

CERTIFICATE OF COMPLIANCE **FCC PART 90 CERTIFICATION**

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Applicant Information:

ITRONIX CORPORATION
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FCC Classification:	Non-Broadcast Station Transmitter (TNB)
FCC Rule Part(s):	§90, §2
FCC ID:	KBCT5200RIM801D
Model(s):	T5200
Equipment Type:	Rugged Laptop PC with RIM 801D ARDIS Radio Modem
Tx Frequency Range:	806 - 825 MHz
Rx Frequency Range:	851 - 870 MHz
Max. RF Output Power:	1.2 Watts
Frequency Tolerance:	2.5 PPM
Emission Designator:	20K0F1D

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 §2.947.

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.

Celltech Research Inc. certifies that no party to this application has been denied FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853(a).



Shawn McMillen
General Manager
Celltech Research Inc.



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MEASUREMENT REPORT - FCC PART 90

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.

§2.1033(a) General Information

<u>APPLICANT:</u> ITRONIX CORPORATION 801 South Stevens Street Spokane, WA 98024 Attn: Fred Phillips, Certification Engineer Phone: 509-742-1506 Fax: 509-626-4204

FCC ID	KBCT5200RIM801D
Model(s)	T5200
EUT Type	Rugged Laptop PC with RIM 801D ARDIS Radio Modem
Classification	Licensed Non-Broadcast Station Transmitter (TNB)
Rule Part(s)	§90, §2
Max. RF Output Power	1.2 Watts
Tx Freq. Range	806-825 MHz
Rx Freq. Range	851-870 MHz
Emission Designator	20K0F1D
Signal Modulation	FSK
Modes Tested	Unmodulated Carrier, RD-LAP, MDC

2.1 MEASUREMENT PROCEDURES

2.2 OCCUPIED BANDWIDTH - §2.1049(c)

The antenna output terminal of the EUT was connected to the input of a 50Ω spectrum analyzer through a matched 30dB attenuator. The radio transmitter was operating at maximum output power with and without internal data modulation.

Test Results

A. UNMODULATED CARRIER – High power

30.0dBm conducted power with a 30dB matched attenuator and coaxial cable with a total loss of 1.0dB.

B. INTERNAL MODULATION

Please see attached test plots. 100% of the in-band modulation is below the specified mask per 90.210(g) for both RD-LAP and MDC protocols.

Emission Mask 806-821MHz (ARDIS)

FREQUENCY (MHz)	FORMULA	LIMIT (dBc)
-26500	$43+10 \log (P)$	- 46
-0.050	$43+10 \log (P)$	- 46
-0.050	$50+10 \log (P)$	- 53
-0.0175	$116 \log (f_d / 6.1)$	- 53
-0.010	$116 \log (f_d / 6.1)$ or $83 \log ((f_d / 5))$	- 25
-0.005	$83 \log ((f_d / 5))$	0.0
0.005	$83 \log ((f_d / 5))$	0.0
0.010	$116 \log (f_d / 6.1)$ or $83 \log ((f_d / 5))$	- 25
0.0175	$116 \log (f_d / 6.1)$	- 53
0.050	$50+10 \log (P)$	- 53
0.050	$43+10 \log (P)$	- 46
26500	$43+10 \log (P)$	- 46

2.3 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL - §2.1051

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from 10MHz to 20GHz. The transmitter is modulated with a 2500Hz tone at a level of 16dB greater than that required to provide 50% modulation. 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 transmitter was operating at maximum power with and without internal data modulation.

2.4 RADIATED SPURIOUS AND HARMONIC EMISSIONS - §2.1053

Radiated and harmonic emissions above 1 GHz were measured at our 3-meter outdoor site. The EUT is placed on the turntable with the transmitter transmitting into a non-radiating load. A receiving antenna located 3 meters from the turntable receives any signal radiated from the transmitter and its operating accessories. The receiving antenna is varied from 1 to 4 meters to determine the worst-case emission level.

2.5 FREQUENCY STABILITY/TEMPERATURE VARIATION - §2.1055

The frequency stability of the transmitter is measured by:

- a) Temperature: The temperature is varied from -30°C to +60°C using an environmental chamber.
- b) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied. The EUT is tested down to the battery endpoint.

Specification – The minimum frequency stability shall be +/- 0.00025% at any time during normal operation.

Time Period and Procedure:

1. The carrier frequency of the transmitter and the individual oscillators is measured at room temperature (25°C to 27°C to provide a reference).
2. The equipment is subjected to an overnight “soak” at -30°C without any power applied.
3. After the overnight “soak” at -30°C (usually 14-16 hours), the equipment is turned on in a “standby” condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter and the individual oscillators is made within a three-minute interval after applying power to the transmitter.
4. Frequency measurements were made at 10°C intervals up to +60°C then back to room temperature. A minimum period of one and one half-hour is provided to allow stabilization of the equipment at each temperature level.

3.1 TEST DATA

3.2 EFFECTIVE RADIATED POWER OUTPUT - §2.1046

Freq. Tuned (MHz)	EUT Conducted Power (dBm)	Max. Field Strength of EUT (dBm)	Polarization (H/V)	Dipole Gain (dBd)	Dipole Forward Conducted Power (dBm)	ERP of EUT Dipole Gain + Dipole Forward Conducted Power	
						dBm	Watts
806	30.0	- 7.05	V	- 1.64	31.05	29.42	0.88
815	30.0	- 7.33	V	- 1.54	32.25	30.71	1.18
821	30.0	- 8.89	V	- 1.44	30.73	29.29	0.85

Notes:

ERP Measurements by Substitution Method:

The EUT was placed on a turntable 3-meters from the receive antenna. 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. The field strength was recorded from a calibrated spectrum analyzer for each channel being tested. A half-wave dipole was substituted in place of the EUT. The dipole was fed through a directional coupler and the power at the coupler port was monitored. A signal generator and power amplifier controlled the dipole, and the input level of the dipole was adjusted to the same field strength level as the EUT. The feed point for the dipole 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 dipole antenna. The conducted power at the antenna feed point was recorded. The forward power for the dipole was then determined and the ERP level was determined by adding the forward dipole power and the dipole gain in dB. For readings above 1GHz the above method is repeated using standard gain horn antennas.

3.3 FIELD STRENGTH OF SPURIOUS RADIATION – §2.1053

Operating Frequency: 806 MHz
 Channel: Low
 Measured Conducted Power: 30.00 dBm
 Modulation: unmodulated carrier
 Distance: 3 meters
 Limit: $43 + 10 \log_{10} (W) = 39.47 \text{ dBc}$

Frequency (MHz)	Level (dBm)	Horn Forward Cond. Pwr. (dBm)	Standard-Gain Horn Antenna Gain (dBi)	POL (H/V)	EIRP (dBm)	ERP (dBm)	dBc
1612	≤ - 55.74	- 27.31	9.04	V	- 18.27	- 20.41	49.83
2418	≤ - 59.24	- 26.85	10.40	V	- 16.45	- 18.59	48.01
3224	≤ - 73.31	- 37.72	10.85	V	- 26.87	- 29.01	58.43
4030	< - 74.58						

Notes:

Radiated Measurements by Substitution Method:

The EUT was placed on a turntable 3-meters from the receive antenna. 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. The field strength was recorded from a calibrated spectrum analyzer for each channel being tested. 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 power for the antenna was then determined and the EIRP level was determined by adding the forward power and the antenna gain in dB.

Operating Frequency: 815 MHz
 Channel: Mid
 Measured Conducted Power: 30.00dBm
 Modulation: unmodulated carrier
 Distance: 3 meters
 Limit: $43 + 10 \log_{10} (W) = 39.47 \text{ dBc}$

Frequency (MHz)	Level (dBm)	Horn Forward Cond. Pwr. (dBm)	Standard-Gain Horn Antenna Gain (dBi)	POL (H/V)	EIRP (dBm)	ERP (dBm)	dBc
1630	≤ -56.32	-28.35	9.37	V	-18.98	-21.12	51.83
2445	≤ -60.31	-28.12	10.41	V	-17.71	-19.85	50.56
3260	≤ -74.76	-41.68	10.89	V	-30.79	-32.93	63.64
4075	< -74.86						

Notes:

Radiated Measurements by Substitution Method:

The EUT was placed on a turntable 3-meters from the receive antenna. 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. The field strength was recorded from a calibrated spectrum analyzer for each channel being tested. 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 power for the antenna was then determined and the EIRP level was determined by adding the forward power and the antenna gain in dB.

Operating Frequency: 821 MHz
 Channel: High
 Measured Conducted Power: 30.00 dBm
 Modulation: unmodulated carrier
 Distance: 3 meters
 Limit: $43 + 10 \log_{10} (W) = 39.47 \text{ dBc}$

Frequency (MHz)	Level (dBm)	Horn Forward Cond. Pwr. (dBm)	Standard-Gain Horn Antenna Gain (dBi)	POL (H/V)	EIRP (dBm)	ERP (dBm)	dBc
1642	≤ - 56.41	- 28.66	9.39	V	- 19.27	- 21.41	50.70
2463	≤ - 59.07	- 27.93	10.41	V	- 17.52	- 19.66	48.95
3284	≤ - 70.29	- 35.46	10.95	V	- 24.51	- 26.65	55.94
4105	< - 73.37						

Notes:

Radiated Measurements by Substitution Method:

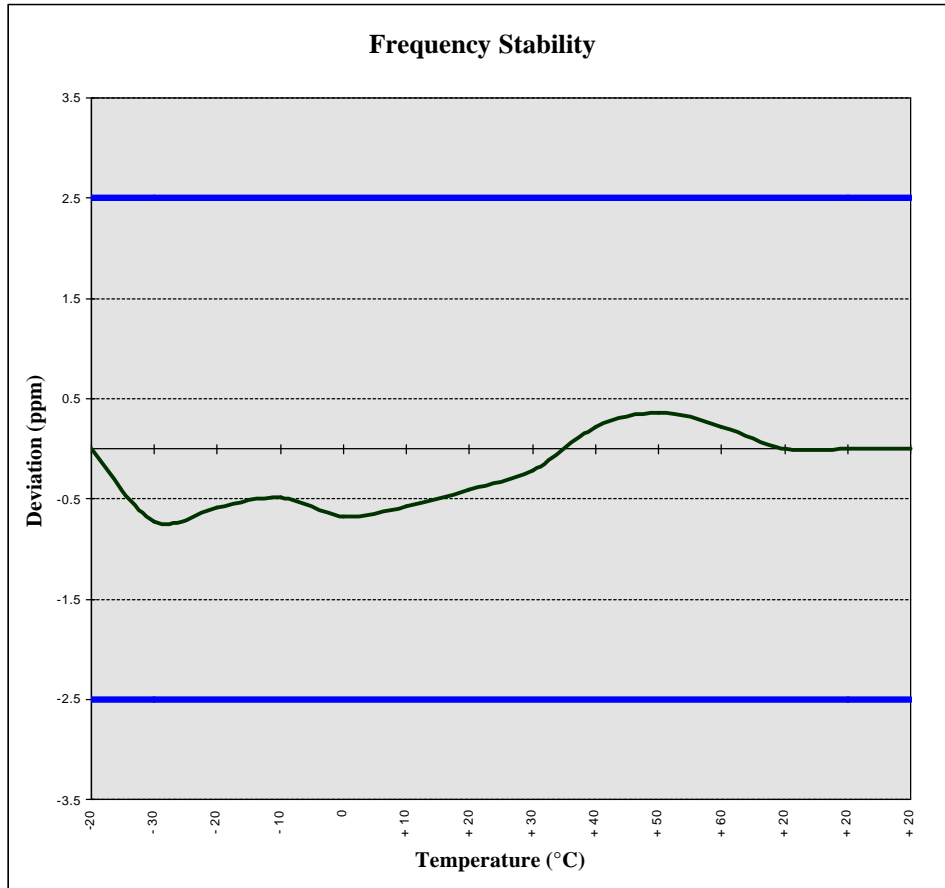
The EUT was placed on a turntable 3-meters from the receive antenna. The field of maximum intensity was found by rotating the EUT approximately 360 degrees and changing the height of the receive antenna from 1 to 4 meters. The field strength was recorded from a calibrated spectrum analyzer for each channel being tested. 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 power for the antenna was then determined and the EIRP level was determined by adding the forward power and the antenna gain in dB.

3.4 FREQUENCY STABILITY - § 2.1055

Operating Frequency: 815,000,000 Hz
 Channel: Mid
 Reference Voltage: 7.0 VDC
 Deviation Limit: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQ. (Hz)	Deviation (%)
100 %	7.00	+ 20 (Ref)	815000000	0.00000000
100 %		- 30	815000591.8	-0.00000073
100 %		- 20	815000477.3	-0.00000059
100 %		- 10	815000395.5	-0.00000049
100 %		0	815000549.9	-0.00000067
100 %		+ 10	815000467.5	-0.00000057
100 %		+ 20	815000332.3	-0.00000041
100 %		+ 30	815000177.6	-0.00000022
100 %		+ 40	814999823.2	0.00000022
100 %		+ 50	814999703.7	0.00000036
100 %		+ 60	814999822.2	0.00000022
85 %		N/A	+ 20	815000000
115 %	N/A	+ 20	815000000	0.00000000
BATT. ENDPOINT	N/A	+ 20	815000000	0.00000000

FREQUENCY STABILITY - § 2.1055



4.1 TEST EQUIPMENT

<u>Type</u>	<u>Model</u>	<u>Calib. Date</u>	<u>Serial No.</u>
Signal Generator	HP 8648D (9kHz-4.0GHz)	Nov 1999	3847A00611
Gigatronics Power Meter	8652A	Oct 1999	1835272
Gigatronics Power Sensor (2)	80701A (0.05-18GHz)	Oct 1999	1833535, 1833542
Amplifier Research Power Amp.	5S1G4 (5W, 800MHz-4.2GHz)	N/A	26235
Microwave System Amplifier	HP 83017A (0.5-26.5GHz)	N/A	3123A00587
Network Analyzer	HP 8753E (30kHz-3GHz)	Nov 1999	US38433013
Audio Analyzer	HP 8903B	March 1999	3729A18691
Modulation Analyzer	HP 8901A	March 1999	3749A07154
Frequency Counter	HP 53181A (3GHz)	May 1999	3736A05175
DC Power Supply	HP E3611A	N/A	KR83015294
Multi-Device Controller	EMCO 2090	N/A	9912-1484
Mini Mast	EMCO 2075	N/A	0001-2277
Turntable	EMCO 2080-1.2/1.5	N/A	0002-1002
Double Ridged Horn Antenna	ETS 3115 (1-18GHz)	Oct. 2000	N/A
Double Ridged Horn Antenna	ETS 3115 (1-18GHz)	Oct. 2000	N/A
Horn Antenna	Chase BBHA 9120-A (0.7-4.8GHz)	Sept 1998	9120A-239
Horn Antenna	Chase BBHA 9120-A (0.7-4.8GHz)	Sept 1998	9120A-240
Roberts Dipoles	Compliance Design (2 sets) 3121C	June 2000	
Spectrum Analyzer	HP 8594E	March 2000	3543A02721
Spectrum Analyzer	HP E4408B	Nov 1999	US39240170
Shielded Screen Room	Lindgren R.F. 18W-2/2-0	N/A	16297
Environmental Chamber	ESPECTECT-2 (Temperature/Humidity)	Feb 2000	0510154-B

5.1 CONCLUSION

The data collected shows that the ITRONIX T5200 Rugged Laptop PC with RIM 801D ARDIS Radio Modem FCC ID: KBCT5200RIM801D complies with all the requirements of Parts 2 and 90 of the FCC rules.

TEST PLOTS

Conducted Spurious Test Plots

hp 08:45:17 Oct 27, 2000

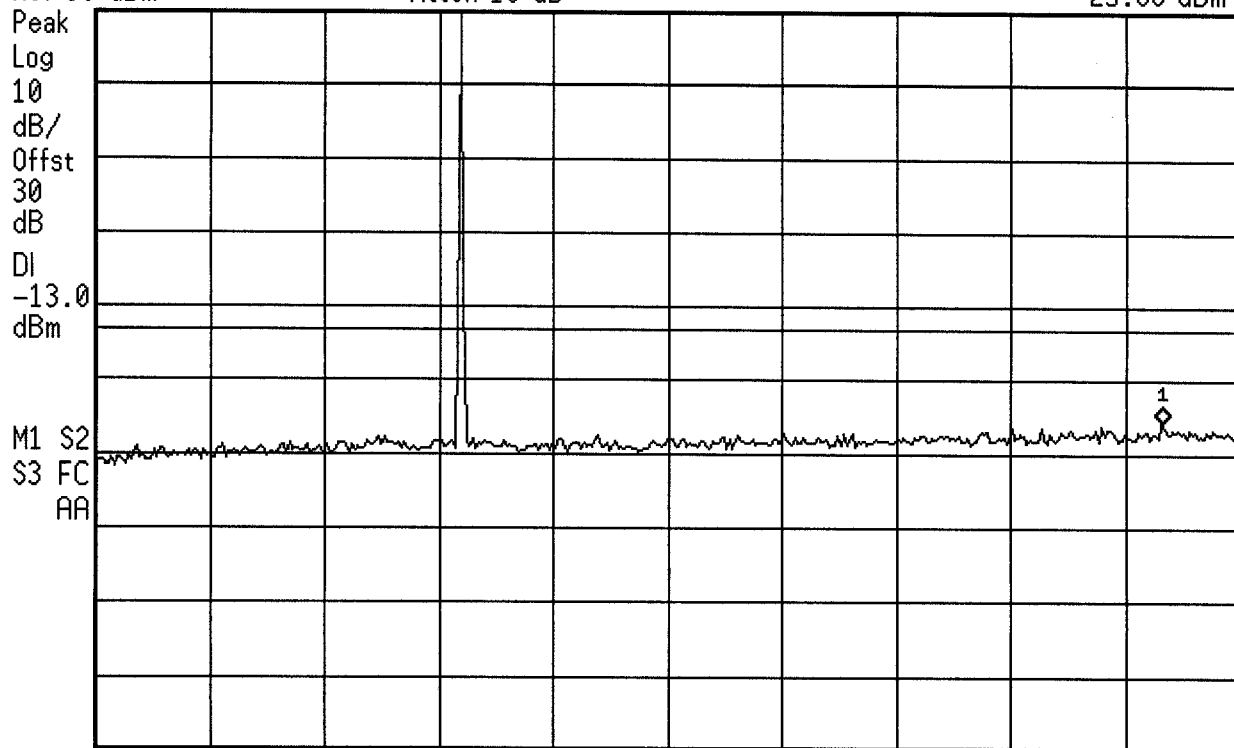
ITRONIX FCC ID: KBCT5200RIM801D CH 806

Mkr1 2.332 GHz

Ref 30 dBm

Atten 10 dB

-25.68 dBm



Start 10 MHz

*Res BW 1 MHz

VBW 1 MHz

Stop 2.5 GHz

Sweep 6.225 ms

hp 08:45:53 Oct 27, 2000

ITRONIX FCC ID: KBCT5200RIM801D CH 806

Mkr1 2.988 GHz

Ref 30 dBm

Atten 10 dB

-27.41 dBm

Peak

Log

10

dB/

Offst

30

dB

DI

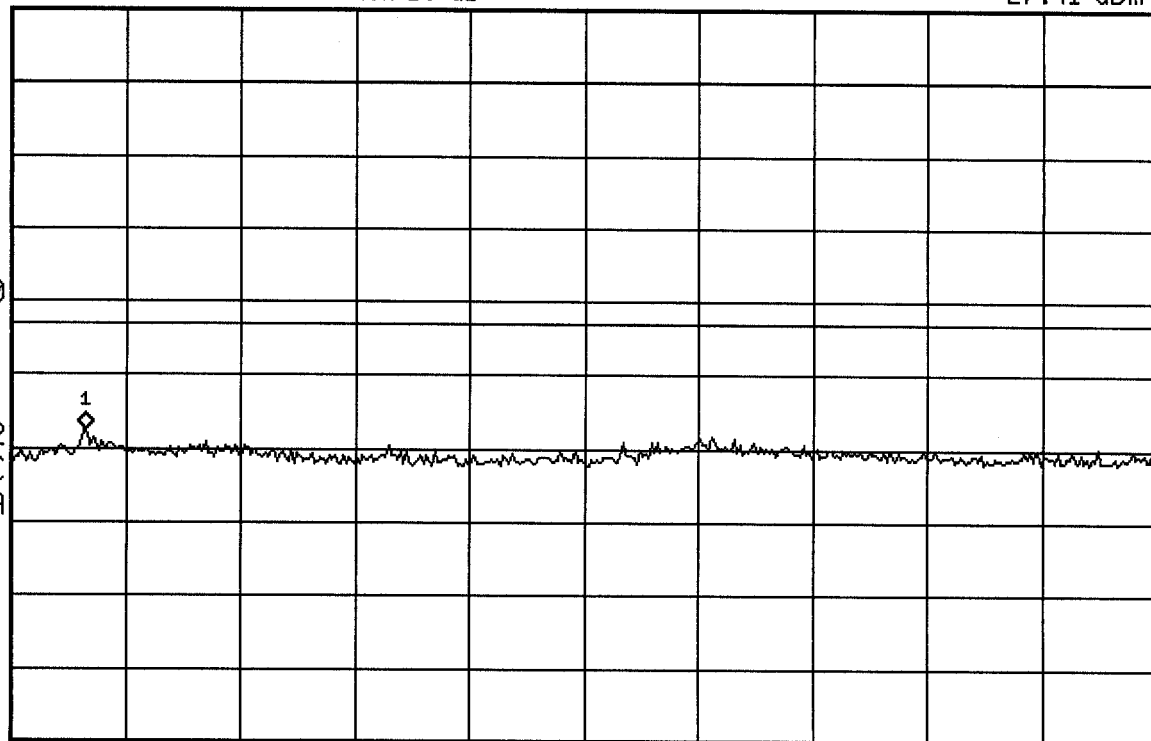
-13.0

dBm

M1 S2

S3 FC

AA



Start 2.5 GHz

*Res BW 1 MHz

VBW 1 MHz

Stop 10 GHz

Sweep 18.75 ms

hp 08:46:23 Oct 27, 2000

ITRONIX FCC ID: KBCT5200RIM801D CH 806

Mkr1 13.35 GHz

Ref 30 dBm

Atten 10 dB

-27.59 dBm

Peak

Log

10

dB/

Offst

30

dB

DI

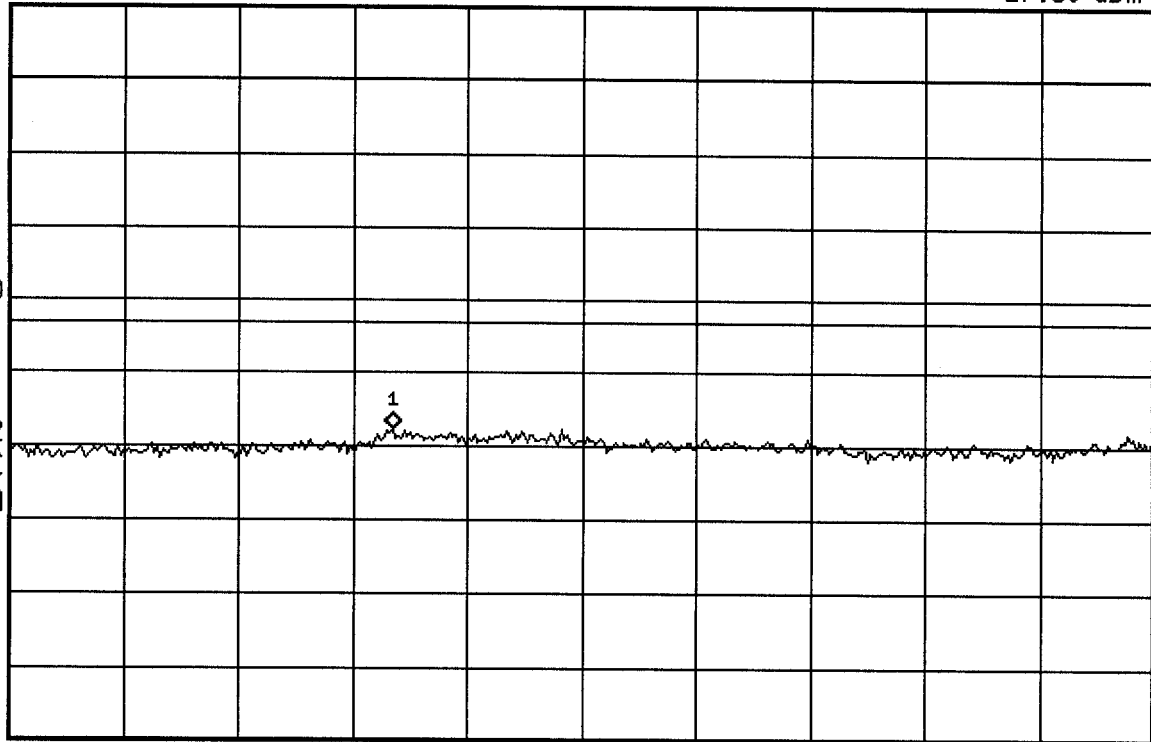
-13.0

dBm

M1 S2

S3 FC

AA



Start 10 GHz

*Res BW 1 MHz

VBW 1 MHz

Stop 20 GHz

Sweep 100 ms



08:48:07 Oct 27, 2000

ITRONIX FCC ID: KBCT5200RIM801D CH 815

Ref 30 dBm

Atten 10 dB

Mkr1 2.095 GHz

-26.39 dBm

Peak

Log

10

dB/

Offst

30

dB

DI

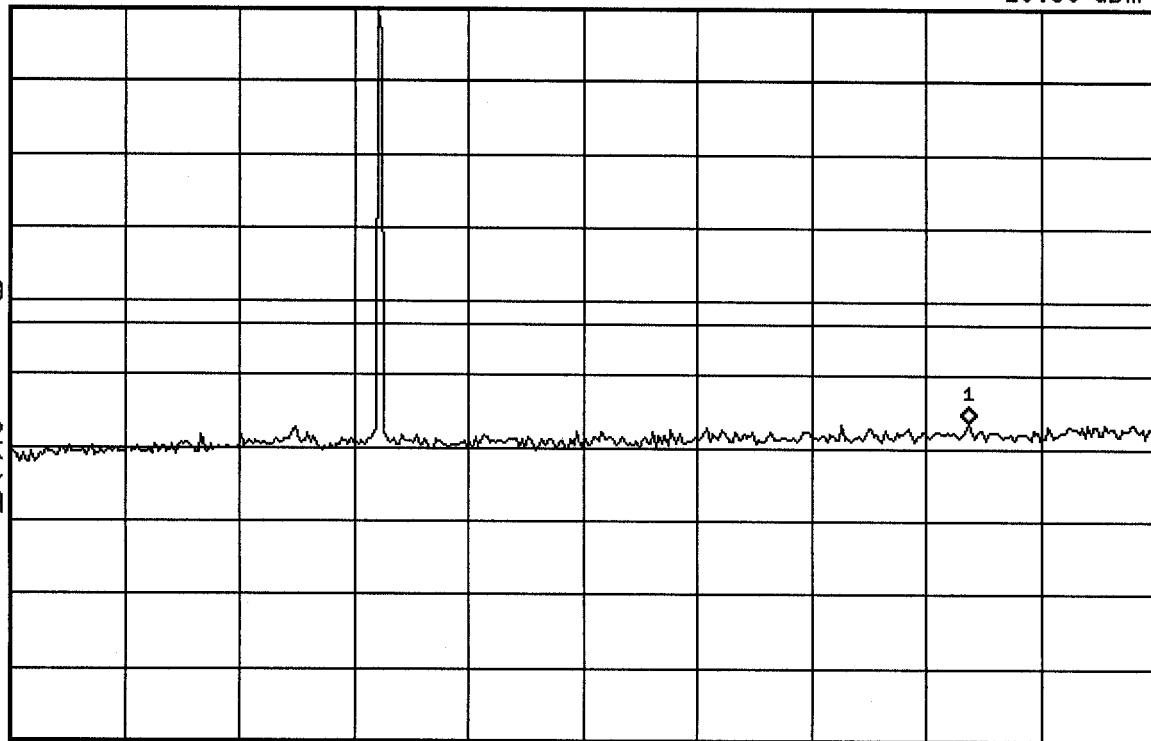
-13.0

dBm.

M1 S2

S3 FC

AA



Start 10 MHz

*Res BW 1 MHz

VBW 1 MHz

Stop 2.5 GHz

Sweep 6.225 ms

hp 08:48:41 Oct 27, 2000

ITRONIX FCC ID: KBCT5200RIM801D CH 815

Mkr1 2.819 GHz

Ref 30 dBm

Atten 10 dB

-28.37 dBm

Peak

Log

10

dB/

Offst

30

dB

DI

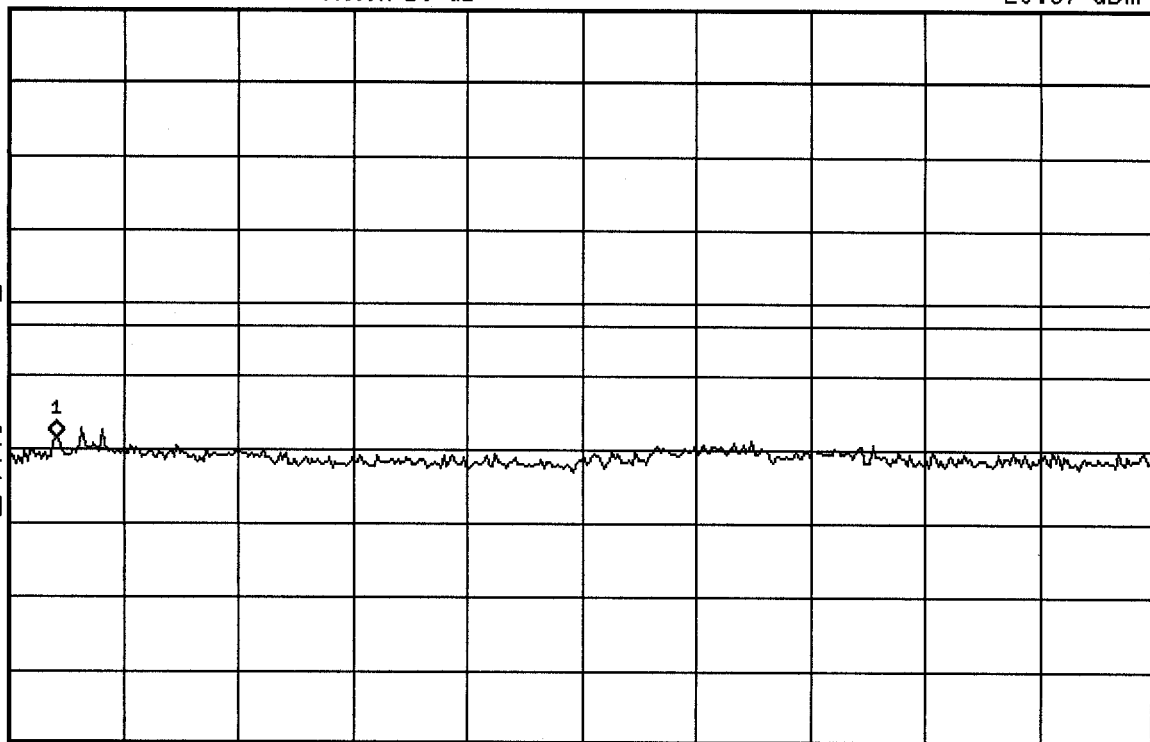
-13.0

dBm

M1 S2

S3 FC

AA



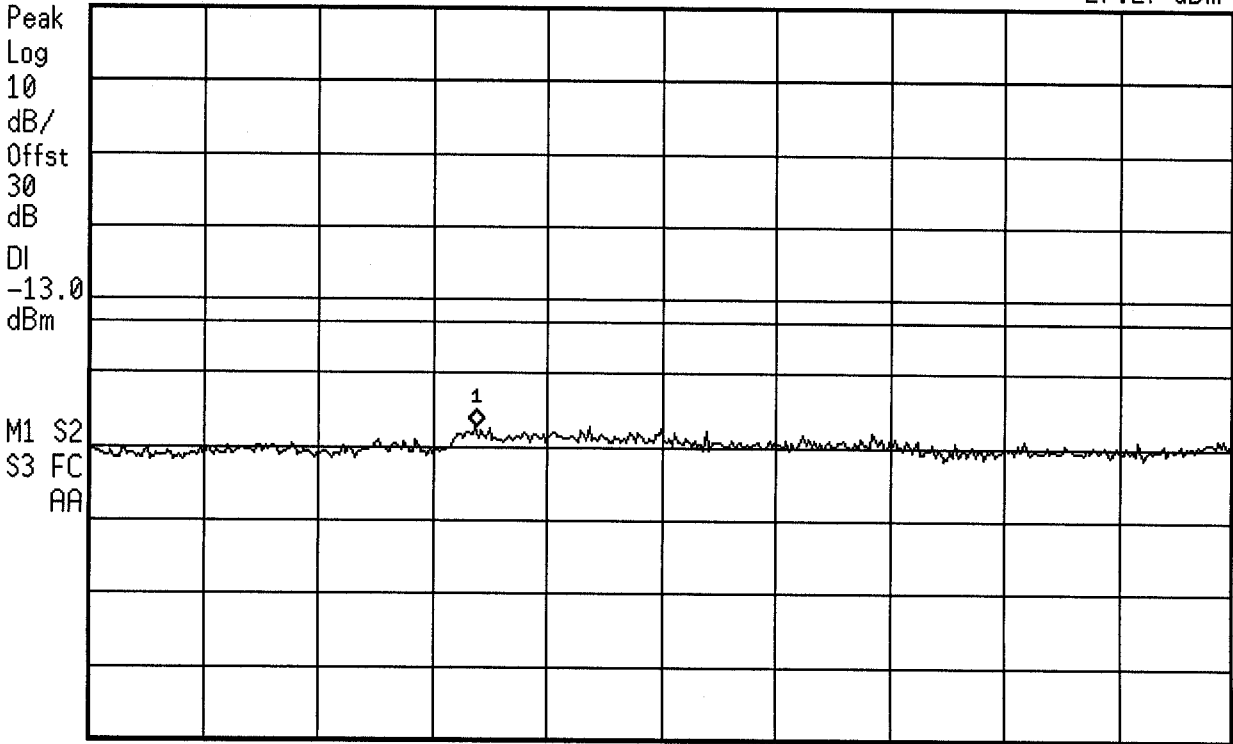
Start 2.5 GHz

Stop 10 GHz

*Res BW 1 MHz

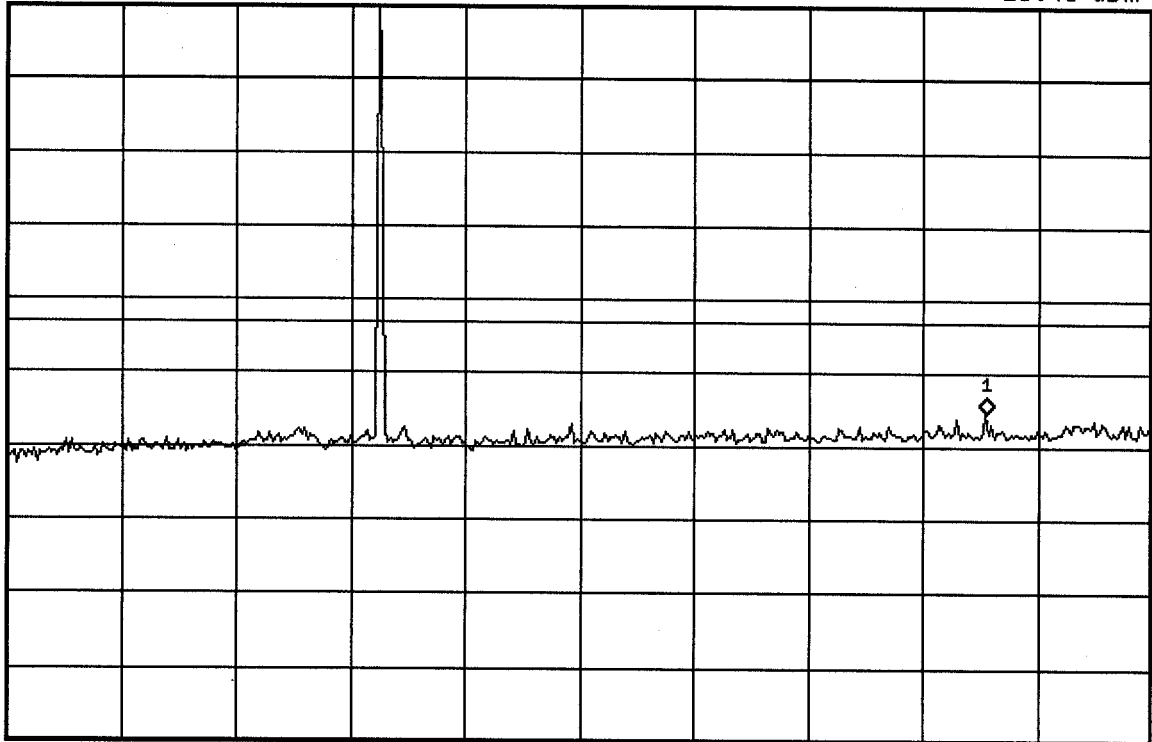
VBW 1 MHz

Sweep 18.75 ms



Peak
Log
10
dB/
Offst
30
dB
DI
-13.0
dBm

M1 S2
S3 FC
AA



hp 08:51:46 Oct 27, 2000

ITRONIX FCC ID: KBCT5200RIM801D CH 821

Mkr1 2.988 GHz

Ref 30 dBm

Atten 10 dB

-27.81 dBm

Peak

Log

10

dB/

Offst

30

dB

DI

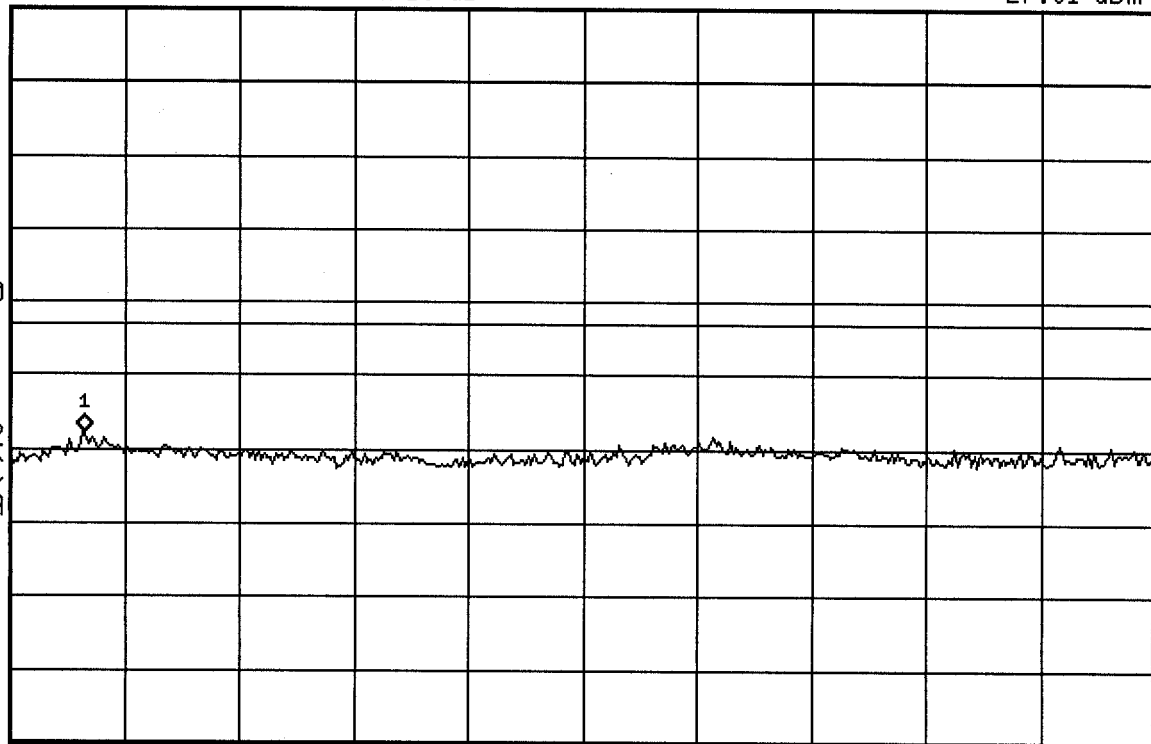
-13.0

dBm

M1 S2

S3 FC

AA



Start 2.5 GHz

*Res BW 1 MHz

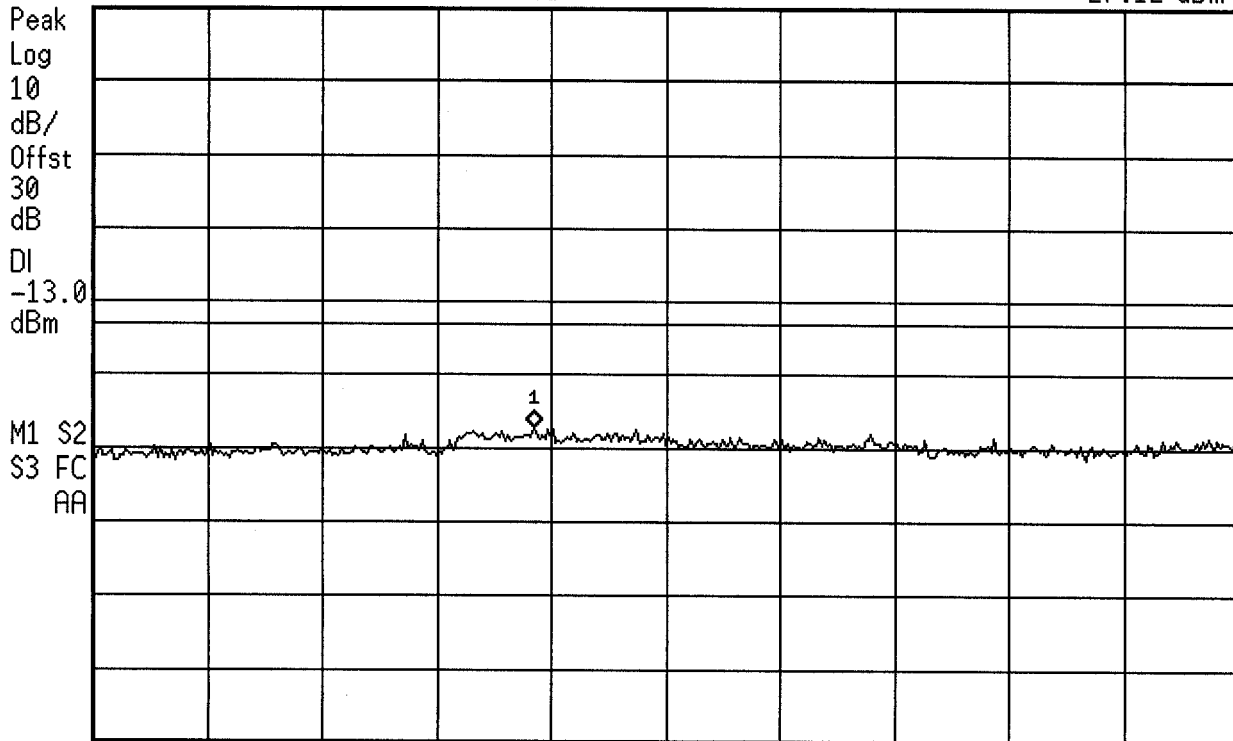
VBW 1 MHz

Stop 10 GHz

Sweep 18.75 ms

Ref 30 dBm

Atten 10 dB



Start 10 GHz

*Res BW 1 MHz

VBW 1 MHz

Stop 20 GHz

Sweep 100 ms

Occupied Bandwidth Test Plots

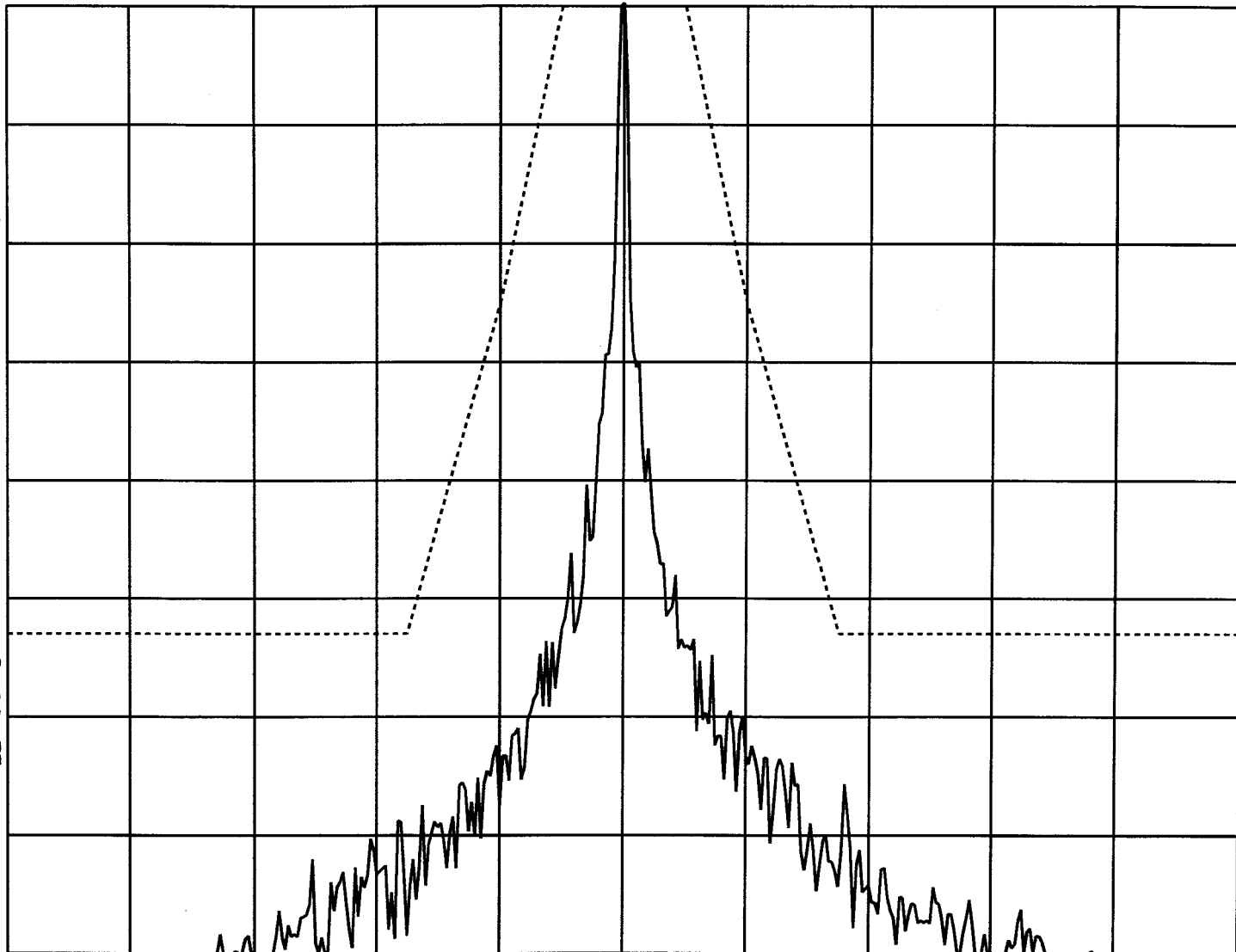
06:45:51 OCT 27, 2000

ITRONIX FCC ID: KBCT5200RIM801D UNMOD CARRIER

REF 30.0 dBm

AT 10 dB

PEAK
LOG
10
dB/
OFFST
30.5
dB



CENTER 806.0000 MHz

SPAN 100.0 kHz

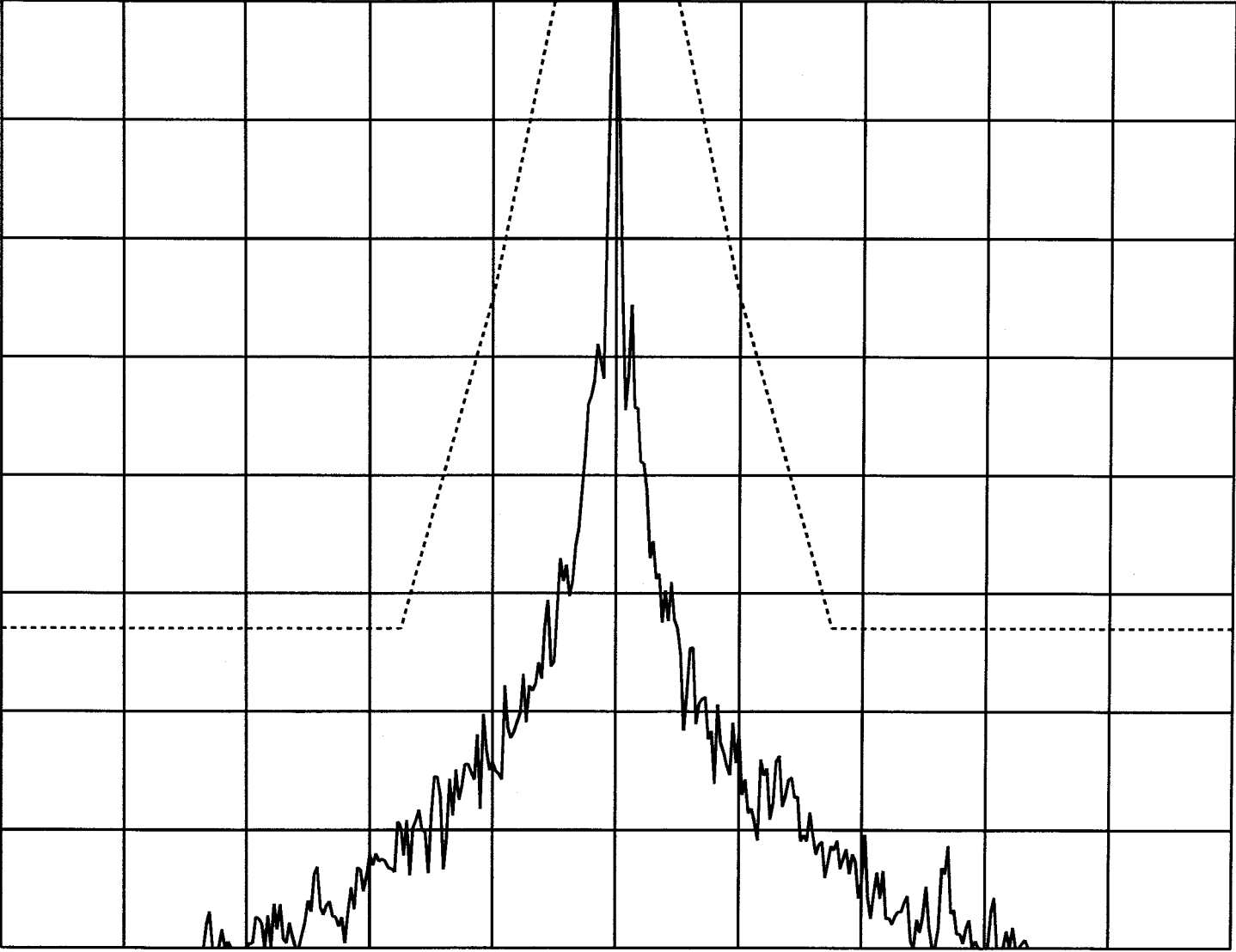
#RES BW 300 Hz

#VBW 300 Hz

SWP 3.33 sec

06: 43: 48 OCT 27, 2000
ITRONIX FCC ID: KBCT5200RIM801D UNMOD CARRIER
REF 30.0 dBm AT 10 dB

PEAK
LOG
10
dB/
OFFST
30.5
dB
WA SB
SC FC
CORR



CENTER 815.0000 MHz SPAN 100.0 kHz
#RES BW 300 Hz #VBW 300 Hz SWP 3.33 sec

06: 51: 58 OCT 27, 2000

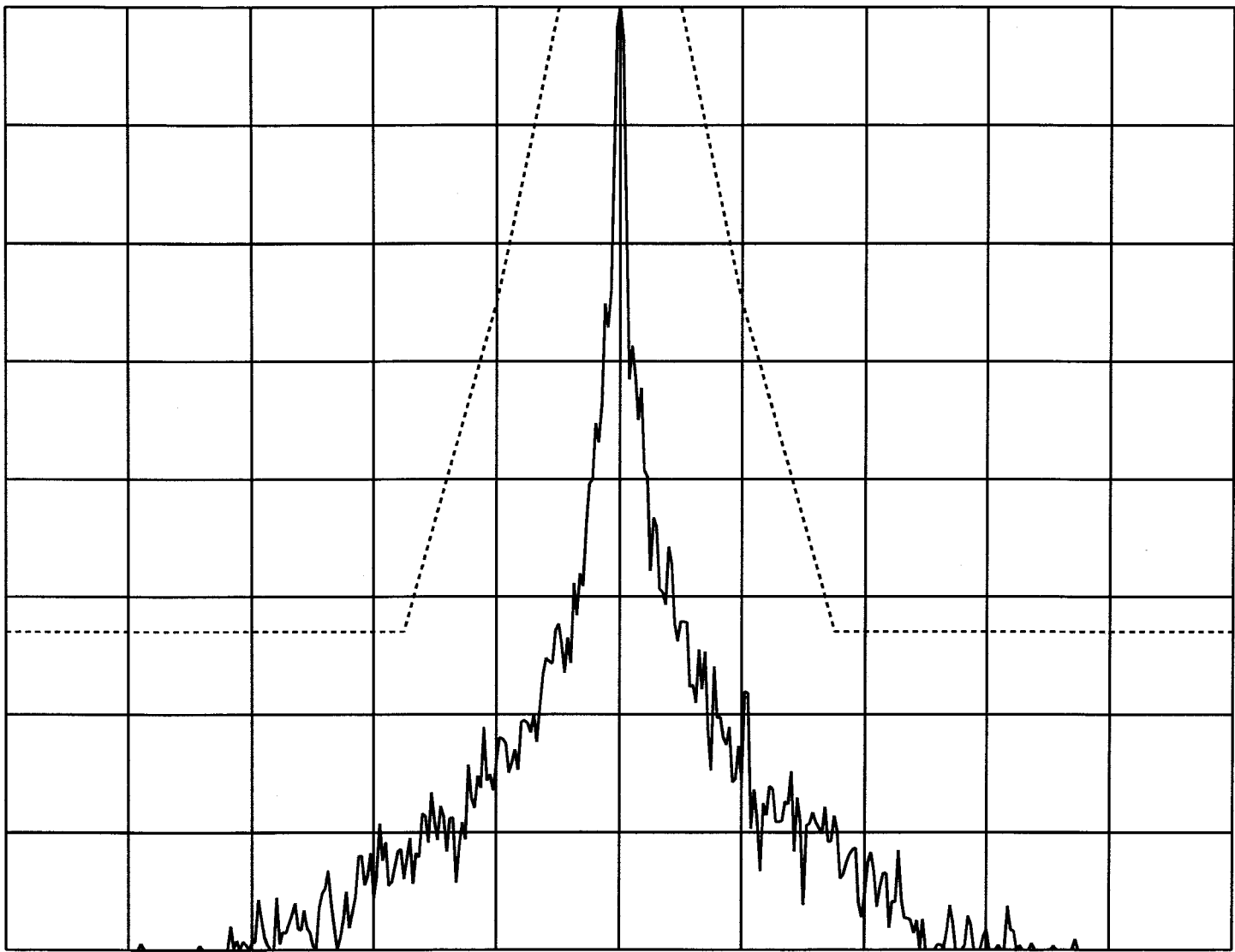
ITRONIX FCC ID: KBCT5200RIM801D UNMOD CARRIER

REF 30.0 dBm

AT 10 dB

PEAK
LOG
10
dB/
OFFST
30.5
dB

WA SB
SC FC
CORR



CENTER 821.0000 MHz

SPAN 100.0 kHz

#RES BW 300 Hz

#VBW 300 Hz

SWP 3.33 sec

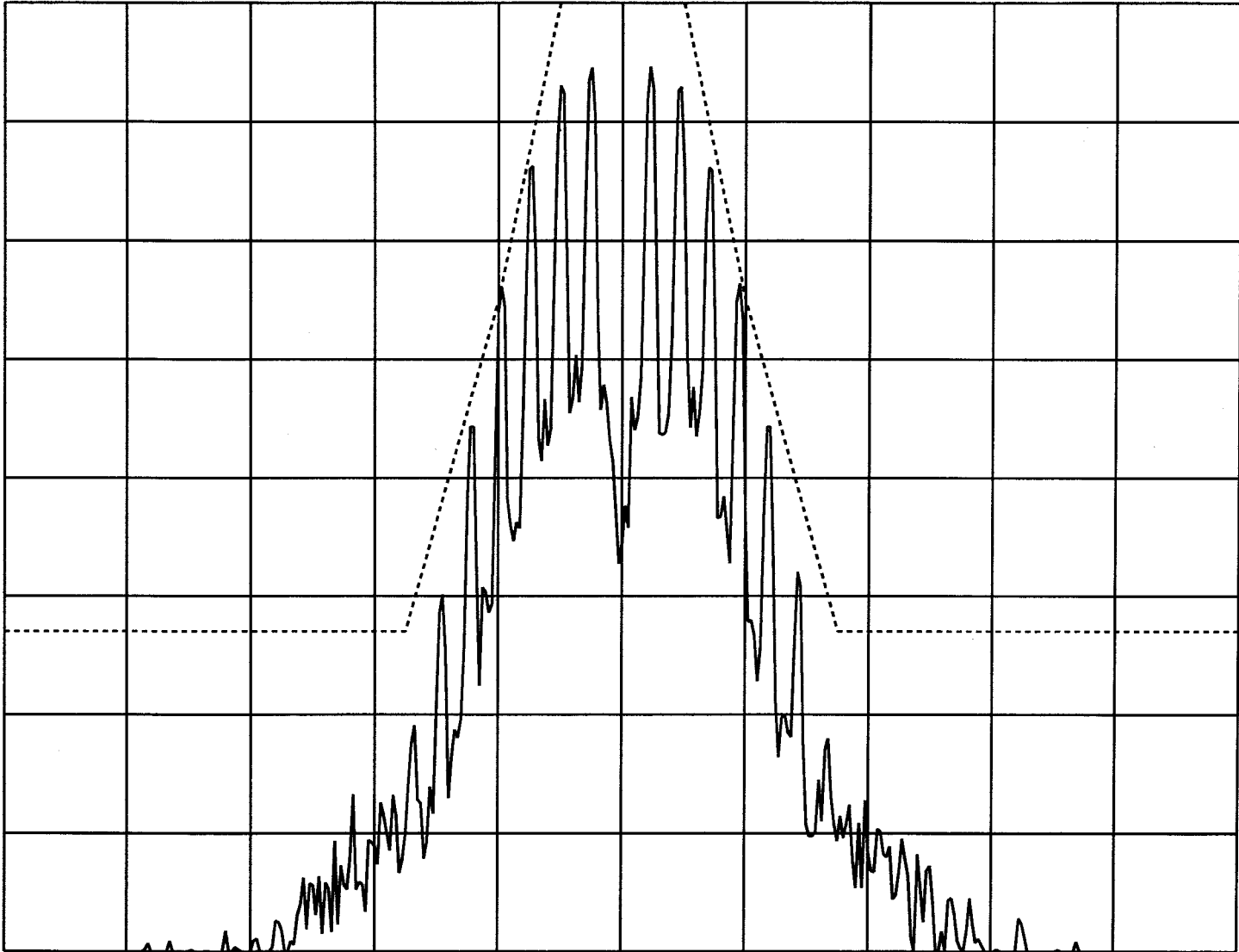
06:56:58 OCT 27, 2000

ITRONIX FCC ID: KBCT5200RIM801D RD-LAP

REF 30.0 dBm

AT 10 dB

PEAK
LOG
10
dB/
OFFST
30.5
dB



CENTER 806.0000 MHz

SPAN 100.0 kHz

#RES BW 300 Hz

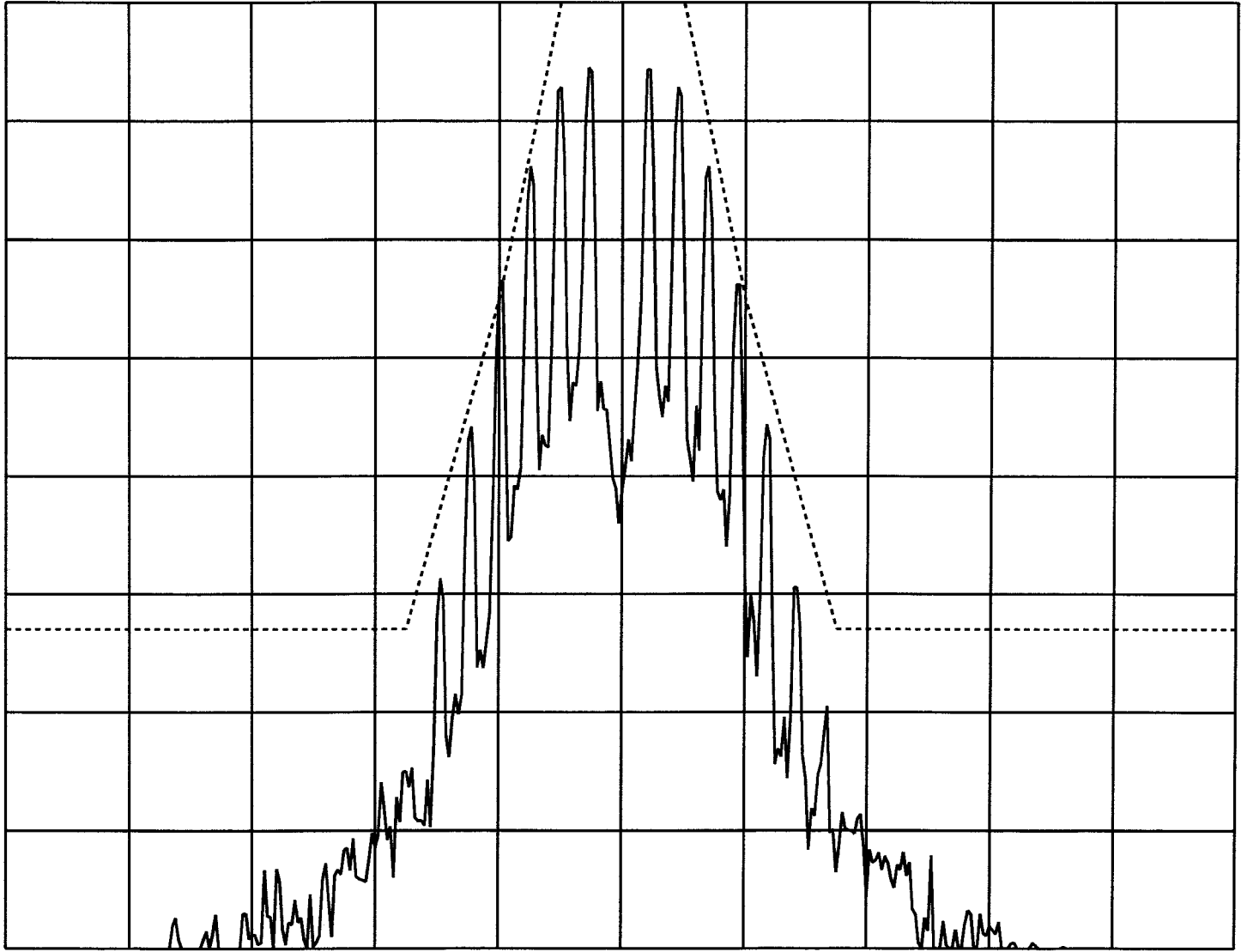
#VBW 300 Hz

SWP 3.33 sec

06:55:23 OCT 27, 2000
ITRONIX FCC ID: KBCT5200RIM801D RD-LAP
REF 30.0 dBm AT 10 dB

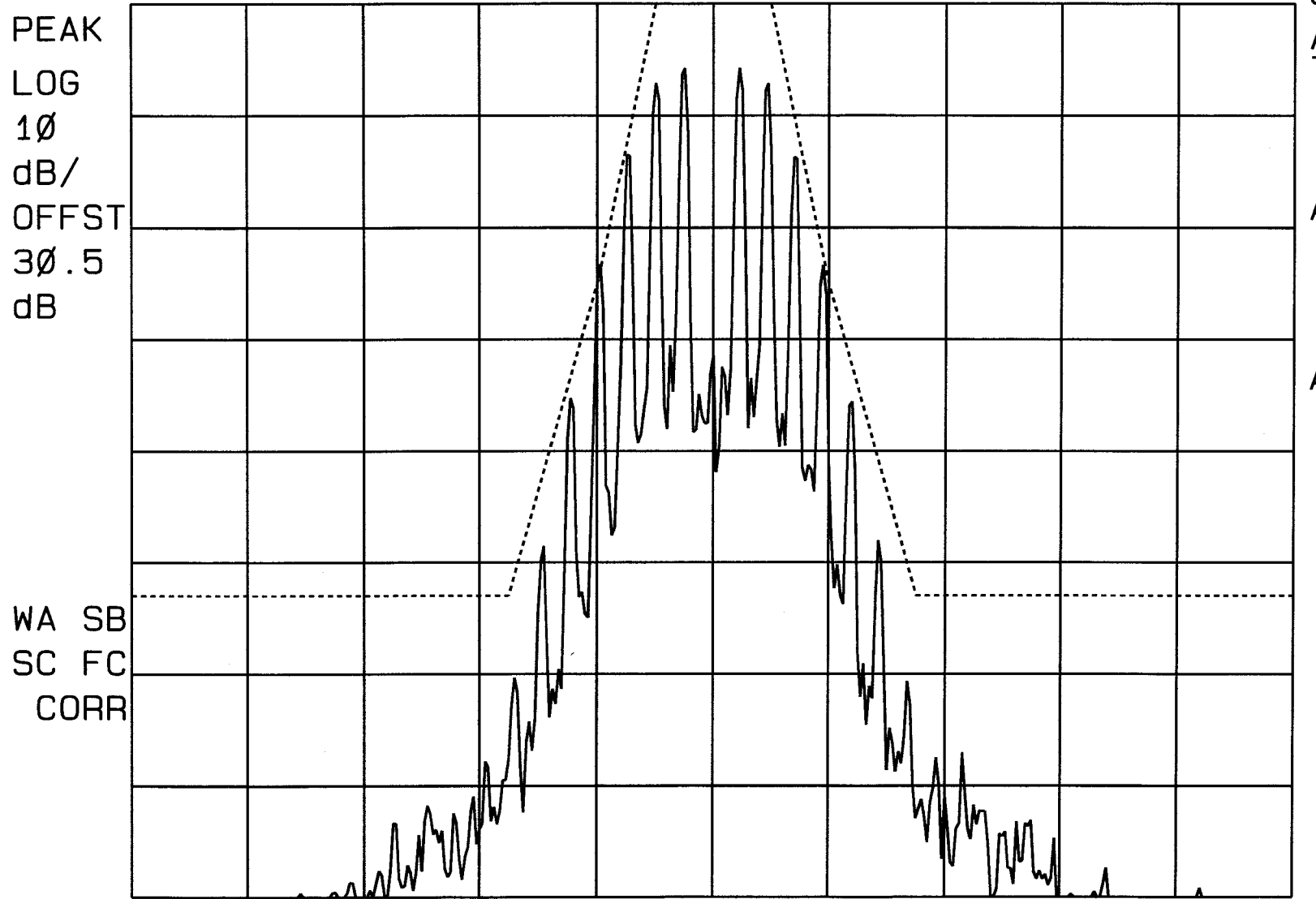
PEAK
LOG
10
dB/
OFFST
30.5
dB

WA SB
SC FC
CORR



CENTER 815.0000 MHz SPAN 100.0 kHz
#RES BW 300 Hz #VBW 300 Hz SWP 3.33 sec

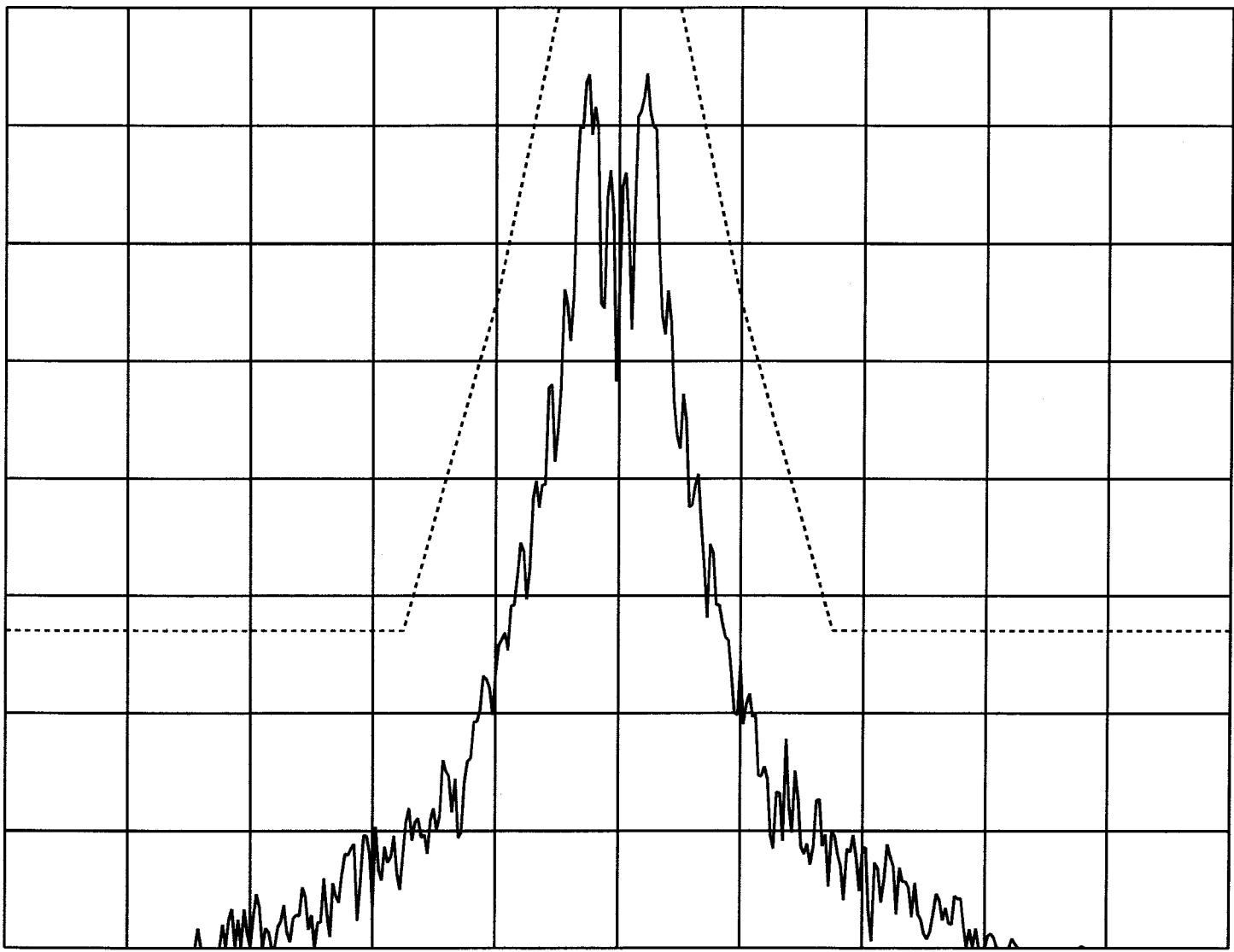
06:53:44 OCT 27, 2000
ITRONIX FCC ID: KBCT5200RIM801D RD-LAP
REF 30.0 dBm AT 10 dB



CENTER 821.0000 MHz SPAN 100.0 kHz
#RES BW 300 Hz #VBW 300 Hz SWP 3.33 sec

06:57:39 OCT 27, 2000
ITRONIX FCC ID: KBCT5200RIM801D MDC
REF 30.0 dBm AT 10 dB

PEAK
LOG
10
dB/
OFFST
30.5
dB
WA SB
SC FC
CORR

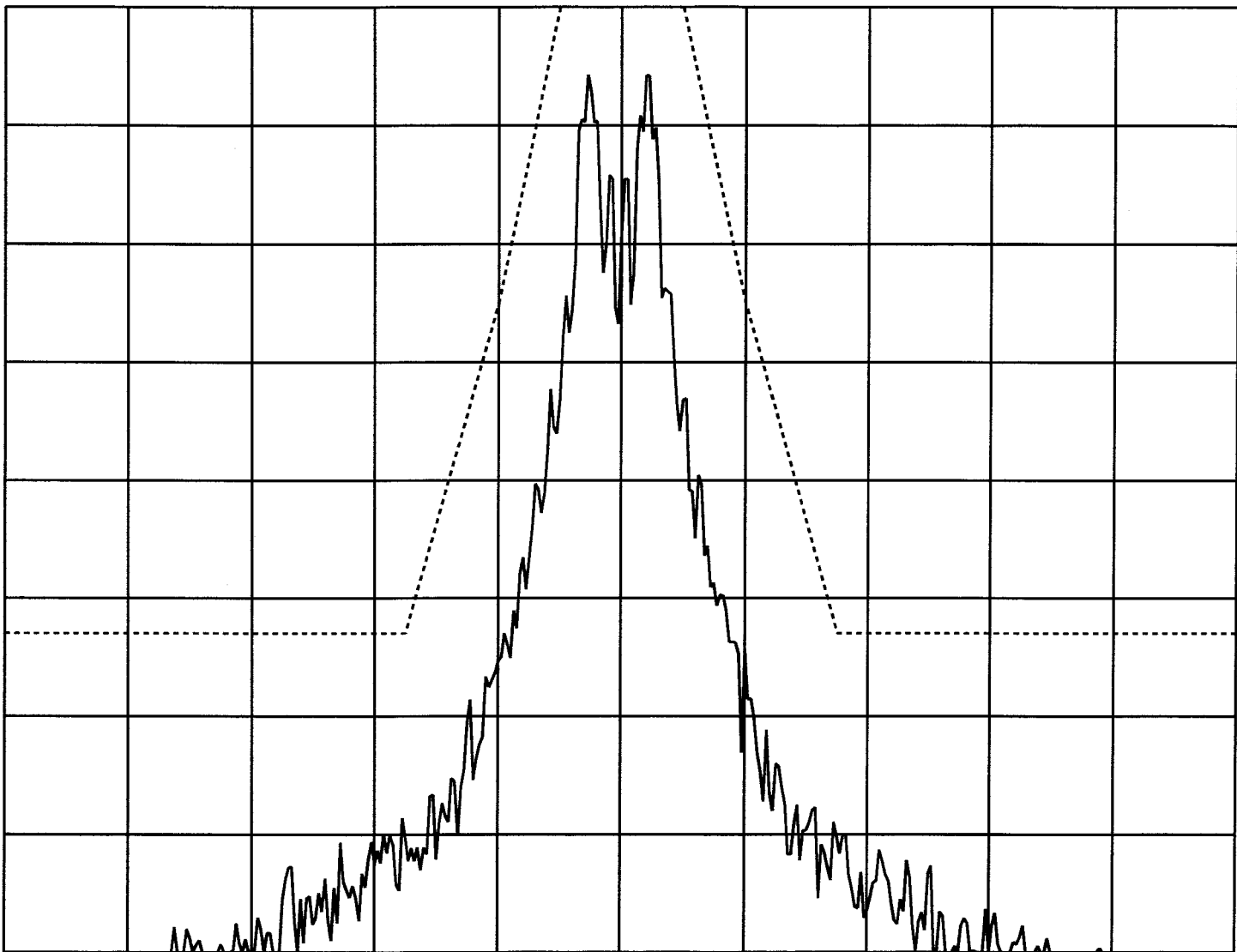


CENTER 806.0000 MHz SPAN 100.0 kHz
#RES BW 300 Hz #VBW 300 Hz SWP 3.33 sec

06: 59: 25 OCT 27, 2000
ITRONIX FCC ID: KBCT5200RIM801D MDC
REF 30.0 dBm AT 10 dB

PEAK
LOG
10
dB/
OFFST
30.5
dB

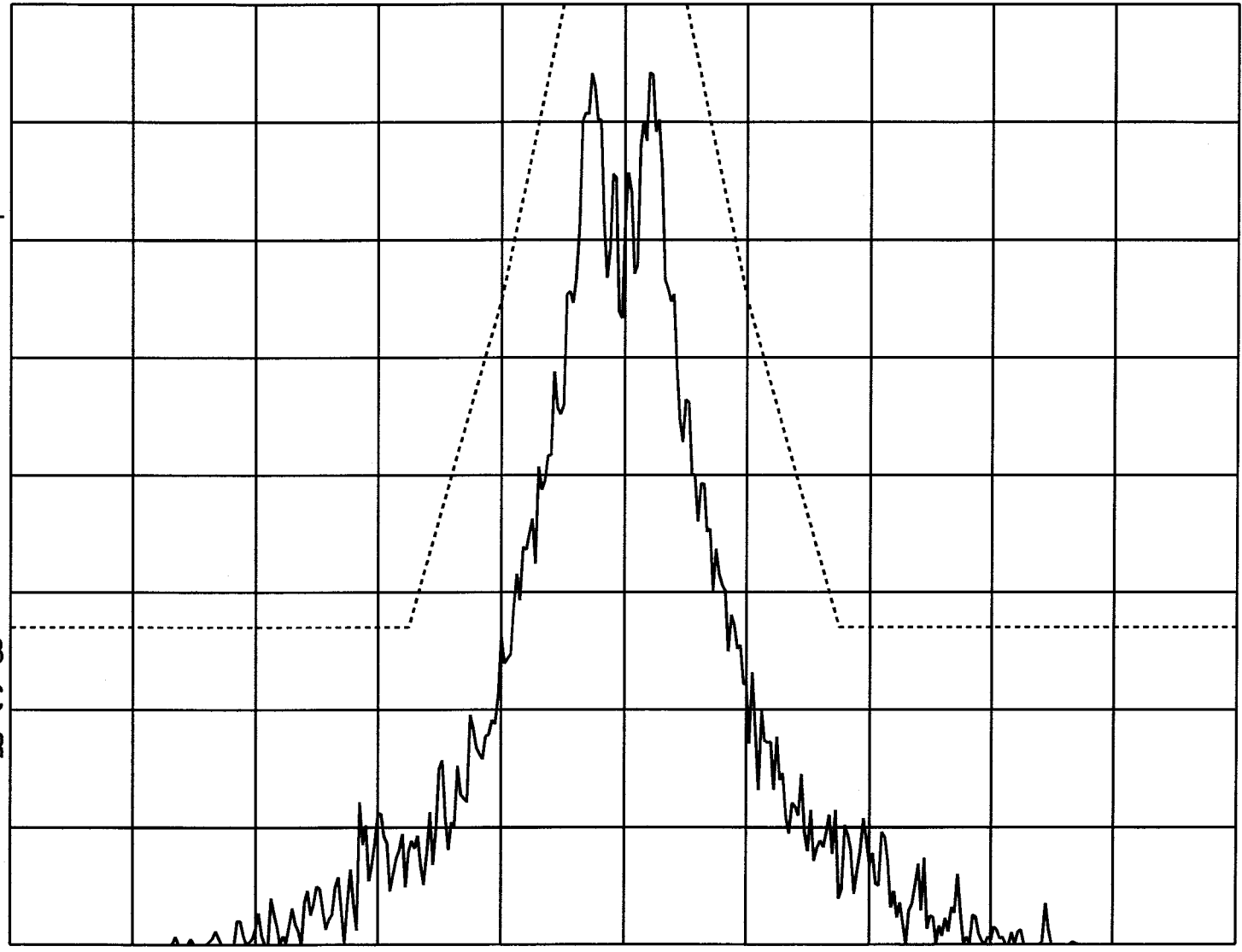
WA SB
SC FC
CORR



CENTER 815.0000 MHz SPAN 100.0 kHz
#RES BW 300 Hz #VBW 300 Hz SWP 3.33 sec

07:00:27 OCT 27, 2000
ITRONIX FCC ID: KBCT5200RIM801D MDC
REF 30.0 dBm AT 10 dB

PEAK
LOG
10
dB/
OFFST
30.5
dB
WA SB
SC FC
CORR



CENTER 821.0000 MHz SPAN 100.0 kHz
#RES BW 300 Hz #VBW 300 Hz SWP 3.33 sec