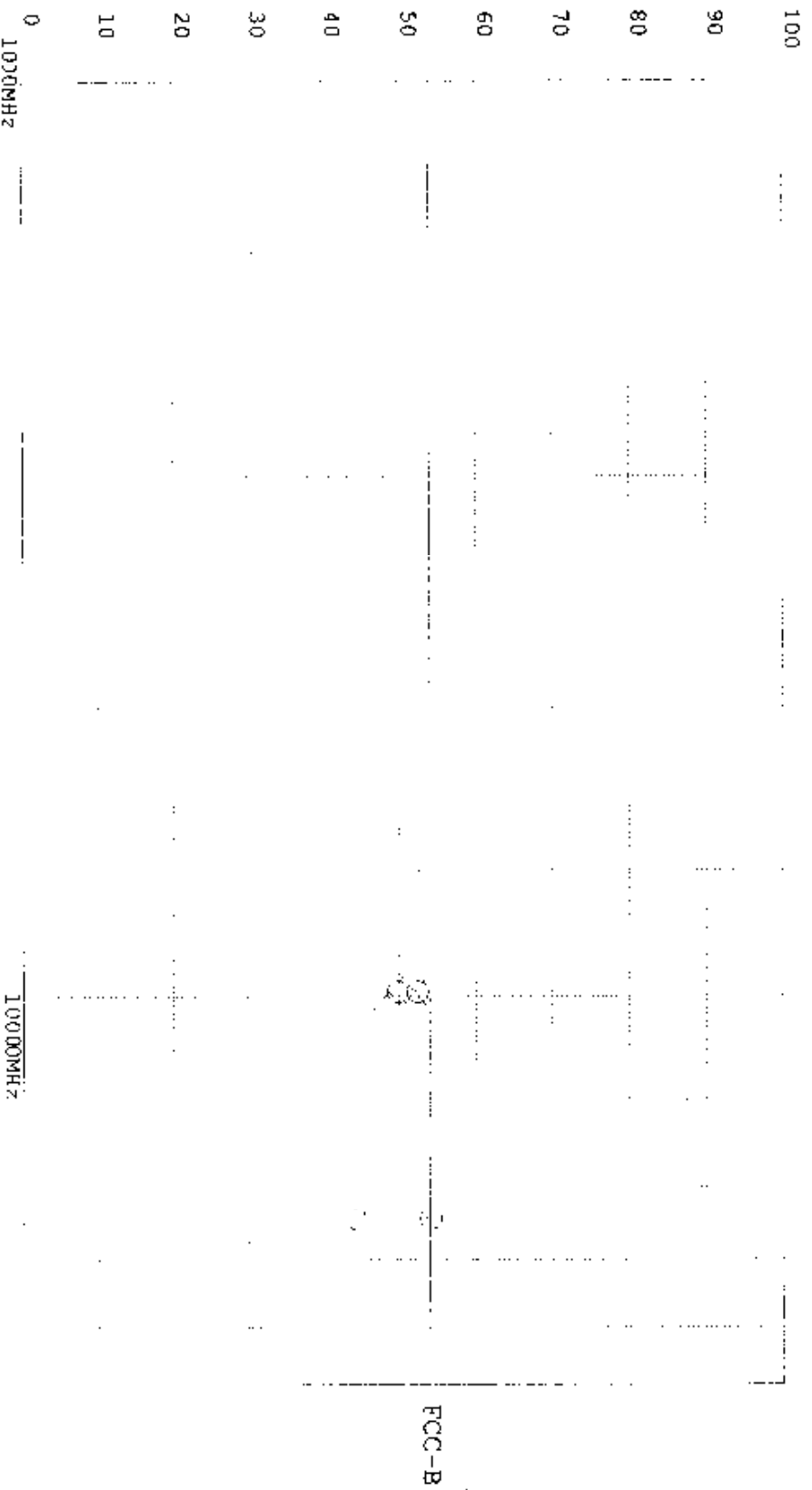
T1, RTN PA, Hi VCO, Not Hopping

FWD Link 700 DAC setting, RTN Link 700 DAC setting.

Horizontal= X
Vertical = 0

dBuV/n

FCC Class B (3 Meter Specification Limit)



Northwest EMC

Version 4.2 Nov, 1996

Equipment Tested: 4120

Job Number: MICN0028

Serial Number: Beta 6

Manufacturer: Micron Communications

Test Date: 03-27-1998

Tested By: Bill R./Jim T./Kitty T.

Comments: T1, RTN PA, Hi VCO, Not Hopping

FWD link 700 DAC setting, RTN link 700 DAC setting.

FCC Class B (3 Meter Specification Limit)

Frequency (MHz)	Ampl. (dBuV)	Detect.	Antfact (dB)	Ant. Pol.	Preamp (dB)	Cable Loss	Adjusted (dBuV/m)	Spec (dBuV/m)	Margin (dB)	Table degree	Antenna height
4960.700	52.6	AV	34.2	VHRN40.2		3.2	49.8	54.0	4.2	100.0	119.0
4960.700	55.2	PK	34.2	VHRN40.2		3.2	52.4	54.0	1.6	100.0	119.0
4960.700	54.8	PK	34.2	HHRN40.2		3.2	52.0	54.0	2.0	98.0	130.0
4960.700	51.4	AV	34.2	HHRN40.2		3.2	48.6	54.0	5.4	98.0	130.0
7441.100	41.6	AV	37.6	HHRN38.8		4.3	44.7	54.0	9.3	30.0	120.0
7441.100	50.5	PK	37.6	ITHRN38.8		4.3	53.6	54.0	0.4	30.0	120.0
7441.100	51.0	PK	37.6	VHRN38.8		4.3	54.1	54.0	-0.1	0.0	117.0
7441.100	40.9	AV	37.6	VHRN38.8		4.3	44.0	54.0	10.0	0.0	117.0

Signature

Temperature 70F 50% Humidity

Northwest EMC

Version 4.2 Nov, 1996

EUT Name: 4120

Serial Number: Beta 6 MICN00284

Test Date: 03-27-1998

Tested By: Bill R./Jim T./Kitty T.

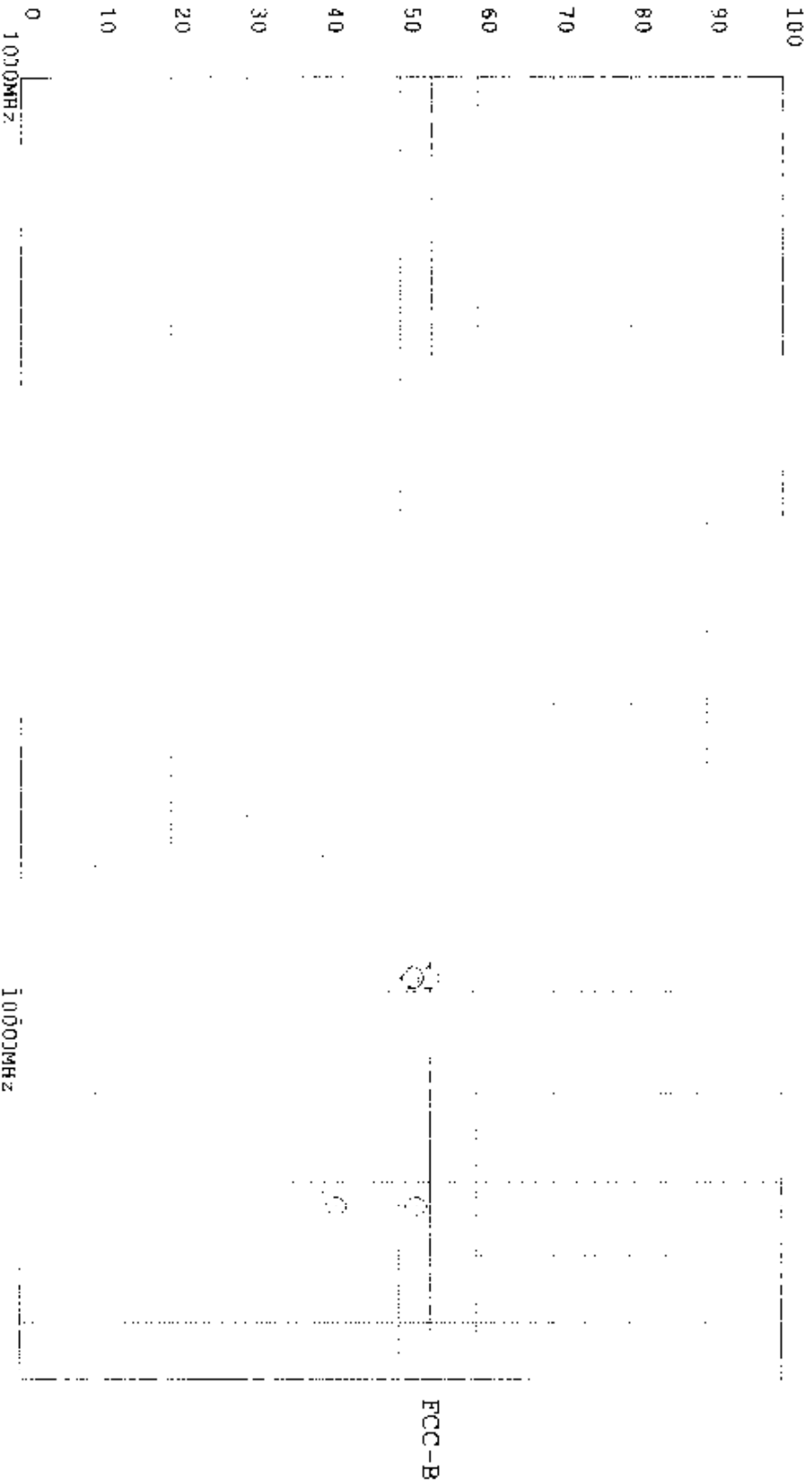
Comments: T1, RTN PA, Mid VCO, Not Hopping

FWD link 700 DAC setting, RTN link 700 DAC setting.

Horizontal= X
Vertical = 0

dBuV/m

FCC Class B (3 Meter Specification Limit)



NorthwestEMC

Version 1.2 Nov. 1996

Equipment Tested: 4120

Job Number: MICN0028

Serial Number: Beta 6

Manufacturer: Micron Communications

Test Date: 03-27-1998

Tested By: Bill R./Jim T./Kitty T.

Comments: T1, RTN PA, Mid VCO, Not Hopping

FWD link 700 DAC setting, RTN link 700 DAC setting.

ECC Class B (3 Meter Specification Limit)

Frequency (MHz)	Ampl (dBuV)	Detect.	ArtFact (dB)	Ant. Preamp Pol. (dB)	Cable Loss (dBuV/m)	Adjusted Spec (dBuV/m)	Margin (dB)	Table degree	Antenna height	
4883.800	55.4	PK	34.1	HHRN40.2	3.1	52.4	54.0	1.6	237.0	130.0
4883.800	53.2	AV	34.1	HHRN40.2	3.1	50.2	54.0	1.8	237.0	130.0
4883.800	54.7	AV	34.1	VHRN40.2	3.1	51.7	54.0	2.3	120.0	110.0
4883.800	56.7	PK	34.1	VHRN40.2	3.1	53.7	54.0	0.3	120.0	110.0
7325.700	49.7	PK	37.3	VHRN39.0	4.2	52.2	54.0	1.8	342.0	123.0
7325.700	39.3	AV	37.3	VHRN39.0	4.2	41.8	54.0	12.2	342.0	123.0
7325.700	39.3	AV	37.3	HHRN39.0	4.2	41.8	54.0	12.2	30.0	130.0
7325.700	49.8	PK	37.3	HHRN39.0	4.2	52.3	54.0	1.7	30.0	130.0

Signature

Temperature 70F 50% Humidity

Northwest EMC

Version 4.2 Nov, 1996

IUT Name:

4120

Serial Number:

Beta 6 MICN0021C

Test Date:

03-27-1998 15:35:04

Tested By:

Kitty Tam

Comments:

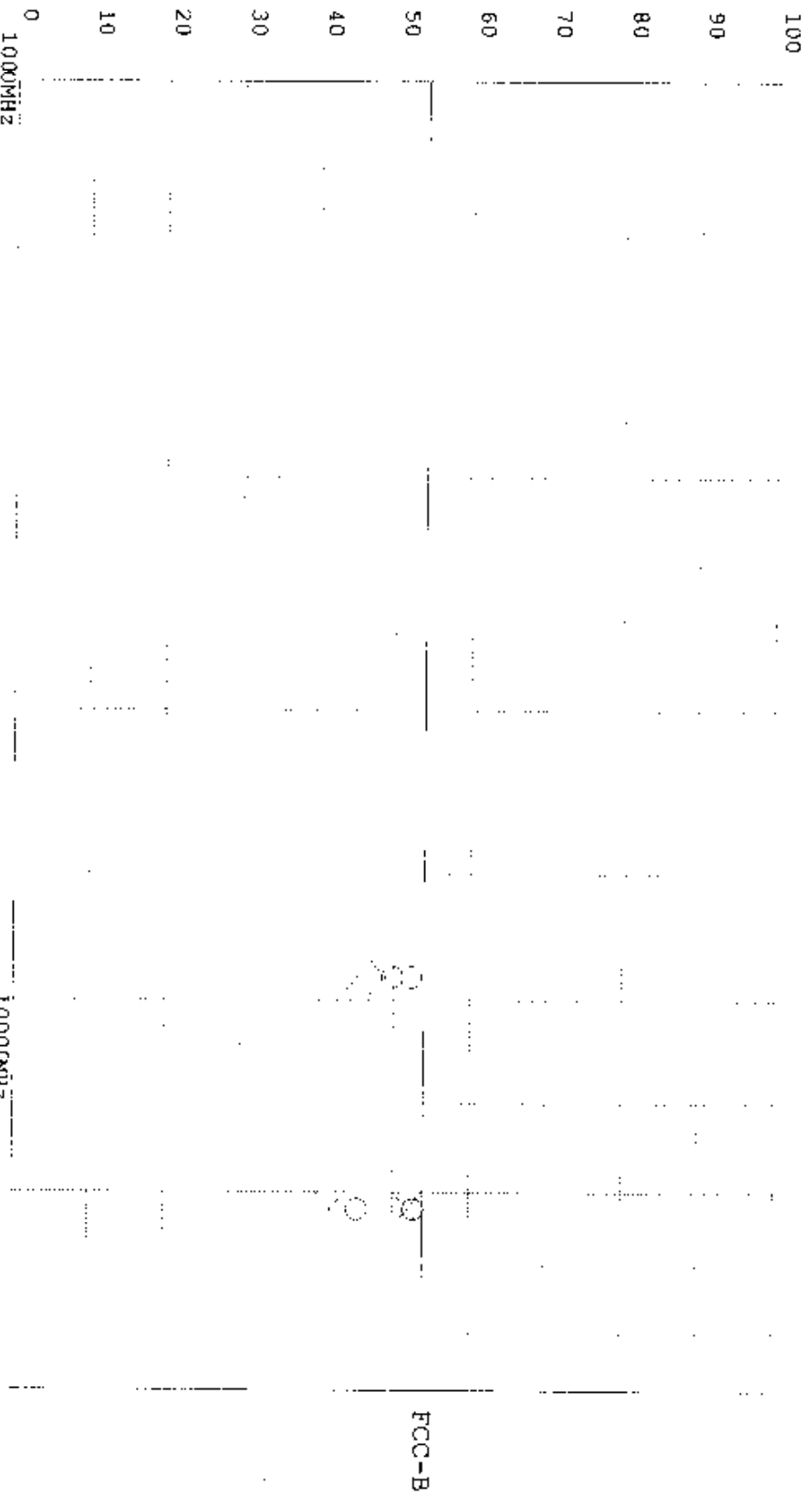
T1, RTN PA, LO VCO, Not Hopping

FWD link 700 DAC setting, RTN link 700 DAC setting.

Horizontal= X
Vertical = 0

dBuV/m

FCC Class B (3 Meter Specification Limit)



Northwest EMC

Version 4.2 Nov, 1996

Equipment Tested: 4120

Job Number: MICN0028

Serial Number: Beta 6

Manufacturer: Micron Communications

Test Date: 03-27-1998 15:35:04

Tested By: Kitty Tam

Comments: T1, RTN PA, LO VCO, Not Hopping

FWD link 700 DAC setting, RTN link 700 DAC setting.

FCC Class B (3 Meter Specification Limit)

Frequency (MHz)	Ampl. (dBuV)	Detect.	AntFact (dB)	Ant. Pol.	Preamp (dB)	Cable Loss	Adjusted (dBuV/m)	Spec (dBuV/m)	Margin (dB)	Table degree	Antenna height
4807.100	52.9	AV	34.0	VHRR	40.2	3.1	49.8	54.0	42	125.0	108.0
4807.100	51.9	PK	34.0	HHRR	40.2	3.1	48.8	54.0	52	255.0	122.0
4807.100	55.4	PK	34.0	VHRR	40.2	3.1	52.3	54.0	17	125.0	108.0
4807.100	48.3	AV	34.0	HHRR	40.2	3.1	45.2	54.0	88	255.0	122.0
7210.580	43.3	AV	36.9	VHRR	39.1	4.2	45.3	54.0	87	257.0	106.0
7210.580	50.7	PK	36.9	VHRR	39.1	4.2	52.7	54.0	13	257.0	106.0
7210.580	39.8	AV	36.9	HHRR	39.1	4.2	41.8	54.0	122	343.0	124.0
7210.580	49.9	PK	36.9	HHRR	39.1	4.2	51.9	54.0	21	343.0	124.0

Signature

Temperature: 70F 50% Humidity

EUT Name:
Serial Number:
Test Date:
Tested By:
Comments:

4120

Northwest EMC

Beta 6 MICN0286

03-27-1998 11:52:47

Ritty Tam

T1, FWD PA, Lo Band, Not Hopping

FWD link 700 DAC setting, RTN link 800 DAC setting.

Horizontal = X
Vertical = 0

Version 4.2 Nov, 1996

dBu/m

100

90

80

70

60

50

40

30

20

10

0
1000MHz

FCC Class B (3 Meter Specification Limit)

10000MHz

FCC-B

Version 4.2 Nov, 1996

Equipment Tested: 4/20

Beta 6

Micron Communications

03-27-1998 14:52:47

Kitty's Jam

TI, FWDPA, Lo Band, Not Hopping

FWD link 700 DAC setting, RTN link 800 DAC setting

FCC Class B (3 Meter Specification Limit)

Frequency (MHz)	Ampl. (dBuV)	Detect.	AntFact (dB)	Ant. Preamp Pol. (dB)	Cable Loss (dBuV/m)	Adjusted Spec (dBuV/m)	Margin (dB)	Table degree	
4883.775	48.1	PK	34.1	HHEN40.2	3.1	45.1	54.0	8.9	250.0
4883.775	46.8	AV	34.1	HHEN40.2	3.1	43.8	54.0	10.2	250.0
4883.860	47.7	AV	34.1	VHEN40.2	3.1	44.7	54.0	9.3	55.0
4883.860	49.4	PK	34.1	VHEN40.2	3.1	46.4	54.0	7.6	55.0
7325.800	37.2	AV	37.3	HHEN39.0	4.2	39.7	54.0	14.3	30.0
7325.800	43.2	PK	37.3	VHEN39.0	4.2	45.7	54.0	8.3	100.0
7325.800	43.0	PK	37.3	HHEN39.0	4.2	45.5	54.0	8.5	30.0
7325.800	39.0	AV	37.3	VHEN39.0	4.2	41.5	54.0	12.5	100.0
9757.600	35.4	PK	39.3	HHEN43.3	5.0	36.4	54.0	17.6	30.0
9757.600	26.9	AV	39.3	HHEN43.3	5.0	27.9	54.0	26.1	30.0
9757.600	27.5	AV	39.3	VHEN43.3	5.0	28.5	54.0	25.5	100.0
9757.600	36.7	PK	39.3	VHEN43.3	5.0	37.7	54.0	16.3	100.0

noise floor noise floor noise floor
noise floor noise floor noise floor
noise floor noise floor noise floor

Temperature 70F 50% Humidity

Northwest EMC

Version 4.2 Nov, 1996

Equipment Tested: 4/20
Serial Number: Beta 6
Manufacturer: Micron Communications
Test Date: 03-27-1998 14:52:47
Tested By: Kitty Tan
Comments: T1, FWD PA, Lo Band, Not Hopping
FWD link 700 DAC setting, RTN link 800 DAC setting.

Job Number: MICN0028

FCC Class B (3 Meter Specification Limit)

Frequency (MHz)	Ampl. (dBuV)	Detect	AntFact (dB)	Ant. Pol.	Preamp (dB)	Cable Loss (dBuV/m)	Adjusted Spec (dBuV/m)	Margin (dB)	Table degree	Antenna height
4883.775	48.1	PK	34.1	HHEN40.2	3.1	45.1	54.0	8.9	250.0	125.0
4883.775	46.8	AV	34.1	HHEN40.2	3.1	43.8	54.0	10.2	250.0	125.0
4883.860	47.7	AV	34.1	VHEN40.2	3.1	44.7	54.0	9.3	55.0	125.0
4883.860	49.4	PK	34.1	VHEN40.2	3.1	46.4	54.0	7.6	55.0	125.0
7325.800	37.2	AV	37.3	HHEN39.0	4.2	39.7	54.0	14.3	30.0	132.0
7325.800	43.2	PK	37.3	VHEN39.0	4.2	45.7	54.0	8.3	100.0	126.0
7325.800	43.0	PK	37.3	HHEN39.0	4.2	45.5	54.0	8.5	30.0	132.0
7325.800	39.0	AV	37.3	VHEN39.0	4.2	41.5	54.0	12.5	100.0	126.0
9767.600	35.4	PK	39.3	HHEN43.3	5.0	36.4	54.0	17.6	30.0	132.0
9767.600	26.9	AV	39.3	HHEN43.3	5.0	27.9	54.0	26.1	30.0	132.0
9767.600	27.5	AV	39.3	VHEN43.3	5.0	28.5	54.0	25.5	100.0	126.0
9767.600	36.7	PK	39.3	VHEN43.3	5.0	37.7	54.0	16.3	100.0	126.0

Signature

Temperature 70F 50% Humidity

Northwest EMC

Version 4.2 NOV, 1996

SUT Name: 4021

Serial Number: Beta 5 MICN0028

Horizontal= X
Vertical = 0

Test Date: 03-27-1998

Tested By: Bill R./Jim T./Kitty T.

Comments: T1, RTN PA, Hi VCO, Not Hopping

FWD link 700 DAC setting, RTN link 700 DAC setting.

dBuV/m

FCC Class B (3 Meter Specification Limit)



Continued

Northwest EMC

Version 4.2 Nov, 1996

Equipment Tested: 4021
Serial Number: Beta 6
Manufacturer: Micron Communications
Test Date: 03-27-1996
Tested By: Bill R./Jim T./Kitty T.
Comments: T1, RTN PA, Hi VCO, Not Hopping
FWD link 700 DAC setting, RTN link 700 DAC setting.

Job Number: MICN0028

FCC Class B (3 Meter Specification Limit)

Frequency (MHz)	Ampl (dBuV)	Detect.	ArtFact (dB)	Ant. Pol.	Preamp (dB)	Cable Loss (dBuV/m)	Adjusted Spec (dBuV/m)	Margin (dB)	Table degree	Antenna height
4960.700	57.8	AV	34.2	VHRN40.2	3.2	55.0	54.0	-1.0	100.0	119.0 800 RTN Link DAC *
4960.700	52.6	AV	34.2	VHRN40.2	3.2	49.8	54.0	-4.2	100.0	119.0
4960.700	55.2	PK	34.2	VHRN40.2	3.2	52.4	54.0	1.6	100.0	119.0
4960.700	54.8	PK	34.2	HHRN40.2	3.2	52.0	54.0	2.0	98.0	130.0
4960.700	51.4	AV	34.2	HHRN40.2	3.2	48.6	54.0	5.4	98.0	130.0
7441.100	41.6	AV	37.6	HHRN38.8	4.3	44.7	54.0	9.3	30.0	120.0
7441.100	50.5	PK	37.6	IHRN38.8	4.3	53.6	54.0	0.4	30.0	120.0
7441.100	51.0	PK	37.6	VHRN38.8	4.3	54.1	54.0	-0.1	0.0	117.0
7441.100	40.9	AV	37.6	VHRN38.8	4.3	44.0	54.0	10.0	0.0	117.0

Signature

Temperature 70° 50% Humidity

Evaluation

Version 4.2 NOV, 1996

Northwest SMC

EUT Name: 4021

Serial Number: Beta 5 MICN0028c

Test Date: 03-27-1998

Tested By: Kitty Tam

Comments: T1, RTN PA, LO VCO, Not Hopping

FWD link 700 DAC setting, RTN link 700 DAC setting.

Horizontal = X
Vertical = 0

dBuV/m

FCC Class B (3 Meter Specification Limit)



Northwest EMC

Version 4.2 Nov., 1996

Equipment Tested: 4021

Job Number: MICN00028

Serial Number: Beta 6

Manufacturer: Micron Communications

Test Date: 03-27-1998

Tested By: Kitty Tam

Comments: T1, RTN PA, LO VCO, Not Hopping

FWD link 700 DAC setting, RTN link 700 DAC setting.

FCC Class B (3 Meter Specification Limit)

Frequency (MHz)	Ampl. (dBuV)	Detect.	AnfAct (dB)	Ant. Pol.	Frcamp (dB)	Cable Loss	Adjusted (dBuV/m)	Spec (dBuV/m)	Margin (dB)	Table degree	Antenna height
4807.100	52.9	AV	34.0	VHRR40.2		3.1	49.8	54.0	4.2	125.0	108.0 700 RTN link DAC
4807.100	55.4	PK	34.0	VHRR40.2		3.1	52.3	54.0	1.7	125.0	108.0 700 RTN link DAC *
4807.100	56.9	AV	34.0	VHRR40.2		3.1	53.8	54.0	0.2	125.0	120.0 800 RTN link DAC
4807.100	59.0	PK	34.0	VHRR40.2		3.1	55.9	54.0	-1.9	125.0	120.0 800 RTN link DAC *
4807.100	48.3	AV	34.0	HHRN40.2		3.1	45.2	54.0	8.8	255.0	122.0 700 RTN link DAC
4807.100	51.9	PK	34.0	HHRN40.2		3.1	48.8	54.0	5.2	255.0	122.0 700 RTN link DAC
7210.580	47.0	AV	36.9	VHRR39.1		4.2	49.0	54.0	5.0	343.0	105.0 800 RTN link DAC
7210.580	43.3	AV	36.9	VHRR39.1		4.2	45.3	54.0	8.7	257.0	106.0 700 RTN link DAC
7210.580	49.0	PK	35.9	VHRR39.1		4.2	51.0	54.0	3.0	343.0	105.0 800 RTN link DAC
7210.580	50.7	PK	35.9	VHRR39.1		4.2	52.7	54.0	1.3	257.0	106.0 700 RTN link DAC
7210.580	39.8	AV	35.9	HHRN39.1		4.2	41.8	54.0	12.2	343.0	124.0 700 RTN link DAC
7210.580	49.9	PK	35.9	HHRN39.1		4.2	51.9	54.0	2.1	343.0	124.0 700 RTN link DAC

Signature

Temperature 70F 50% Humidity

EUT Name: 4/20 Northwest EMC
Serial Number: Beta 6 MICN00286
Test Date: 03-27-1998
Tested By: Bill R./Jim T./Kitty T.
Comments: T6, FWD PA, Lo band, Not Hopping
FWD link 700 DAC setting, RTN link 700 DAC setting.

Horizontal = X
Vertical = 0

Version 4.2 Nov, 1996

dBuV/n FCC Class B (3 Meter Specification Limit)



Northwest EMC

Version 1.2 Nov, 1996

Job Number: MICN0028

Equipment Tested: 4120

Serial Number: Beta 6

Manufacturer: Micron Communications

Test Date: 03-27-1998

Tested By: Bill R./Jim T./Kitty T.

Comments: T6, FWD PA, Lo Band, Not Hopping

FWD link 700 DAC setting, RTN link 700 DAC setting.

FCC Class B (3 Meter Specification Limit)

Frequency (MHz)	Ampl. (dBuV)	Detect.	AntFact (dB)	Ant. Pol.	Preamp (dB)	Cable Loss	Adjusted (dBuV/m)	Spec (dBuV/m)	Margin (dB)	Table degree	Antenna height
4883.860	46.3	AV	34.1	VHRR40.2		3.1	43.3	54.0	16.7	127.0	120.0
4883.860	52.0	PK	34.1	VHRR40.2		3.1	49.0	54.0	5.0	127.0	120.0
4883.860	45.3	AV	34.1	HHRR40.2		3.1	42.3	54.0	11.7	110.0	140.0
4883.860	51.4	PK	34.1	HHRR40.2		3.1	48.4	54.0	5.6	110.0	140.0
7325.800	40.1	AV	37.3	HHRR39.0		4.2	42.6	54.0	11.4	35.0	130.0
7325.800	50.2	PK	37.3	HHRR39.0		4.2	52.7	54.0	1.3	35.0	130.0
7325.800	39.5	AV	37.3	VHRR39.0		4.2	42.0	54.0	12.0	270.0	120.0
7325.800	49.7	PK	37.3	VHRR39.0		4.2	52.2	54.0	1.8	270.0	120.0

Signature

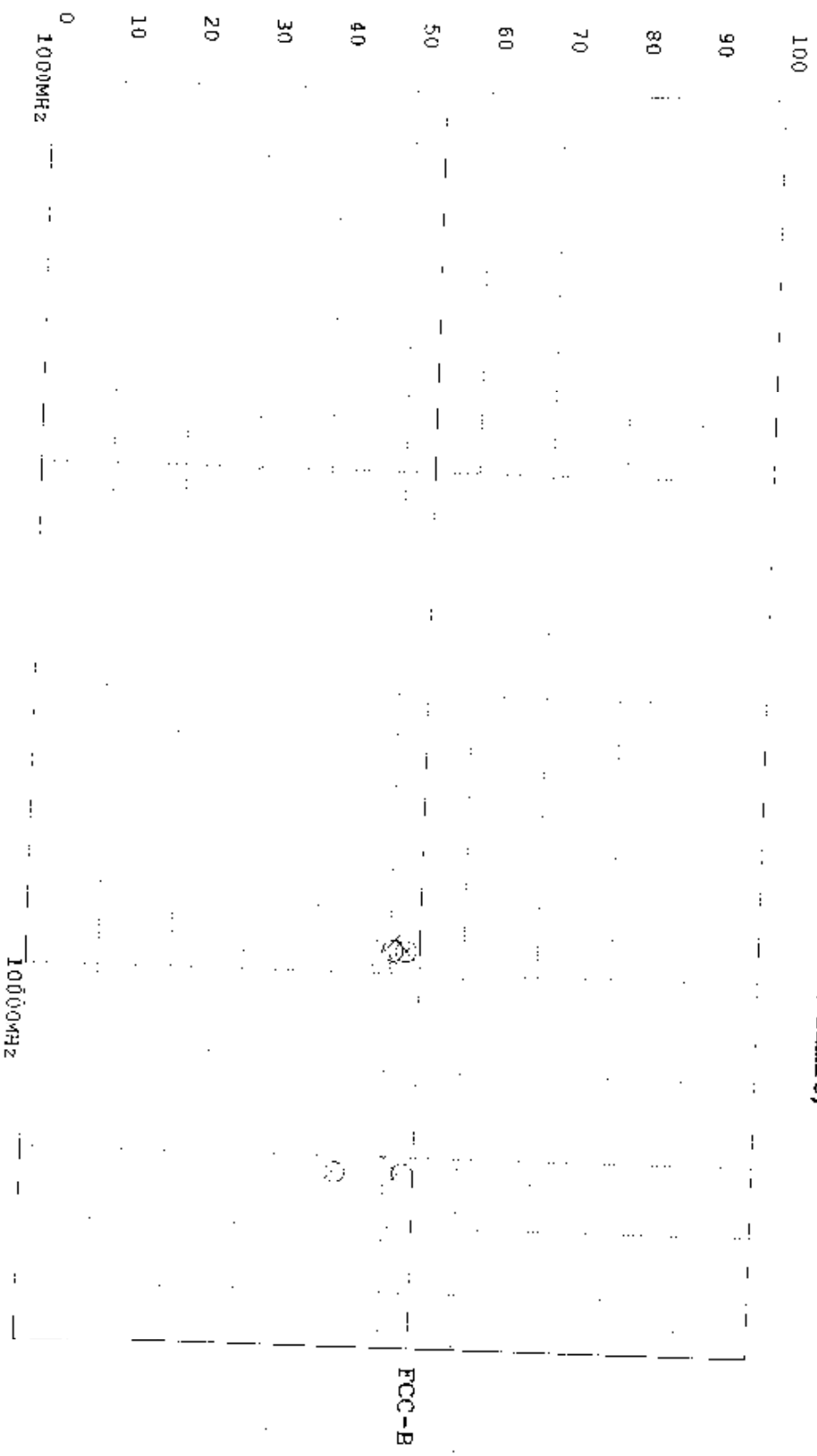
Temperature 70F 50% Humidity

EUT Name: 4/20 Northwest EMC
Serial Number: Beta 6 MICN0028 h
Test Date: 03-27-1998
Tested By: Bill R./Jim T./Kitty T.
Comments: T6, RTN PA, Lo VCO, Not Hopping
FWD link 700 DAC setting, RTN link 700 DAC setting.

Horizontal = X
Vertical = 0

Version 4.2 Nov, 1996

dBuV/m
FCC Class B (3 Meter Specification limit)



Northwest EMC

Version 4.2 Nov, 1996

Job Number: MICN0028

Equipment Tested: 4/20
 Serial Number: Beta 6
 Manufacturer: Micron Communications
 Test Date: 03-27-1998
 Tested By: Bill R./Jim T./Kitty T.
 Comments: T6, RTNPA, Lo VCO, Not Hopping
 FWD link 700 DAC setting, RTN link 700 DAC setting.

FCC Class B (3 Meter Specification Limit)

Frequency (MHz)	Ampl. (dBuV)	Detect.	AntFact (dB)	Ant. Pol.	Preamp (dB)	Cable Loss (dBuV/m)	Adjusted Spec (dBuV/m)	Margin (dB)	Table degree	Antenna height	
4807.100	55.3	PK	34.0	HHRN	40.2	3.1	52.2	54.0	1.8	103.0	140.0
4807.100	52.4	AV	34.0	HHRN	40.2	3.1	49.3	54.0	4.7	103.0	140.0
4807.100	53.4	AV	34.0	VHTRN	40.2	3.1	50.3	54.0	3.7	55.0	120.0
4807.100	55.2	PK	34.0	VHTRN	40.2	3.1	52.1	54.0	1.9	55.0	120.0
7210.580	41.4	AV	36.9	VHTRN	39.1	4.2	43.4	54.0	10.6	273.0	120.0
7210.580	50.5	PK	36.9	VHTRN	39.1	4.2	52.5	54.0	1.5	273.0	120.0
7210.580	40.9	AV	36.9	HHRN	39.1	4.2	42.9	54.0	11.1	347.0	140.0
7210.580	49.8	PK	36.9	HHRN	39.1	4.2	51.8	54.0	2.2	347.0	140.0

Signature _____

Temperature 70F 50% Humidity

Northwest EMC

Version 4.2 Nov, 1996

Horizontal = X
Vertical = 0

EUT Name:
Serial Number:
Test Date:
Tested By:
Comments:

4/20
Beta 6 MICN00188
03-27-1998
Bill R./Jim T./Kitty T.
T6, ETN PA, Mid VCO, Not Hopping
FWD link 700 DAC setting, RTN link 700 DAC setting.

dBuV/m

FCC Class B (3 Meter Specification Limit)



Northwest EMC

Version 4.2 Nov, 1996

Job Number: MLCN0028

Equipment Tested: 4/20
 Serial Number: Beta 6
 Manufacturer: Micron Communications
 Test Date: 03-27-1998
 Tested By: Bill R./Jim T./Kitty T.
 Comments: T6, RTN PA, Mid VCO, Not Hopping
 FWD link 700 DAC setting, RTN link 700 DAC setting.

FCC Class B (3 Meter Specification Limit)

Frequency (MHz)	Ampl. (dBuV)	Detect.	AntFact (dB)	Ant. Preamp Pol. (dB)	Cable Adjusted Loss (dBuV/m)	Spec (dBuV/m)	Margin (dB)	Table degree	Antenna height	
4883.800	56.2	PK	34.1	VHEN40.2	3..	53.2	54.0	0.8	55.0	120.0
4883.800	54.2	AV	34.1	VHEN40.2	3..	51.2	54.0	2.8	55.0	120.0
4883.800	51.5	AV	34.1	HHEN40.2	3..	48.5	54.0	5.5	56.0	140.0
4883.800	54.3	PK	34.1	IHHEN40.2	3..	51.3	54.0	2.7	56.0	140.0
7325.700	50.3	PK	37.3	HHEN39.0	4.2	52.8	54.0	1.2	350.0	130.0
7325.700	39.9	AV	37.3	HHEN39.0	4.2	42.4	54.0	11.6	350.0	130.0
7325.700	40.4	AV	37.3	VHEN39.0	4.2	42.9	54.0	11.1	87.0	120.0
7325.700	50..	PK	37.3	VHEN39.0	4.2	52.6	54.0	1.4	87.0	120.0

Signature

Temperature 70F 50% Humidity

Northwest EMC

Version 4.2 Nov, 1996

EUT Name: 4/20

Serial Number: Beta 6 MICN00287

Test Date: 03-27-1998

Tested By: Bill R./Jim T./Kitty T.

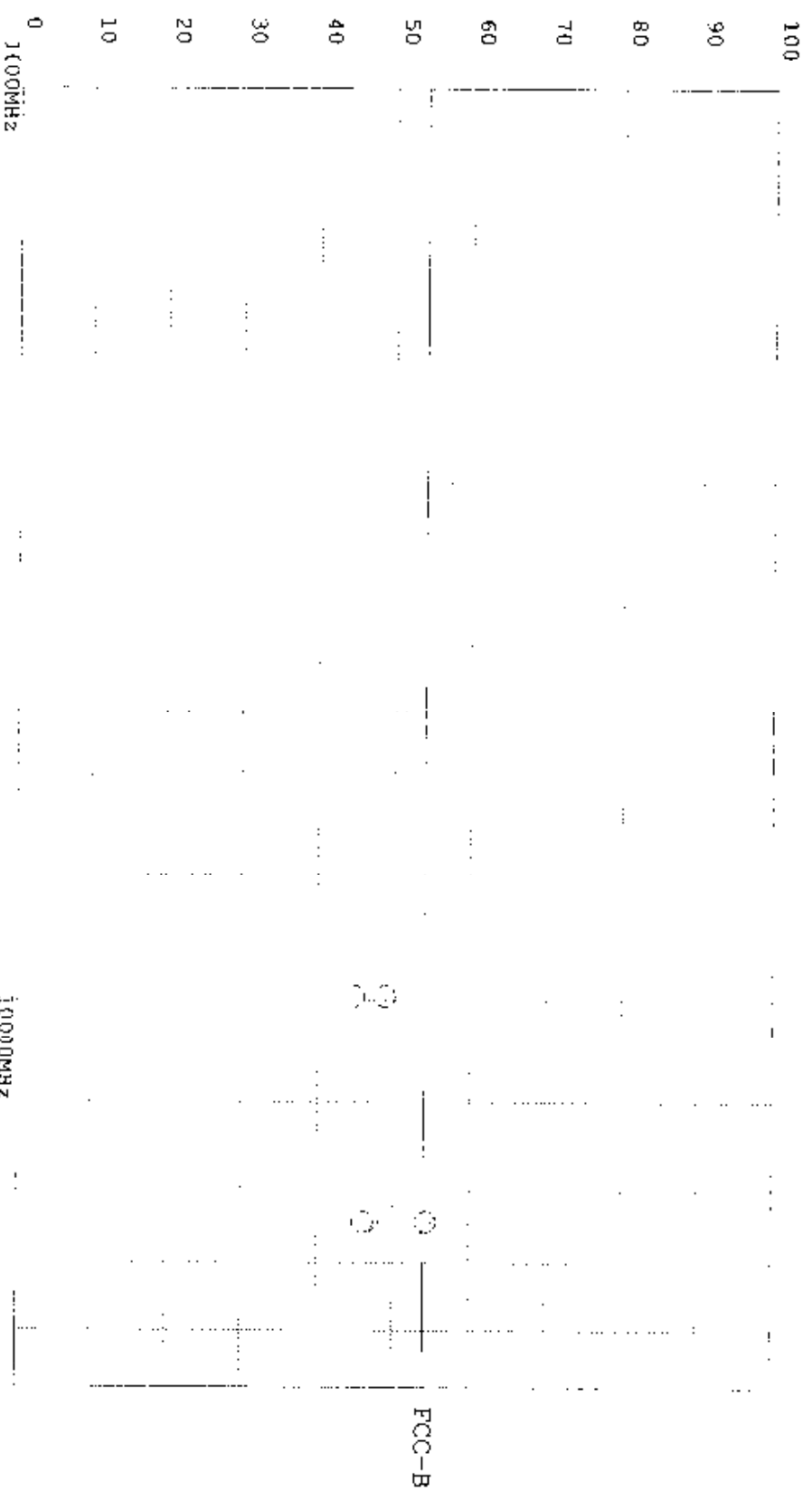
Comments: T6, RTN PA, Hi VCO, Not Hopping

FWD Link 700 DAC setting, RTN Link 700 DAC setting.

Horizontal= X
Vertical = 0

dBuV/m

FCC Class B (3 Meter Specification Limit)



Northwest EMC

Version 4.2 Nov. 1996

Equipment Tested: 4126

Job Number: MICN0028

Serial Number:

Beta 6

Manufacturer:

Micron Communications

Test Date:

03-27-1998

Tested By:

Bill R./Jim T./Kitty T.

Comments:

T6, RTN PA, Hi VCO, Not Hopping
FWD link 700 DAC setting, RTN link 700 DAC setting.

FCC Class B (3 Meter Specification Limit)

Frequency (MHz)	Amp. (dBuV)	Detect.	AntFact (dB)	Ant. Pol.	Preamp (dB)	Cable Loss	Adjusted (dBuV/m)	Spec (dBuV/m)	Margin (dB)	Table degree	Antenna height
4960.700	49.1	AV	34.2	HHH	N40.2	3.2	46.3	54.0	7.7	90.0	128.0
4960.700	52.1	PK	34.2	HHH	N40.2	3.2	49.3	54.0	4.7	90.0	128.0
4960.700	51.6	PK	34.2	VHH	N40.2	3.2	48.8	54.0	5.2	67.0	115.0
4960.700	47.6	AV	34.2	VHH	N40.2	3.2	44.8	54.0	9.2	67.0	115.0
7441.100	43.6	AV	37.6	VHH	N38.8	4.3	46.1	54.0	7.9	310.0	140.0
7441.100	51.2	PK	37.6	VHH	N38.8	4.3	54.3	54.0	-0.3	310.0	140.0
7441.100	51.8	PK	37.6	HHH	N38.8	4.3	54.9	54.0	-0.9	67.0	130.0
7441.100	45.1	AV	37.6	HHH	N38.8	4.3	48.2	54.0	5.8	67.0	130.0

Signature

Temperature 70F 50% Humidity

23:44:31 MAR 30, 1998

T6, RTN PA, DAC=700, LOW VCO

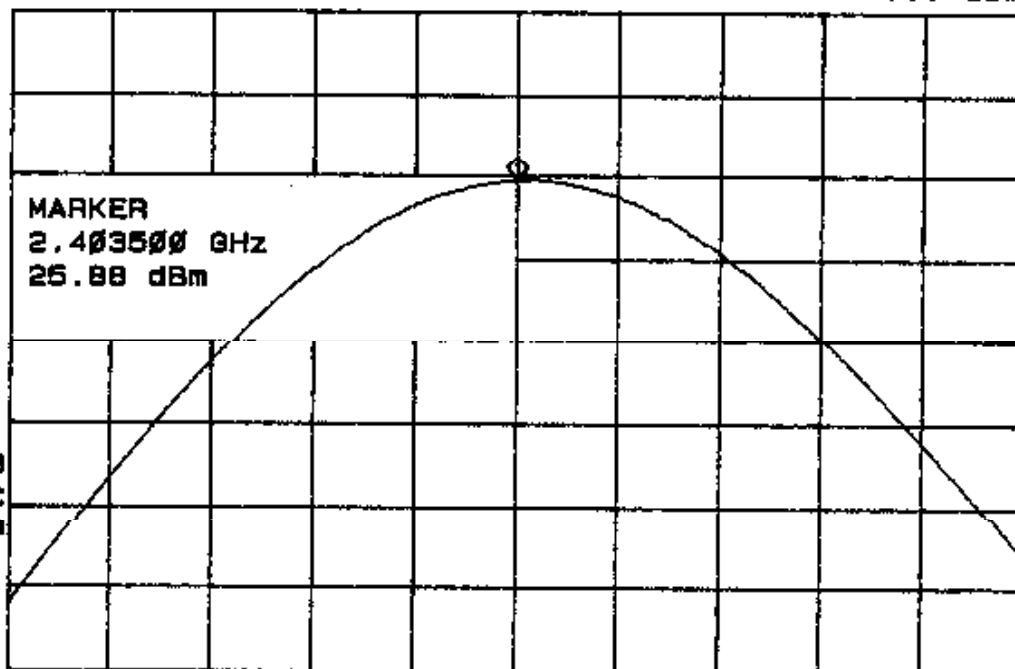
REF 30.0 dBm

AT 20 dB PG -21.4 dB

MKR 2.403500 GHz

25.88 dBm

PEAK
LOG
2
dB/



CENTER 2.403500 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

23:48:24 MAR 30, 1998

T6, RTN PA, DAC=700, MID VCO

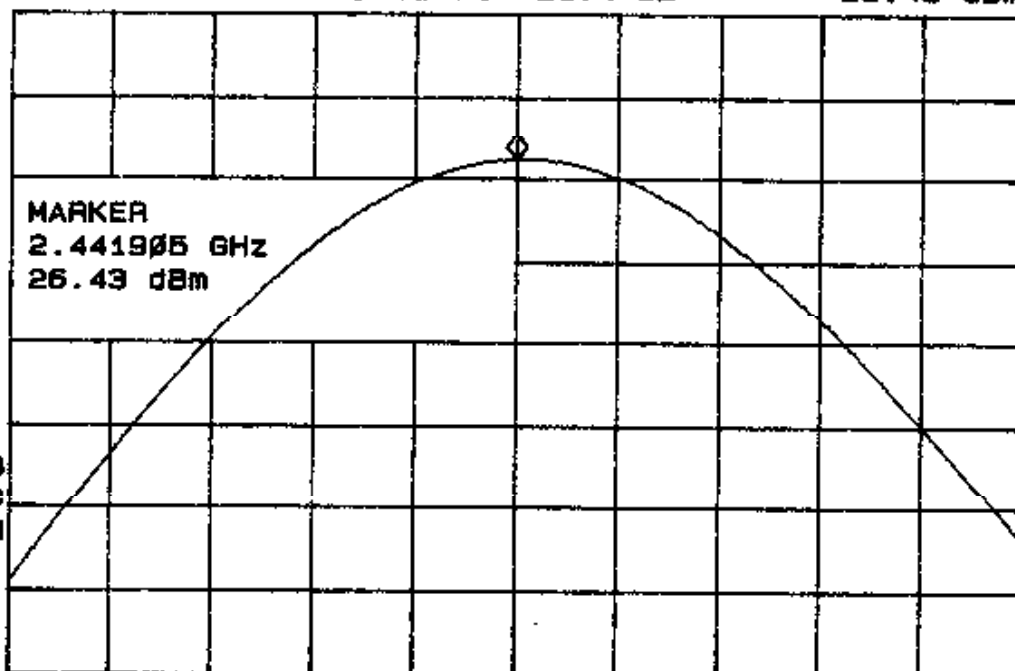
REF 30.0 dBm

AT 20 dB PG -21.4 dB

MKR 2.441900 GHz

26.43 dBm

PEAK
LOG
2
dB/



CENTER 2.441900 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

23:22:52 MAR 30, 1998

T1, RTN PA, DAC-700, LOW VCO

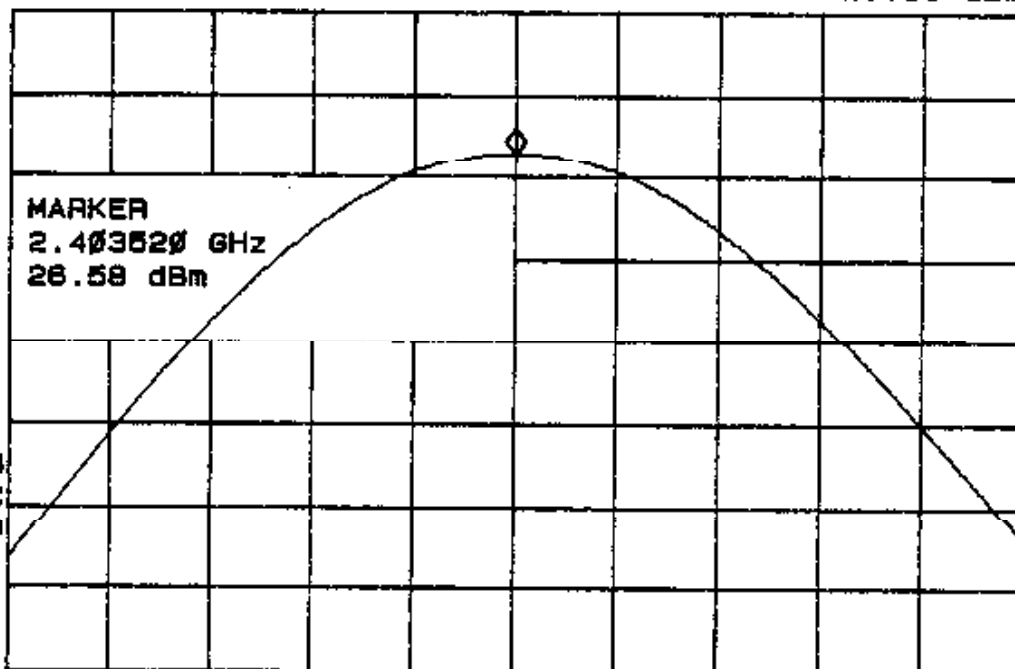
REF 30.0 dBm

AT 20 dB PG -21.4 dB

MKR 2.403520 GHz

26.58 dBm

PEAK
LOG
2
dB/



CENTER 2.403520 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

23:27:33 MAR 30, 1998

T1, RTN PA, DAC-700, MID VCO

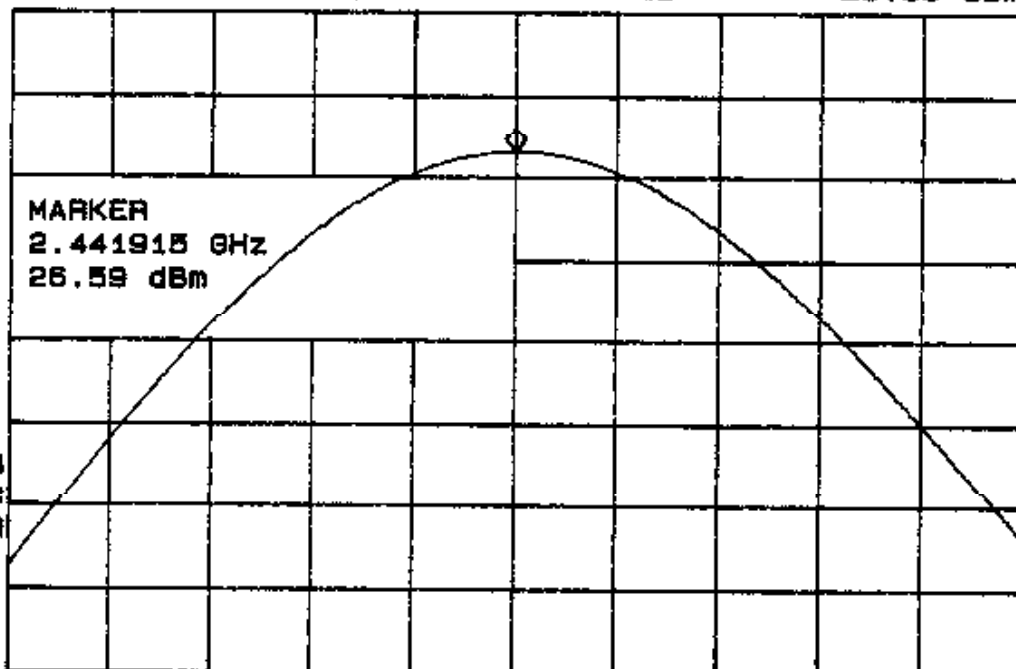
REF 30.0 dBm

AT 20 dB PG -21.4 dB

MKR 2.441915 GHz

26.59 dBm

PEAK
LOG
2
dB/



CENTER 2.441915 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

23:33:10 MAR 30, 1998

T1, RTN PA, DAC=700, HI VCO

MKR 2.480300 GHz

REF 30.0 dBm

AT 20 dB PG -21.4 dB

26.39 dBm

PEAK

LOG

2

dB/

MARKER

2.480300 GHz

26.39 dBm

NA SB

SC FC

CORR

CENTER 2.480300 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

23:38:59 MAR 30, 1998

T1, FWD PA, DAC=700, LOW BAND

MKR 2.441930 GHz

REF 30.0 dBm

AT 20 dB PG -21.4 dB

25.38 dBm

PEAK

LOG

2

dB/

MARKER

2.441930 GHz

25.38 dBm

NA SB

SC FC

CORR

CENTER 2.441930 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 5.000 MHz

SWP 20.0 msec

23:53:45 MAR 30, 1998

10 TB, RTN PA, DAC=700, HI VCO

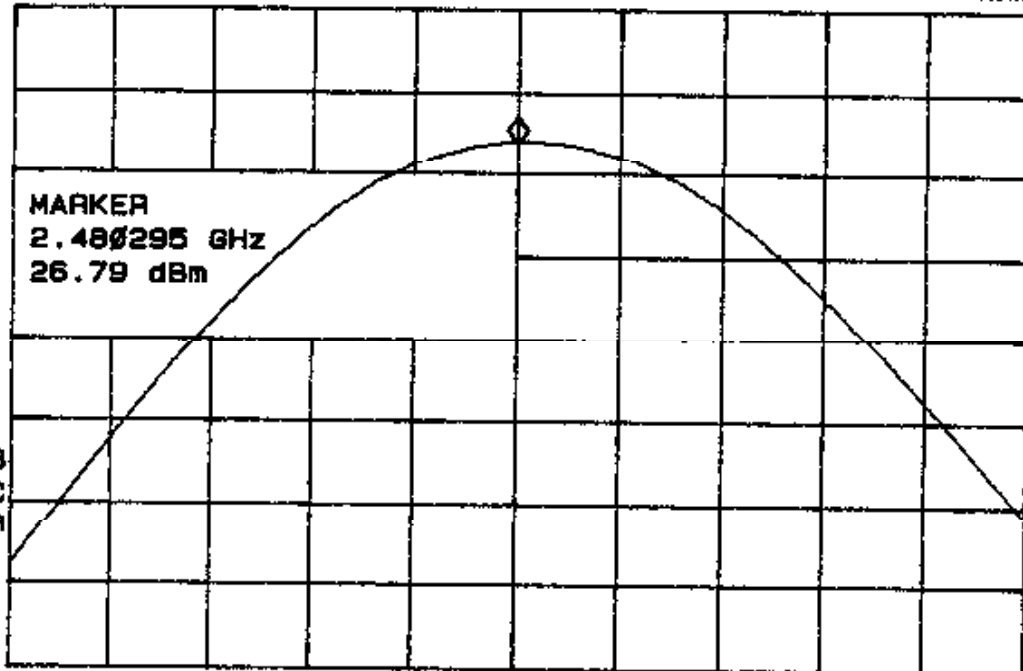
REF 30.0 dBm

AT 20 dB PG -21.4 dB

MKR 2.480295 GHz

26.79 dBm

PEAK
LOG
2
dB/



CENTER 2.480295 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

23:58:49 MAR 30, 1998

10 TB, FWD PA, DAC=700, LOW BAND

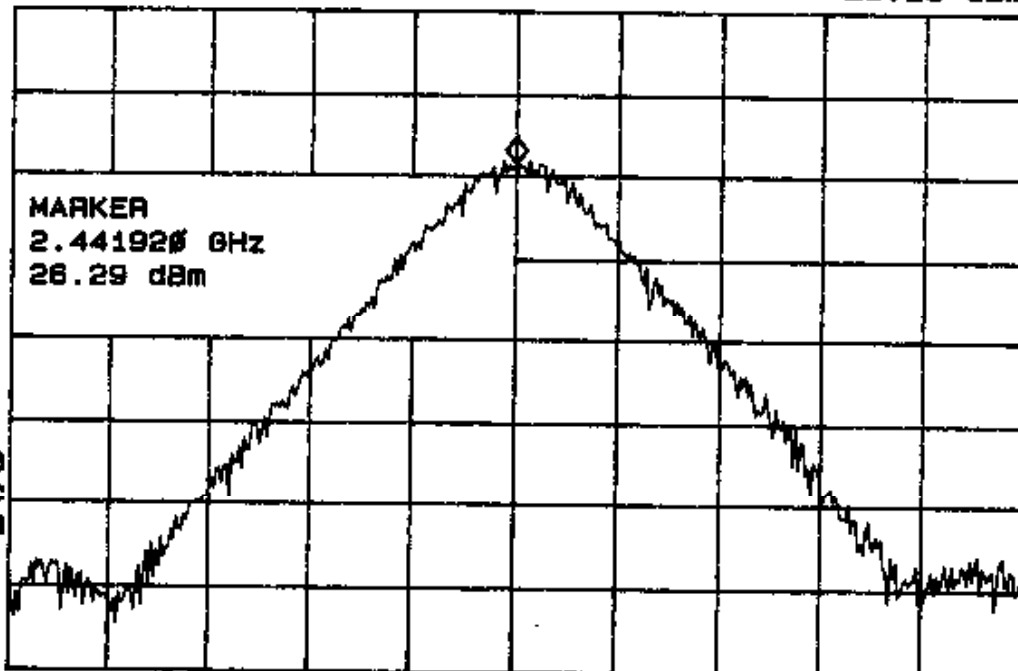
REF 30.0 dBm

AT 20 dB PG -21.4 dB

MKR 2.441920 GHz

26.29 dBm

PEAK
LOG
2
dB/



CENTER 2.441920 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 5.000 MHz

SWP 20.0 msec

19:34:54 MAR 30, 1998

T1, RTN PA, DAC=740, LOW VCO

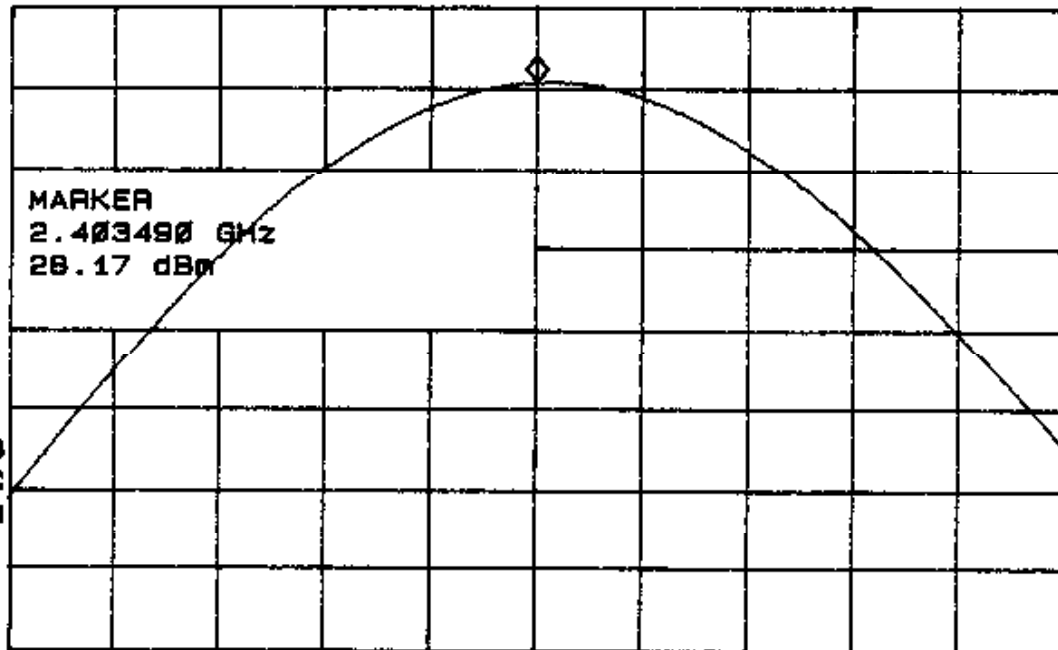
MKR 2.403490 GHz

REF 30.0 dBm

AT 20 dB PG -21.4 dB

28.17 dBm

PEAK
LOG
2
dB/



CENTER 2.403490 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

19:38:38 MAR 30, 1998

T1, RTN PA, DAC=740, MID VCO

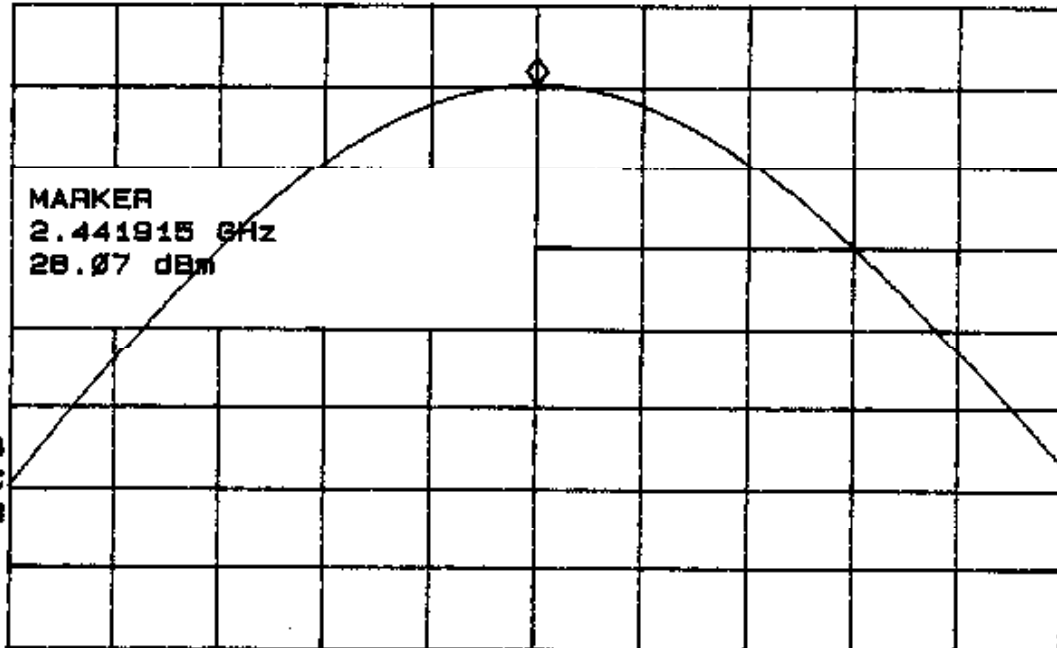
MKR 2.441915 GHz

REF 30.0 dBm

AT 20 dB PG -21.4 dB

28.07 dBm

PEAK
LOG
2
dB/



CENTER 2.441915 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

19:44:00 MAR 30, 1998

T1, RTN PA, DAC=740, HI VCO

MKR 2.480295 GHz

REF 30.0 dBm

AT 20 dB PG -21.4 dB

26.03 dBm

PEAK

LOG

2

dB/

WA SB

SC FC

CORR

MARKER

2.480295 GHz

26.03 dBm

CENTER 2.480295 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

19:48:17 MAR 30, 1998

T1, FWD PA, DAC=700, LOW BAND

MKR 2.441930 GHz

REF 30.0 dBm

AT 20 dB PG -21.4 dB

26.31 dBm

PEAK

LOG

2

dB/

WA SB

SC FC

CORR

MARKER

2.441930 GHz

26.31 dBm

CENTER 2.441880 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 5.000 MHz

SWP 20.0 msec

19:54:59 MAR 30, 1998

T6, RTN PA, DAC=740, LOW VCO

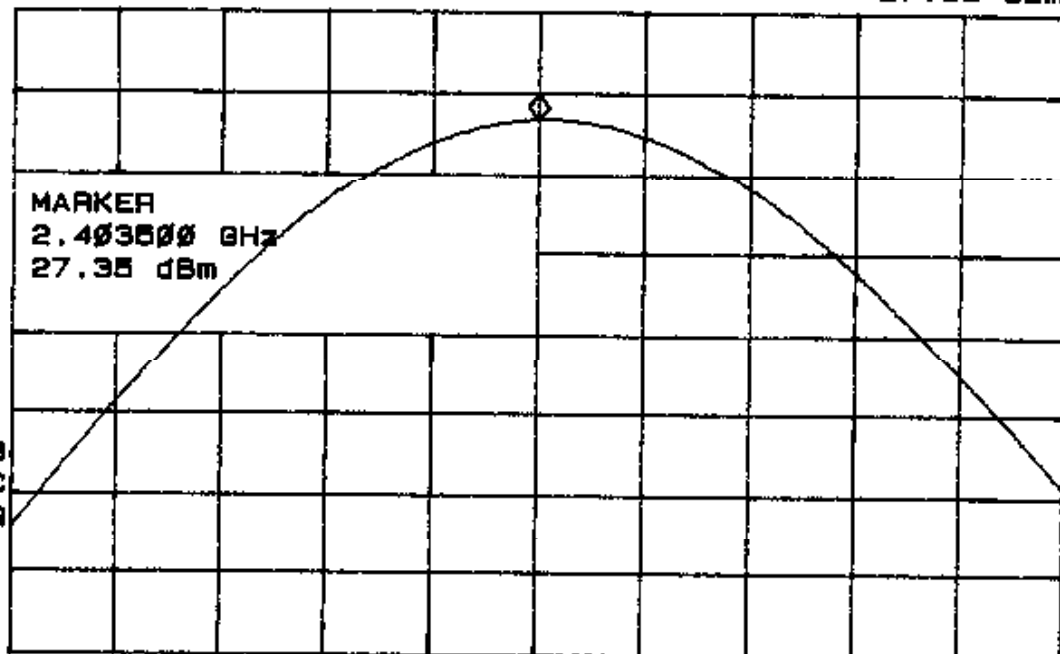
REF 30.0 dBm

AT 20 dB PG -21.4 dB

MKR 2.403500 GHz

27.35 dBm

PEAK
LOG
2
dB/



CENTER 2.403500 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

19:58:26 MAR 30, 1998

T6, RTN PA, DAC=740, MID VCO

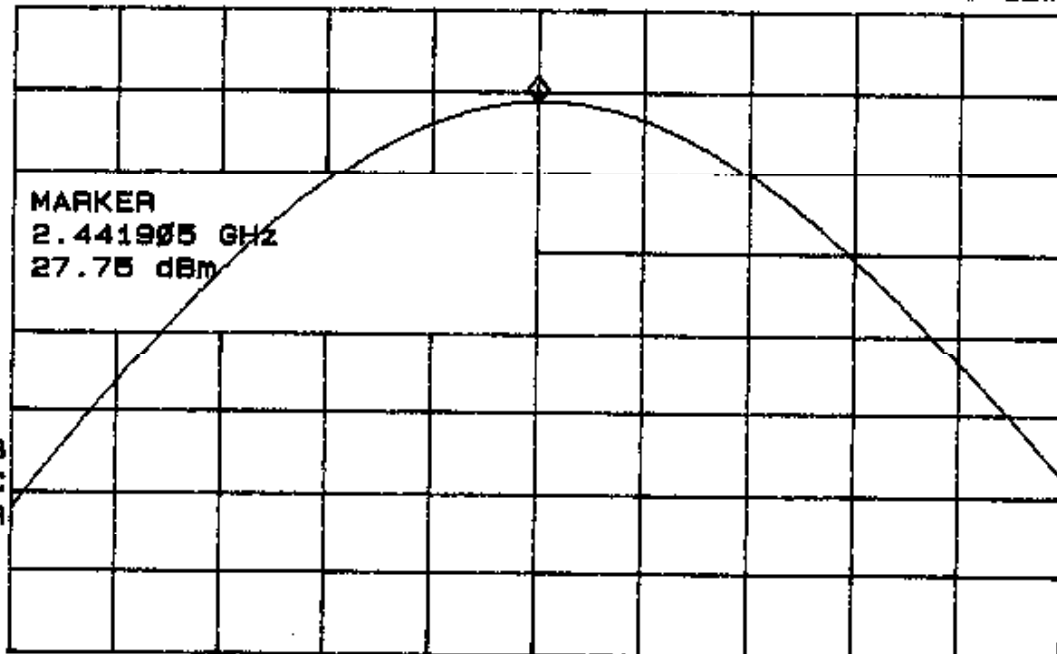
REF 30.0 dBm

AT 20 dB PG -21.4 dB

MKR 2.441905 GHz

27.75 dBm

PEAK
LOG
2
dB/



CENTER 2.441905 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

20:02:51 MAR 30, 1998

T6, RTN PA, DAC=740, HI VCO

MKR 2.480310 GHz

REF 30.0 dBm

AT 20 dB PO -21.4 dB

20.01 dBm

PEAK
LOG
2
dB/

MARKER
2.480310 GHz
20.01 dBm

WA SB
SC FC
CORR

CENTER 2.480310 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

20:07:41 MAR 30, 1998

T6, FWD PA, DAC=700, LOW BAND

MKR 2.441900 GHz

REF 30.0 dBm

AT 20 dB PO -21.4 dB

20.10 dBm

PEAK
LOG
2
dB/

MARKER
2.441900 GHz
20.10 dBm

WA SB
SC FC
CORR

CENTER 2.441900 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 5.000 MHz

SWP 20.0 msec

Northwest EMC

Version 4.2 Nov, 1996

Equipment Tested: 4120 Beta 26

Job Number: MICN6023

Serial Number: 21258/005

Manufacturer: Micron Communications

Test Date: 03-30-1998

Tested By: W. J. Robicheaux

Comments: TJ, RTNPA, DAC=746, Low VCO, Not Hopping

FCC Class B (3 Meter Specification Limit)

Frequency (MHz)	Ampl. (dBmV)	Detect.	AntFact (dB)	Ant. Preamp Pol. (dB)	Cable Adjusted Loss (dBuV/m)	Spec (dBuV/m)	Margin (dB)	Table degree	Antenna height
4806.980	572	AV	34.0	HHRN40.2	3.1	54.1	0.1	277.0	123.0
4806.980	593	PK	34.0	HHRN40.2	3.1	56.2	-2.2	277.0	123.0
4806.980	590	AV	34.0	VHRN40.2	3.1	55.9	-1.9	240.0	115.0
4806.980	606	PK	34.0	VHRN40.2	3.1	57.5	-3.5	240.0	115.0
7210.470	424	AV	36.9	HHRN39.1	4.2	44.4	9.6	339.0	141.0
7210.470	508	PK	36.9	HHRN39.1	4.2	52.8	1.2	339.0	141.0
7210.470	414	AV	36.9	VHRN39.1	4.2	43.4	10.6	265.0	122.0
7210.470	504	PK	36.9	VHRN39.1	4.2	52.4	1.6	265.0	122.0

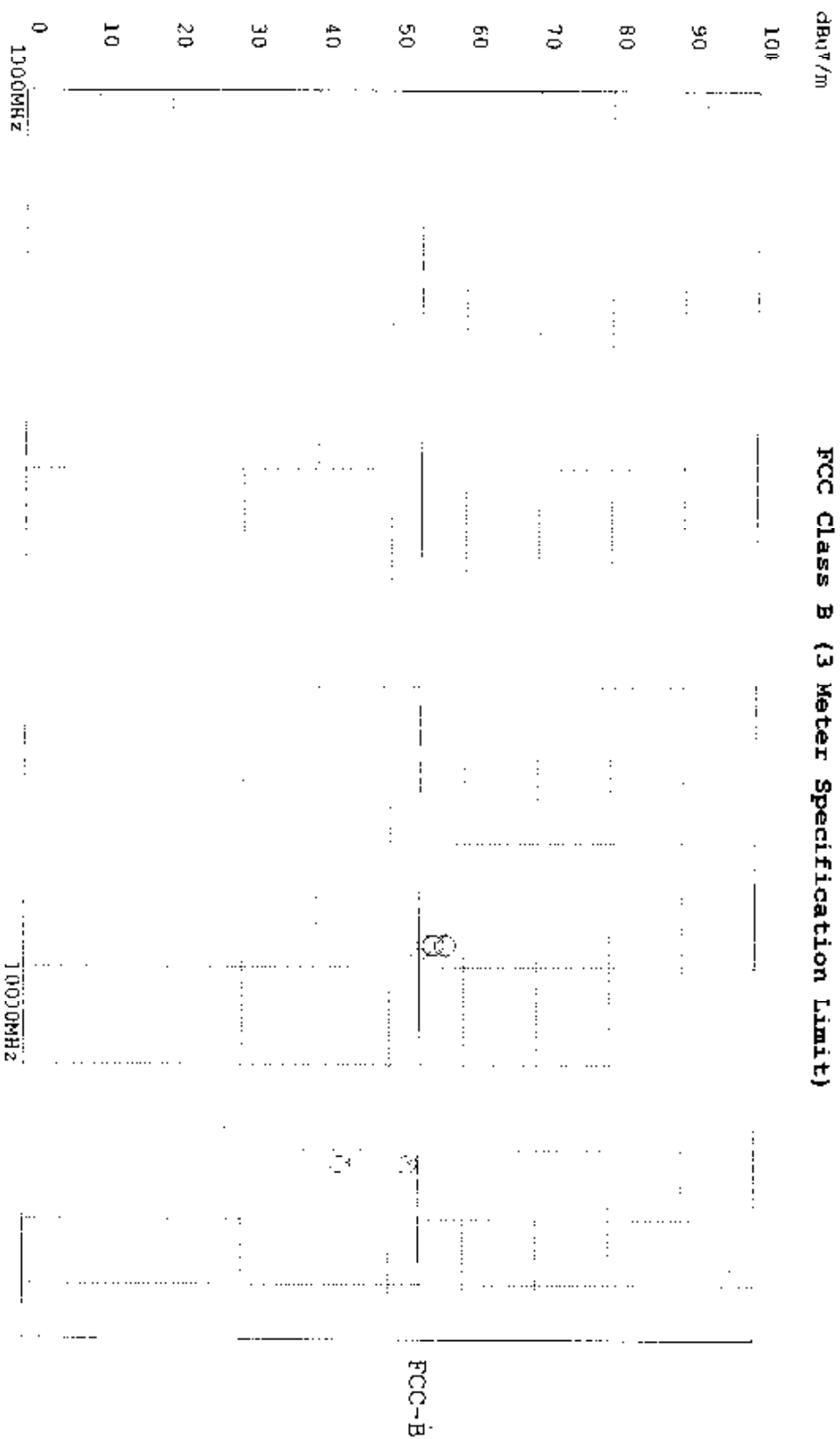
Signature

Temperature 70F 50% Humidity

W. J. Robicheaux 03/30/98

Horizontal = X
Vertical = 0

Version 4.2 NOV, 1996



21 DEC 82 MAR 81, 1000

71. RTN PA, DAC-796, LOW VCO 81:47:81 MAR 81, HANDED NTC

AT 80 DB PG -81.4 DB

-35.71 DBM



START 8.40 MHz
STOP 8.40 MHz
GIVEN 100 kHz
SWP 0.01 MHz

21 DEC 82 MAR 81, 1000

71. RTN PA, DAC-796, LOW VCO 81:47:81 MAR 81, HANDED NTC

AT 80 DB PG -81.4 DB

-35.71 DBM



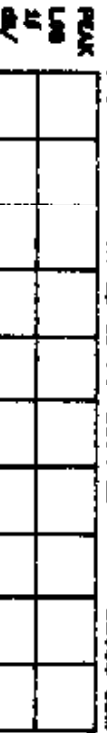
START 8.40 MHz
STOP 8.40 MHz
GIVEN 100 kHz
SWP 0.01 MHz

21 DEC 82 MAR 81, 1000

71. RTN PA, DAC-796, LOW VCO 81:47:81 MAR 81, HANDED NTC

AT 80 DB PG -81.4 DB

-35.71 DBM



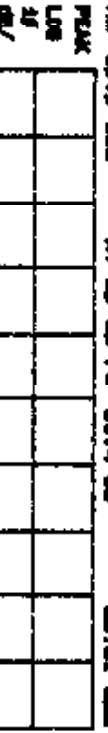
START 8.40 MHz
STOP 8.40 MHz
GIVEN 100 kHz
SWP 0.01 MHz

21 DEC 82 MAR 81, 1000

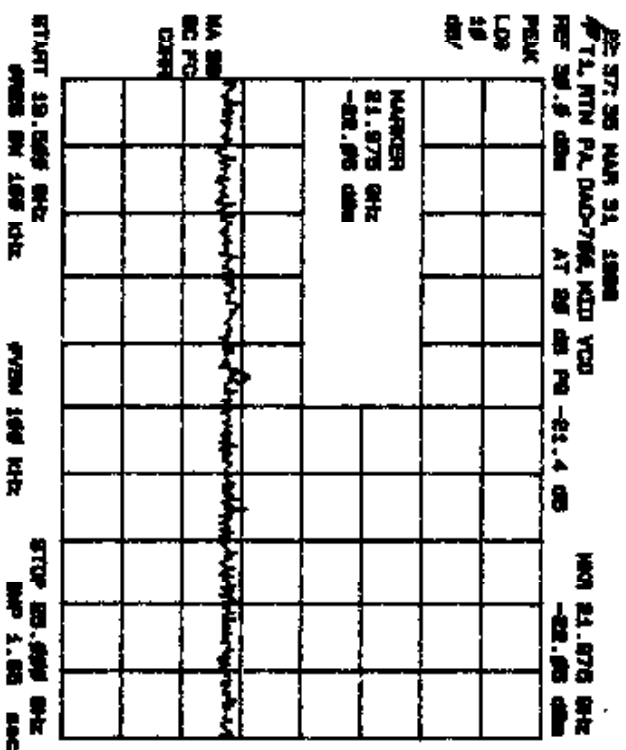
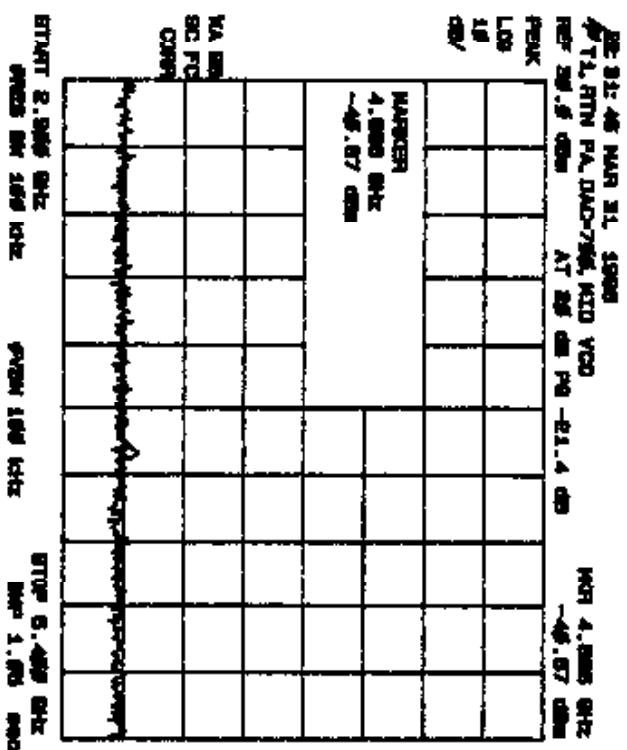
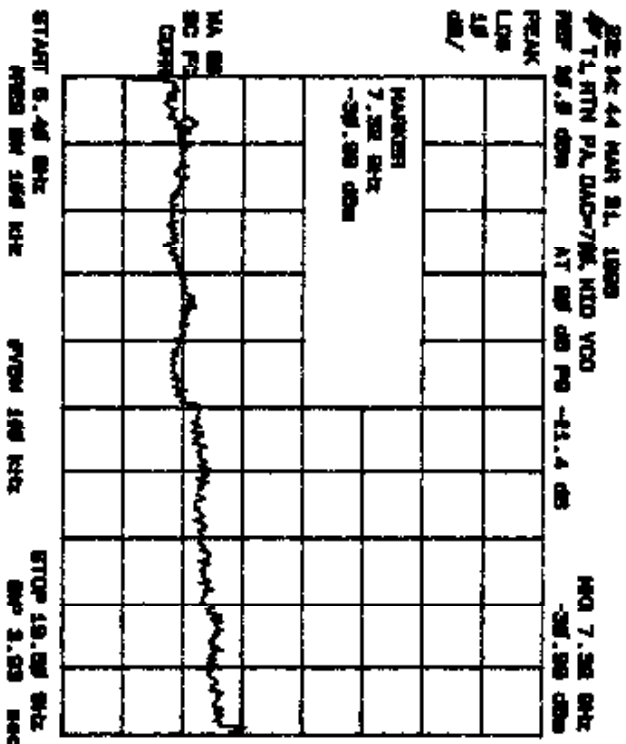
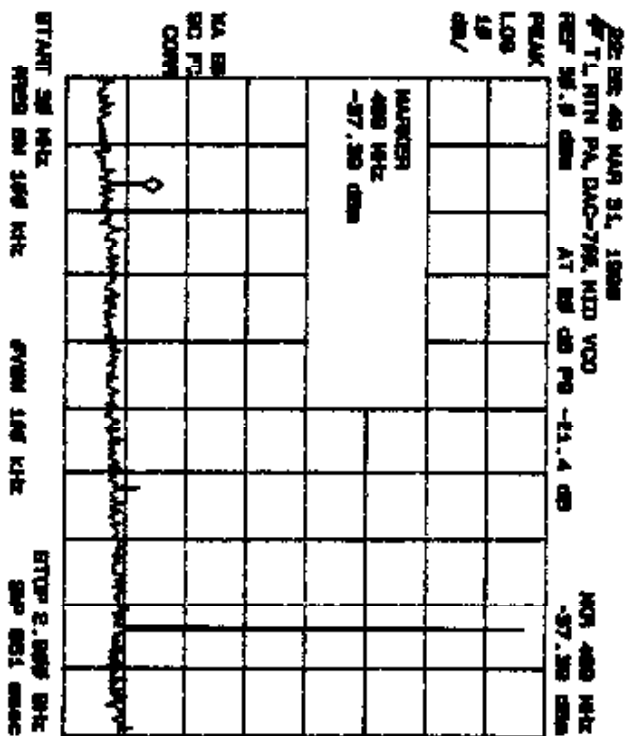
71. RTN PA, DAC-796, LOW VCO 81:47:81 MAR 81, HANDED NTC

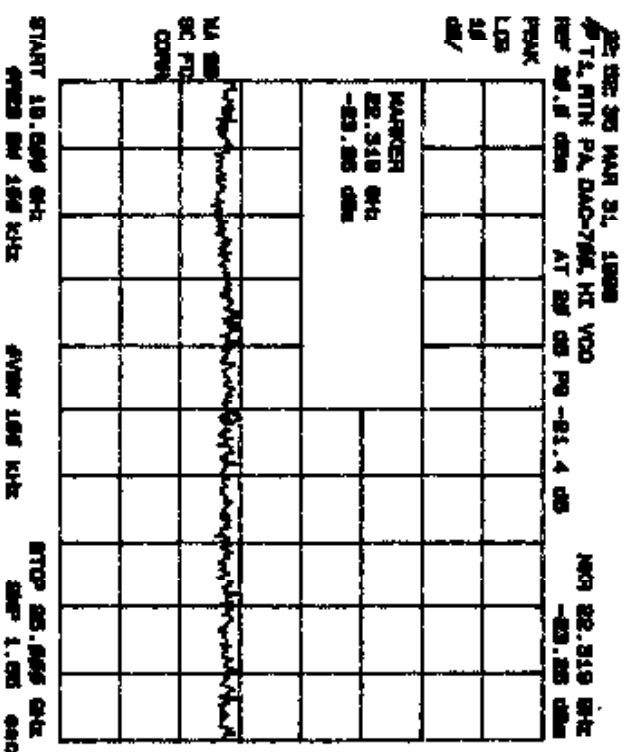
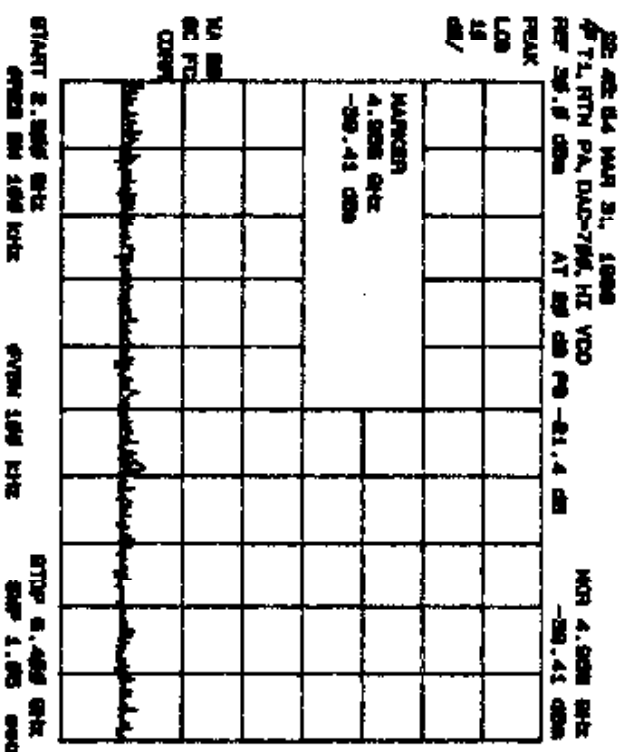
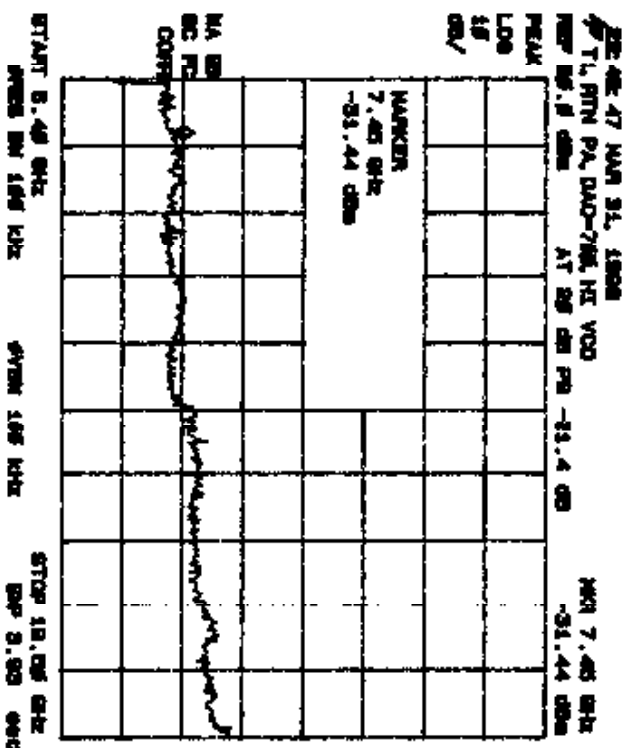
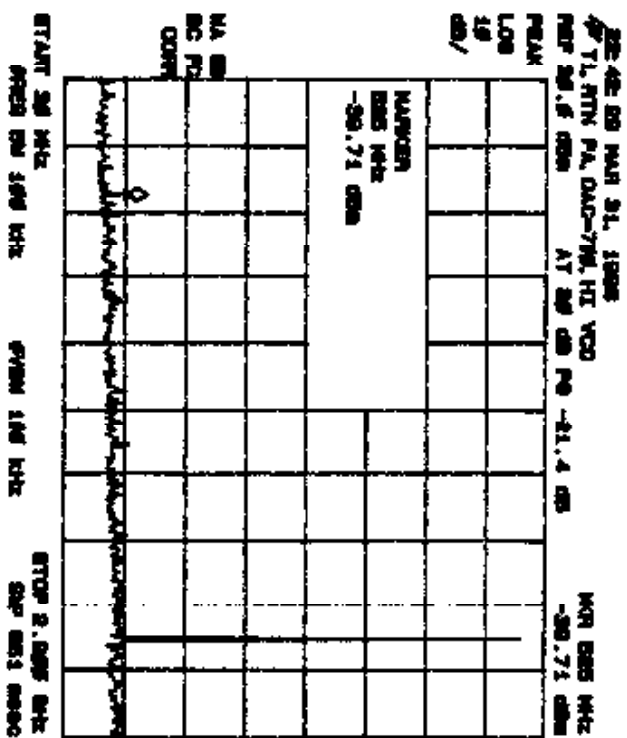
AT 80 DB PG -81.4 DB

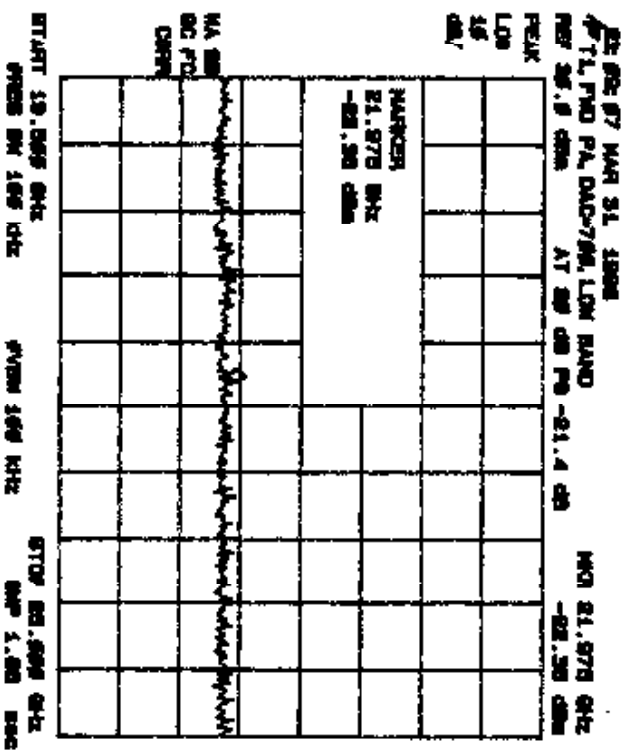
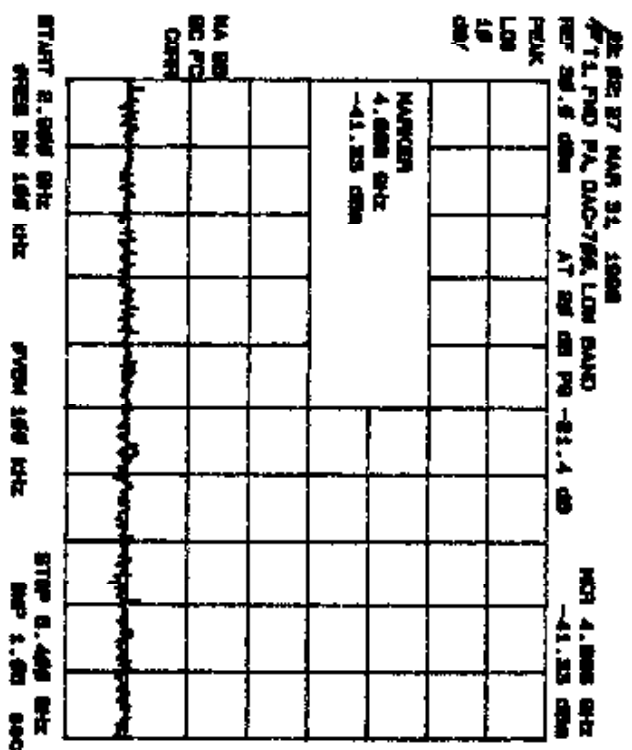
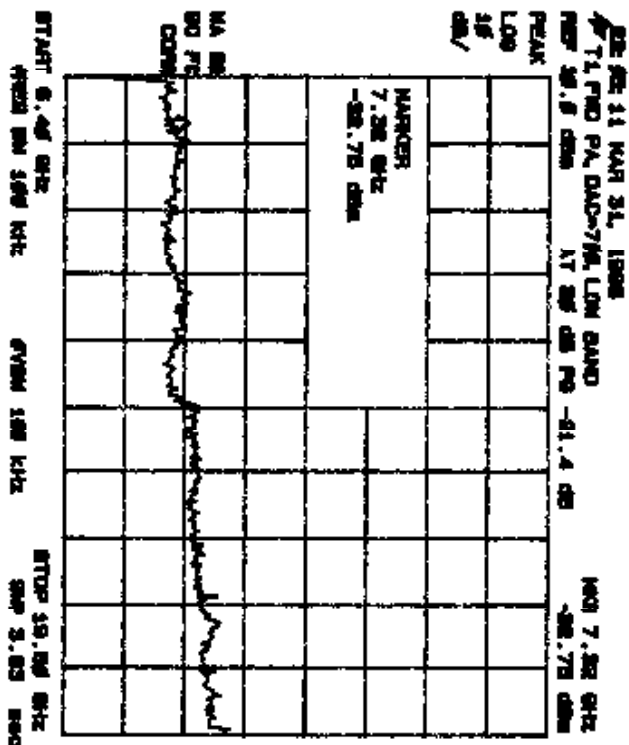
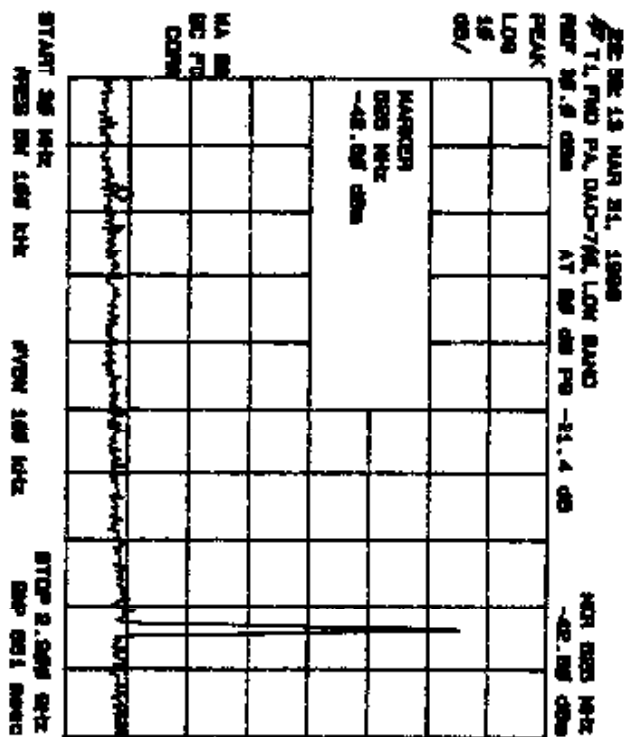
-35.71 DBM

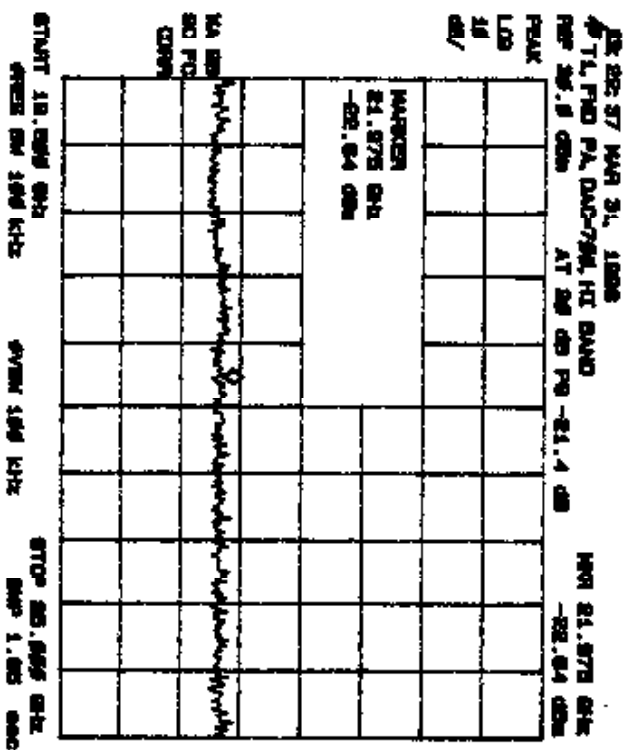
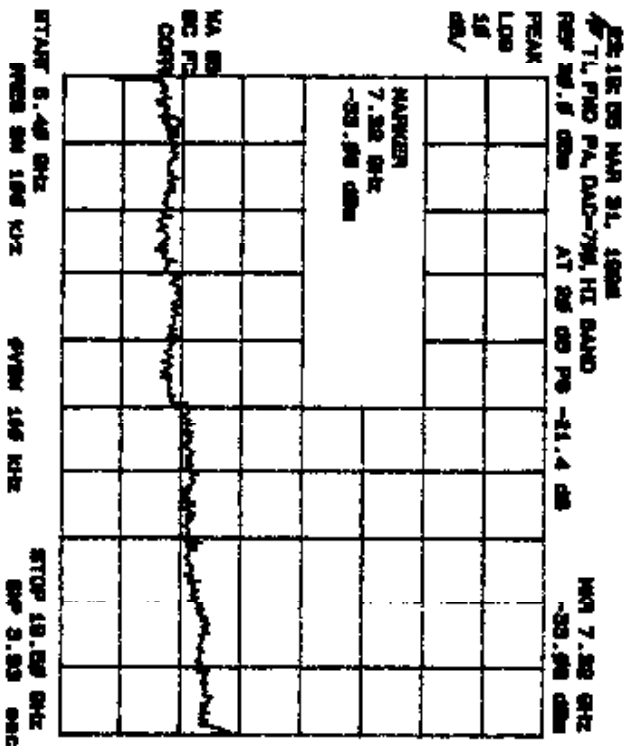
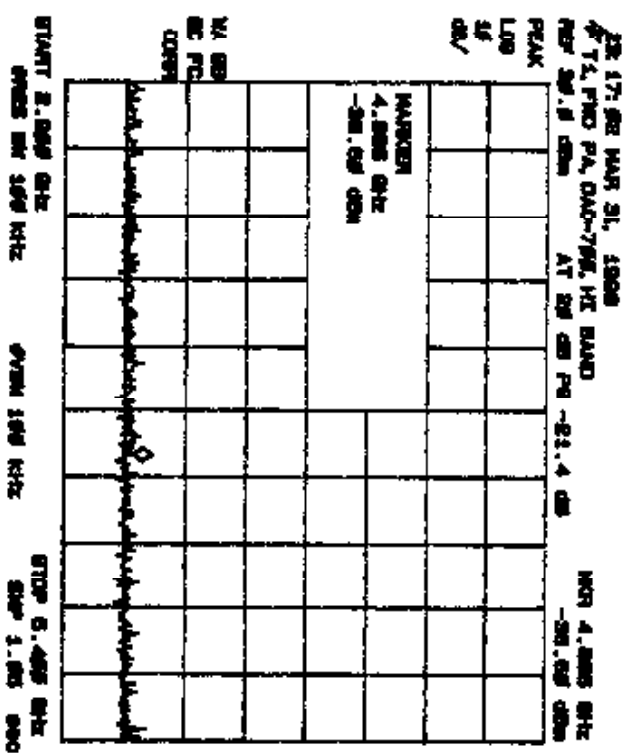
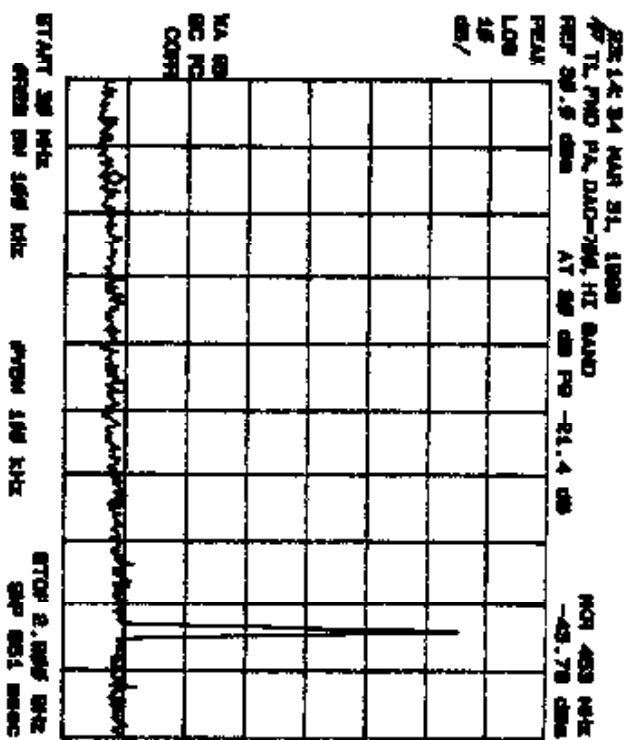


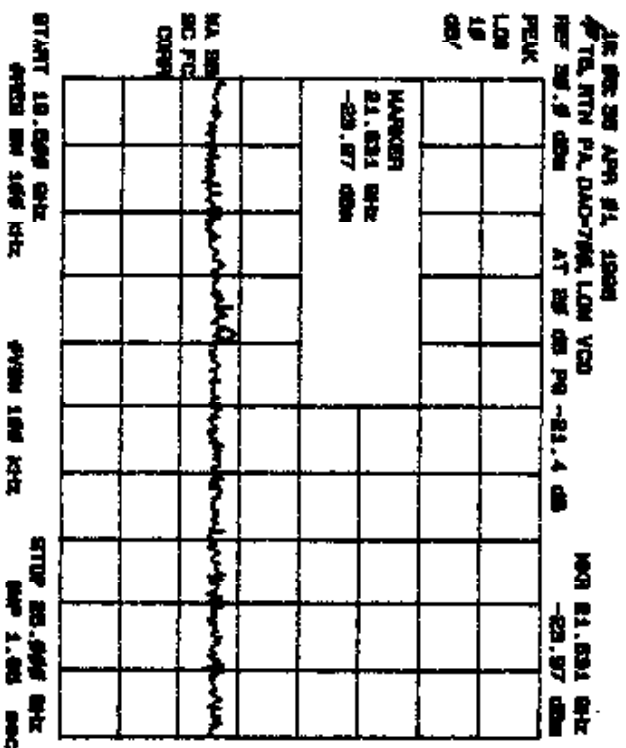
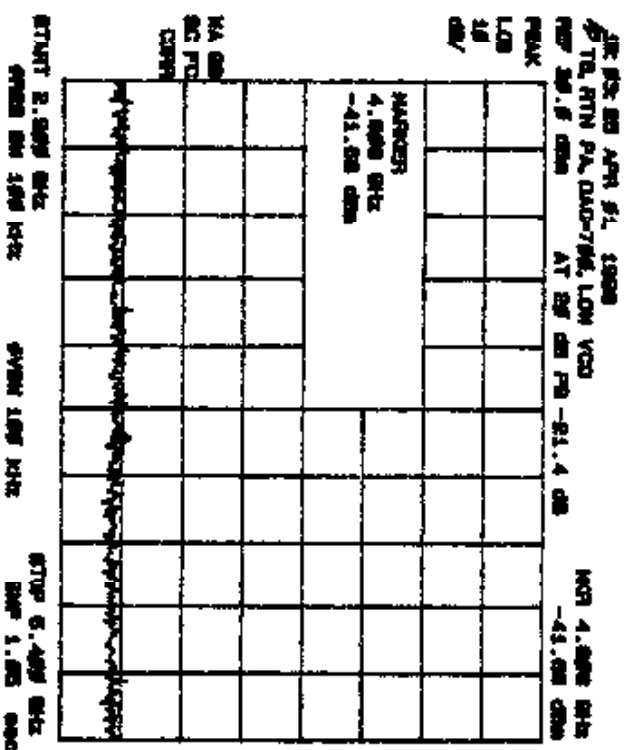
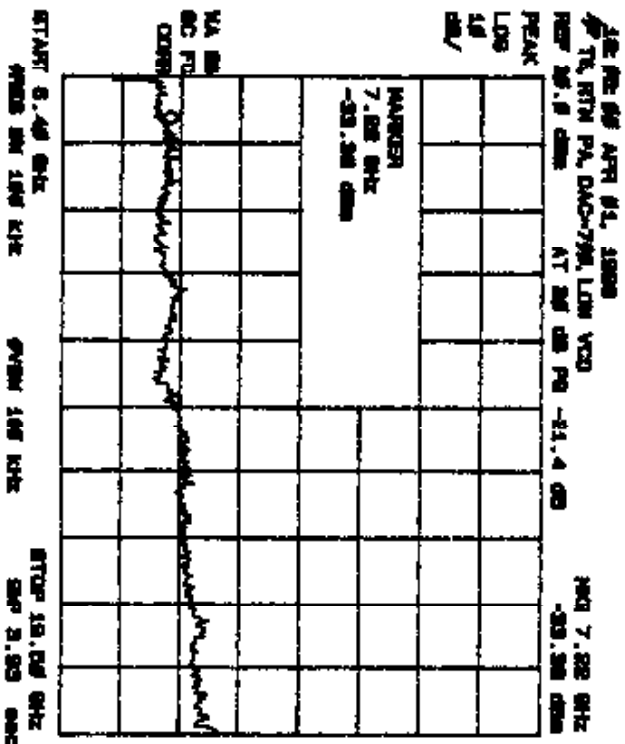
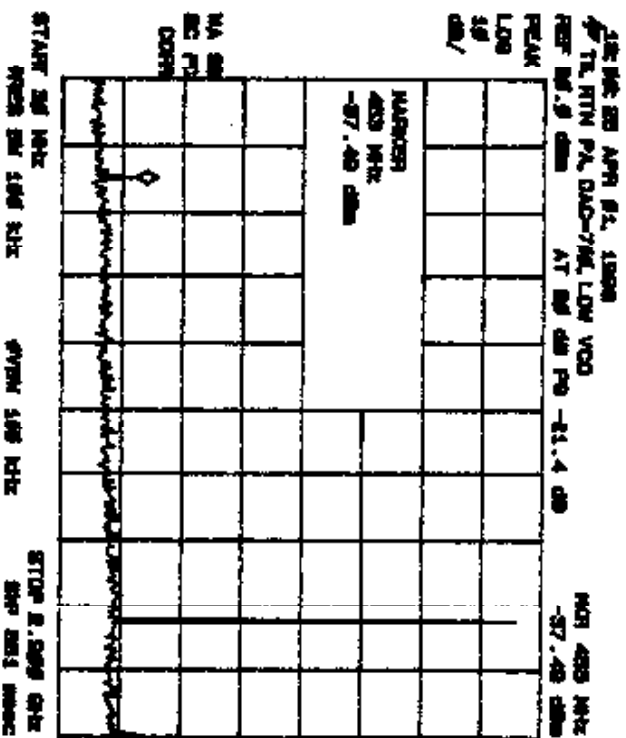
START 8.40 MHz
STOP 8.40 MHz
GIVEN 100 kHz
SWP 0.01 MHz

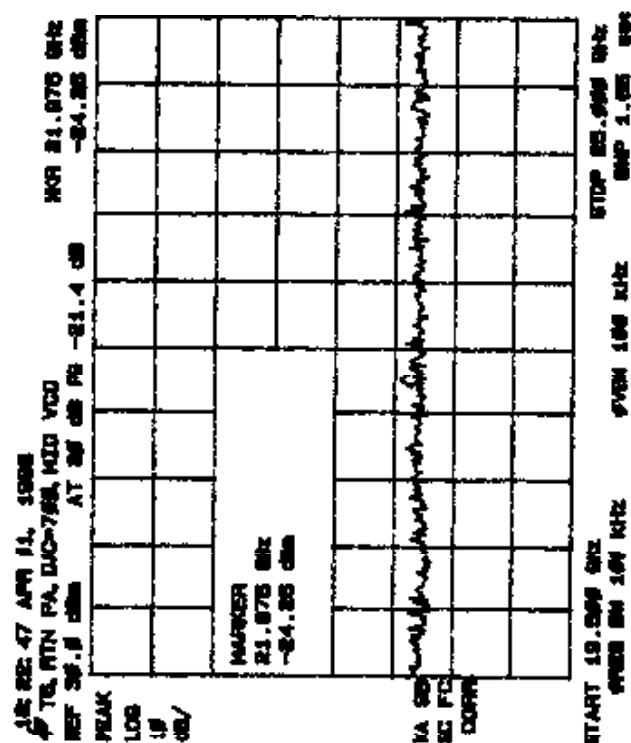
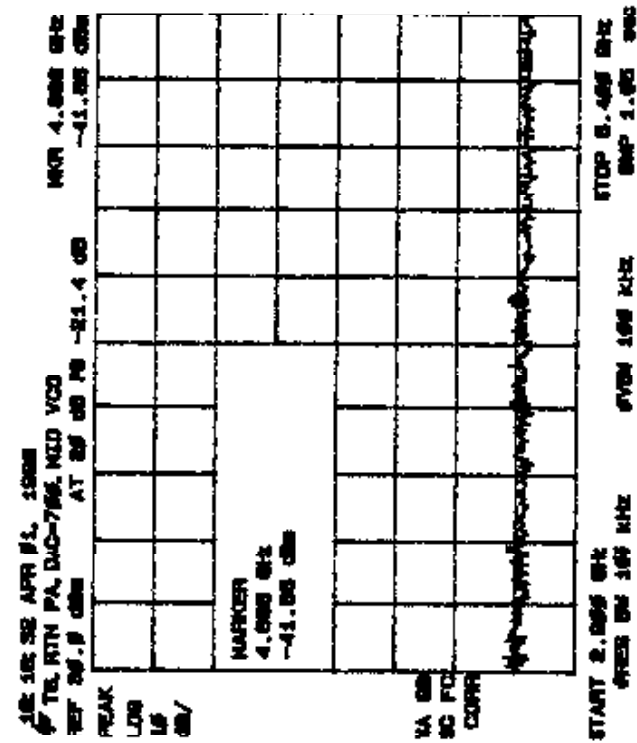
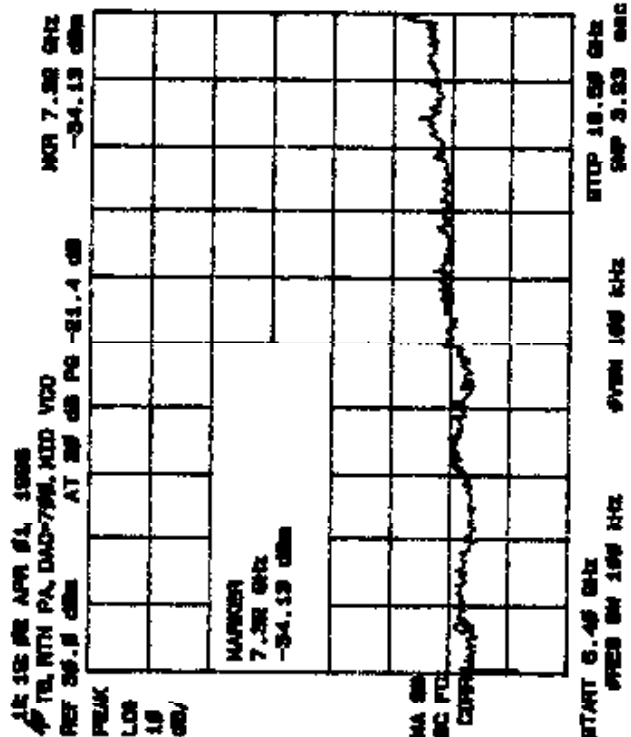
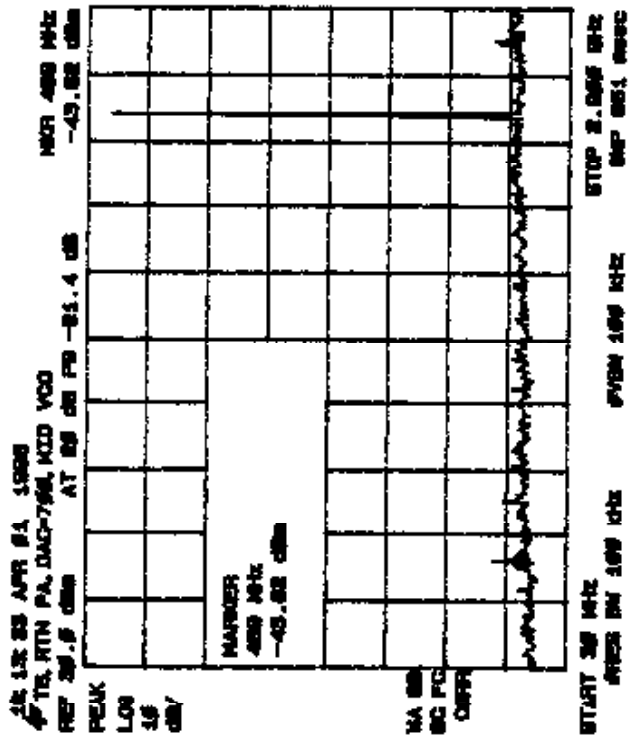


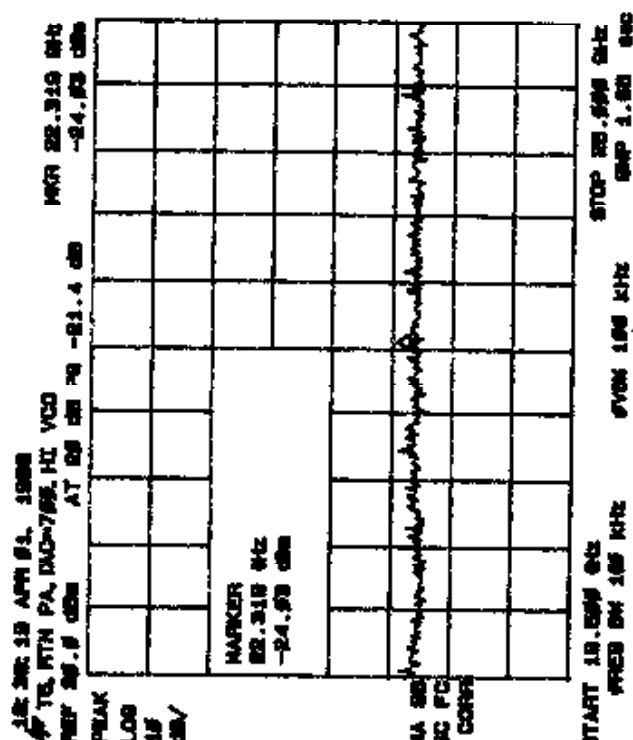
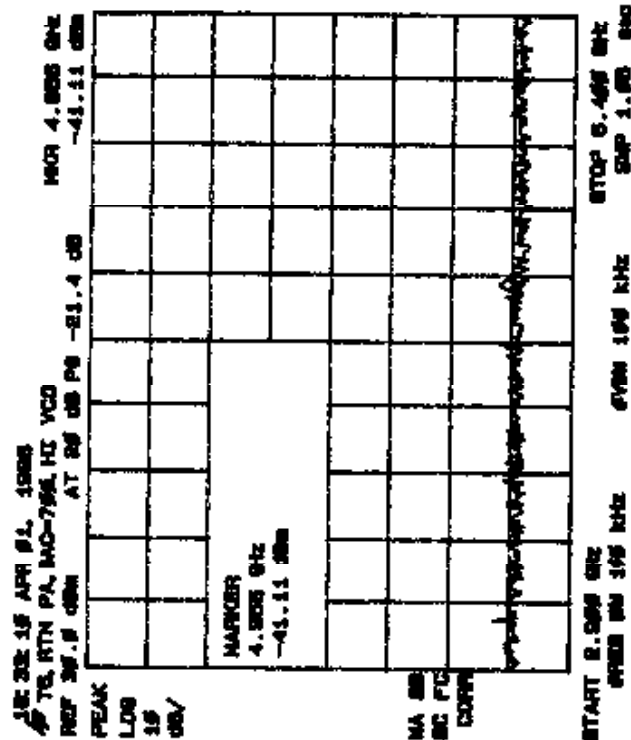
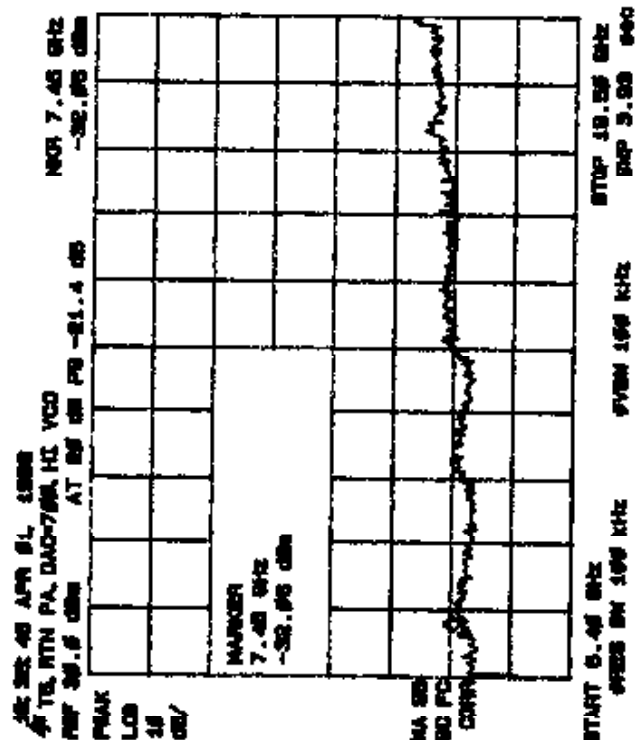
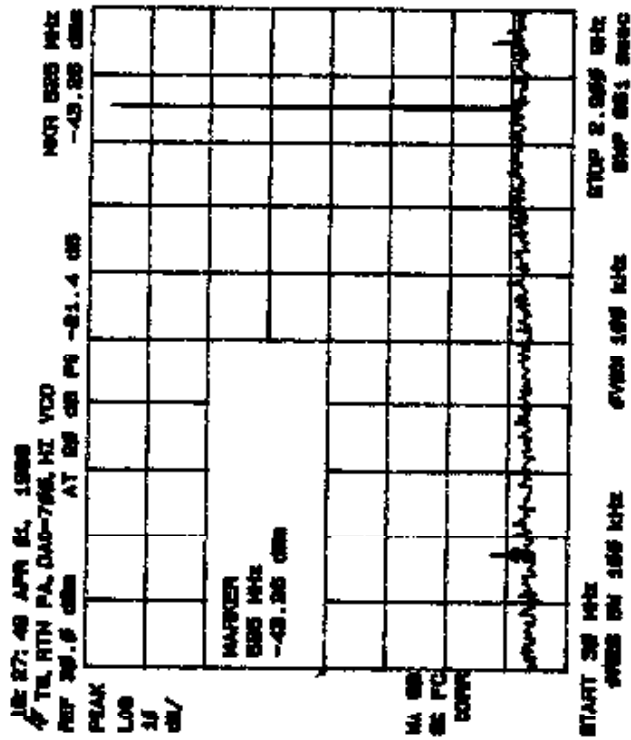


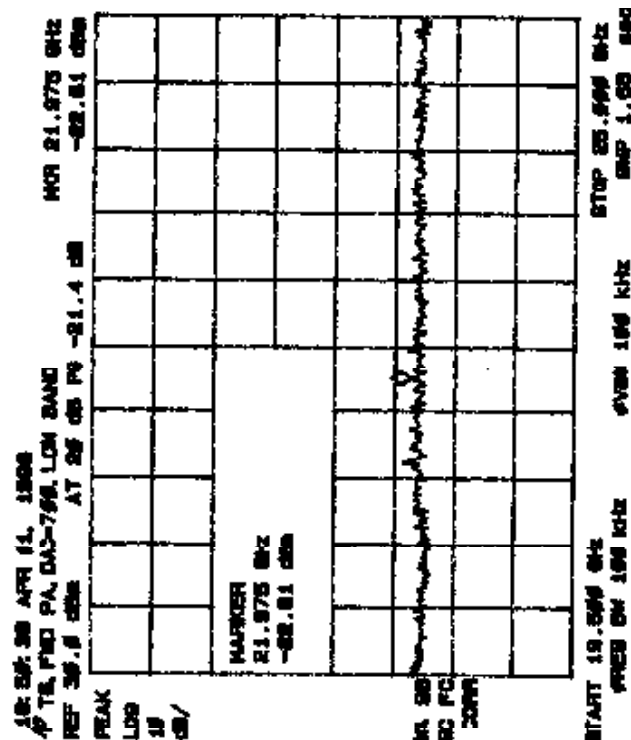
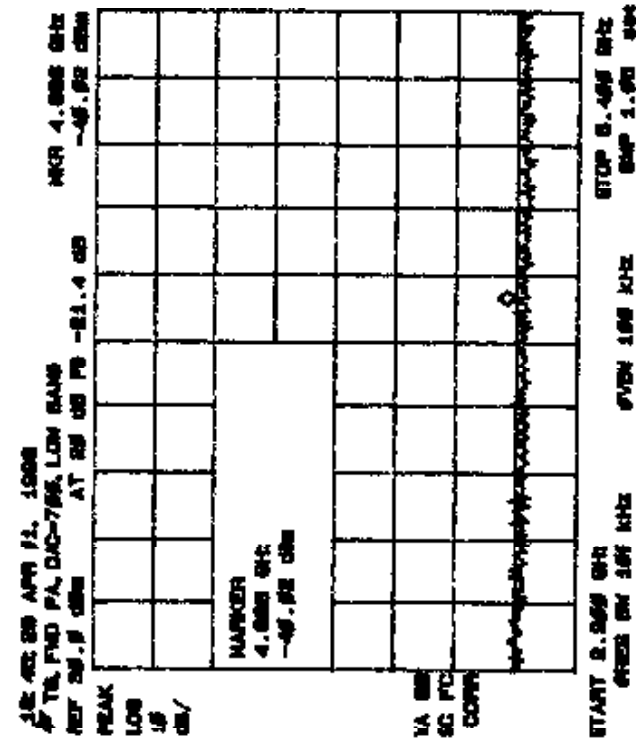
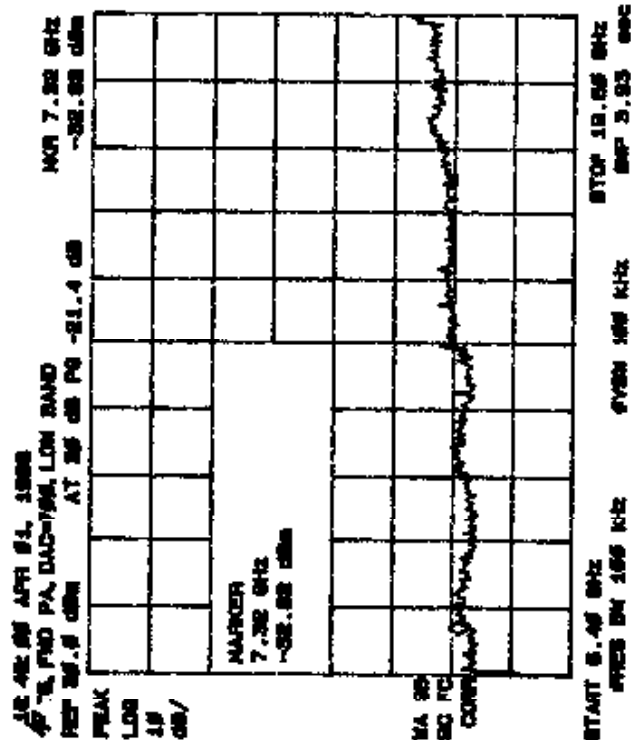
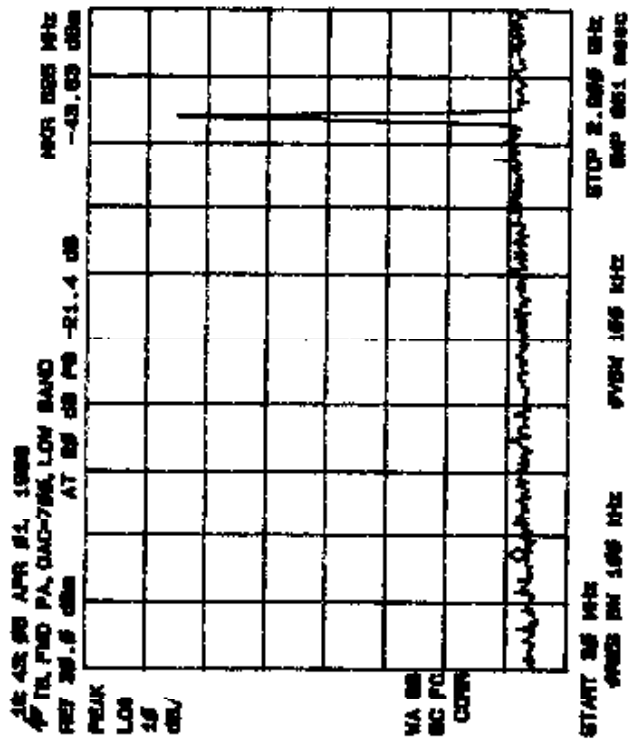


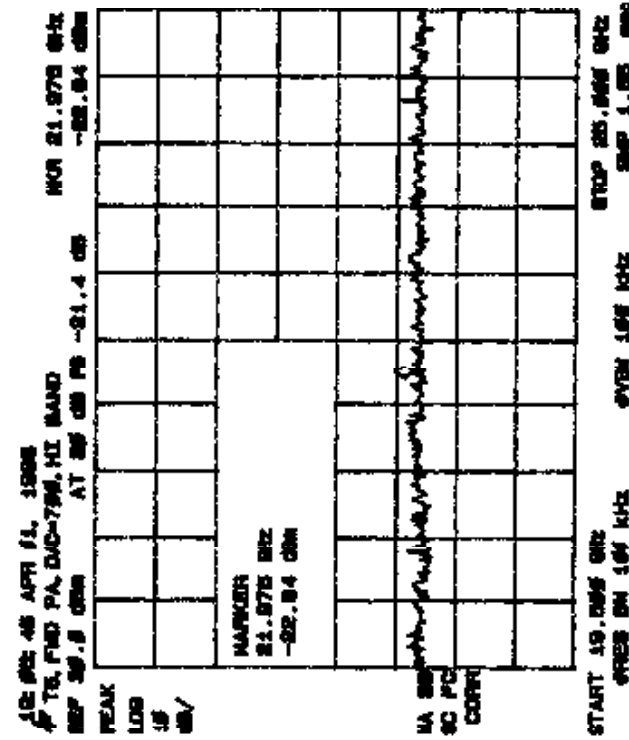
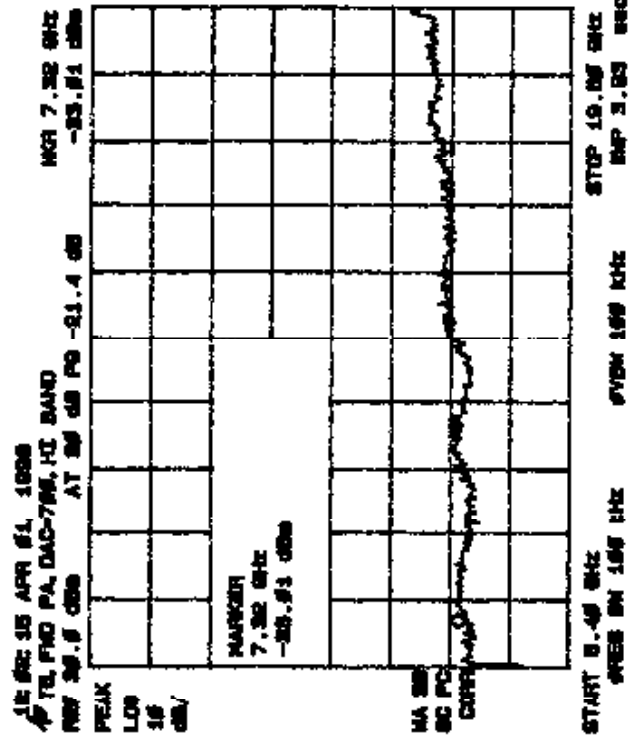
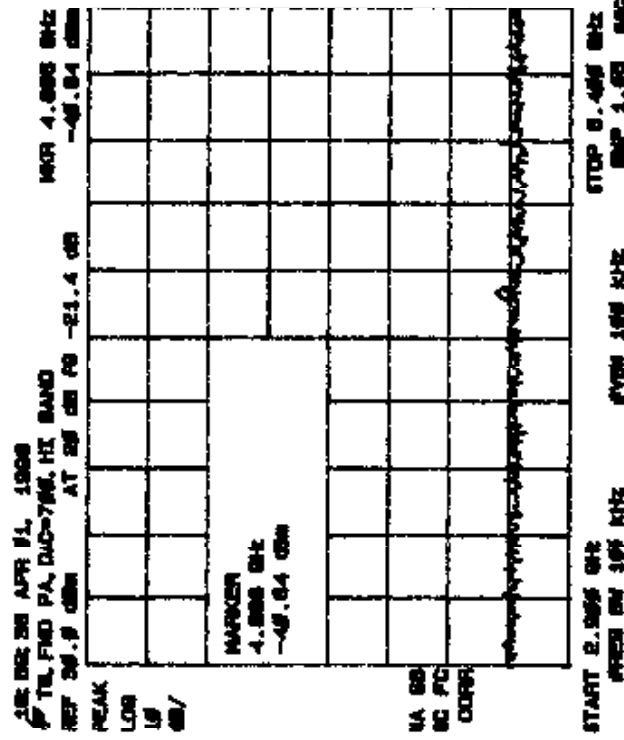
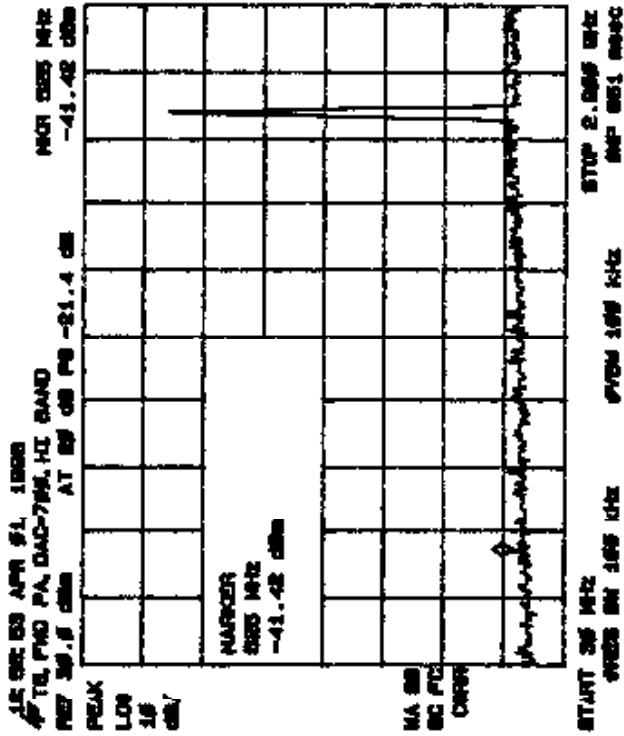












10:44:42 MAR 31, 1998

T6, FWD, DAC=700, LOW BAND

MR 2.441918 GHz

REF 30.0 dBm

AT 20 dB PG -21.4 dB

25.98 dBm

PEAK

LOG

2

dB/

MARKER

2.441918 GHz

25.98 dBm

MA SB

SC FC

CORR

CENTER 2.441918 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 5.000 MHz

SWP 20.0 msec

10:50:32 MAR 31, 1998

T6, RTN, DAC=740, HI VCO

MR 2.480298 GHz

REF 30.0 dBm

AT 20 dB PG -21.4 dB

27.94 dBm

PEAK

LOG

2

dB/

MARKER

2.480298 GHz

27.94 dBm

MA SB

SC FC

CORR

CENTER 2.480298 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

10:00:52 MAR 31, 1998

TB, RTN, DAC=740, LOW VCO

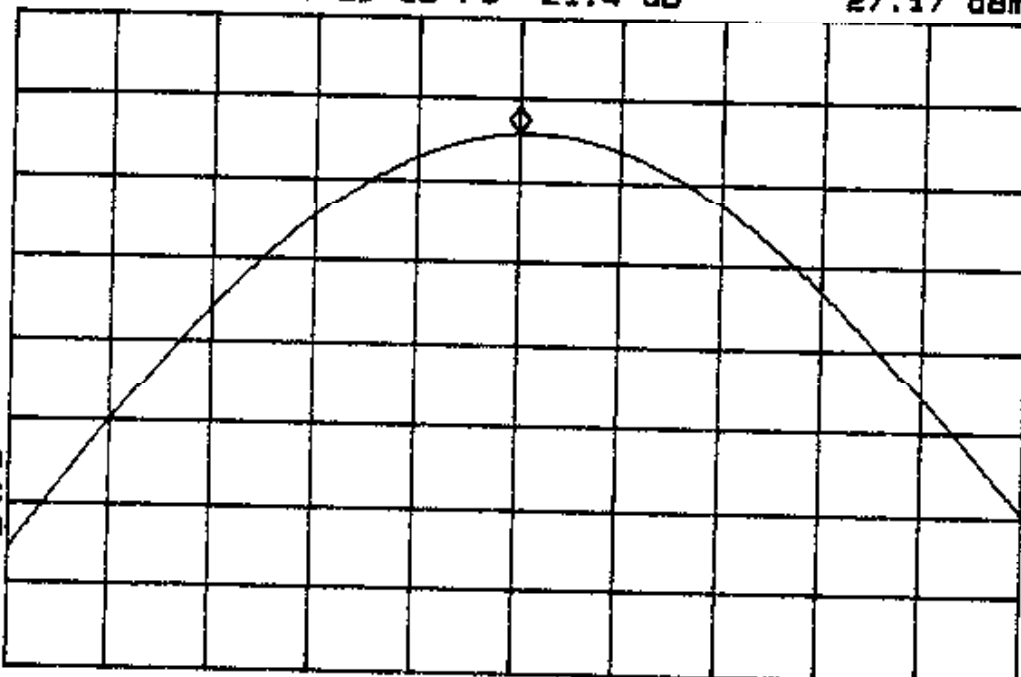
REF 30.0 dBm

AT 20 dB PG -21.4 dB

MKR 2.403500 GHz
27.17 dBm

PEAK
LOG
2
dB/

WA SB
SC FC
CORR



CENTER 2.403500 GHz
#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz
SWP 20.0 msec

10:04:25 MAR 31, 1998

TB, RTN, DAC=740, MID VCO

REF 30.0 dBm

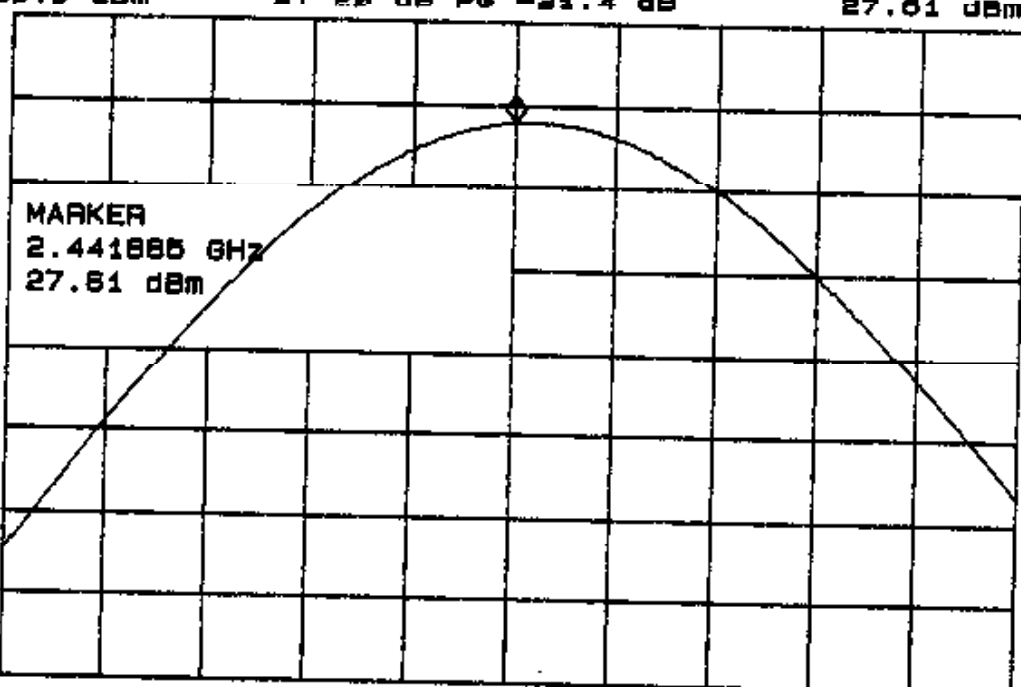
AT 20 dB PG -21.4 dB

MKR 2.441885 GHz
27.61 dBm

PEAK
LOG
2
dB/

MARKER
2.441885 GHz
27.61 dBm

WA SB
SC FC
CORR



CENTER 2.441885 GHz
#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz
SWP 20.0 msec

11:12:18 MAR 31, 1998

T5, RTN PA, DAC=700, MID VCO

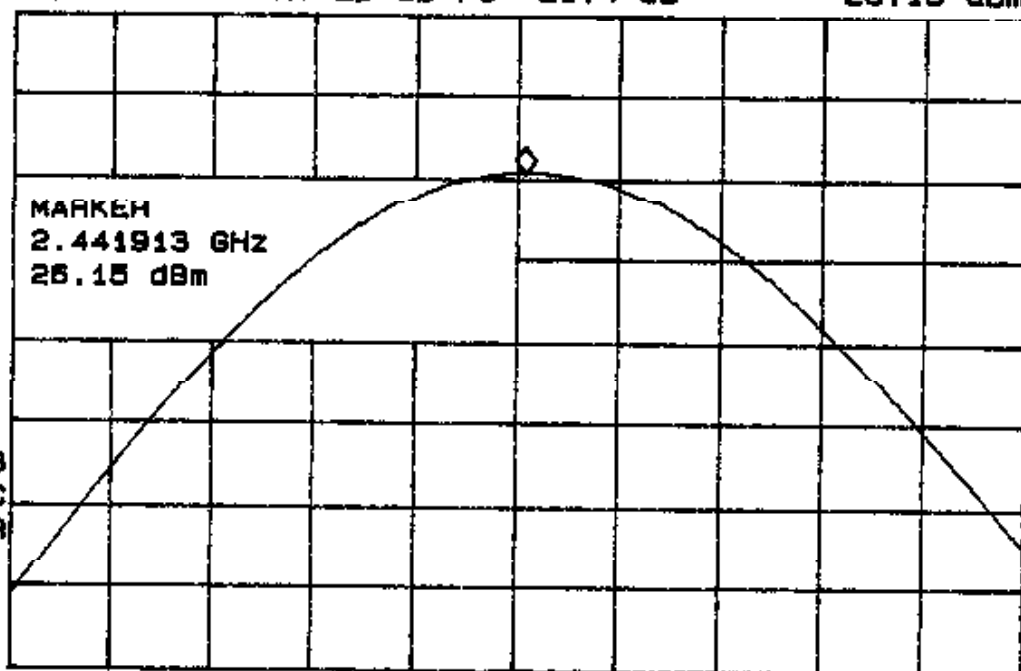
MR 2.441913 GHz

REF 30.0 dBm

AT 20 dB PG -21.4 dB

26.15 dBm

PEAK
LOG
2
dB/



CENTER 2.441898 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

11:18:37 MAR 31, 1998

T5, RTN PA, DAC=700, LOW VCO

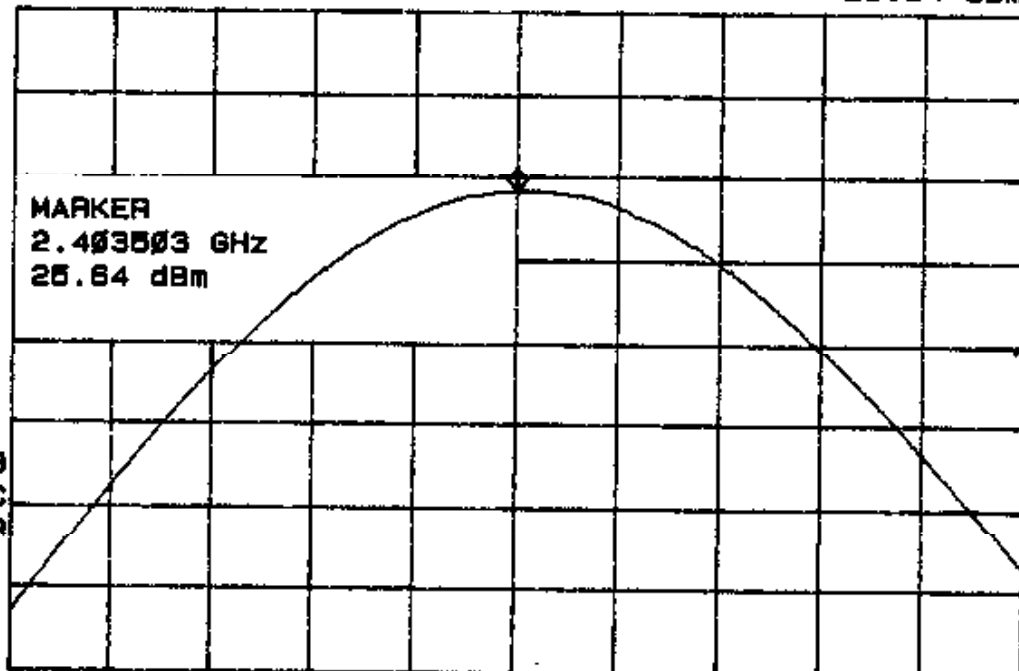
MR 2.403503 GHz

REF 30.0 dBm

AT 20 dB PG -21.4 dB

26.64 dBm

PEAK
LOG
2
dB/



CENTER 2.403503 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

10:57:57 MAR 31, 1998

T6, RTN PA, DAC=700, HI VCO

MR 2.480298 GHz

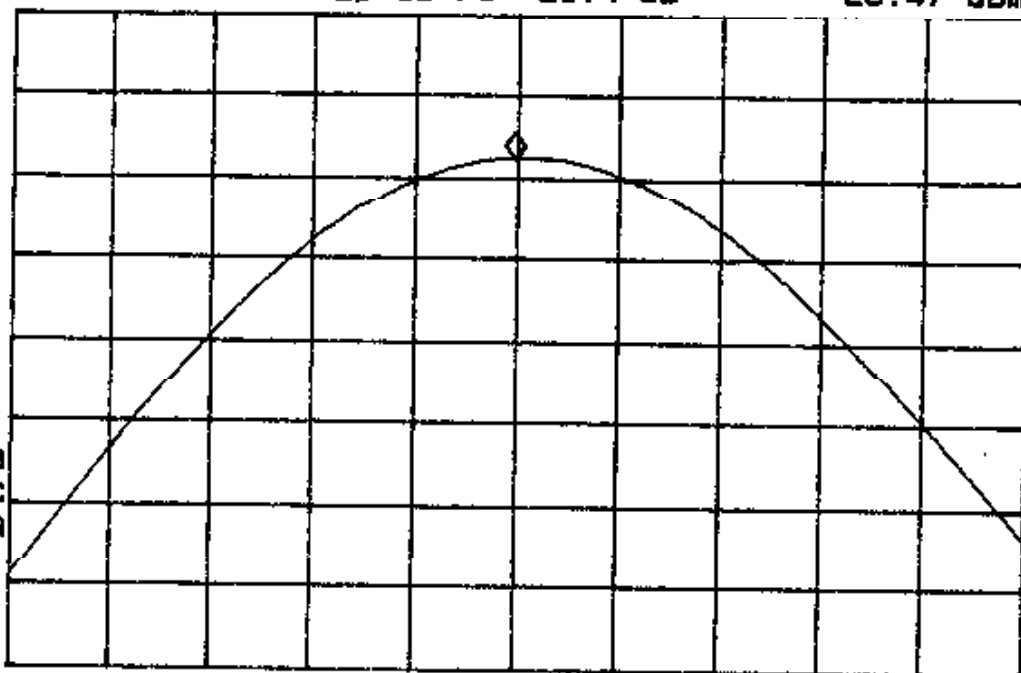
REF 30.0 dBm

AT 20 dB PG -21.4 dB

26.47 dBm

PEAK
LOG
2
dB/

MA SB
SC FC
CORR



CENTER 2.480303 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 2.000 MHz

SWP 20.0 msec

11:04:21 MAR 31, 1998

T6, FWD PA, DAC=700, HIGH BAND

MR 2.441928 GHz

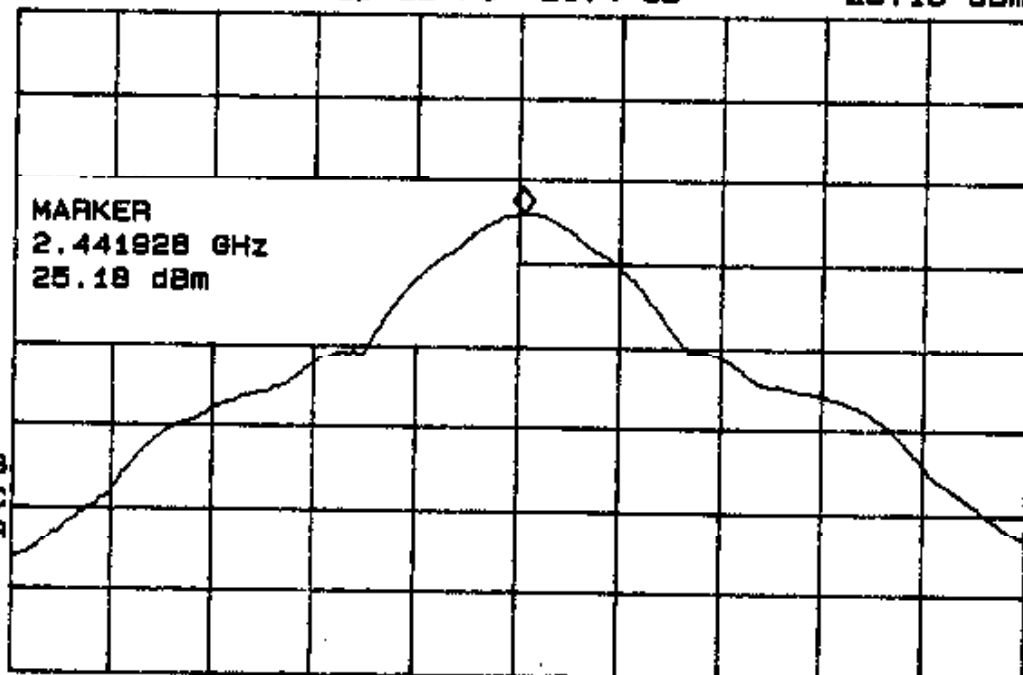
REF 30.0 dBm

AT 20 dB PG -21.4 dB

25.18 dBm

PEAK
LOG
2
dB/

MA SB
SC FC
CORR



CENTER 2.441903 GHz

#RES BW 1.0 MHz

#VBW 3 MHz

SPAN 5.000 MHz

SWP 20.0 msec