

DECLARATION OF COMPLIANCE FCC PART 24(E) EMC MEASUREMENTS

Test Lab

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Applicant Information

ITRONIX CORPORATION

801 South Stevens Street
Spokane, WA 99204

Rule Part(s):	FCC 47 CFR §24(E), §2; IC RSS-133 Issue 2
Test Procedure(s):	FCC 47 CFR §24(E), §2; ANSI TIA/EIA-603-A-2001
FCC Device Classification:	Part 24 Licensed Portable Transmitter Worn on Body (PCT)
IC Device Classification:	2GHz Personal Communication Services
Device Type:	Rugged Laptop PC with Sierra Wireless AirCard 750 PCS GSM/GPRS Modem
FCC ID:	KBCIX260AC750
Model(s):	IX260
Tx Frequency Range:	1850.25 - 1909.875 MHz
Max. RF Output Power:	0.959 Watts EIRP (29.82 dBm)
Conducted Power Tested:	27.9 dBm (1850.25 MHz) 27.9 dBm (1880.00 MHz) 27.8 dBm (1909.875 MHz)
Modulation:	GMSK
Emission Designator:	271KGXW
Frequency Tolerance:	0.1 PPM
Antenna Type:	External Dipole
Battery Type:	11.1V Lithium-Ion, 6.0Ah (Model: A2121-2)

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC 47 CFR §24(E), §2, and ANSI TIA/EIA-603-A-2001.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

This test report shall not be reproduced partially, or in full, without the prior written approval of Celltech Research Inc. The results and statements contained in this report pertain only to the device(s) evaluated.



Russell Pipe
Senior Compliance Technologist
Celltech Research Inc.



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FCC PART 24(E) EMC MEASUREMENT REPORT

1.1 SCOPE

Measurement and determination of electromagnetic emissions (EME) from radio frequency devices for compliance with the technical rules and regulations of the Federal Communications Commission and Industry Canada.

1.2 GENERAL INFORMATION - §2.1033(a)

<u>APPLICANT</u>	
ITRONIX CORPORATION 801 South Stevens Street Spokane, WA 99204	
FCC ID	KBCIX260AC750
Model(s)	IX260
Serial No.	Pre-production
EUT Type	Rugged Laptop PC with Sierra Wireless AirCard 750 PCS GSM/GPRS PCMCIA Modem Card
Rule Part(s)	FCC 47 CFR §24(E), §2; IC RSS-133 Issue 2
FCC Classification	Part 24 Licensed Portable Transmitter Worn on Body (PCT)
IC Classification	2GHz Personal Communication Services
Test Procedure(s)	FCC 47 CFR §24(E), §2; ANSI TIA/EIA-603-A-2001
Tx Frequency Range	1850.25 - 1909.875 MHz
Modulation	GMSK
Max. RF Output Power	0.959 Watts EIRP (29.82 dBm)
RF Conducted Output Power Tested	27.9 dBm (1850.25 MHz) 27.9 dBm (1880.00 MHz) 27.8 dBm (1909.875 MHz)
Emission Designator	271KGXW
Frequency Tolerance	0.1 PPM
Battery Type(s)	11.1V Lithium-Ion, 6.0Ah (Model: A2121-2)
Antenna Type	External Dipole (Length: 4.3 inches)

2.1 MEASUREMENT PROCEDURES

2.2 RF OUTPUT POWER MEASUREMENT - §2.1046

The conducted power was measured with a Gigatronics 8650A Universal Power Meter using burst average power mode. An offset was entered into the power meter to correct for the losses of the attenuator and cable installed before the sensor input. The transmitter terminal was coupled to the power meter and the EUT was placed into test mode via internal software. All subsequent tests were performed using the same tune-up procedures.

CONDUCTED POWER MEASUREMENT		
Frequency (MHz)	Average Power (dBm)	Peak Power (dBm)
1850.25	27.87	27.90
1880.00	27.88	27.96
1909.875	27.79	27.88

2.3 SPURIOUS EMISSIONS AT ANTENNA TERMINAL - §2.1051

The conducted power was measured with a Gigatronics 8650A Universal Power Meter in burst average power mode. An offset was entered into the power meter to correct for all losses of the attenuator and cable installed before the sensor input. The EUT was placed into test mode via internal software. The level of the carrier and the various conducted spurious frequencies were measured by means of a calibrated spectrum analyzer. The resolution bandwidth and video bandwidth were set to 1MHz. The spectrum was scanned from 10MHz to 20GHz at the low, medium, and high channels. The radio transmitter was operating at maximum output power. The antenna output terminal of the EUT was connected to the input of a 50Ω spectrum analyzer through a matched 30dB attenuator and coaxial cable. The reported emissions were below the specified limit of -13dBm.

2.4 OCCUPIED BANDWIDTH - §2.1049, §24.238

The EUT was placed into test mode via internal software. The EUT was then connected to the input of a 50? spectrum analyzer through a matched 30dB attenuator. The resolution bandwidth and video bandwidth were set to 3kHz. The radio transmitter was operating at maximum output power. 100% of the in-band modulation was below the specified mask per §24.238.

Specified Limits:

- On any frequency removed from the assigned carrier frequency by more than 20kHz, up to and including 45kHz, the sideband was at least 26dB below the carrier.
- On any frequency removed from the assigned carrier frequency by more than 45kHz, up to and including 90kHz, the sideband was at least 45dB below the carrier.
- On any frequency removed from the assigned carrier frequency by more than 90kHz, up to the first multiple of the carrier frequency, the sideband was at least 60dB below the carrier of $40 + \log_{10}$ (mean power output in Watts) dB, whichever was the smaller attenuation.

2.5 EFFECTIVE ISOTROPIC RADIATED POWER OUTPUT - §24.232(b)

EIRP measurements were performed using the Signal Substitution Method in accordance with ANSI TIA/EIA-603-A-2001 on a 3-meter open area test site. The EUT was placed on a turntable 3-meters from the receive antenna and placed into test mode via internal software at a full rated power. The field of maximum intensity was found by rotating the EUT approximately 360 degrees and changing the height of the receive antenna from 1 to 4 meters. Once a peak was found the spectrum analyzer was set to peak hold and the value of the emission was extracted. The field strength was recorded for each channel being tested, and for both EUT antenna polarizations and modes. A standard gain horn antenna was substituted in place of the EUT. The antenna was fed through a directional coupler and the power at the coupler port was monitored. A signal generator and power amplifier controlled the antenna, and the input level of the antenna was adjusted to the same field strength level as the EUT. The feed point for the antenna was then connected to a calibrated power meter and the power adjusted to read the same as the coupler port previously recorded, this is to account for any mismatch in impedance, which may occur at the horn antenna. The conducted power at the antenna feed point was recorded. The forward conducted power for the horn antenna was then determined and the EIRP level was determined by adding the horn forward conducted power and the antenna gain in dB.

2.6 FIELD STRENGTH OF SPURIOUS RADIATION - §2.1053

Radiated and harmonic emissions were measured on a 3-meter outdoor site. The EUT was placed into test mode via internal software at a full rated power. The EUT was placed on the turntable with the transmitter transmitting into a non-radiating load. A receiving antenna located 3 meters from the turntable received any signal radiated from the transmitter and its operating accessories. The receiving antenna was varied in height from 1 to 4 meters and the polarization was varied (horizontal and vertical) to determine the worst-case emission level. All spurious emissions made from the lowest radio frequency generated in the equipment to the tenth harmonic of the carrier were investigated.

2.7 RADIATED MEASUREMENT TEST SETUP

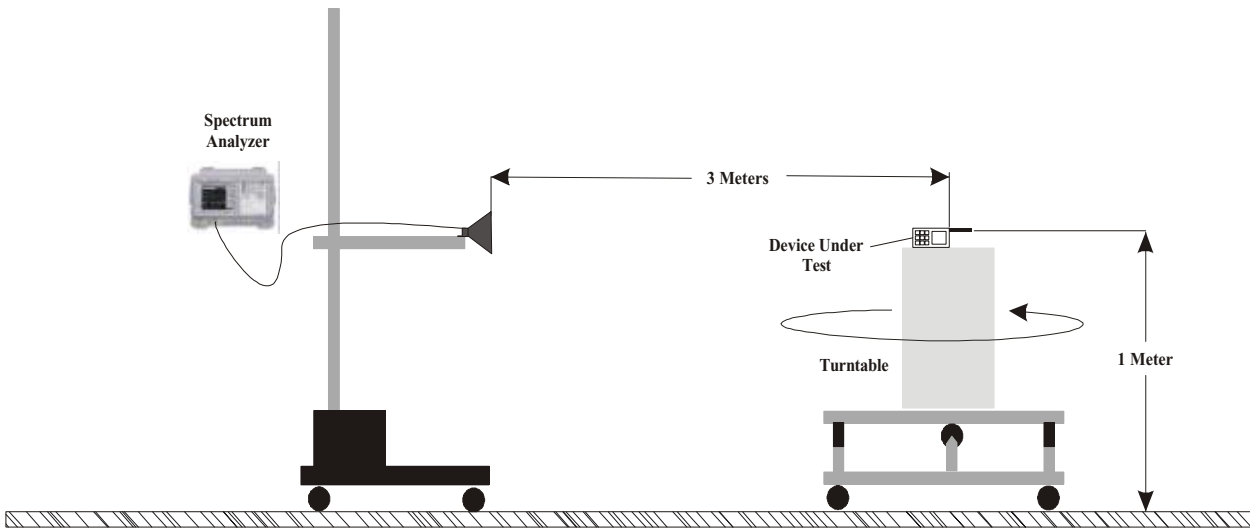


Figure 1. Radiated Measurement Test Setup Diagram



Radiated Measurement Test Setup Photograph



Signal Substitution Test Setup Photograph

2.8 FREQUENCY STABILITY / TEMPERATURE VARIATION - §2.1055, §24.235

The minimum frequency stability shall be $\pm 150\text{Hz}$ referenced to a received carrier frequency. This meets the requirement for operational accuracy of 0.00001%. An HP 53181A Frequency Counter was used to measure the error in the fundamental frequency. The transmitter was set to maximum power at the center frequency of the band.

Measurement Method:

The frequency stability of the transmitter was measured by:

1. Temperature: The temperature was varied from -30°C to $+60^{\circ}\text{C}$ at intervals no more than 10°C throughout the temperature range using an environmental chamber. A period of time sufficient to stabilize all of the components in the equipment was allowed prior to each frequency measurement.
2. Primary Supply Voltage: The primary supply voltage was set at the specified nominal rating and reduced to the battery operating endpoint specified by the manufacturer. The voltage was measured at the terminals of the power supply or at the input to the cable normally provided with the equipment.

Time Period and Procedure:

1. The carrier frequency of the transmitter was measured at room temperature (25°C to 27°C to provide a reference).
2. The equipment was subjected to an overnight "soak" at -30°C without any power applied.
3. After the overnight "soak" at -30°C , the measurement of the carrier frequency of the transmitter was made within a three-minute interval after applying power to the transmitter.
4. Frequency measurements were made at 10°C intervals up to $+60^{\circ}\text{C}$, then back to room temperature. A minimum period of one hour was provided to allow stabilization of the equipment at each temperature level.

3.1 TEST DATA

3.2 EFFECTIVE ISOTROPIC RADIATED POWER OUTPUT - §24.232(b)

Freq. Tuned	EUT Conducted Power	Maximum Field Strength of EUT	Antenna Polariz.	Horn Gain	Horn Forward Conducted Power	EIRP of EUT Horn Gain + Horn Forward Conducted Power	
MHz	dBm	dBm	H/V	dBi	dBm	dBm	Watts
1850.25	27.9	- 9.28	H	6.55	21.63	28.18	0.658
1880.00	27.9	- 9.28	H	6.58	22.41	28.99	0.793
1909.875	27.8	- 9.36	H	6.61	23.21	29.82	0.959

Notes:

1. EIRP measurements were performed in both horizontal and vertical antenna polarizations and the worst-case configuration is reported.

3.3 FIELD STRENGTH OF SPURIOUS RADIATION - §2.1053

Operating Frequency (MHz): 1850.25
Channel: 512 (Low)
EUT Conducted Pwr. (dBm): 27.90
Measured EIRP (dBm): 28.18
Modulation: GMSK
Distance: 3 Meters
Limit: $43 + 10 \log (W) = 41.18 \text{ dBc}$

Frequency	Field Strength of Spurious Radiation	Horn Forward Cond. Pwr.	Standard Gain Horn Antenna Gain	POL	EIRP	ERP	dBc
MHz	dBm	dBm	dBi	H/V	dBm	dBm	
3700.50	-86.71	-53.82	6.6	H	-47.22	-49.36	77.54
5550.75	-87.25	-49.45	7.8	H	-41.65	-43.79	71.97
7401.00	-85.18	-48.60	7.8	H	-40.80	-42.94	71.12
9251.25	-86.42	-48.40	7.6	H	-40.80	-42.94	71.12
11101.50	-85.36	-49.00	8.5	H	-40.50	-42.64	70.82
12951.75	-85.49	-47.61	8.8	H	-38.81	-40.95	69.13
14802.00	-82.32	-44.44	9.6	H	-34.84	-36.98	65.16
16652.25	-83.31	-45.48	9.0	H	-36.48	-38.62	66.80
18502.50	-83.43	-47.22	9.3	H	-37.92	-40.06	68.24

Notes:

1. Radiated spurious measurements were performed using the Signal Substitution Method per ANSI/TIA/EIA-603-A-2001.
2. All other spurious emissions generated from the lowest frequency of the EUT to the tenth harmonic were investigated and found to be below the magnitude of each harmonic level.
3. Spurious emissions more than 20 dB below the limit are reported, though not required per §2.1051.

FIELD STRENGTH OF SPURIOUS RADIATION - §2.1053 (Cont.)

Operating Frequency (MHz): 1880.00
 Channel: 661 (Mid)
 EUT Conducted Pwr. (dBm): 27.90
 Measured EIRP (dBm): 28.99
 Modulation: GMSK
 Distance: 3 Meters
 Limit: $43 + 10 \log (W) = 41.99 \text{ dBc}$

Frequency	Field Strength of Spurious Radiation	Horn Forward Cond. Pwr.	Standard Gain Horn Antenna Gain	POL	EIRP	ERP	dBc
MHz	dBm	dBm	dBi	H/V	dBm	dBm	
3760.00	-88.31	-55.42	6.6	H	-48.82	-50.96	79.95
5640.00	-87.85	-50.05	7.8	H	-42.25	-44.39	73.38
7520.00	-86.14	-49.56	7.8	H	-41.76	-43.90	72.89
9400.00	-87.23	-49.21	7.6	H	-41.61	-43.75	72.74
11280.00	-87.59	-51.23	8.5	H	-42.73	-44.87	73.86
13160.00	-86.58	-48.70	8.8	H	-39.90	-42.04	71.03
15040.00	-83.34	-45.46	9.6	H	-35.86	-38.00	66.99
16920.00	-84.11	-46.28	9.0	H	-37.28	-39.42	68.41
18800.00	-84.74	-48.53	9.3	H	-39.23	-41.37	70.36

Notes:

1. Radiated spurious measurements were performed using the Signal Substitution Method per ANSI/TIA/EIA-603-A-2001 Section 2.212.
2. All other spurious emissions generated from the lowest frequency of the EUT to the tenth harmonic were investigated and found to be below the magnitude of each harmonic level.
3. Spurious emissions more than 20 dB below the limit are reported, though not required per §2.1051.

FIELD STRENGTH OF SPURIOUS RADIATION - §2.1053 (Cont.)

Operating Frequency (MHz): 1909.875
Channel: 810 (High)
EUT Conducted Pwr. (dBm): 27.80
Measured EIRP (dBm): 29.82
Modulation: GMSK
Distance: 3 Meters
Limit: $43 + 10 \log (W) = 42.82 \text{ dBc}$

Frequency	Field Strength of Spurious Radiation	Horn Forward Cond. Pwr.	Standard Gain Horn Antenna Gain	POL	EIRP	ERP	dBc
MHz	dBm	dBm	dBi	H/V	dBm	dBm	
3819.75	-89.13	-56.24	6.6	H	-49.64	-51.78	81.60
5729.63	-88.37	-50.57	7.8	H	-42.77	-44.91	74.73
7639.50	-86.21	-49.63	7.8	H	-41.83	-43.97	73.79
9549.38	-86.54	-48.52	7.6	H	-40.92	-43.06	72.88
11459.25	-86.44	-50.08	8.5	H	-41.58	-43.72	73.54
13369.13	-82.30	-44.42	8.8	H	-35.62	-37.76	67.58
15279.00	-83.46	-45.58	9.6	H	-35.98	-38.12	67.94
17188.88	-84.68	-46.85	9.0	H	-37.85	-39.99	69.81
19098.75	-84.43	-48.22	9.3	H	-38.92	-41.06	70.88

Notes:

1. Radiated spurious measurements were performed using the Signal Substitution Method per ANSI/TIA/EIA-603-A-2001.
2. All other spurious emissions generated from the lowest frequency of the EUT to the tenth harmonic were investigated and found to be below the magnitude of each harmonic level.
3. Spurious emissions more than 20 dB below the limit are reported, though not required per §2.1051.

3.4 FREQUENCY STABILITY - §2.1055, §24.235

Test Date: 11/5/2002

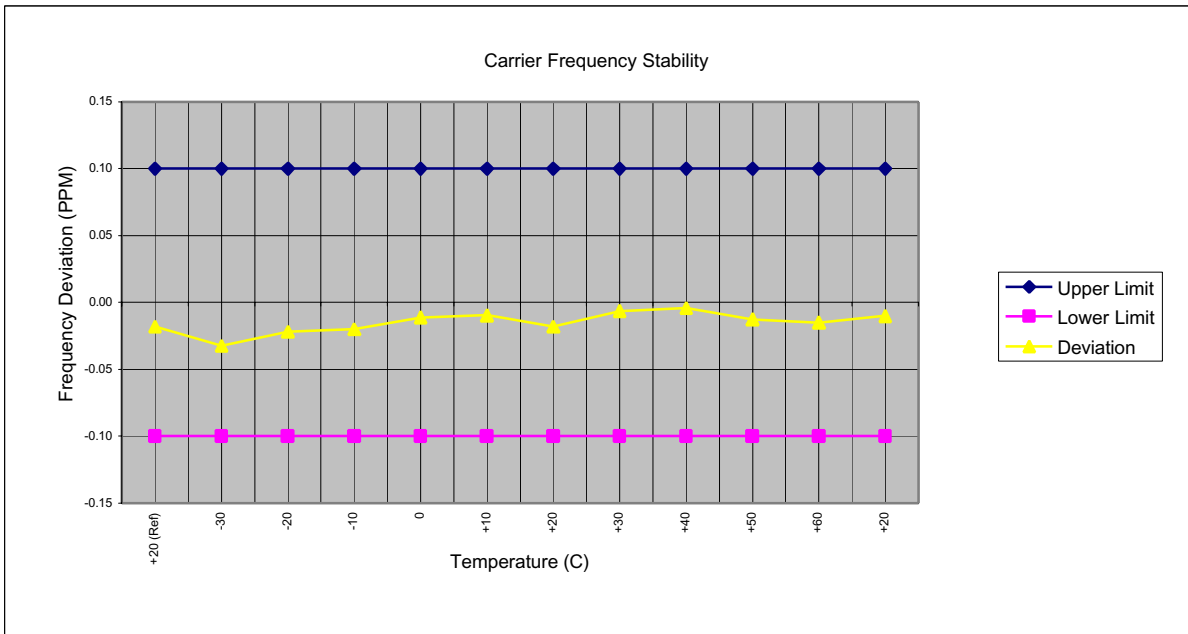
Carrier Frequency (GHz): 1.88

Channel: 661

Mode: GPRS

Deviation Limit (PPM): 0.1

Temperature (C)	Voltage (%)	Power (VDC)	Carrier Frequency Deviation		Specification	
			(Hz)	(PPM)	Lower Limit (PPM)	Upper Limit (PPM)
+20 (Ref)	100	5.5	-33.98	-0.018	0.1	-0.1
-30	100	5.5	-60.67	-0.032	0.1	-0.1
-20	100	5.5	-41.13	-0.022	0.1	-0.1
-10	100	5.5	-37.65	-0.020	0.1	-0.1
0	100	5.5	-20.88	-0.011	0.1	-0.1
+10	100	5.5	-18.19	-0.010	0.1	-0.1
+20	100	5.5	-33.98	-0.018	0.1	-0.1
+30	100	5.5	-12.26	-0.007	0.1	-0.1
+40	100	5.5	-7.71	-0.004	0.1	-0.1
+50	100	5.5	-23.54	-0.013	0.1	-0.1
+60	100	5.5	-28.12	-0.015	0.1	-0.1
+20	Endpoint	3.1	-18.83	-0.010	0.1	-0.1



4.1 TEST EQUIPMENT LIST

TEST EQUIPMENT LIST			
Equipment Type	Model	Serial No.	Calibration Due Date
HP Signal Generator	8648D (9kHz-4.0GHz)	3847A00611	Feb 2003
Rohde & Schwarz Signal Generator	SMR40 (10MHz-40GHz)	835537/022	Nov 2003
Gigatronics Power Meter	8652A	1835272	Feb 2003
Gigatronics Power Sensor	80701A (0.05-18GHz)	1833535	Feb 2003
Gigatronics Power Sensor	80701A (0.05-18GHz)	1833542	Feb 2003
Amplifier Research Power Amp.	5S1G4 (5W, 800MHz-4.2GHz)	26235	N/A
Microwave System Amplifier	HP 83017A (0.5-26.5GHz)	3123A00587	N/A
Network Analyzer	HP 8753E (30kHz-3GHz)	US38433013	Feb 2003
Audio Analyzer	HP 8903B	3729A18691	Nov 2003
Modulation Analyzer	HP 8901A	3749A07154	July 2003
Frequency Counter	HP 53181A (3GHz)	3736A05175	May 2003
DC Power Supply	HP E3611A	KR83015294	N/A
Multi-Device Controller	EMCO 2090	9912-1484	N/A
Mini Mast	EMCO 2075	0001-2277	N/A
Turntable	EMCO 2080-1.2/1.5	0002-1002	N/A
Double Ridged Horn Antenna	ETS 3115 (1-18GHz)	6267	Oct. 2003
Double Ridged Horn Antenna	ETS 3115 (1-18GHz)	6276	Oct. 2003
Horn Antenna	Chase BBHA 9120-A (0.7-4.8GHz)	9120A-239	Sept 2003
Horn Antenna	Chase BBHA 9120-A (0.7-4.8GHz)	9120A-240	Sept 2003
Roberts Dipoles	Compliance Design (2 sets) 3121C		June 2003
Spectrum Analyzer	HP 8594E	3543A02721	Feb 2003
Spectrum Analyzer	HP E4408B	US39240170	Nov 2003
Shielded Screen Room	Lindgren R.F. 18W-2/2-0	16297	N/A
Environmental Chamber	ESPEC ECT-2 (Temperature/Humidity)	0510154-B	Feb 2003

5.1 CONCLUSION

The data in this measurement report shows that the ITRONIX CORPORATION Model: IX260 FCC ID: KBCIX260AC750 Rugged Laptop PC with Sierra Wireless AirCard 750 PCS GSM/GPRS PCMCIA Modem Card complies with the requirements of FCC Rule Parts §24(E) and §2.

APPENDIX A - TEST PLOTS

hp 16:34:28 Nov 27, 2002

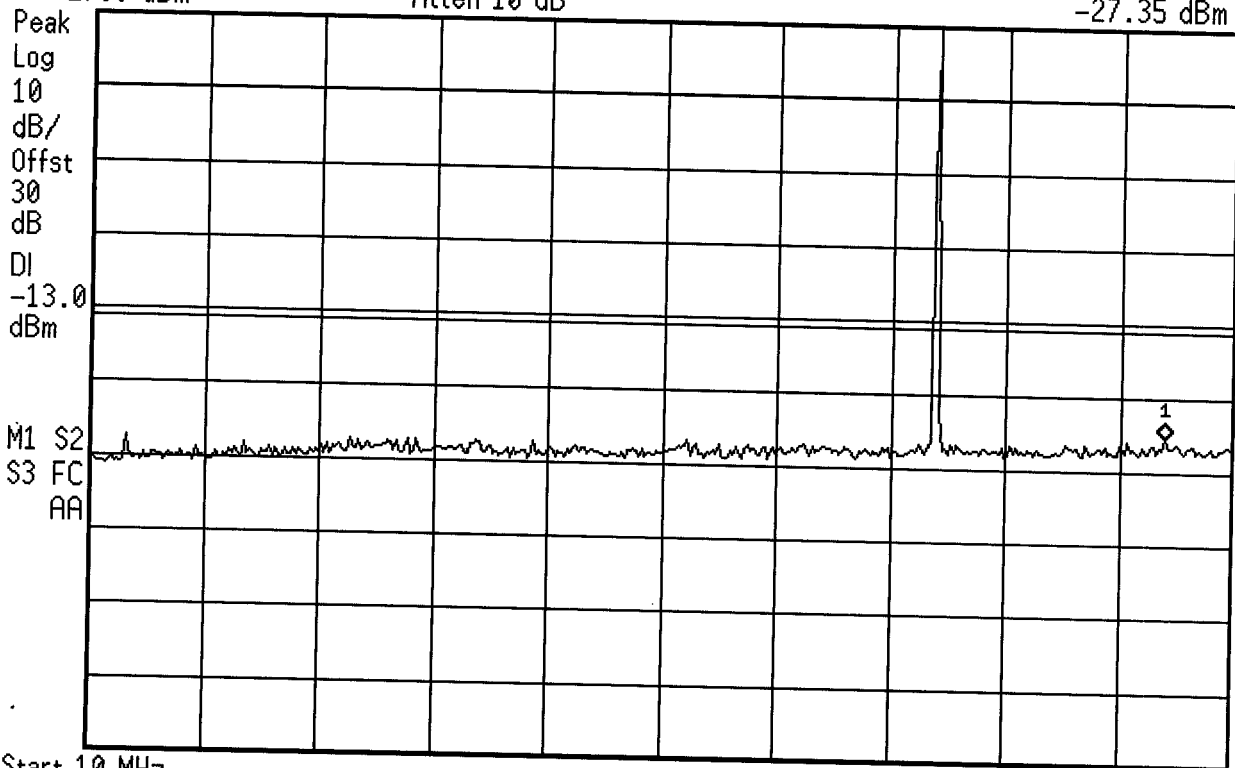
ITRONIX KBCIX260AC750 COND SPURS CH 512

Ref 27.9 dBm

Atten 10 dB

Mkr1 2.351 GHz

-27.35 dBm



Start 10 MHz

*Res BW 1 MHz

VBW 1 MHz

Stop 2.5 GHz

Sweep 6.225 ms

hp 16:35:12 Nov 27, 2002

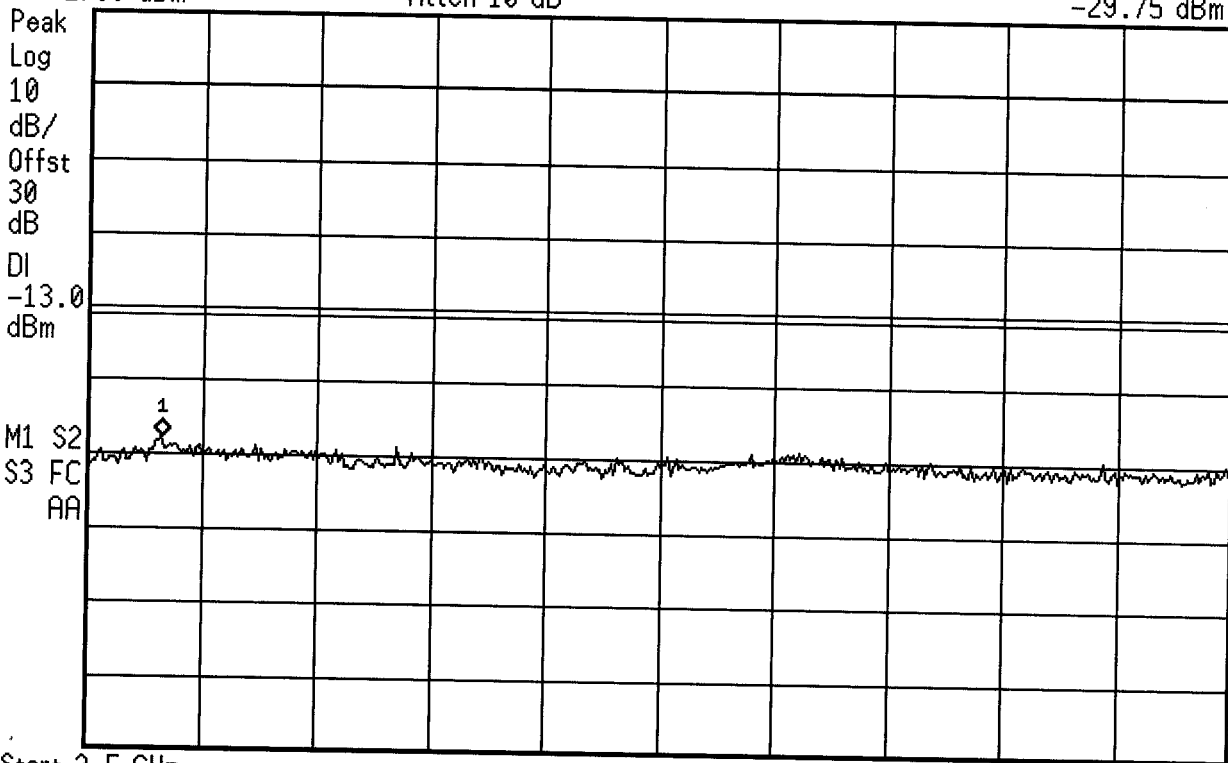
ITRONIX KBCIX260AC750 COND SPURS CH 512

Ref 27.9 dBm

Atten 10 dB

Mkr1 2.988 GHz

-29.75 dBm



Start 2.5 GHz
#Res BW 1 MHz

VBW 1 MHz

Stop 10 GHz
Sweep 18.75 ms

hp 16:35:49 Nov 27, 2002

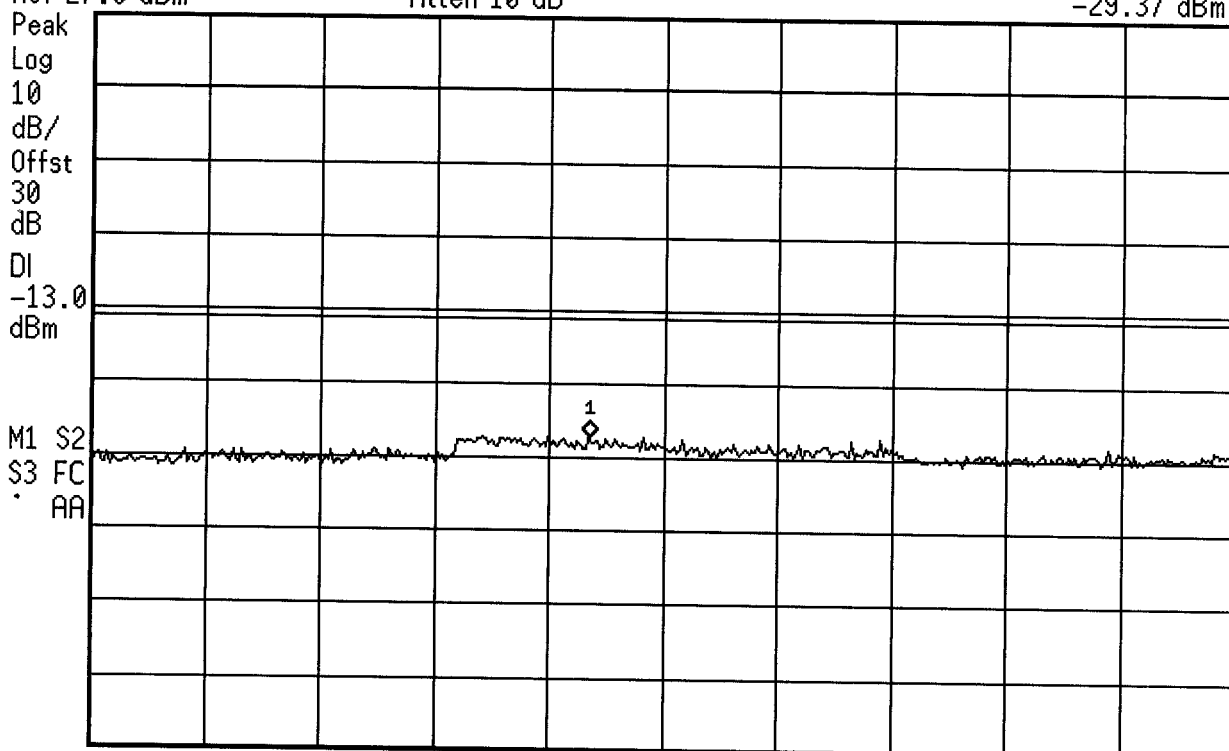
ITRONIX KBCIX260AC750 COND SPURS CH 512

Ref 27.9 dBm

Atten 10 dB

Mkr1 14.35 GHz

-29.37 dBm



Start 10 GHz

*Res BW 1 MHz

VBW 1 MHz

Stop 20 GHz

Sweep 100 ms



16:38:44 Nov 27, 2002

ITRONIX KBCIX260AC750 COND SPURS CH 661

Mkr1 2.351 GHz

Ref 27.9 dBm

Atten 10 dB

-27.39 dBm

Peak

Log

10

dB/

Offst

30

dB

DI

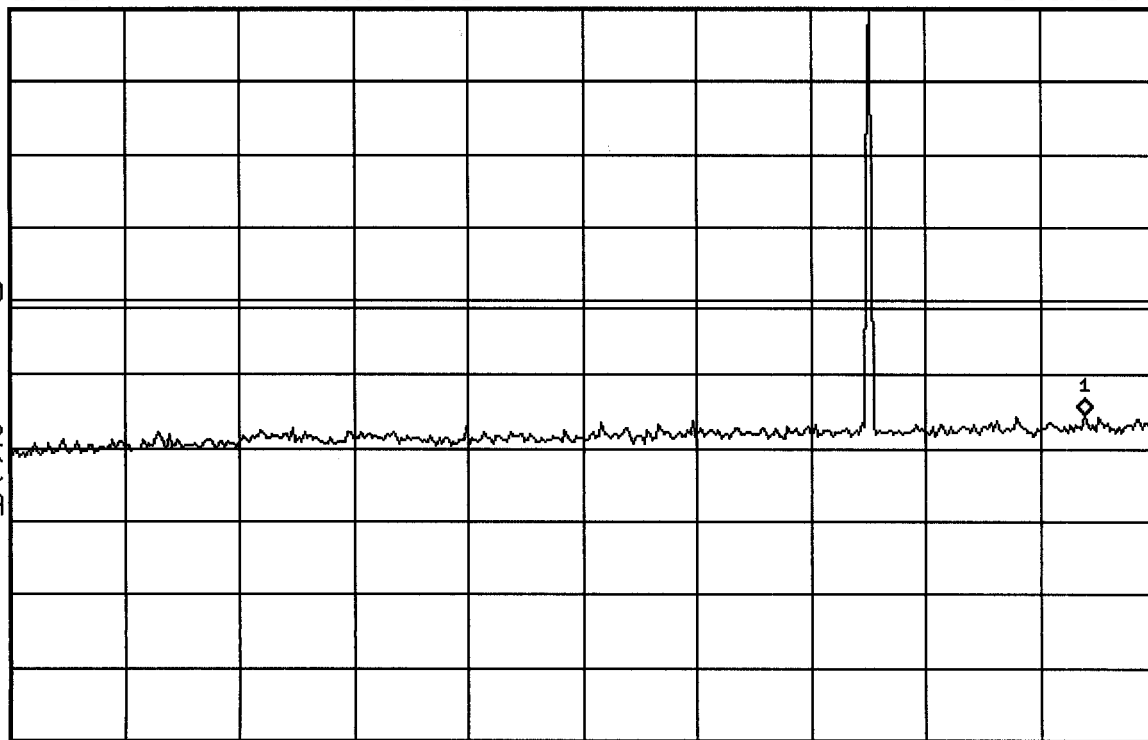
-13.0

dBm

M1 S2

S3 FC

AA



Start 10 MHz

Stop 2.5 GHz

*Res BW 1 MHz

VBW 1 MHz

Sweep 6.225 ms



16:37:41 Nov 27, 2002

ITRONIX KBCIX260AC750 COND SPURS CH 661

Mkr1 2.969 GHz

Ref 27.9 dBm

Atten 10 dB

-29.58 dBm

Peak

Log

10

dB/

Offst

30

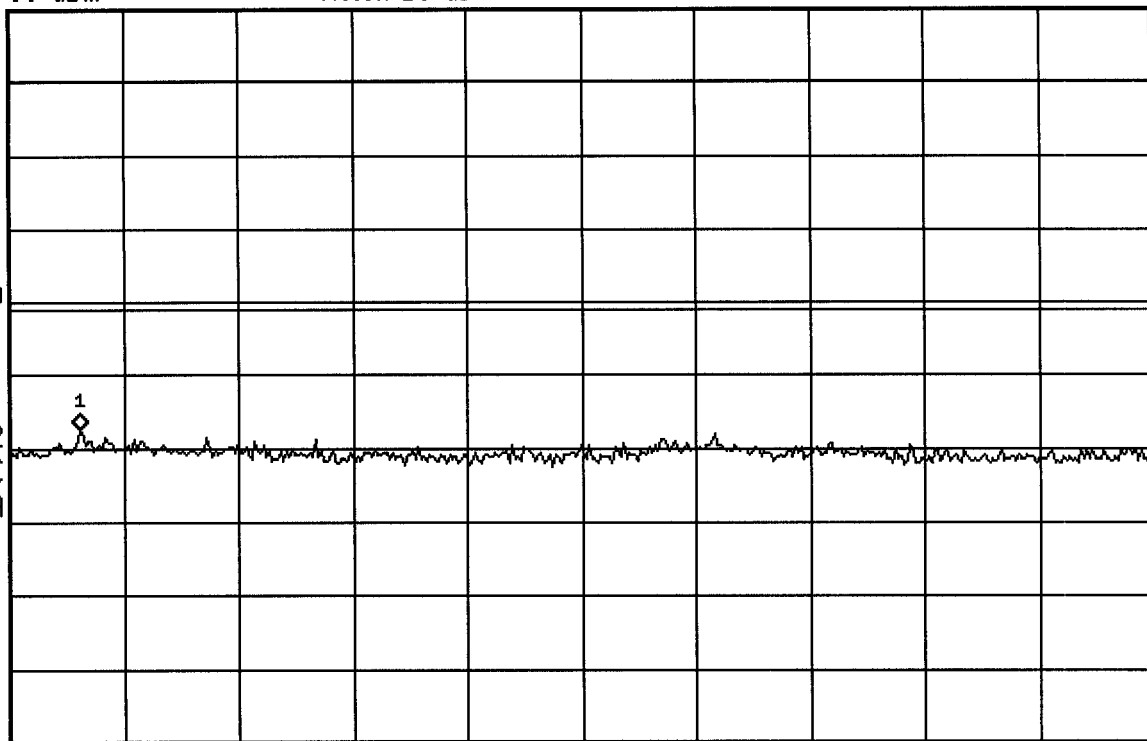
dB

DI

-13.0

dBm

M1 S2
S3 FC
AA



Start 2.5 GHz

Stop 10 GHz

*Res BW 1 MHz

VBW 1 MHz

Sweep 18.75 ms



16:36:56 Nov 27, 2002

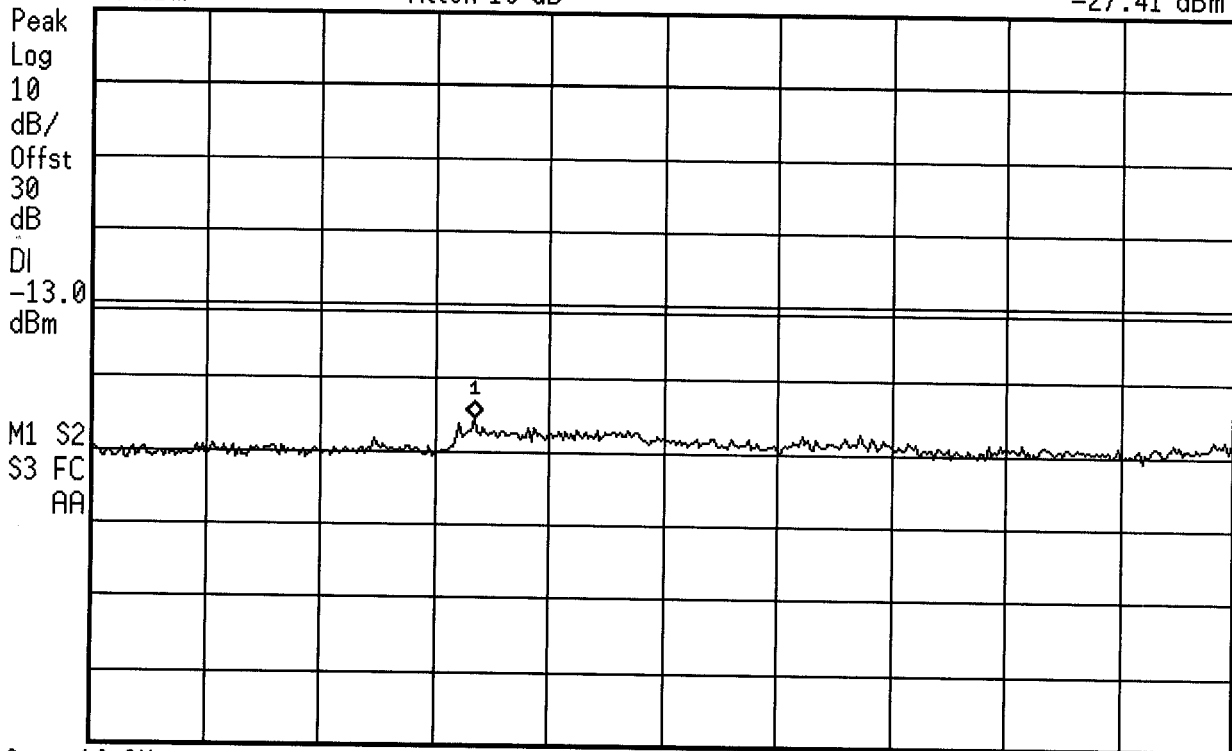
IFRONIX KBCIX260AC750 COND SPURS CH 661

Ref 27.9 dBm

Atten 10 dB

Mkr1 13.35 GHz

-27.41 dBm



Start 10 GHz

*Res BW 1 MHz

VBW 1 MHz

Stop 20 GHz

Sweep 100 ms



16:50:12 Nov 27, 2002

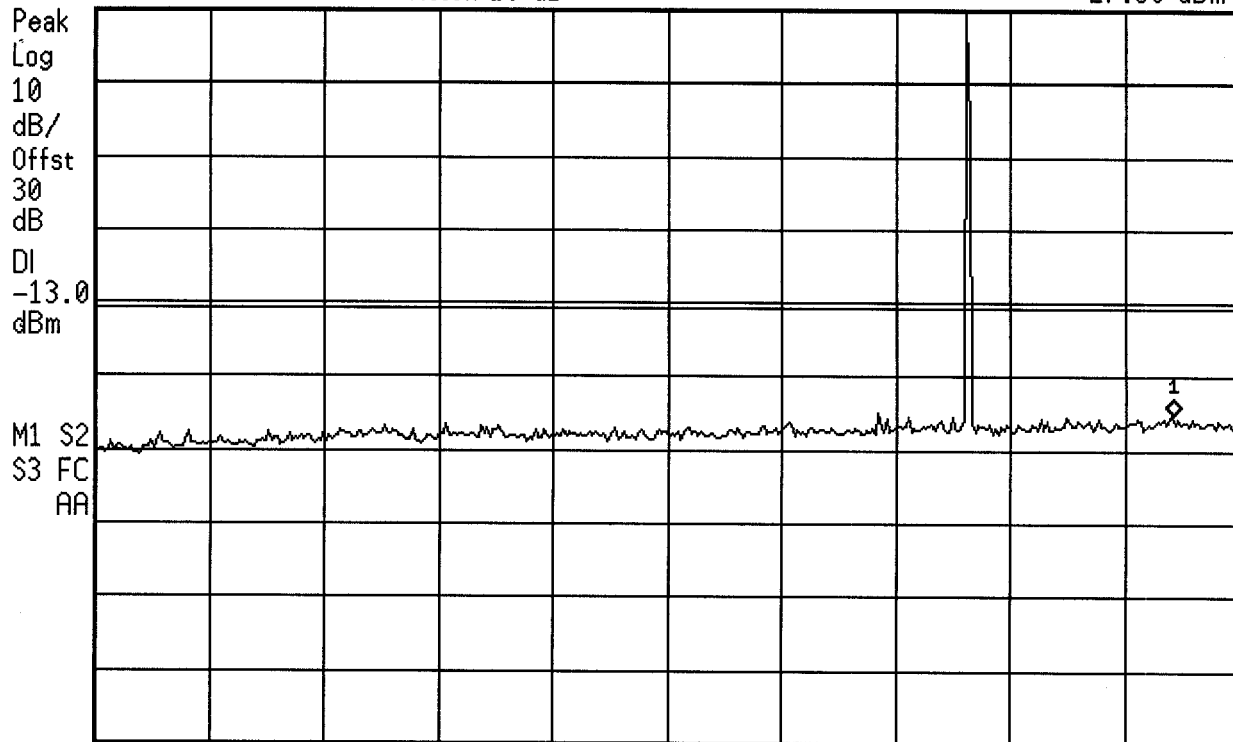
ITRONIX KBCIX260AC750 COND SPURS CH 810

Ref 27.8 dBm

Atten 10 dB

Mkr1 2.357 GHz

-27.38 dBm



Start 10 MHz
*Res BW 1 MHz

VBW 1 MHz

Stop 2.5 GHz
Sweep 6.225 ms



16:48:38 Nov 27, 2002

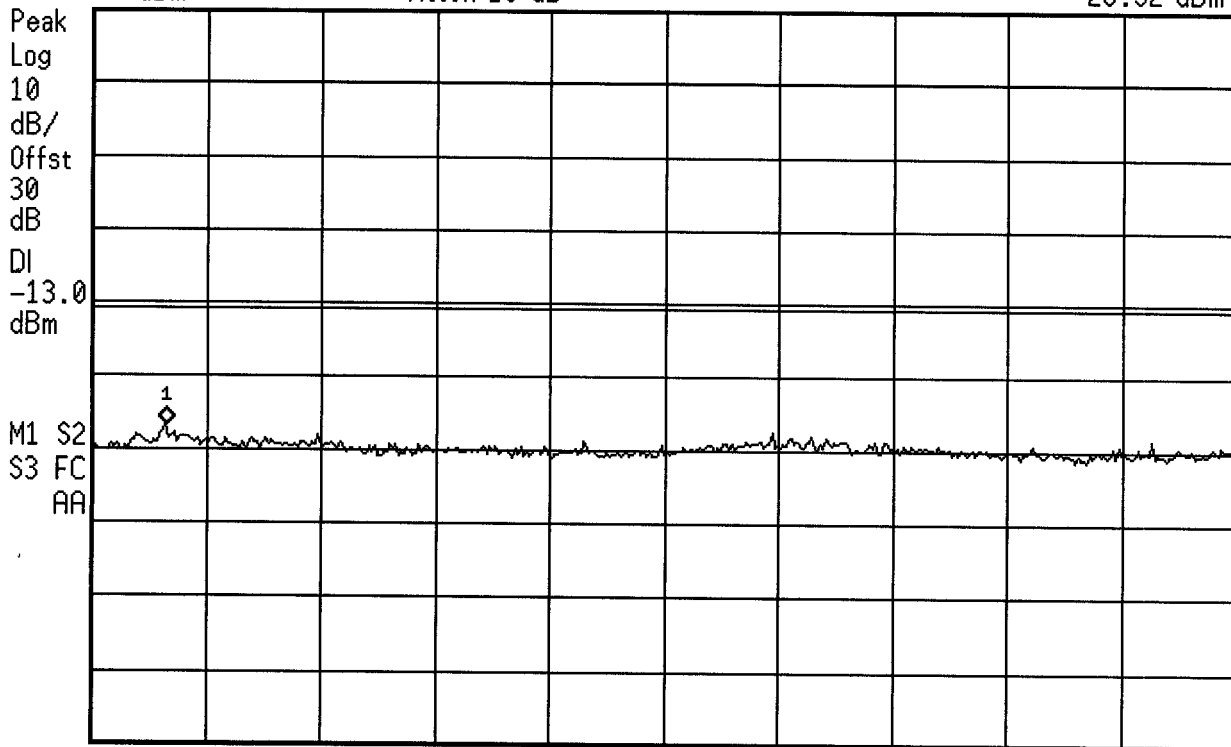
ITRONIX KBCIX260AC750 COND SPURS CH 810

Ref 27.8 dBm

Atten 10 dB

Mkr1 2.988 GHz

-28.92 dBm



Start 2.5 GHz

*Res BW 1 MHz

VBW 1 MHz

Stop 10 GHz

Sweep 18.75 ms

hp 16:44:14 Nov 27, 2002

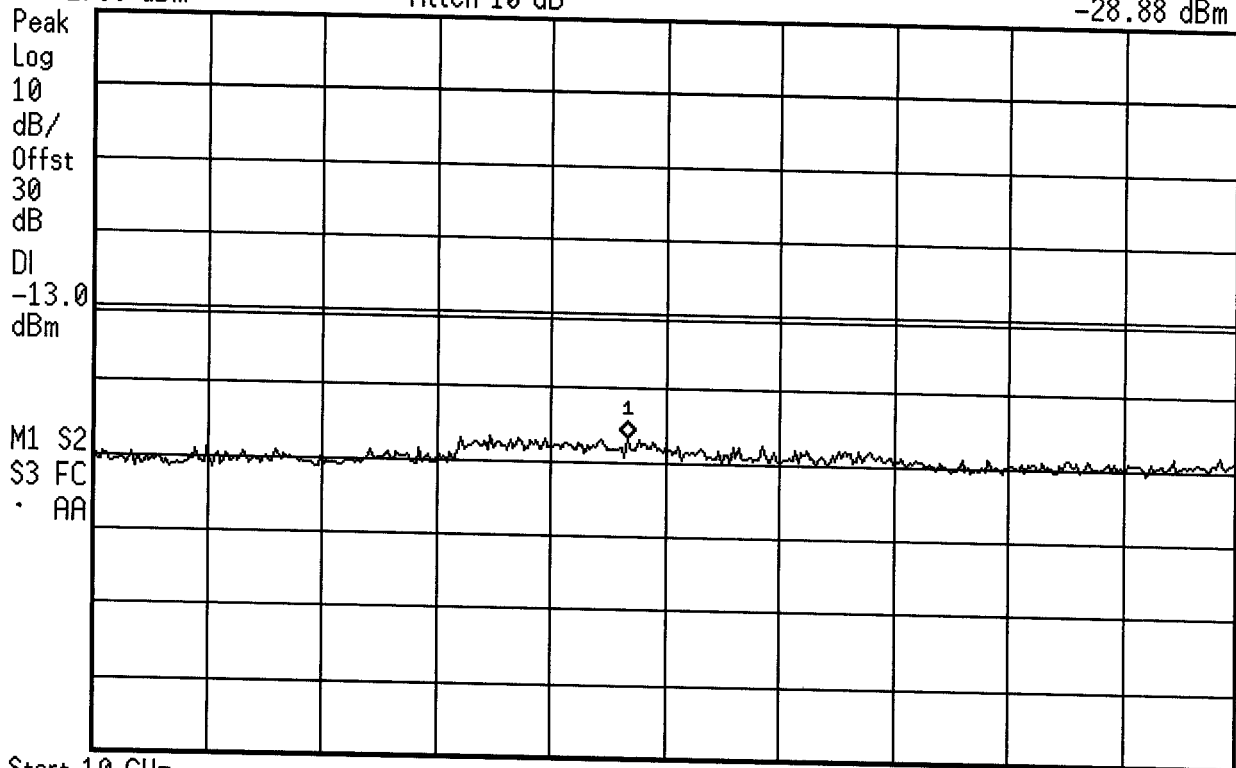
ITRONIX KBCIX260AC750 COND SPURS CH 810

Ref 27.8 dBm

Atten 10 dB

Mkr1 14.68 GHz

-28.88 dBm



Start 10 GHz
*Res BW 1 MHz

VBW 1 MHz

Stop 20 GHz
Sweep 100 ms



17:09:44 Nov 27, 2002

ITRONIX KBCIX260AC750 RECEIVER SPURS

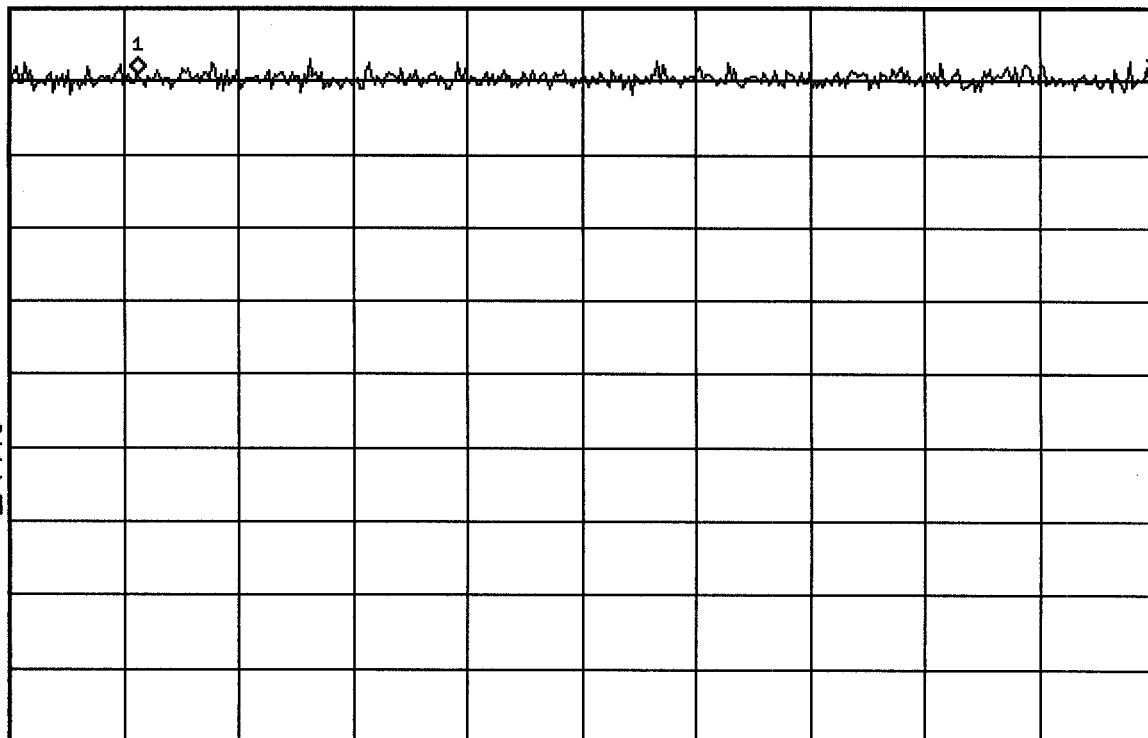
Mkr1 1.93708 GHz

Ref -51.2 dBm

Atten 5 dB

-60.43 dBm

Peak
Log
10
dB/
Offst
30
dB



W1 S2
\$3 FC
AA

Start 1.931 GHz

Stop 1.989 GHz

*Res BW 30 kHz

VBW 30 kHz

*Sweep 2 s



16:58:13 Nov 27, 2002

ITRONIX KBCIX260AC750 PCS GSM MODE CH 512

Ref 27.9 dBm

Atten 10 dB

Peak

Log

10

dB/

Offst

30

dB

DI

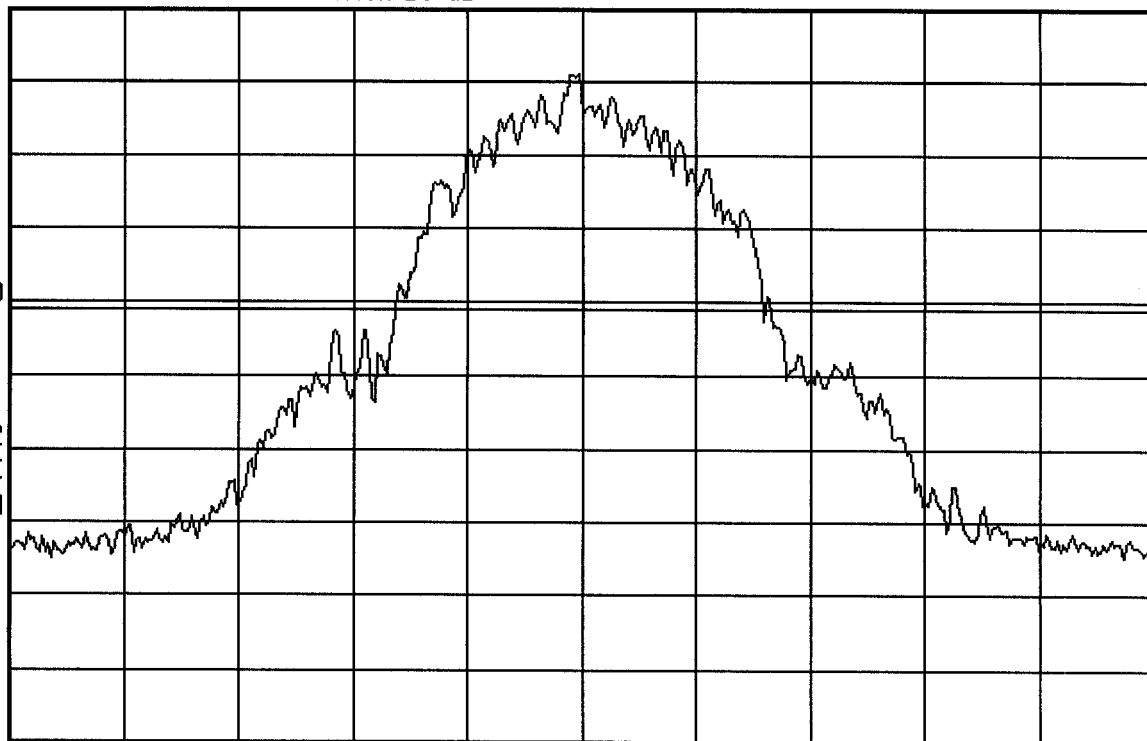
-13.0

dBm

M1 S2

S3 FC

AA



Center 1.85 GHz

*Res BW 3 kHz

VBW 3 kHz

Span 1 MHz

Sweep 277.8 ms

hp 16:59:08 Nov 27, 2002

ITRONIX KBCIX260AC750 PCS GSM MODE CH 661

Ref 27.9 dBm

Atten 10 dB

Peak

Log

10

dB/

Offst

30

dB

DI

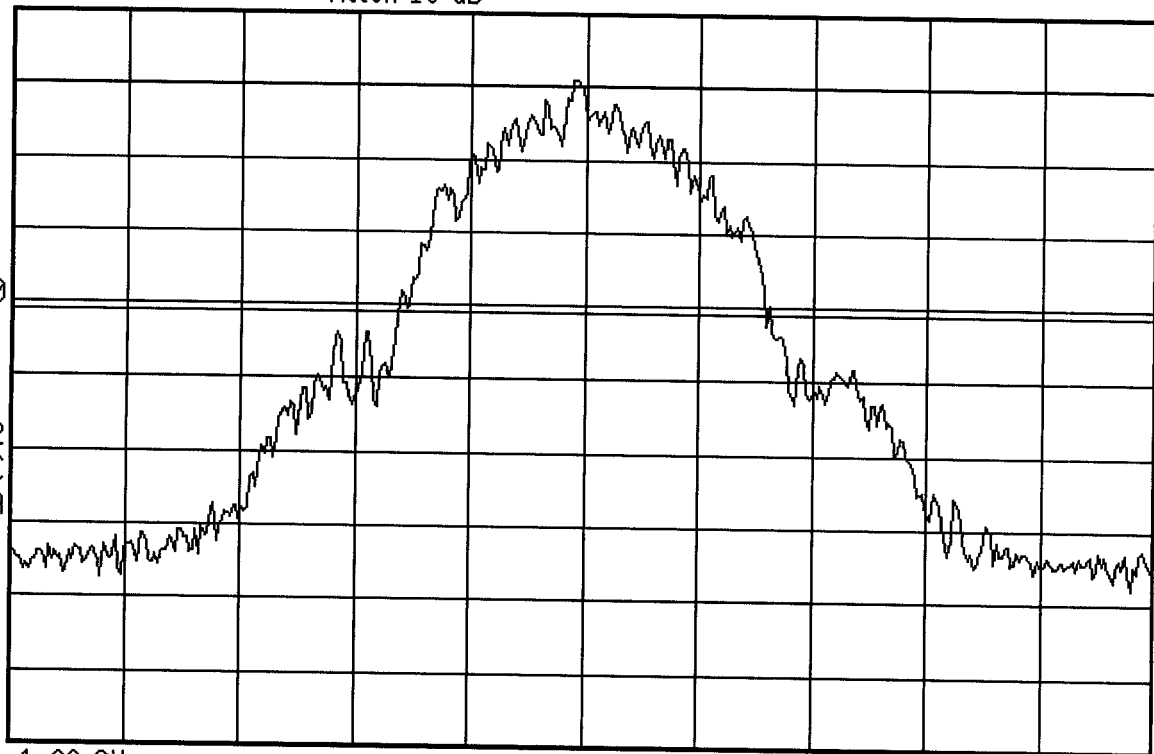
-13.0

dBm

M1 S2

S3 FC

AA



Center 1.88 GHz

*Res BW 3 kHz

VBW 3 kHz

Span 1 MHz

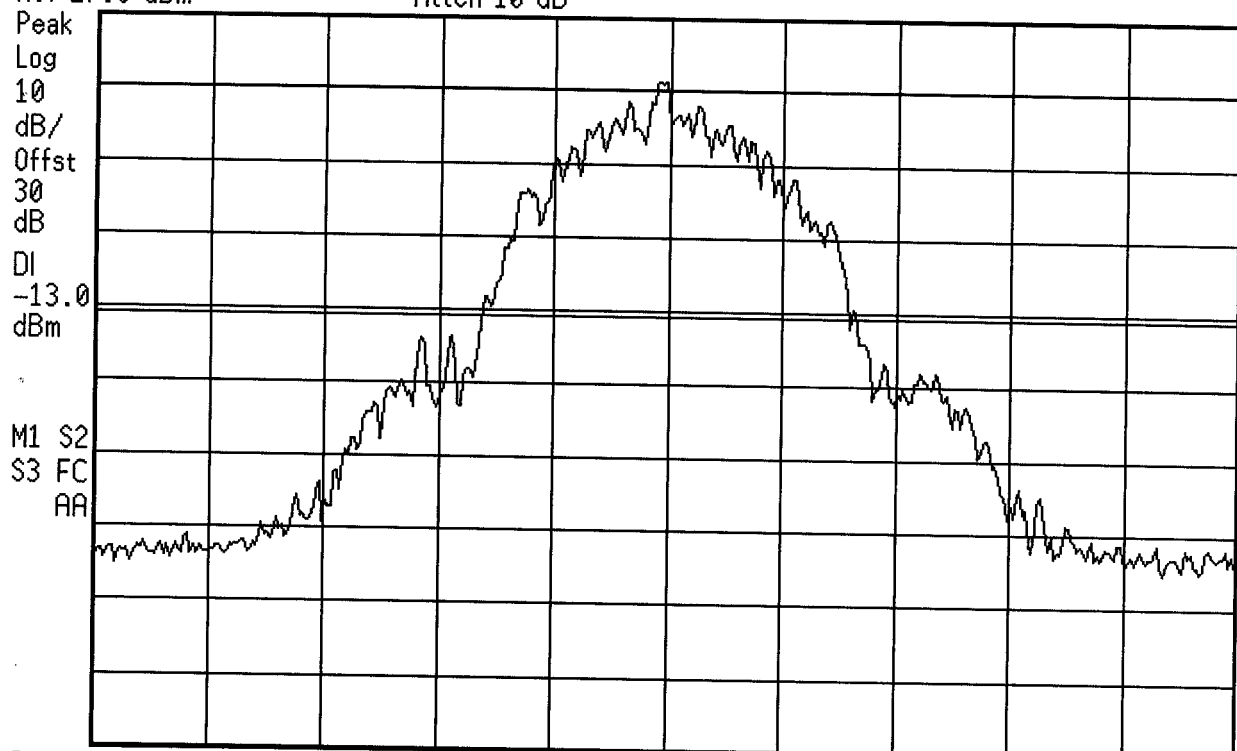
Sweep 277.8 ms

hp 16:54:23 Nov 27, 2002

ITRONIX KBCIX260AC750 PCS GSM MODE CH 810

Ref 27.8 dBm

Atten 10 dB



Center 1.91 GHz

*Res BW 3 kHz

VBW 3 kHz

Span 1 MHz

Sweep 277.8 ms



17:01:57 Nov 27, 2002

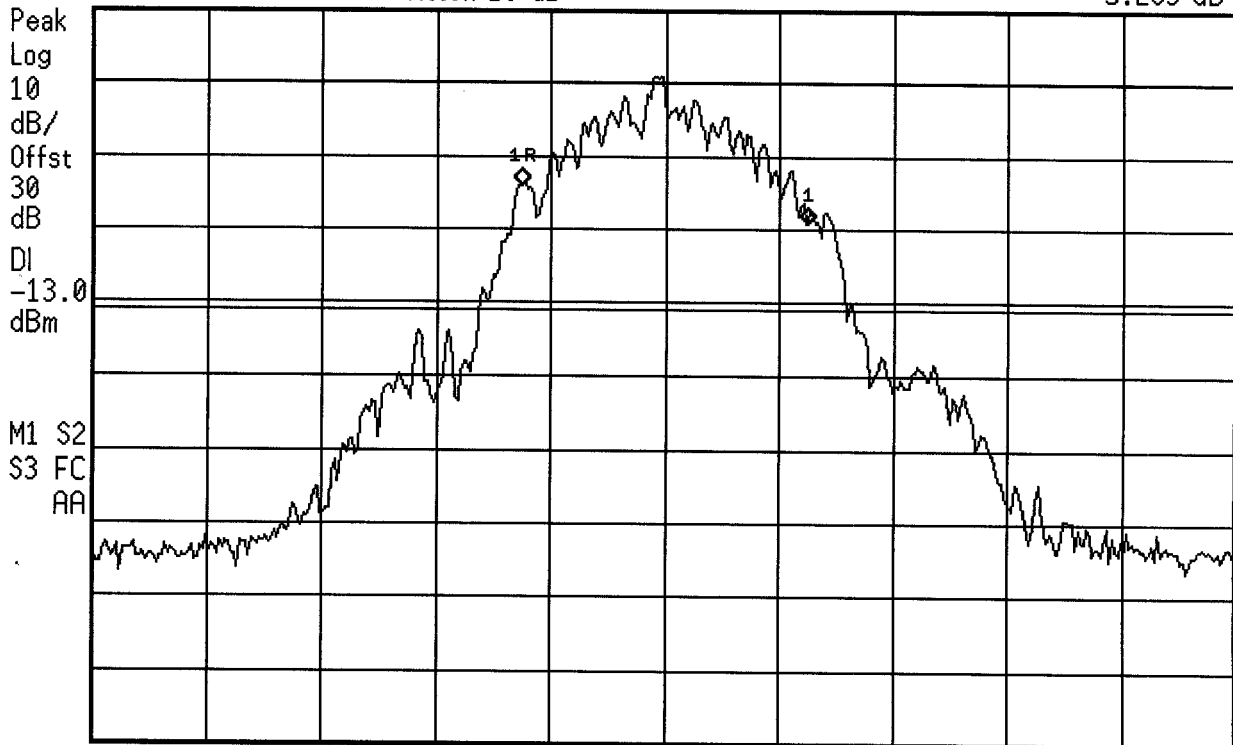
ITRONIX KBCIX260AC750 OCCUPIED BANDWIDTH

▲ Mkr1 250 kHz

Ref 27.9 dBm

Atten 10 dB

-5.263 dB



Center 1.88 GHz

*Res BW 3 kHz

VBW 3 kHz

Span 1 MHz

Sweep 277.8 ms

hp 17:03:57 Nov 27, 2002

ITRONIX KBCIX260AC750 BAND EDGE LOW CH

Mkr1 1.850010 GHz

Ref 27.9 dBm

Atten 10 dB

-16.23 dBm

Peak

Log

10

dB/

Offst

30

dB

DI

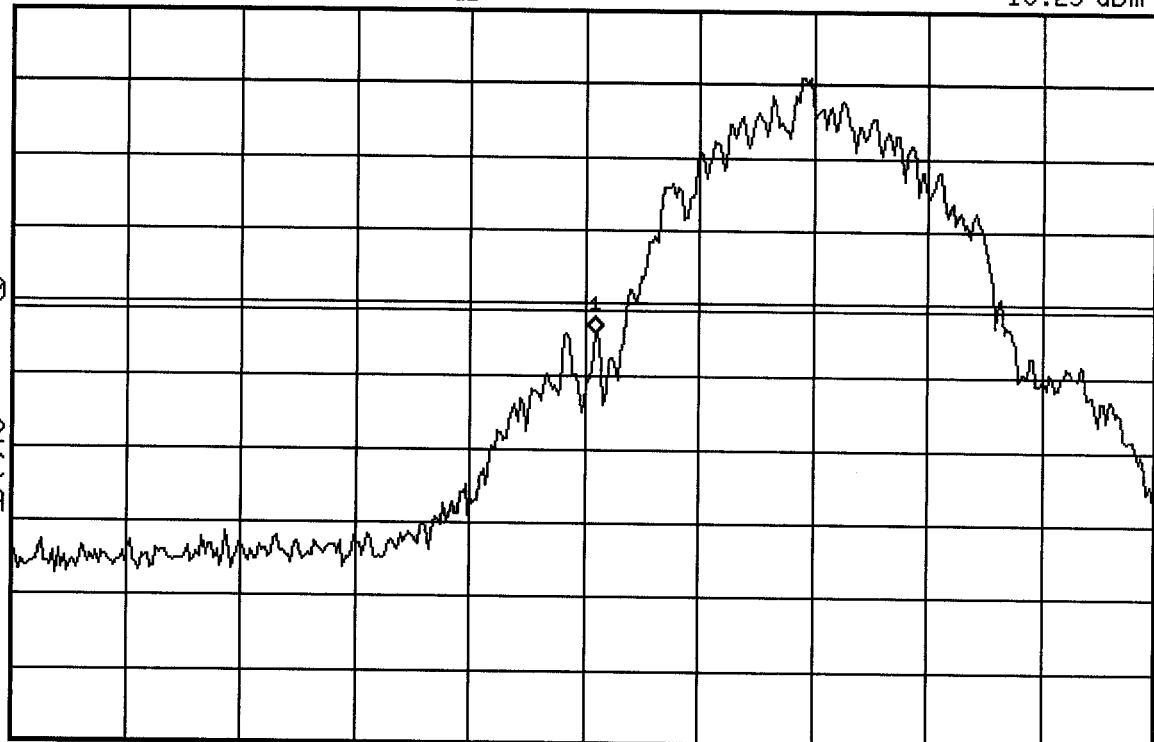
-13.0

dBm

M1 S2

S3 FC

AA



Center 1.85 GHz

*Res BW 3 kHz

VBW 3 kHz

Span 1 MHz

Sweep 277.8 ms



17:06:58 Nov 27, 2002

ITRONIX KBCIX260AC750 BAND EDGE HIGH CH

Mkr1 1.909613 GHz

Ref 27.8 dBm

Atten 10 dB

-15.8 dBm

Peak

Log

10

dB/

Offst

30

dB

DI

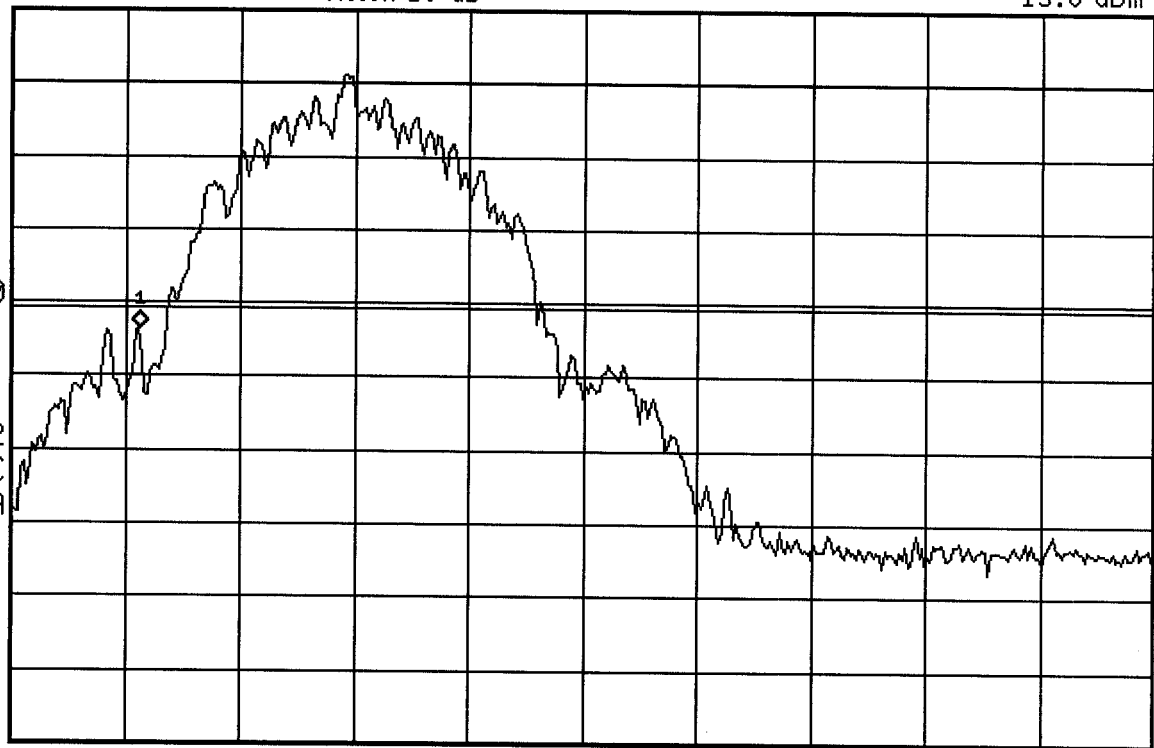
-13.0

dBm

M1 S2

S3 FC

AA



Center 1.91 GHz

Span 1 MHz

*Res BW 3 kHz

VBW 3 kHz

Sweep 277.8 ms