

# PCTEST Engineering Lab.

## SPECTRUM ANALYZER PRESENTATION

FCC ID:CJ6DCE44327A

TOSHIBA

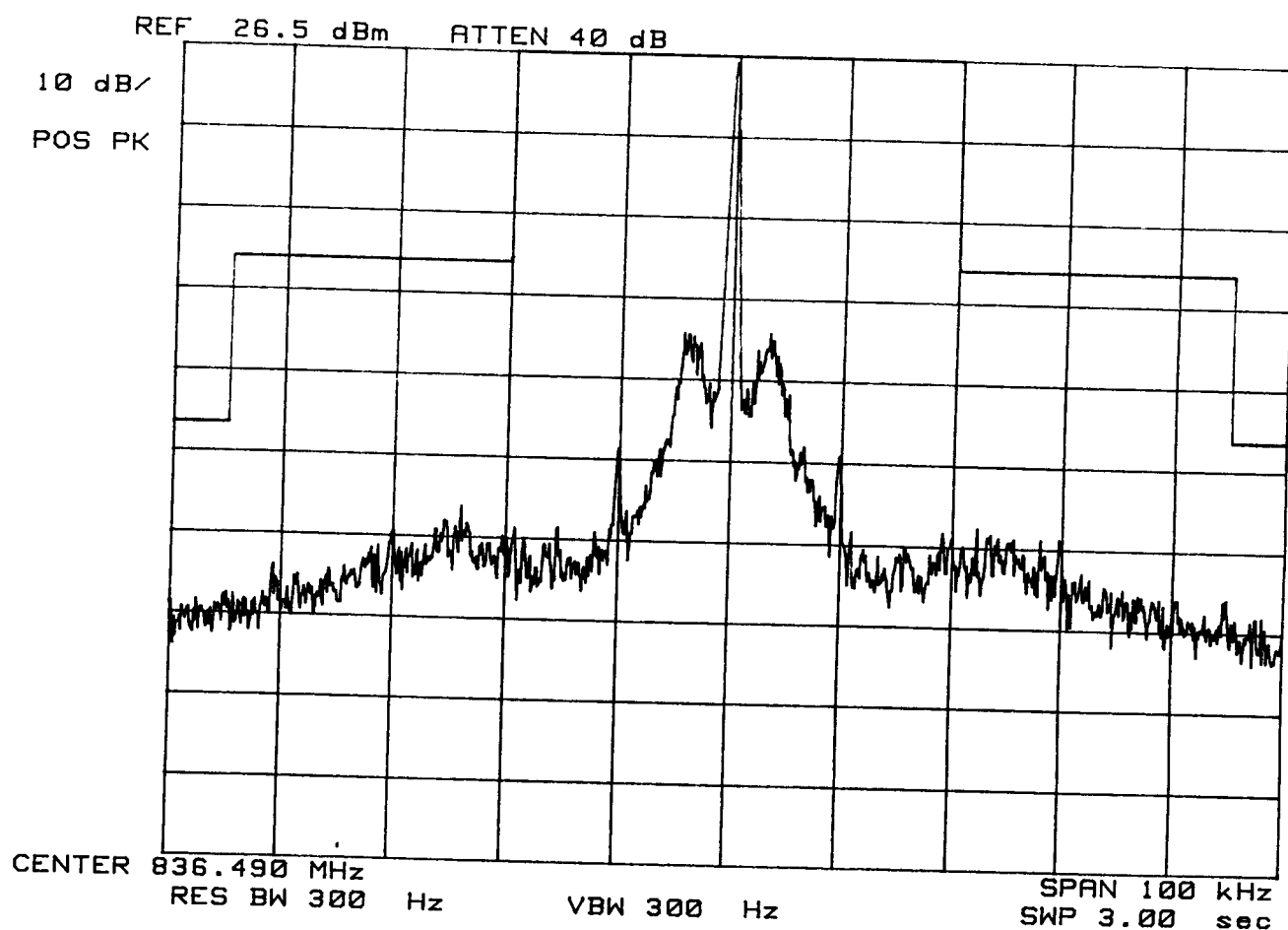
TRI-MODE PHONE (# 3)

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:Unmodulated Signal



# PCTEST Engineering Lab.

## SPECTRUM ANALYZER PRESENTATION

FCC ID:CJ6DCE44327A

TOSHIBA

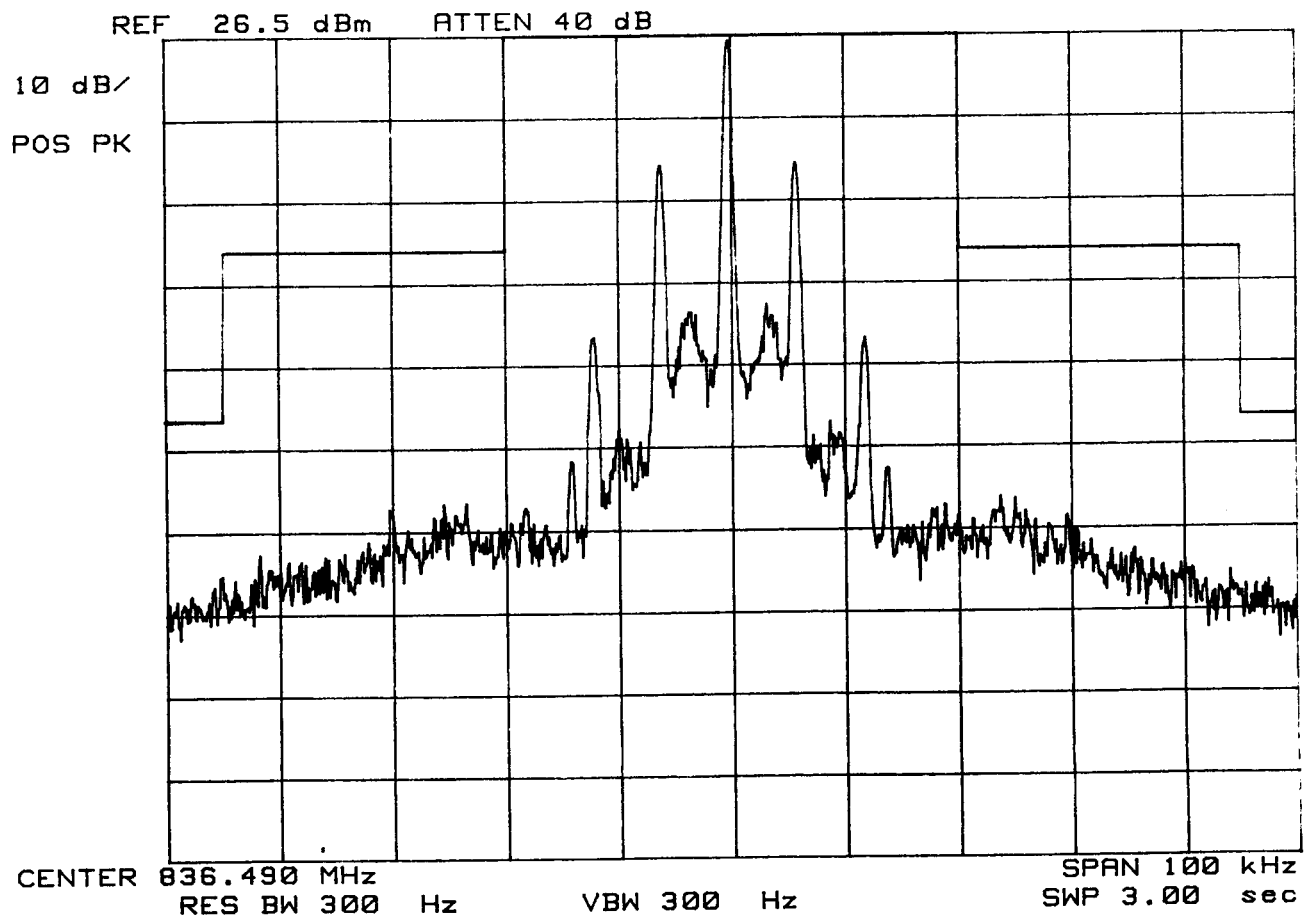
TRI-MODE PHONE (# 3)

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:SAT



# PCTEST Engineering Lab.

## SPECTRUM ANALYZER PRESENTATION

FCC ID:CJ6DCE44327A

TOSHIBA

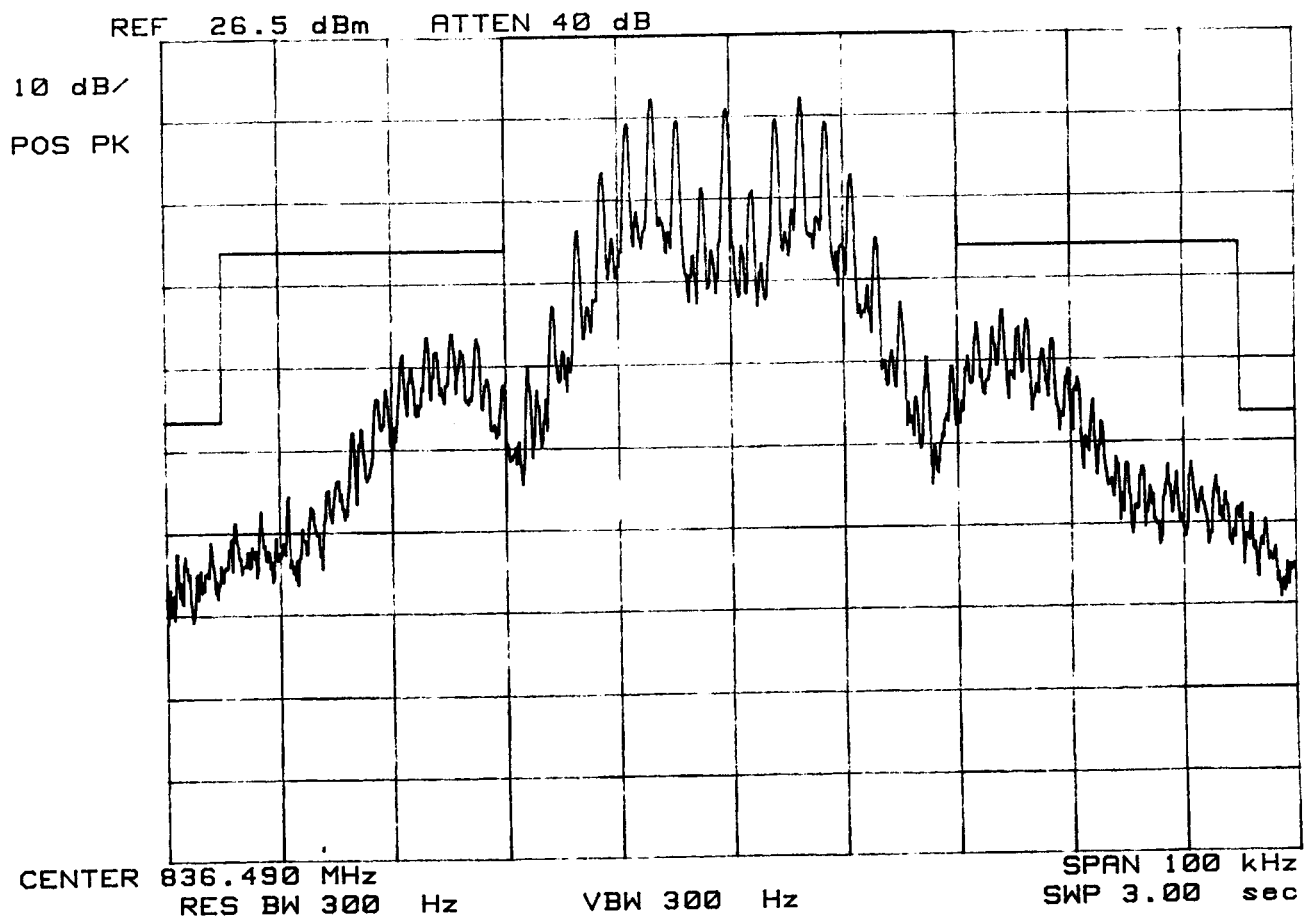
TRI-MODE PHONE (# 3)

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:Voice



# PCTEST Engineering Lab.

## SPECTRUM ANALYZER PRESENTATION

FCC ID:CJ6DCE44327A

TOSHIBA

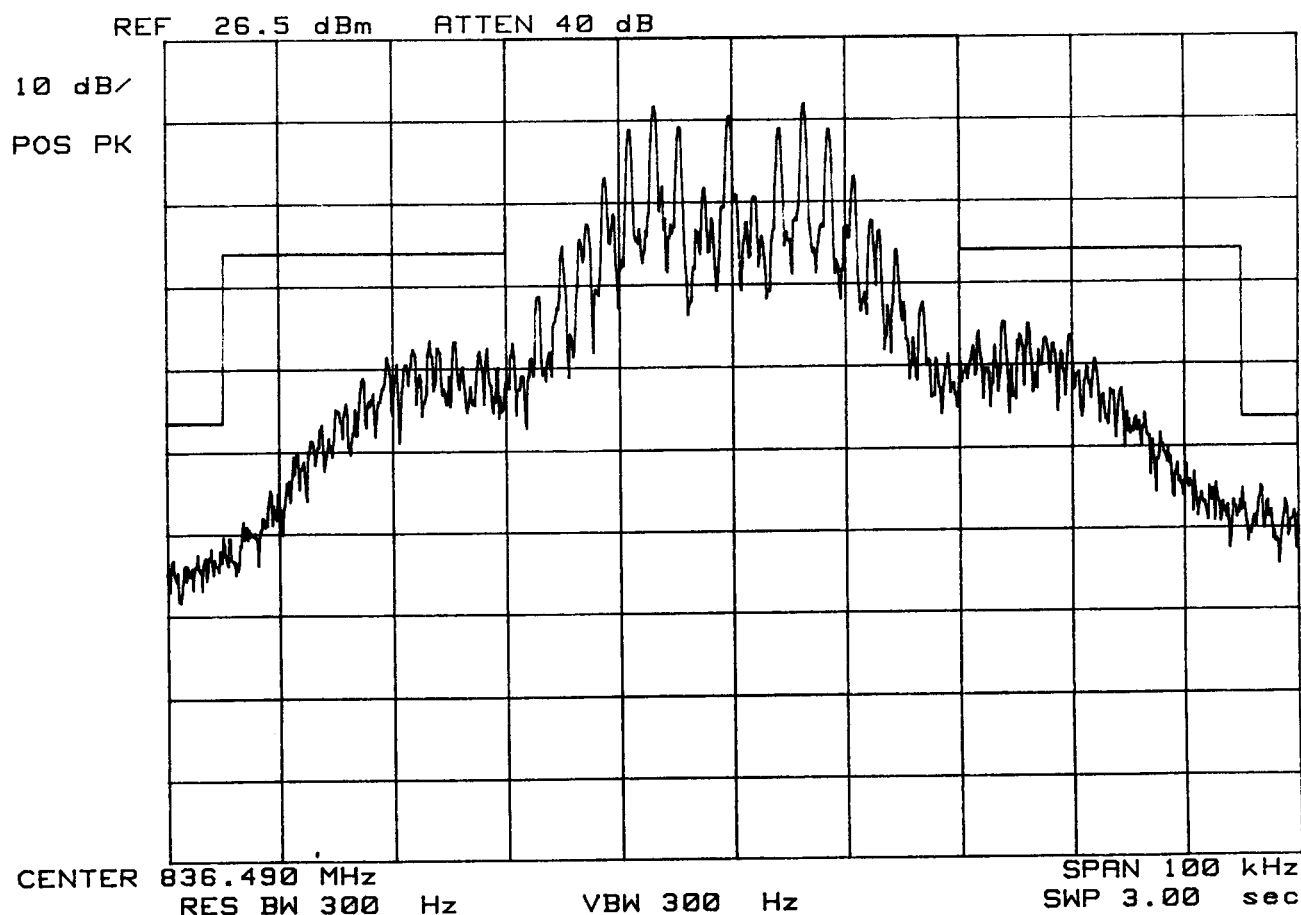
TRI-MODE PHONE (# 3)

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:SAT + Voice



# PCTEST Engineering Lab.

## SPECTRUM ANALYZER PRESENTATION

FCC ID:CJ6DCE44327A

TOSHIBA

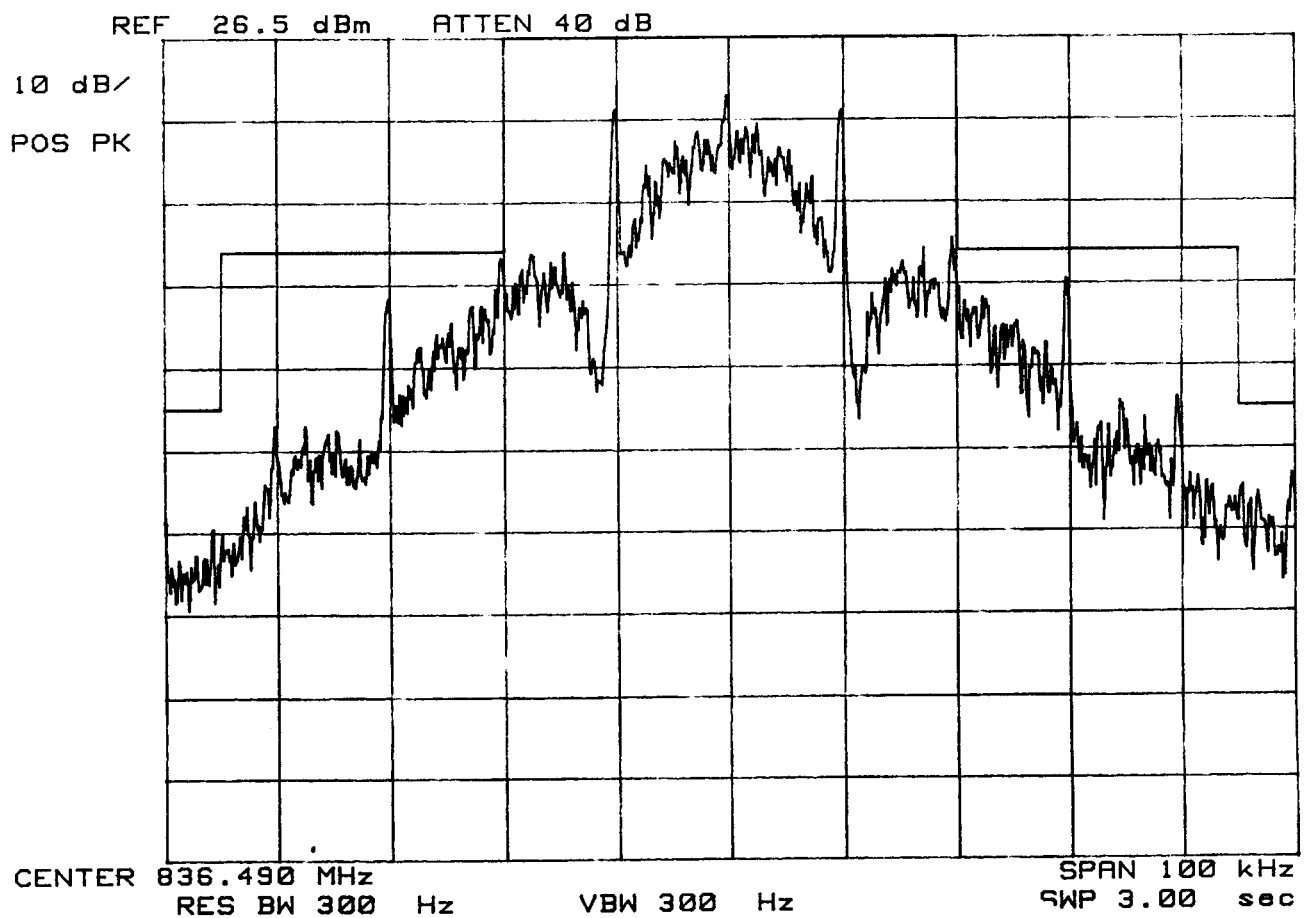
TRI-MODE PHONE (# 3)

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:Wide Band Data



# PCTEST Engineering Lab.

## SPECTRUM ANALYZER PRESENTATION

FCC ID:CJ6DCE44327A

TOSHIBA

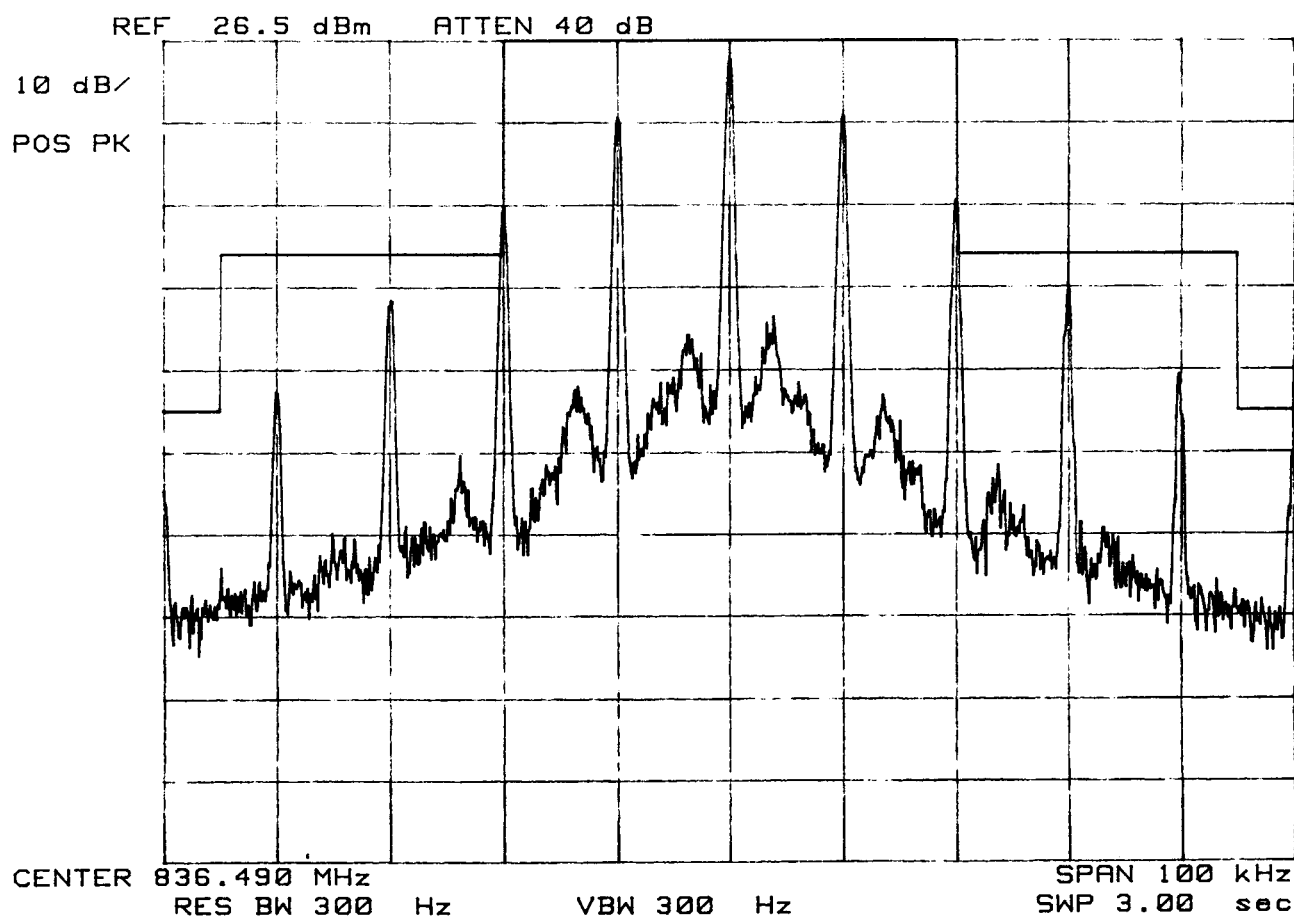
TRI-MODE PHONE (# 3)

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:ST



# PCTEST Engineering Lab.

## SPECTRUM ANALYZER PRESENTATION

FCC ID:CJ6DCE44327A

TOSHIBA

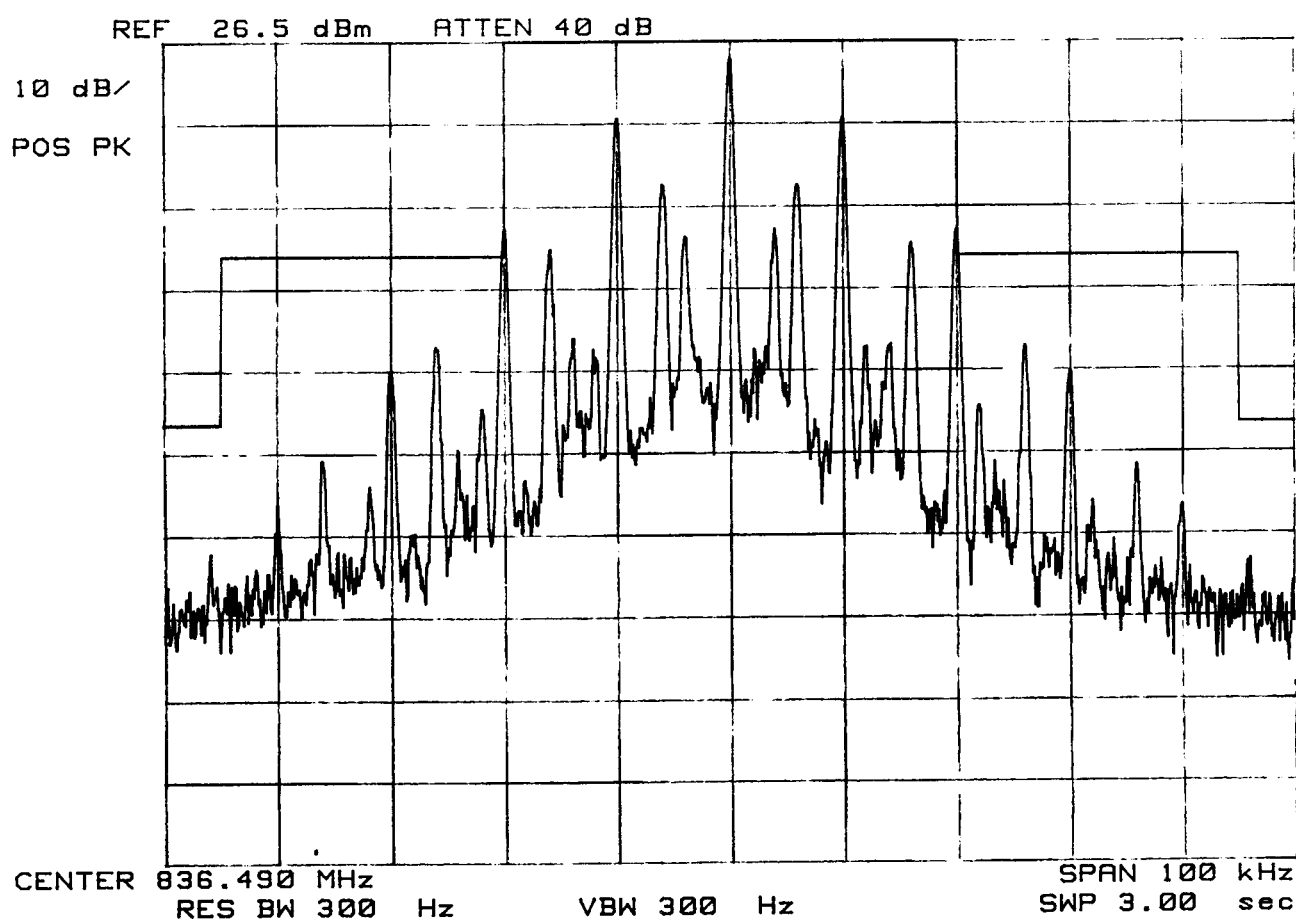
TRI-MODE PHONE (# 3)

FM Channel 383

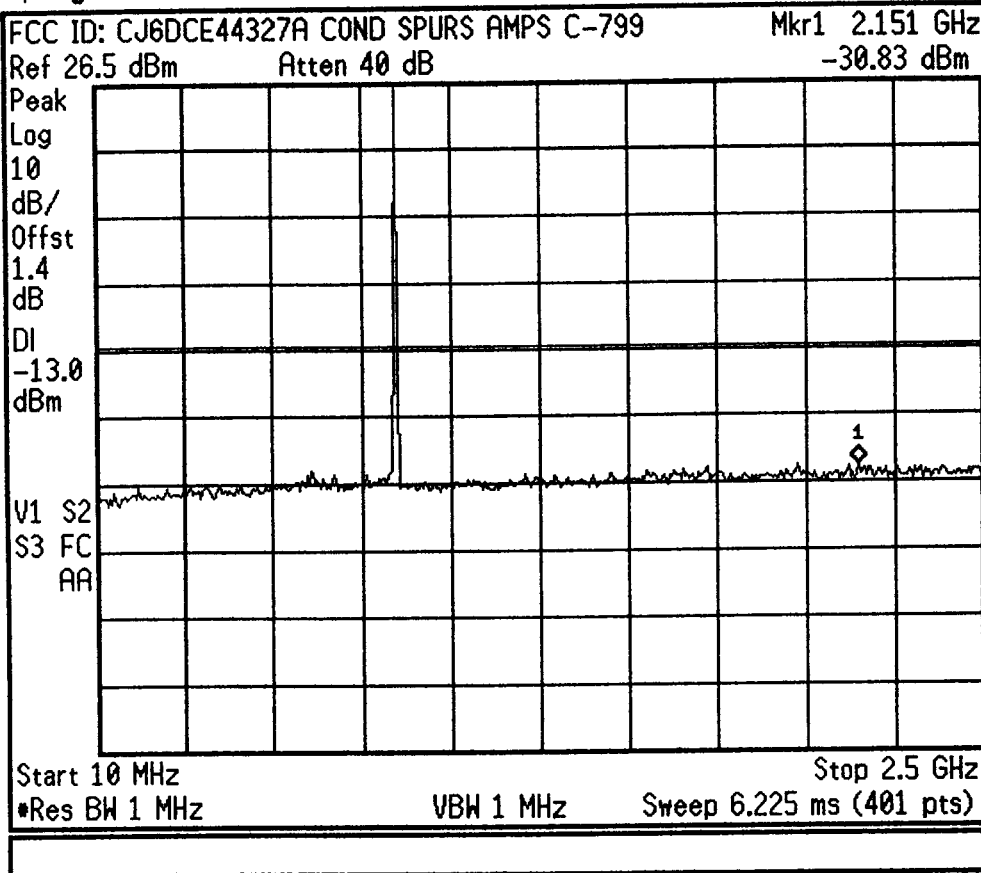
Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:SAT + ST

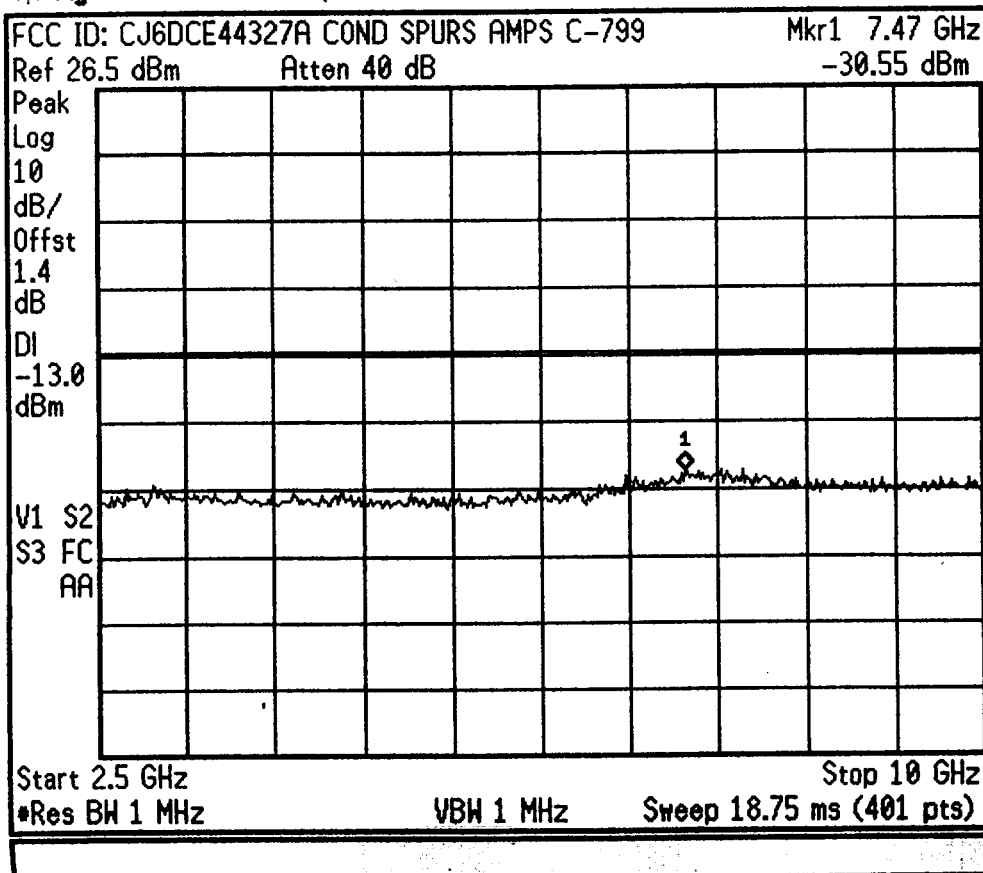


\* Agilent 07:16:06 Apr 9, 2001



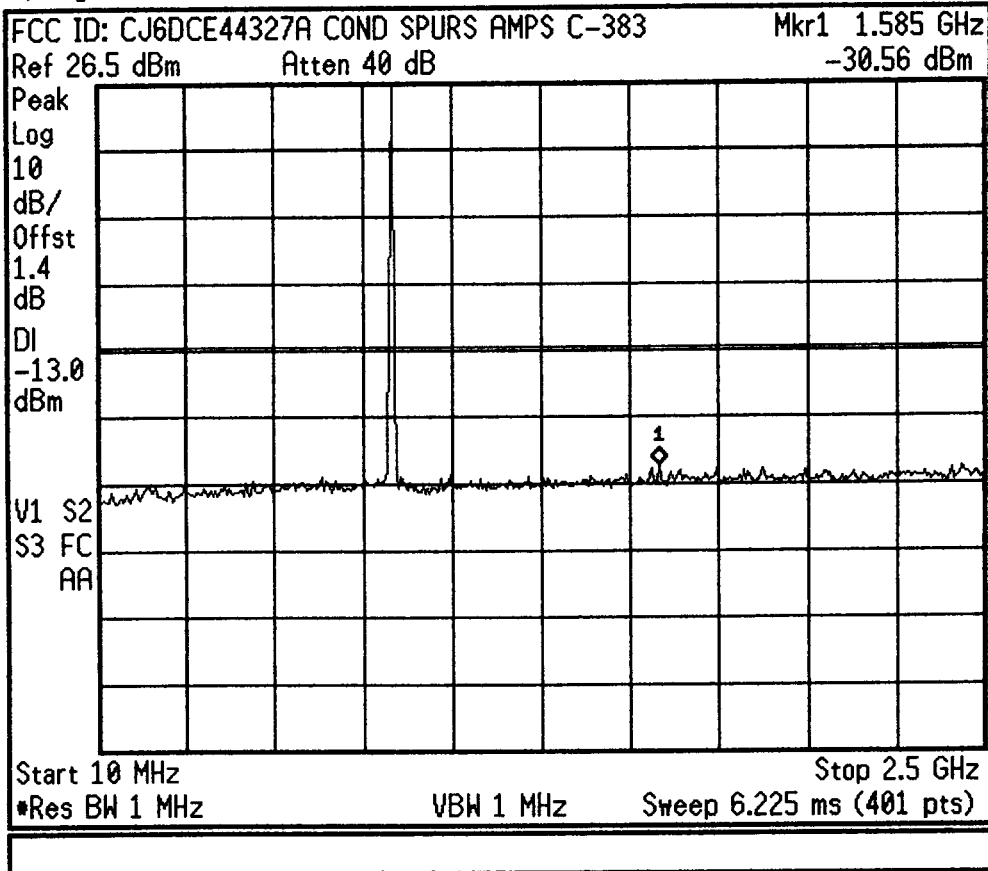
| Freq/Channel                          |
|---------------------------------------|
| Center Freq<br>1.25500000 GHz         |
| Start Freq<br>10.0000000 MHz          |
| Stop Freq<br>2.50000000 GHz           |
| CF Step<br>249.000000 MHz<br>Auto Man |
| Freq Offset<br>0.00000000 Hz          |
| Signal Track<br>On Off                |

\* Agilent 07:17:05 Apr 9, 2001



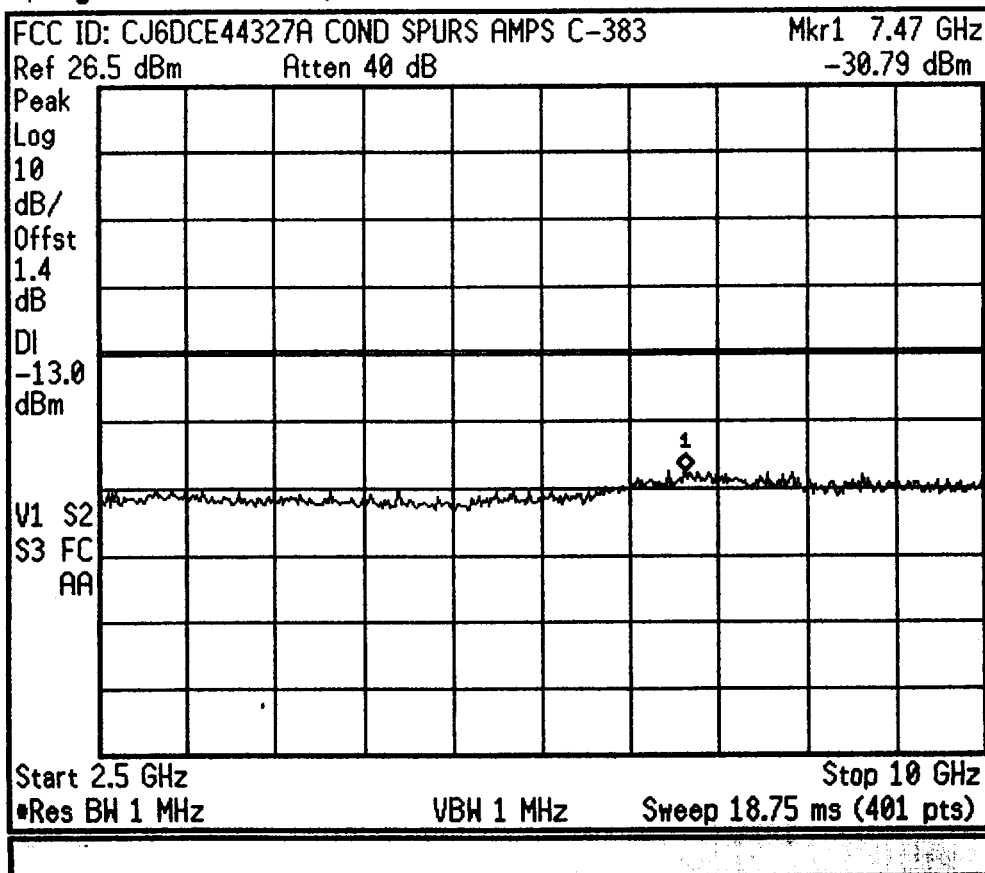
| Freq/Channel                          |
|---------------------------------------|
| Center Freq<br>6.25000000 GHz         |
| Start Freq<br>2.50000000 GHz          |
| Stop Freq<br>10.0000000 GHz           |
| CF Step<br>750.000000 MHz<br>Auto Man |
| Freq Offset<br>0.00000000 Hz          |
| Signal Track<br>On Off                |

\* Agilent 07:13:45 Apr 9, 2001



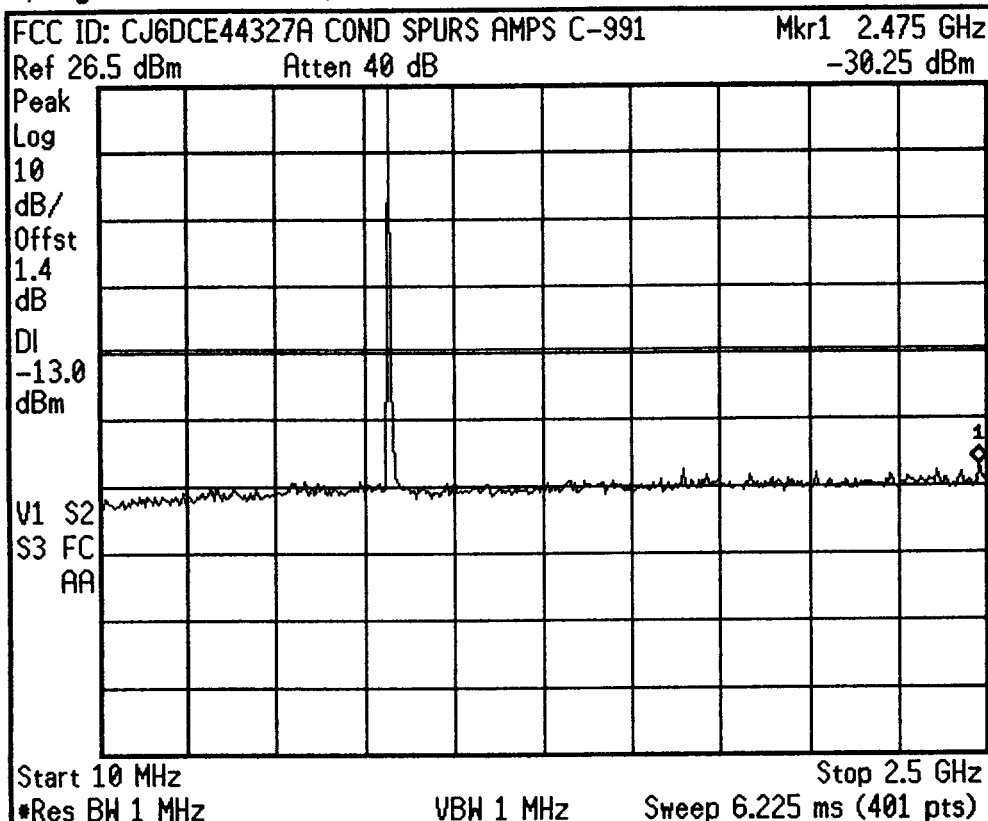
|                                              |
|----------------------------------------------|
| <b>Freq/Channel</b>                          |
| <b>Center Freq</b><br>1.25500000 GHz         |
| <b>Start Freq</b><br>10.0000000 MHz          |
| <b>Stop Freq</b><br>2.50000000 GHz           |
| <b>CF Step</b><br>249.000000 MHz<br>Auto Man |
| <b>Freq Offset</b><br>0.00000000 Hz          |
| <b>Signal Track</b><br>On Off                |

\* Agilent 07:14:43 Apr 9, 2001



|                                              |
|----------------------------------------------|
| <b>Freq/Channel</b>                          |
| <b>Center Freq</b><br>6.25000000 GHz         |
| <b>Start Freq</b><br>2.50000000 GHz          |
| <b>Stop Freq</b><br>10.0000000 GHz           |
| <b>CF Step</b><br>750.000000 MHz<br>Auto Man |
| <b>Freq Offset</b><br>0.00000000 Hz          |
| <b>Signal Track</b><br>On Off                |

\* Agilent 07:11:07 Apr 9, 2001



Freq/Channel

Center Freq  
 1.25500000 GHz

Start Freq  
 10.0000000 MHz

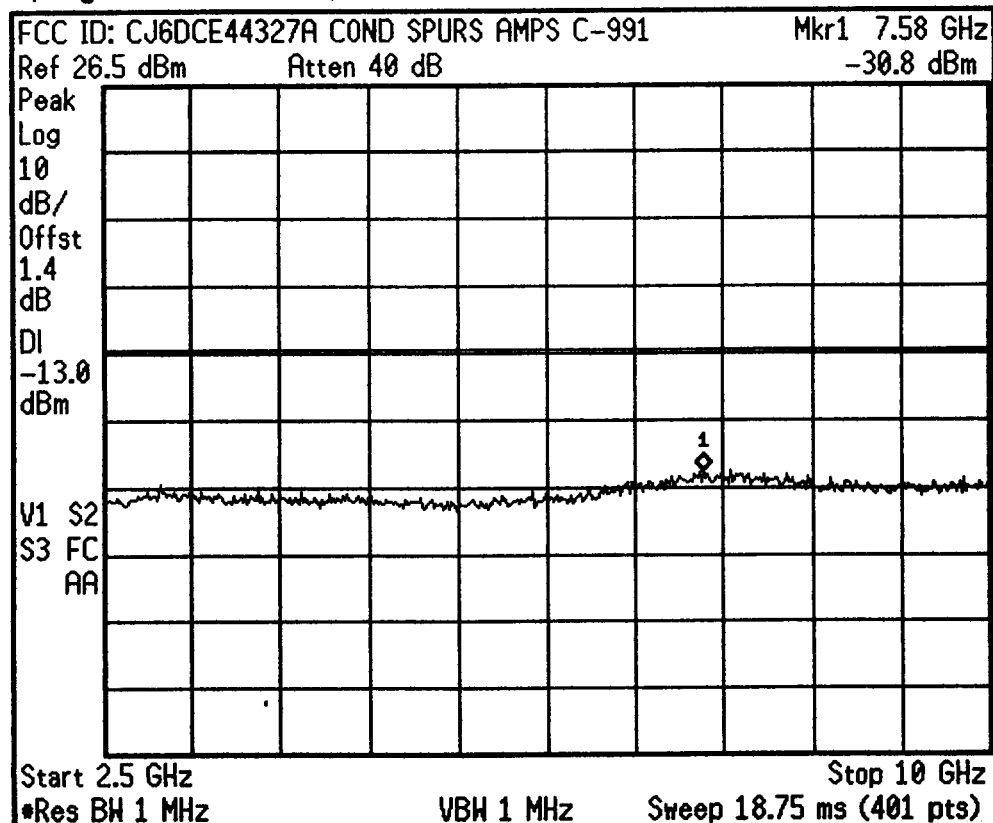
Stop Freq  
 2.50000000 GHz

CF Step  
 249.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

\* Agilent 07:12:04 Apr 9, 2001



Freq/Channel

Center Freq  
 6.25000000 GHz

Start Freq  
 2.50000000 GHz

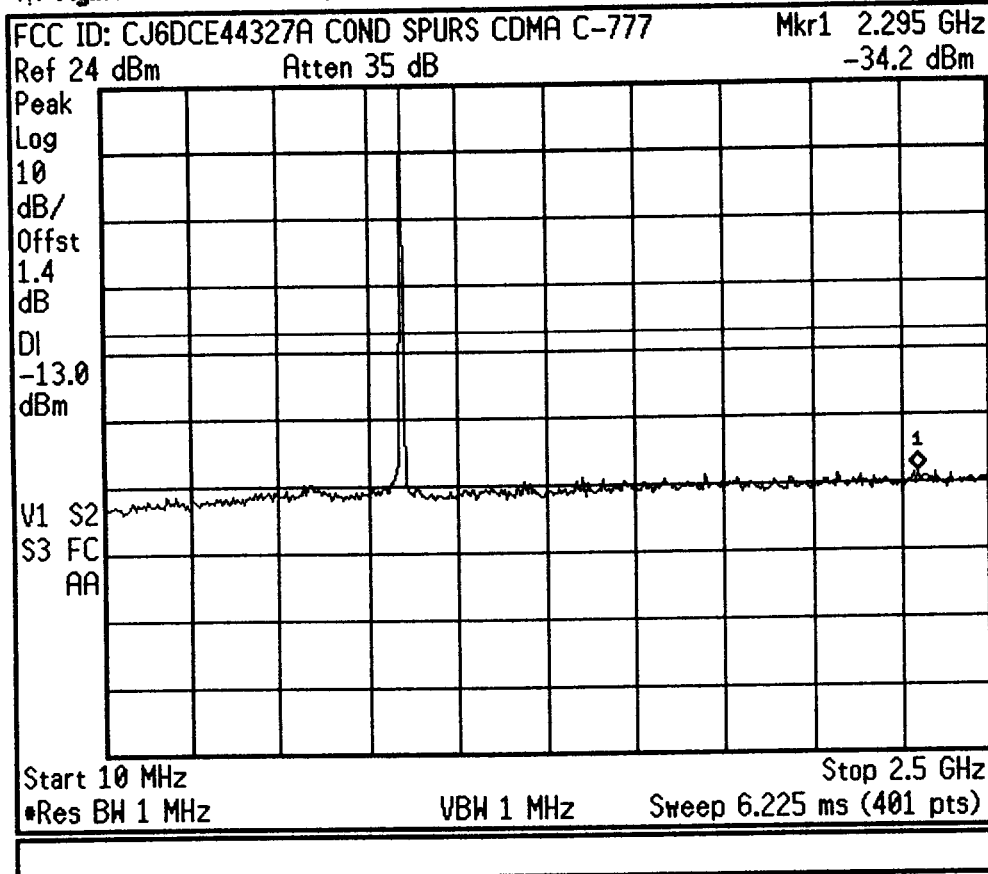
Stop Freq  
 10.0000000 GHz

CF Step  
 750.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

Agilent 07:23:03 Apr 9, 2001



Freq/Channel

Center Freq  
 1.25500000 GHz

Start Freq  
 10.0000000 MHz

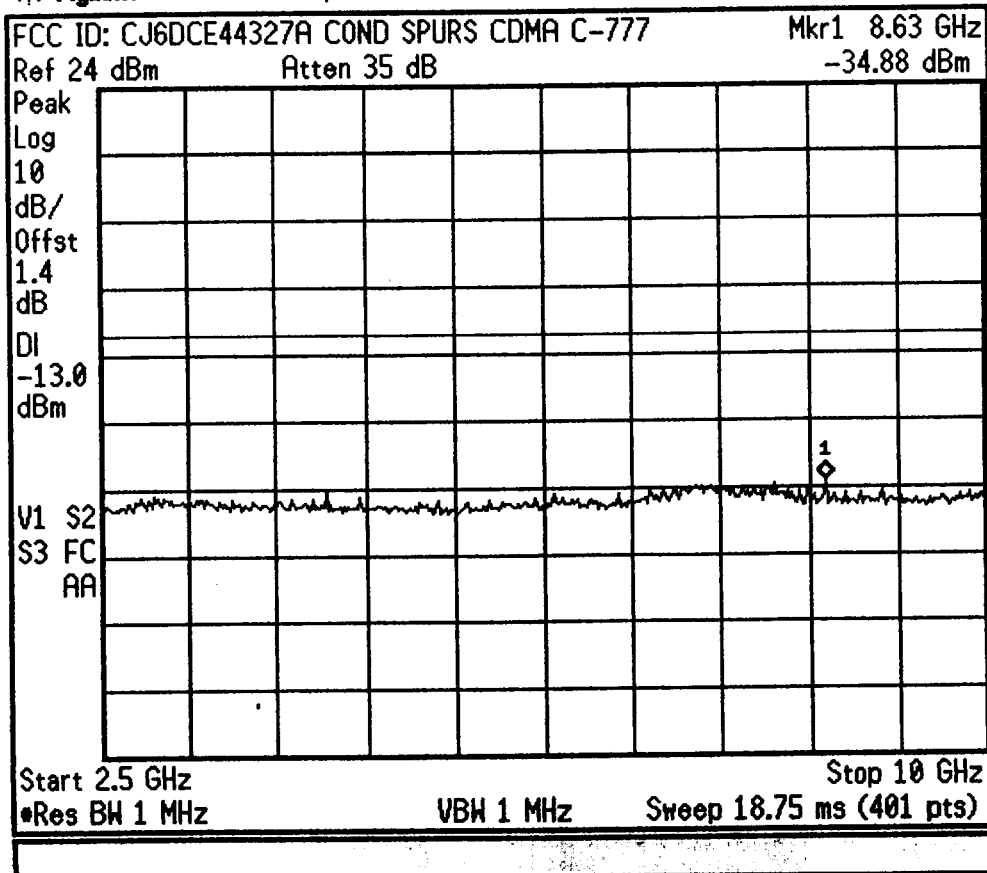
Stop Freq  
 2.50000000 GHz

CF Step  
 249.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

Agilent 07:24:52 Apr 9, 2001



Freq/Channel

Center Freq  
 6.25000000 GHz

Start Freq  
 2.50000000 GHz

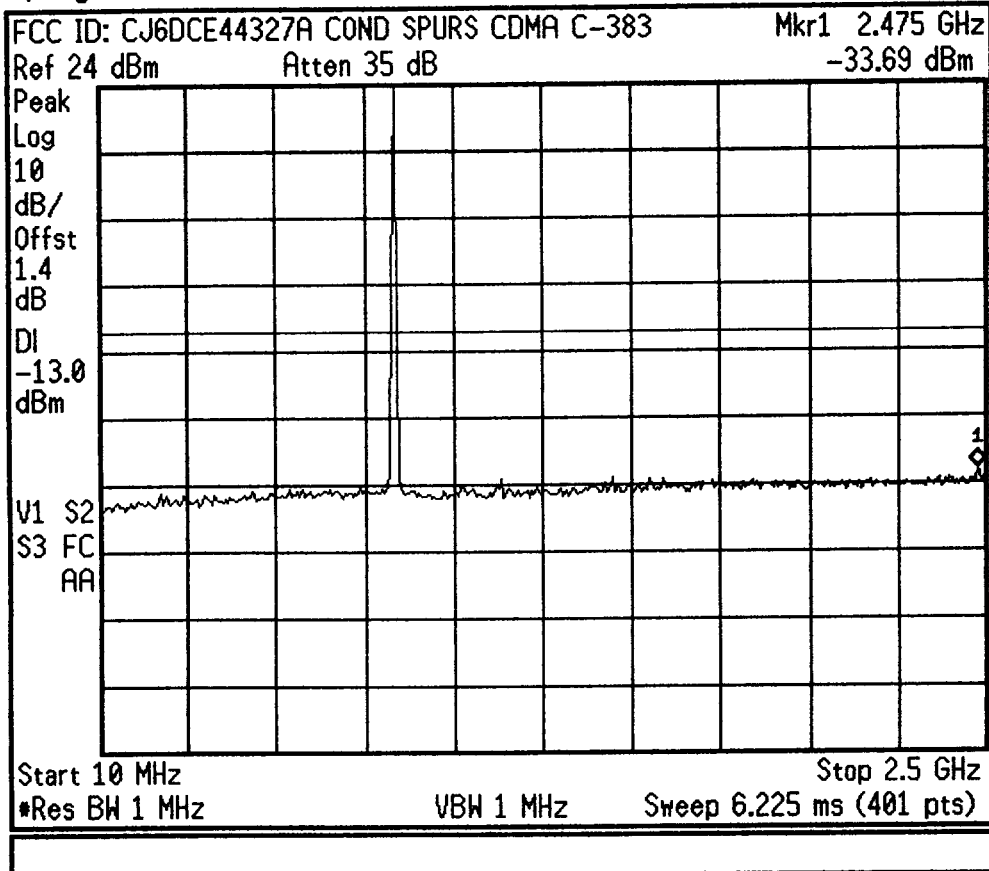
Stop Freq  
 10.0000000 GHz

CF Step  
 750.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

\* Agilent 07:21:18 Apr 9, 2001



Freq/Channel

Center Freq  
 1.25500000 GHz

Start Freq  
 10.0000000 MHz

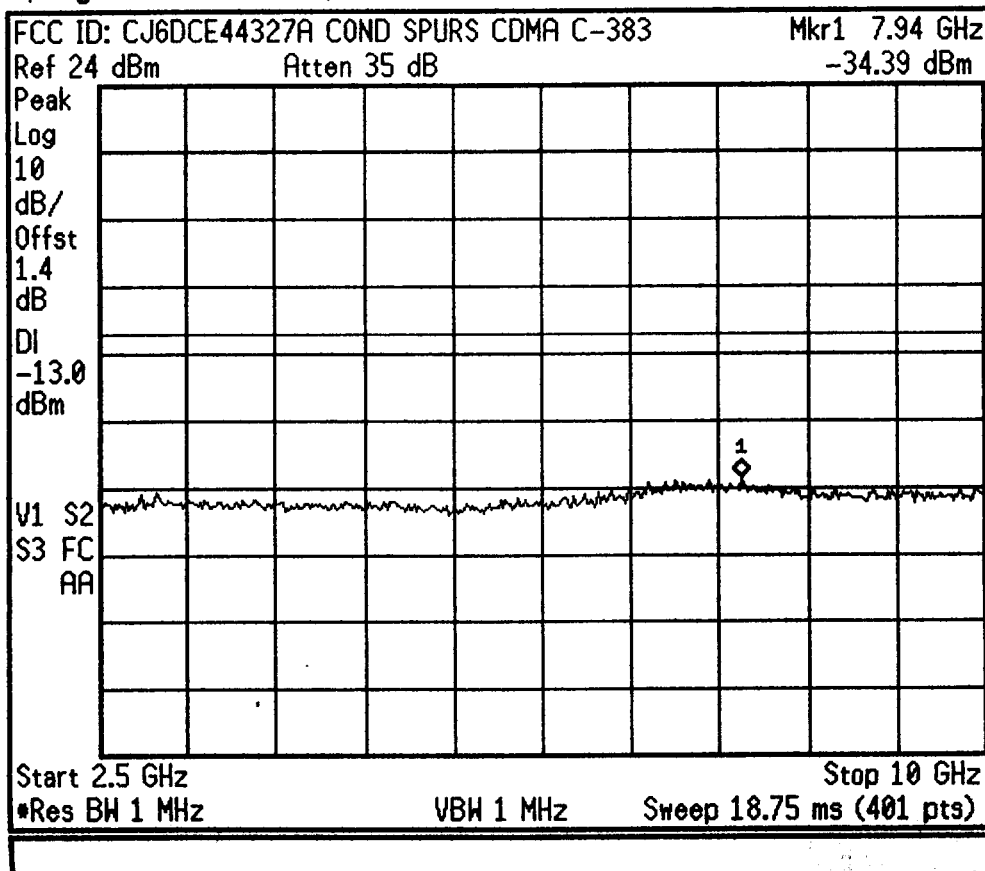
Stop Freq  
 2.50000000 GHz

CF Step  
 249.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

\* Agilent 07:22:02 Apr 9, 2001



Freq/Channel

Center Freq  
 6.25000000 GHz

Start Freq  
 2.50000000 GHz

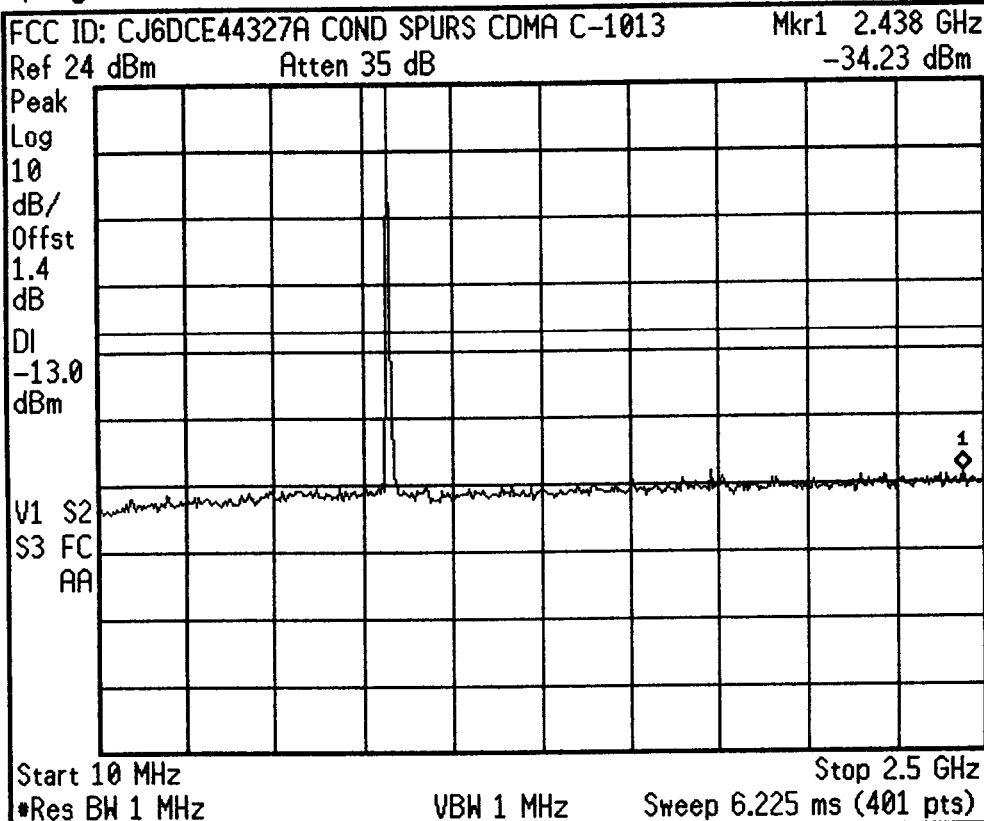
Stop Freq  
 10.0000000 GHz

CF Step  
 750.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

\* Agilent 07:19:11 Apr 9, 2001



Freq/Channel

Center Freq  
 1.25500000 GHz

Start Freq  
 10.0000000 MHz

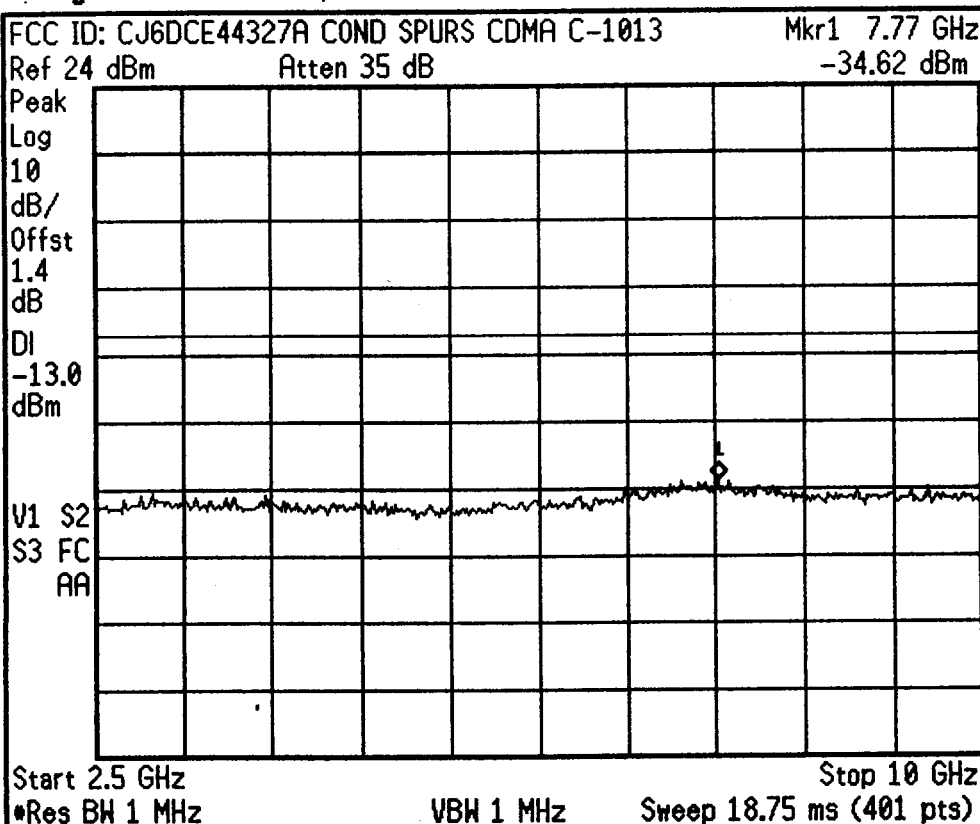
Stop Freq  
 2.50000000 GHz

CF Step  
 249.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

\* Agilent 07:20:08 Apr 9, 2001



Freq/Channel

Center Freq  
 6.25000000 GHz

Start Freq  
 2.50000000 GHz

Stop Freq  
 10.0000000 GHz

CF Step  
 750.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

\* Agilent 08:27:24 Apr 9, 2001

FCC ID: CJ6DCE44327A PWR OUT CDMA C-1013

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

1.4

dB

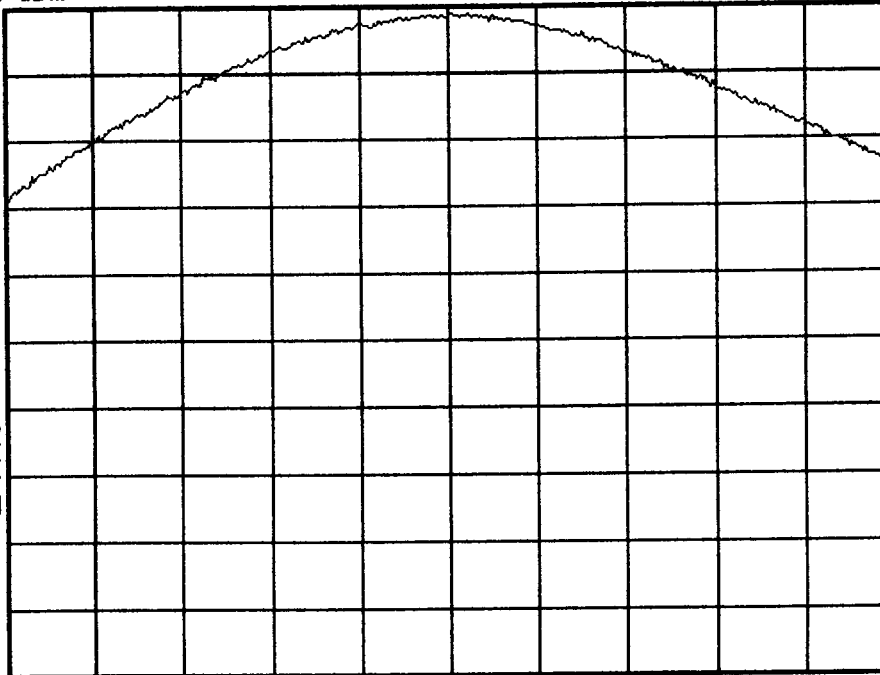
VAvg

100

V1 S2

S3 FC

AA



Center 824.7 MHz

Span 10 MHz

\*Res BW 3 MHz

\*VBW 3 MHz

Sweep 5 ms (401 pts)

Freq/Channel

Center Freq

824.700000 MHz

Start Freq

819.700000 MHz

Stop Freq

829.700000 MHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

\* Agilent 08:28:17 Apr 9, 2001

FCC ID: CJ6DCE44327A PWR OUT CDMA C-1013

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

1.4

dB

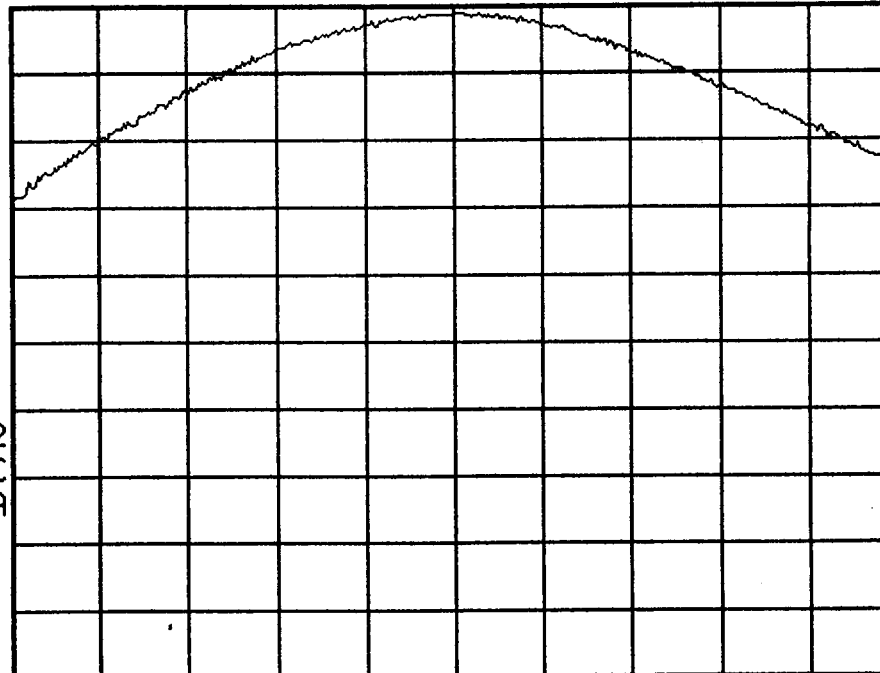
VAvg

100

V1 S2

S3 FC

AA



Center 836.5 MHz

Span 10 MHz

\*Res BW 3 MHz

\*VBW 3 MHz

Sweep 5 ms (401 pts)

Freq/Channel

Center Freq

836.490000 MHz

Start Freq

831.490000 MHz

Stop Freq

841.490000 MHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

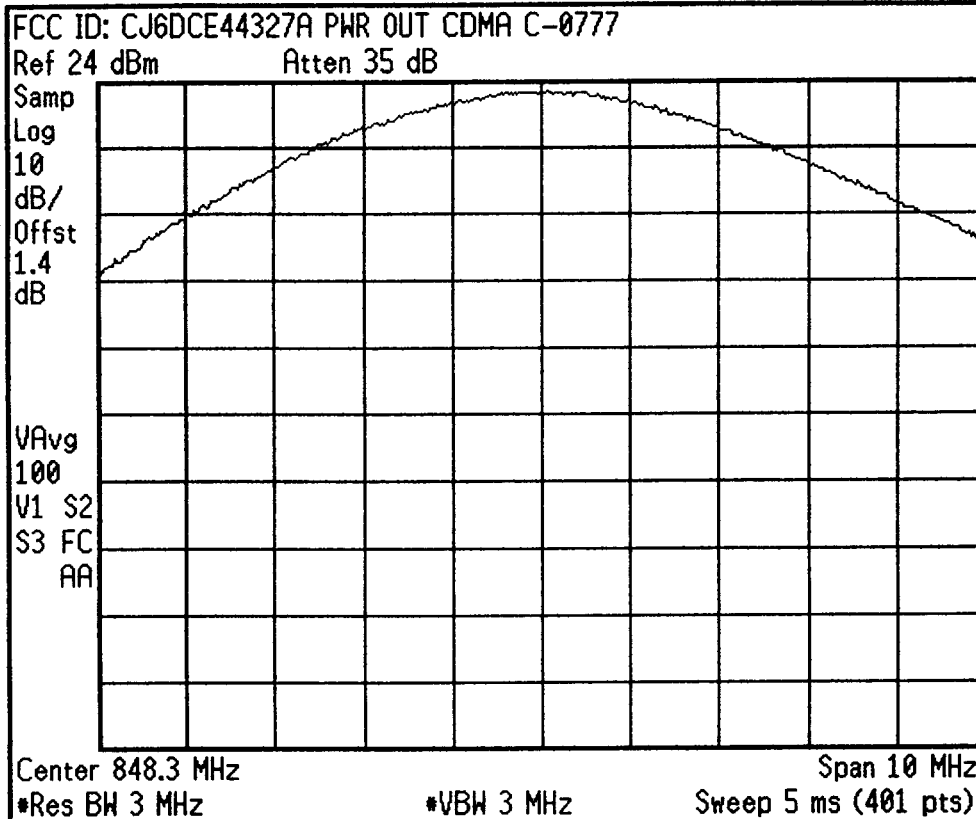
0.00000000 Hz

Signal Track

On

Off

\* Agilent 08:29:15 Apr 9, 2001



Freq/Channel

Center Freq  
848.310000 MHz

Start Freq  
843.310000 MHz

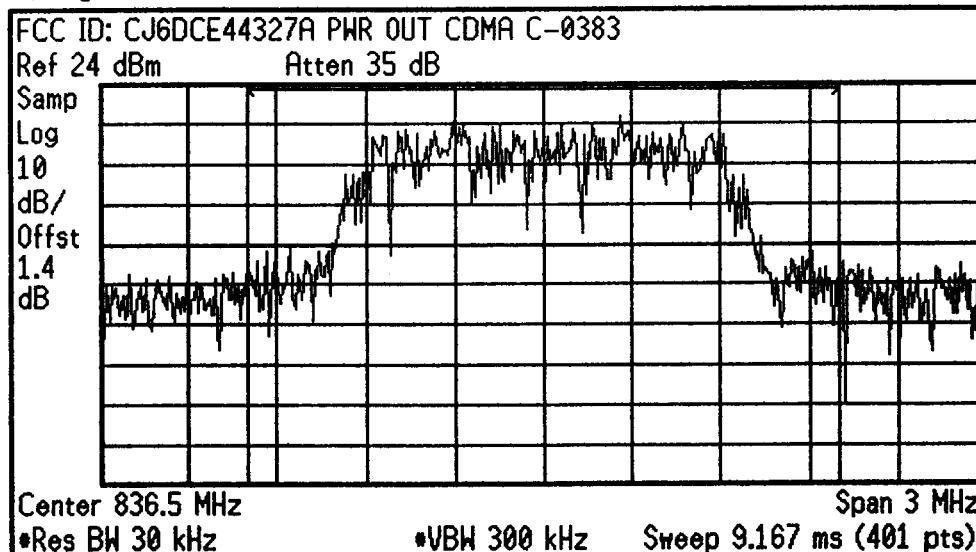
Stop Freq  
853.310000 MHz

CF Step  
1.00000000 MHz  
Auto Man

Freq Offset  
0.00000000 Hz

Signal Track  
On Off

\* Agilent 08:32:50 Apr 9, 2001



Freq/Channel

Center Freq  
836.490000 MHz

Start Freq  
834.990000 MHz

Stop Freq  
837.990000 MHz

CF Step  
300.000000 kHz  
Auto Man

Freq Offset  
0.00000000 Hz

Signal Track  
On Off

Channel Power Results (Idle)

Channel Power  
24.00 dBm

Integration BW 2.000 MHz

Density -39.01 dBm/Hz

\* Agilent 06:47:44 Apr 10, 2001

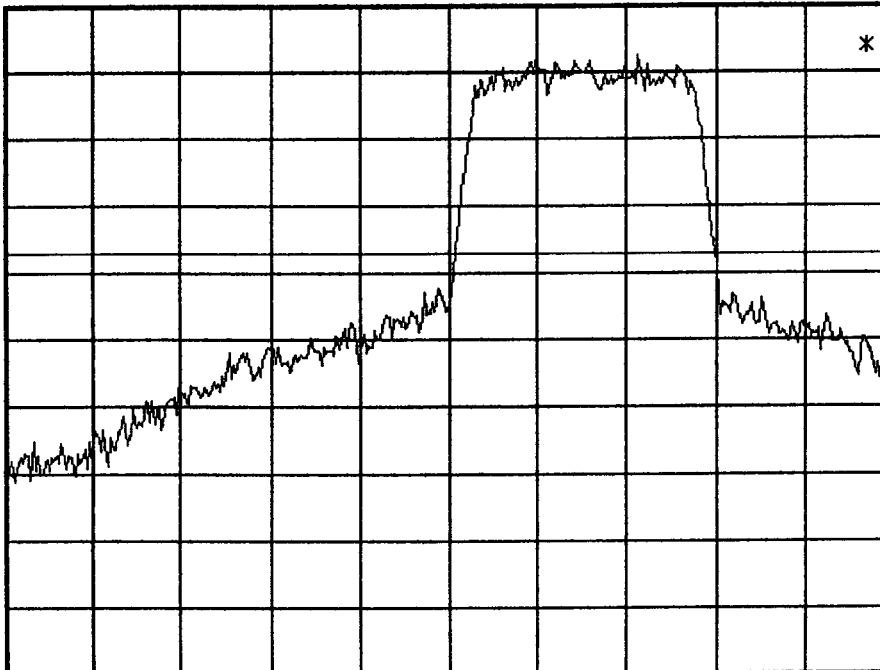
FCC ID: CJ6DCE44327A BAND EDGE CDMA C-1013

Ref 24 dBm

Atten 35 dB

Peak  
Log  
10  
dB/  
Offst  
1.4  
dB  
DI  
-13.0  
dBm

V1 S2  
S3 FC  
AA



Center 824 MHz

Span 5 MHz

Res BW 30 kHz

VBW 30 kHz

Sweep 13.89 ms (401 pts)

Freq/Channel

Center Freq  
824.000000 MHz

Start Freq  
821.500000 MHz

Stop Freq  
826.500000 MHz

CF Step  
500.000000 kHz  
Auto Man

Freq Offset  
0.00000000 Hz

Signal Track  
On Off

\* Agilent 06:51:50 Apr 10, 2001

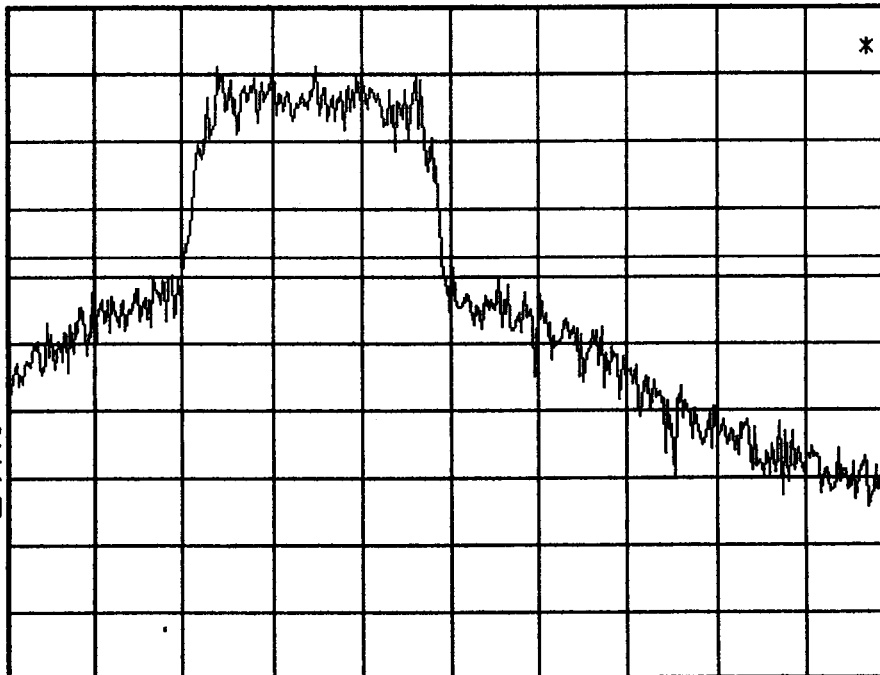
FCC ID: CJ6DCE44327A BAND EDGE CDMA C-0777

Ref 24 dBm

Atten 35 dB

Samp  
Log  
10  
dB/  
Offst  
1.4  
dB  
DI  
-13.0  
dBm

VAvg  
100  
V1 S2  
S3 FC  
AA



Center 849 MHz

Span 5 MHz

Res BW 30 kHz

VBW 30 kHz

Sweep 13.89 ms (401 pts)

Freq/Channel

Center Freq  
849.000000 MHz

Start Freq  
846.500000 MHz

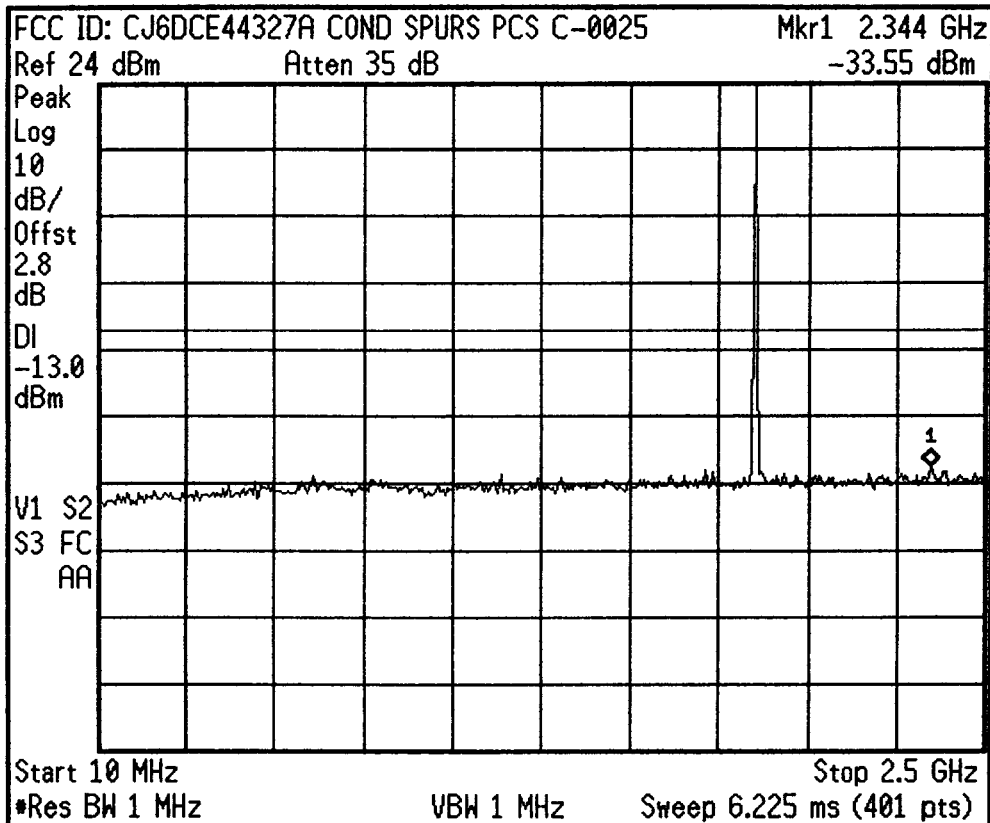
Stop Freq  
851.500000 MHz

CF Step  
500.000000 kHz  
Auto Man

Freq Offset  
0.00000000 Hz

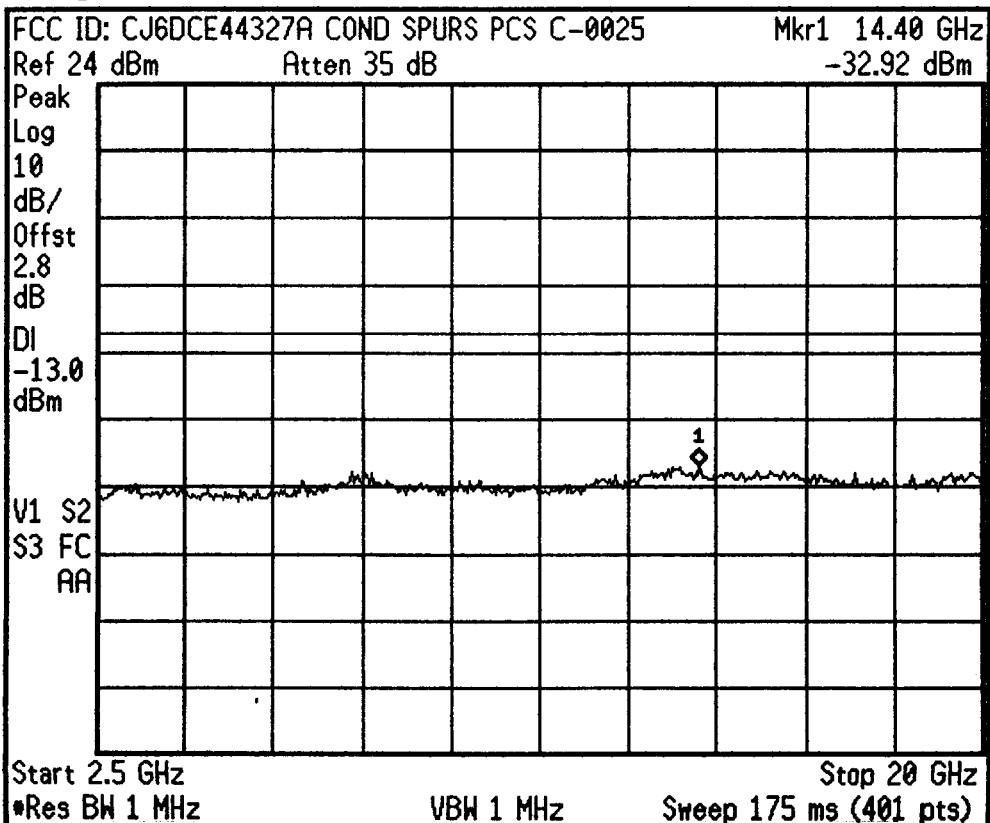
Signal Track  
On Off

\* Agilent 07:27:23 Apr 9, 2001



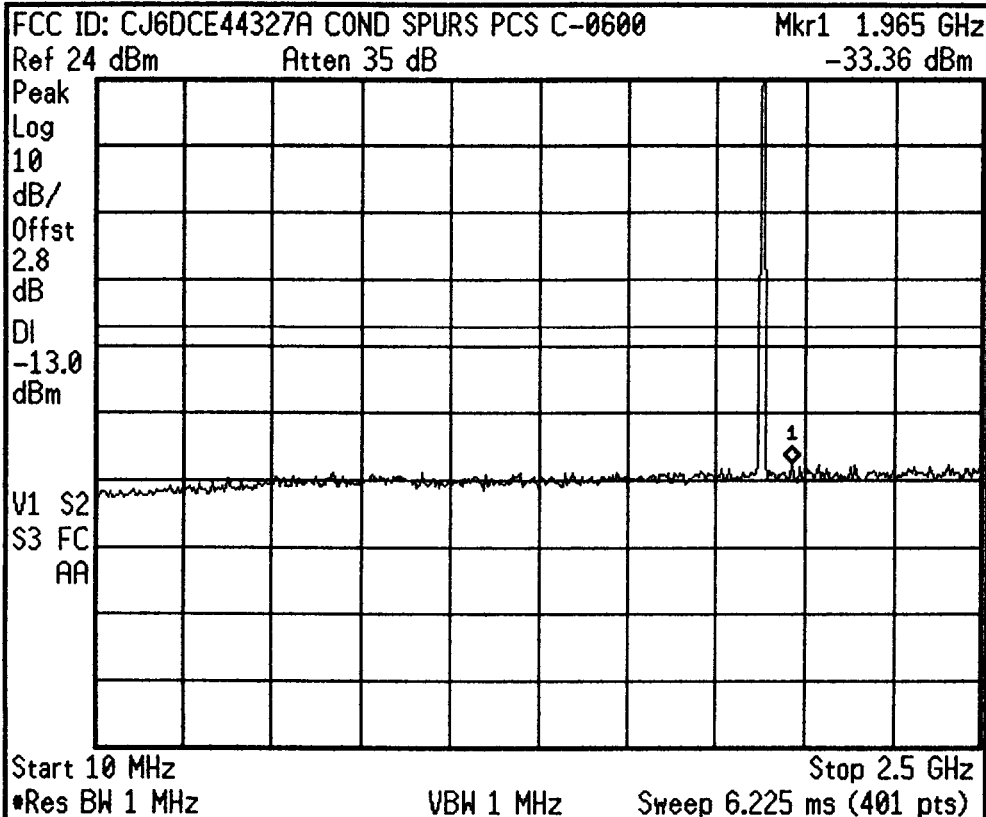
|                     |                            |
|---------------------|----------------------------|
| <b>Freq/Channel</b> |                            |
| <b>Center Freq</b>  | 1.25500000 GHz             |
| <b>Start Freq</b>   | 10.0000000 MHz             |
| <b>Stop Freq</b>    | 2.50000000 GHz             |
| <b>CF Step</b>      | 249.000000 MHz<br>Auto Man |
| <b>Freq Offset</b>  | 0.00000000 Hz              |
| <b>Signal Track</b> | On Off                     |

\* Agilent 07:28:15 Apr 9, 2001



|                     |                            |
|---------------------|----------------------------|
| <b>Freq/Channel</b> |                            |
| <b>Center Freq</b>  | 11.2500000 GHz             |
| <b>Start Freq</b>   | 2.50000000 GHz             |
| <b>Stop Freq</b>    | 20.0000000 GHz             |
| <b>CF Step</b>      | 1.75000000 GHz<br>Auto Man |
| <b>Freq Offset</b>  | 0.00000000 Hz              |
| <b>Signal Track</b> | On Off                     |

\* Agilent 07:29:53 Apr 9, 2001



Freq/Channel

Center Freq  
 1.25500000 GHz

Start Freq  
 10.0000000 MHz

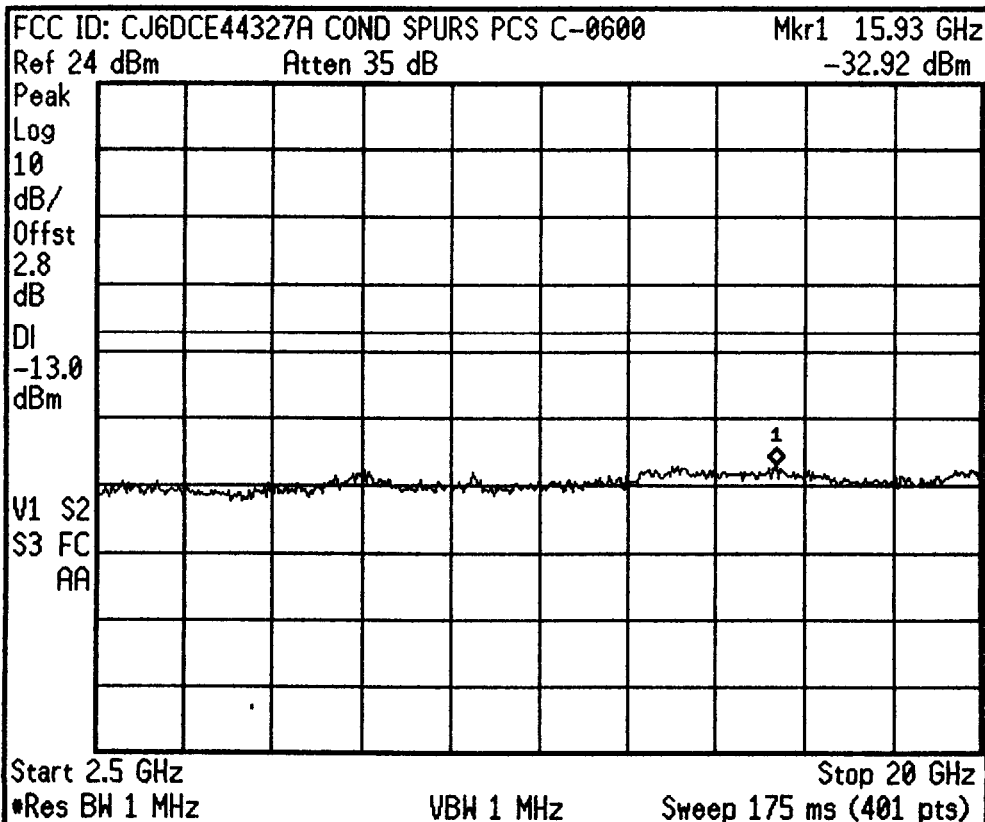
Stop Freq  
 2.50000000 GHz

CF Step  
 249.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

\* Agilent 07:30:36 Apr 9, 2001



Freq/Channel

Center Freq  
 11.2500000 GHz

Start Freq  
 2.50000000 GHz

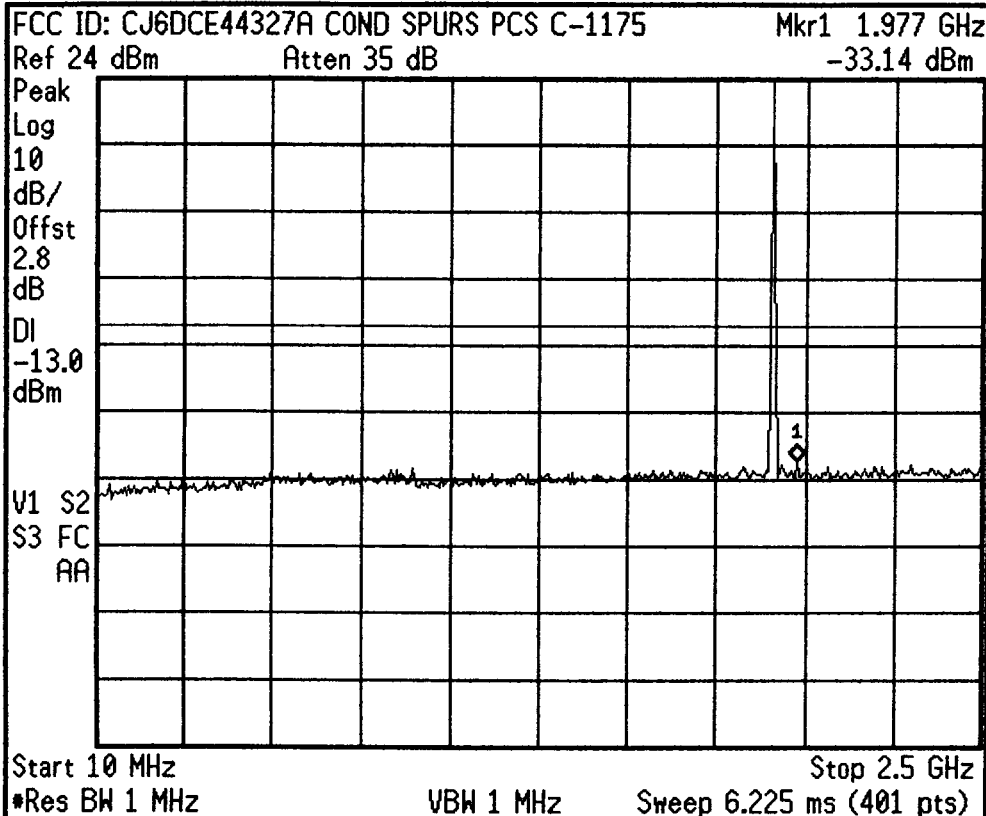
Stop Freq  
 20.0000000 GHz

CF Step  
 1.75000000 GHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

\* Agilent 07:32:32 Apr 9, 2001



Freq/Channel

Center Freq  
 1.2500000 GHz

Start Freq  
 10.0000000 MHz

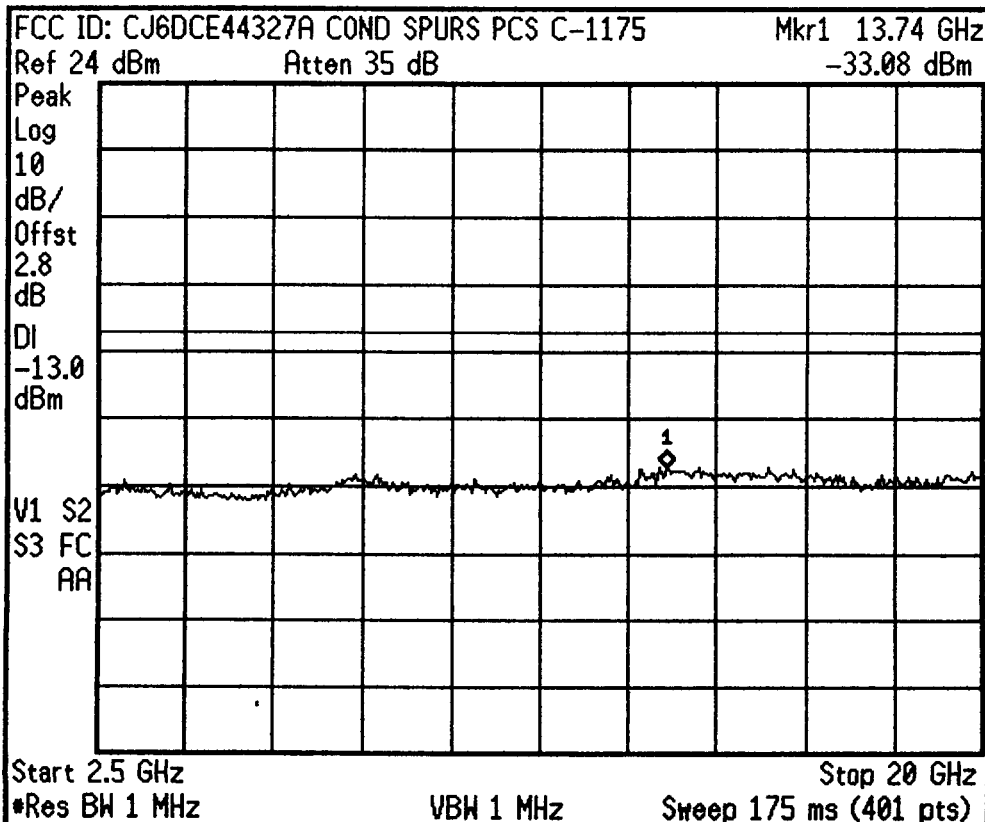
Stop Freq  
 2.5000000 GHz

CF Step  
 249.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

\* Agilent 08:01:08 Apr 9, 2001



Freq/Channel

Center Freq  
 11.2500000 GHz

Start Freq  
 2.50000000 GHz

Stop Freq  
 20.0000000 GHz

CF Step  
 1.75000000 GHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

Agilent 07:04:57 Apr 11, 2001

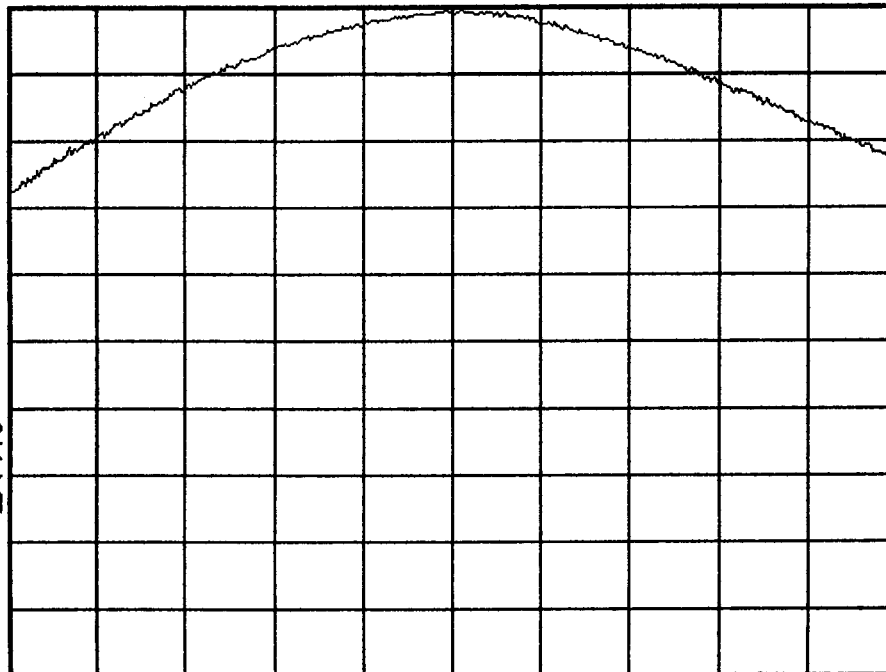
FCC ID: CJ6DCE44327A PWR OUT PCS C-0600

Ref 24 dBm

Atten 35 dB

Samp  
Log  
10  
dB/  
Offst  
2.8  
dB

VAvg  
100  
V1 S2  
S3 FC  
AA



Center 1.88 GHz

\*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz  
Sweep 5 ms (401 pts)

Freq/Channel

Center Freq

1.88000000 GHz

Start Freq

1.87500000 GHz

Stop Freq

1.88500000 GHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Agilent 07:06:01 Apr 11, 2001

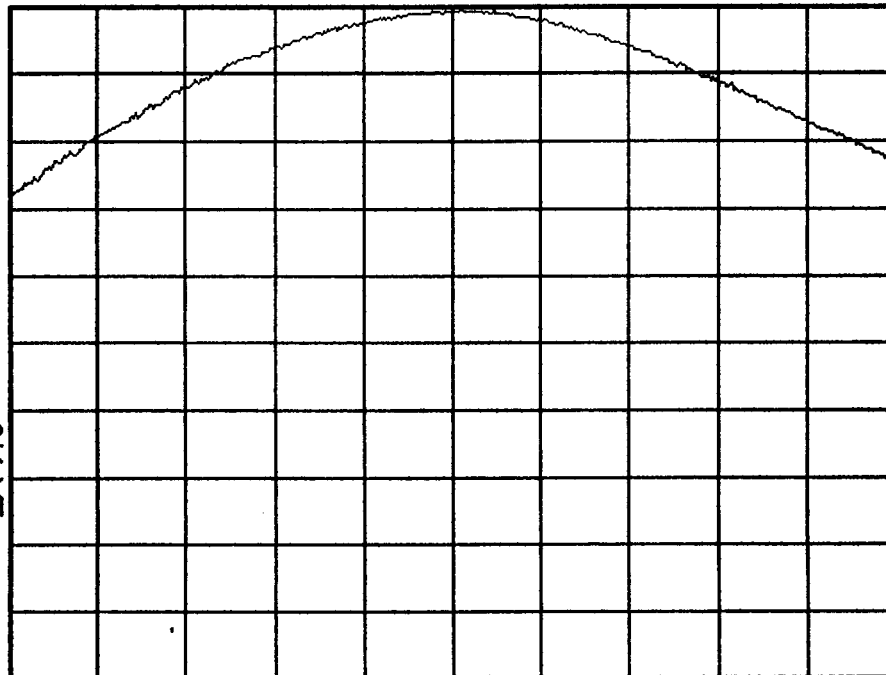
FCC ID: CJ6DCE44327A PWR OUT PCS C-1175

Ref 24 dBm

Atten 35 dB

Samp  
Log  
10  
dB/  
Offst  
2.8  
dB

VAvg  
100  
V1 S2  
S3 FC  
AA



Center 1.909 GHz

\*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz  
Sweep 5 ms (401 pts)

Freq/Channel

Center Freq

1.90875000 GHz

Start Freq

1.90375000 GHz

Stop Freq

1.91375000 GHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

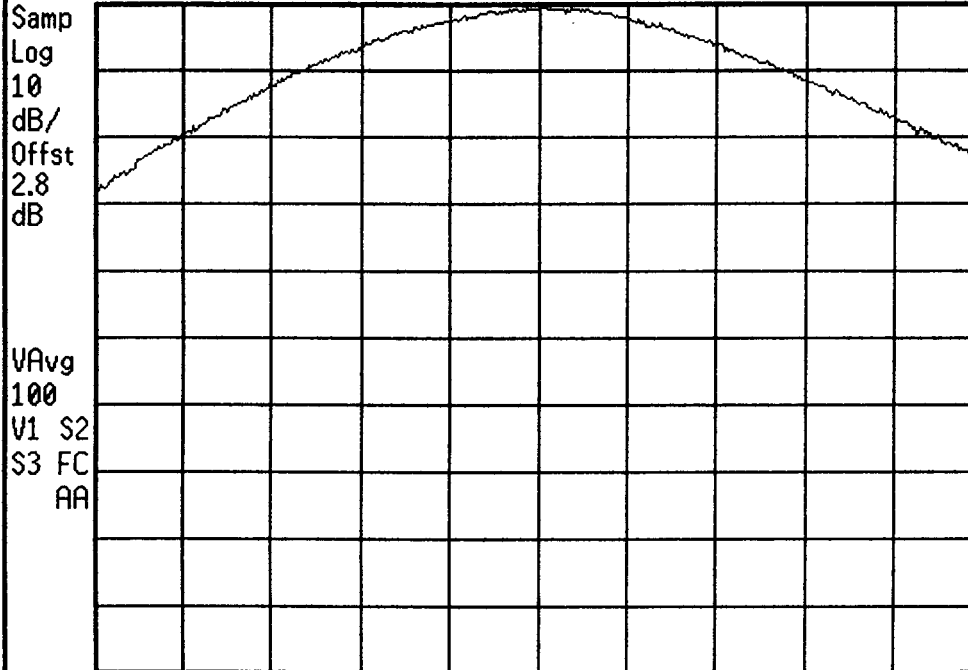
On

Off

\* Agilent 08:17:42 Apr 9, 2001

FCC ID: CJ6DCE44327A PWR OUT PCS C-0025

Ref 24 dBm Atten 35 dB



Center 1.851 GHz Span 10 MHz  
 \*Res BW 3 MHz \*VBW 3 MHz Sweep 5 ms (401 pts)

Freq/Channel

Center Freq  
1.85125000 GHz

Start Freq  
1.84625000 GHz

Stop Freq  
1.85625000 GHz

CF Step  
1.00000000 MHz  
Auto Man

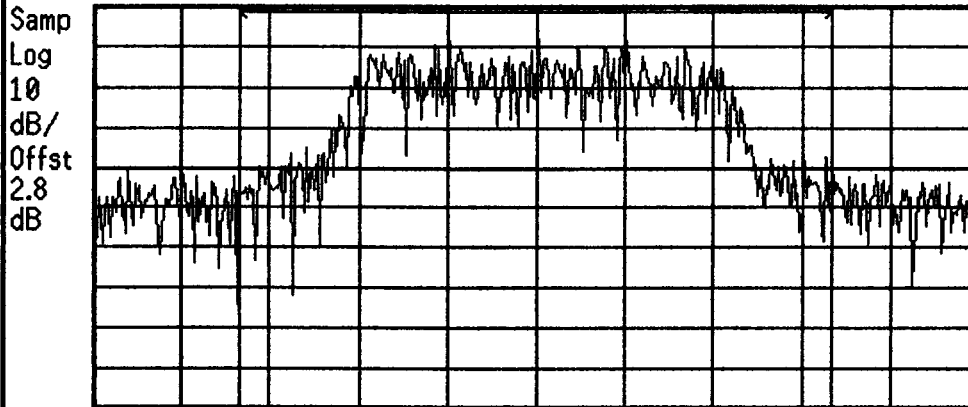
Freq Offset  
0.00000000 Hz

Signal Track  
On Off

\* Agilent 08:21:01 Apr 9, 2001

FCC ID: CJ6DCE44327A PWR OUT PCS C-0025

Ref 24 dBm Atten 35 dB



Center 1.851 GHz Span 3 MHz  
 \*Res BW 30 kHz \*VBW 300 kHz Sweep 9.167 ms (401 pts)

Freq/Channel

Center Freq  
1.85125000 GHz

Start Freq  
1.84975000 GHz

Stop Freq  
1.85275000 GHz

CF Step  
300.000000 kHz  
Auto Man

Freq Offset  
0.00000000 Hz

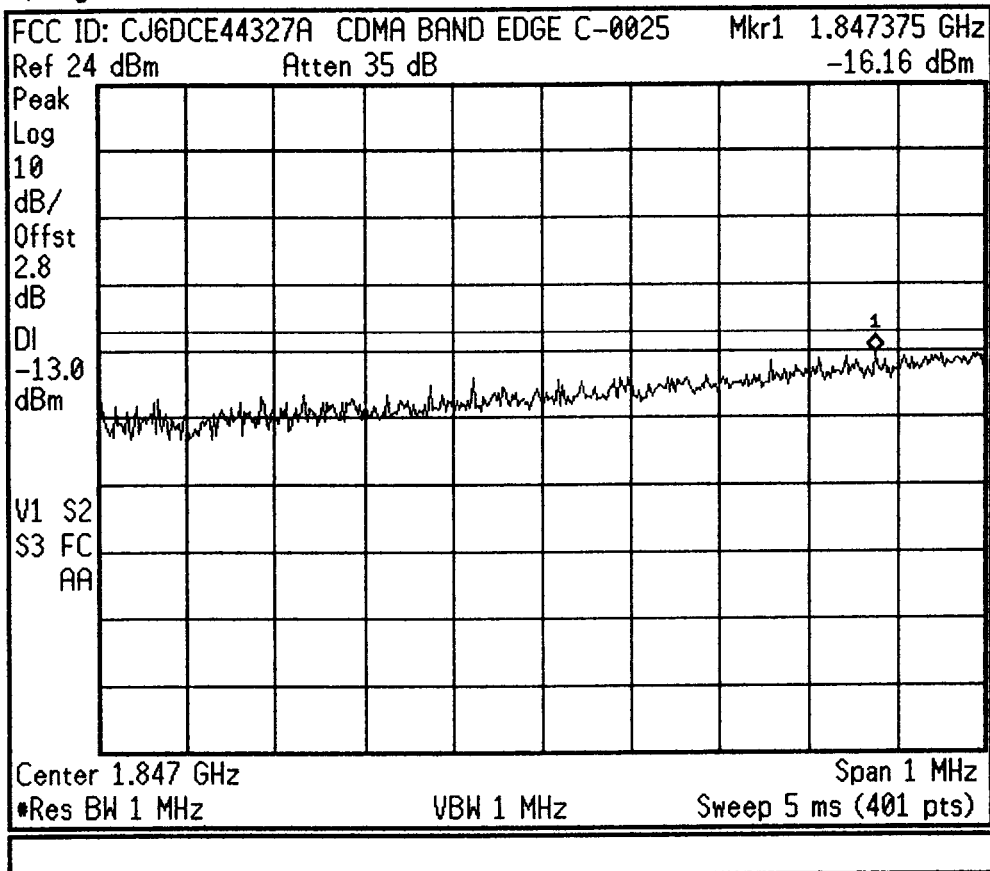
Signal Track  
On Off

Channel Power Results (Idle)

Channel Power  
24.00 dBm  
Integration BW 2.000 MHz  
Density -39.01 dBm/Hz



\* Agilent 06:29:15 Apr 11, 2001



Freq/Channel

Center Freq  
 1.84700000 GHz

Start Freq  
 1.84650000 GHz

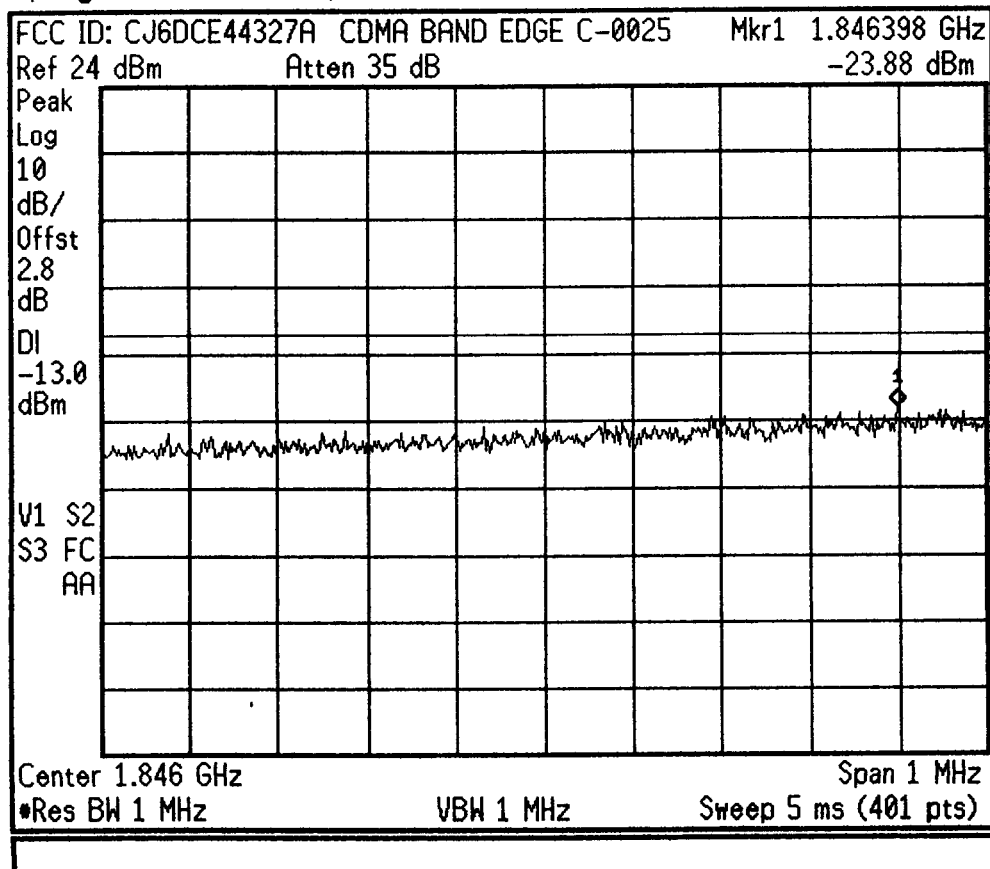
Stop Freq  
 1.84750000 GHz

CF Step  
 100.000000 kHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

\* Agilent 06:30:01 Apr 11, 2001



Freq/Channel

Center Freq  
 1.84600000 GHz

Start Freq  
 1.84550000 GHz

Stop Freq  
 1.84650000 GHz

CF Step  
 100.000000 kHz  
 Auto Man

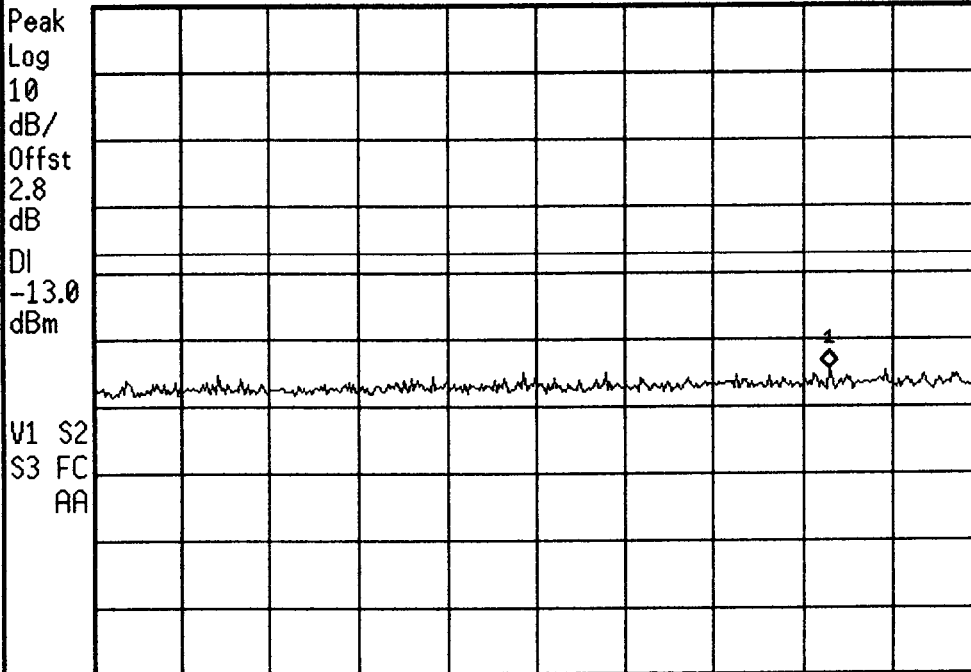
Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

Agilent 06:26:23 Apr 11, 2001

FCC ID: CJ6DCE44327A CDMA BAND EDGE C-0025 Mkr1 1.844330 GHz

Ref 24 dBm Atten 35 dB -30.31 dBm



Center 1.844 GHz Span 1 MHz  
 \*Res BW 1 MHz VBW 1 MHz Sweep 5 ms (401 pts)

Freq/Channel

Center Freq  
1.84400000 GHz

Start Freq  
1.84350000 GHz

Stop Freq  
1.84450000 GHz

CF Step  
100.000000 kHz  
Auto Man

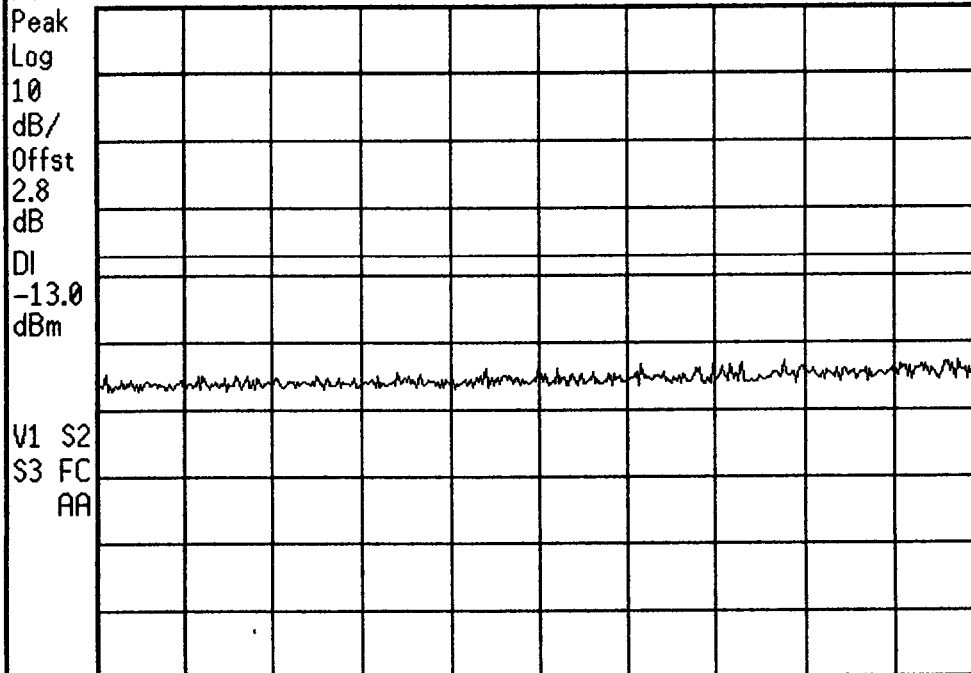
Freq Offset  
0.00000000 Hz

Signal Track  
On Off

Agilent 06:27:18 Apr 11, 2001

FCC ID: CJ6DCE44327A CDMA BAND EDGE C-0025 Mkr1 1.845498 GHz

Ref 24 dBm Atten 35 dB -28.47 dBm



Center 1.845 GHz Span 1 MHz  
 \*Res BW 1 MHz VBW 1 MHz Sweep 5 ms (401 pts)

Freq/Channel

Center Freq  
1.84500000 GHz

Start Freq  
1.84450000 GHz

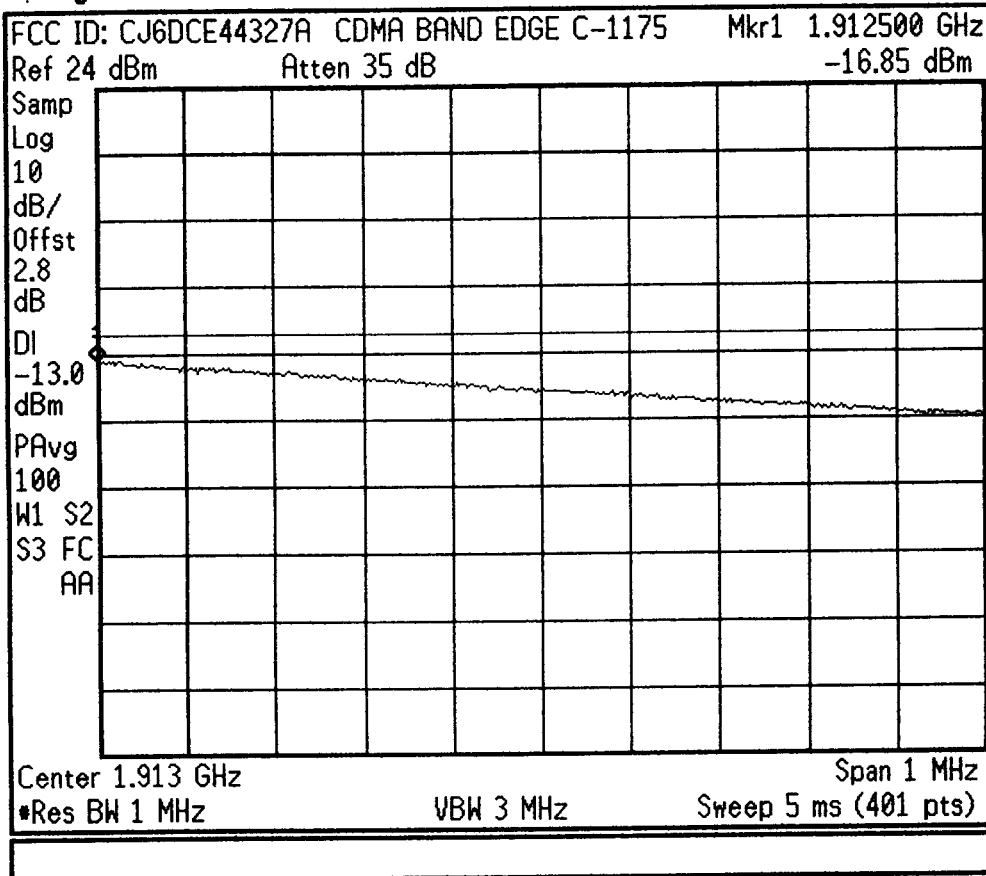
Stop Freq  
1.84550000 GHz

CF Step  
100.000000 kHz  
Auto Man

Freq Offset  
0.00000000 Hz

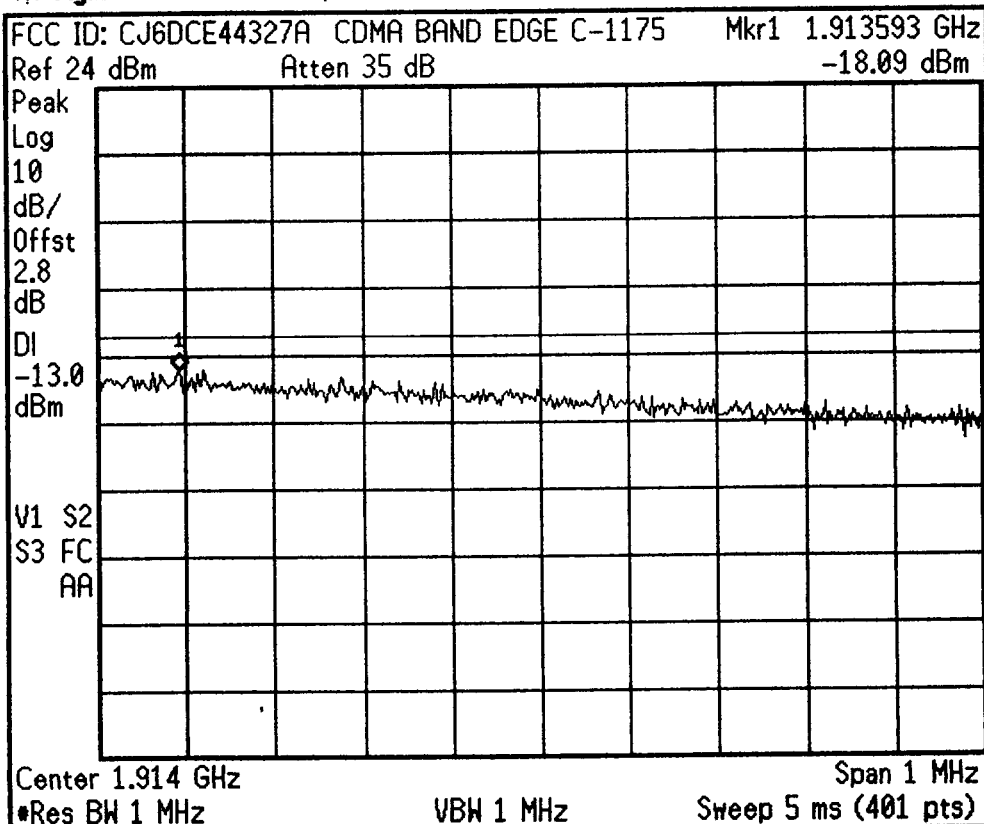
Signal Track  
On Off

\* Agilent 06:39:07 Apr 11, 2001



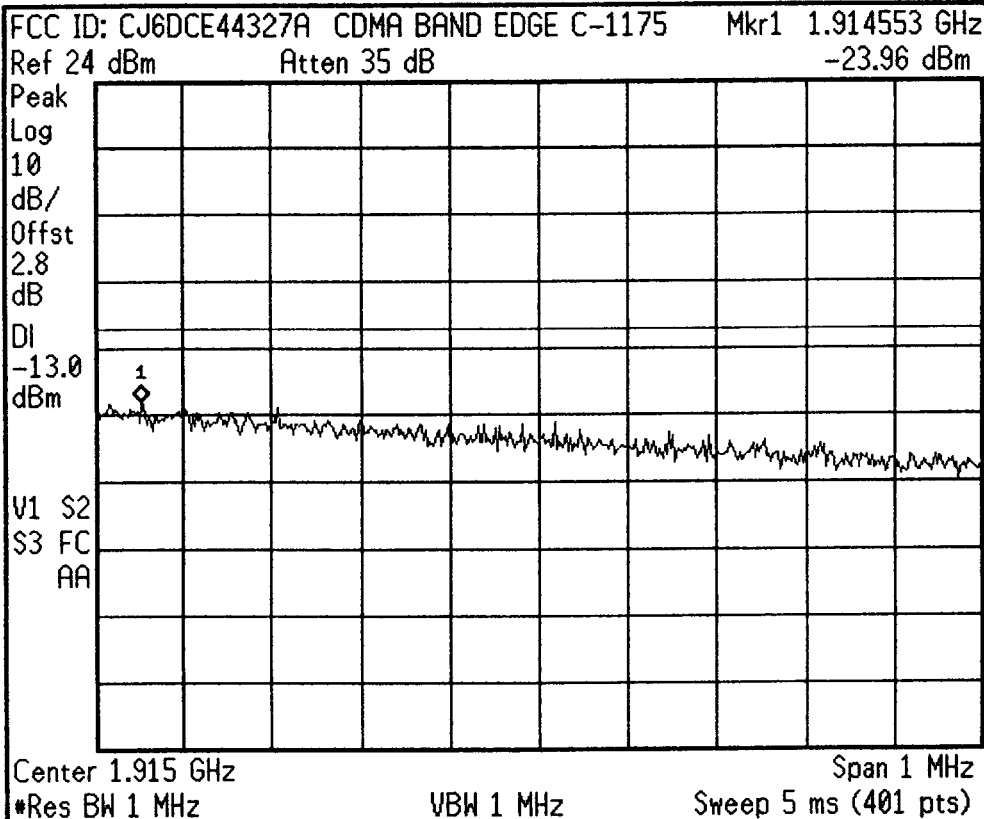
|                                              |
|----------------------------------------------|
| <b>Freq/Channel</b>                          |
| <b>Center Freq</b><br>1.91300000 GHz         |
| <b>Start Freq</b><br>1.91250000 GHz          |
| <b>Stop Freq</b><br>1.91350000 GHz           |
| <b>CF Step</b><br>100.000000 kHz<br>Auto Man |
| <b>Freq Offset</b><br>0.00000000 Hz          |
| <b>Signal Track</b><br>On Off                |

\* Agilent 06:55:44 Apr 11, 2001



|                                              |
|----------------------------------------------|
| <b>Freq/Channel</b>                          |
| <b>Center Freq</b><br>1.91400000 GHz         |
| <b>Start Freq</b><br>1.91350000 GHz          |
| <b>Stop Freq</b><br>1.91450000 GHz           |
| <b>CF Step</b><br>100.000000 kHz<br>Auto Man |
| <b>Freq Offset</b><br>0.00000000 Hz          |
| <b>Signal Track</b><br>On Off                |

Agilent 06:56:25 Apr 11, 2001



Freq/Channel

Center Freq  
 1.91500000 GHz

Start Freq  
 1.91450000 GHz

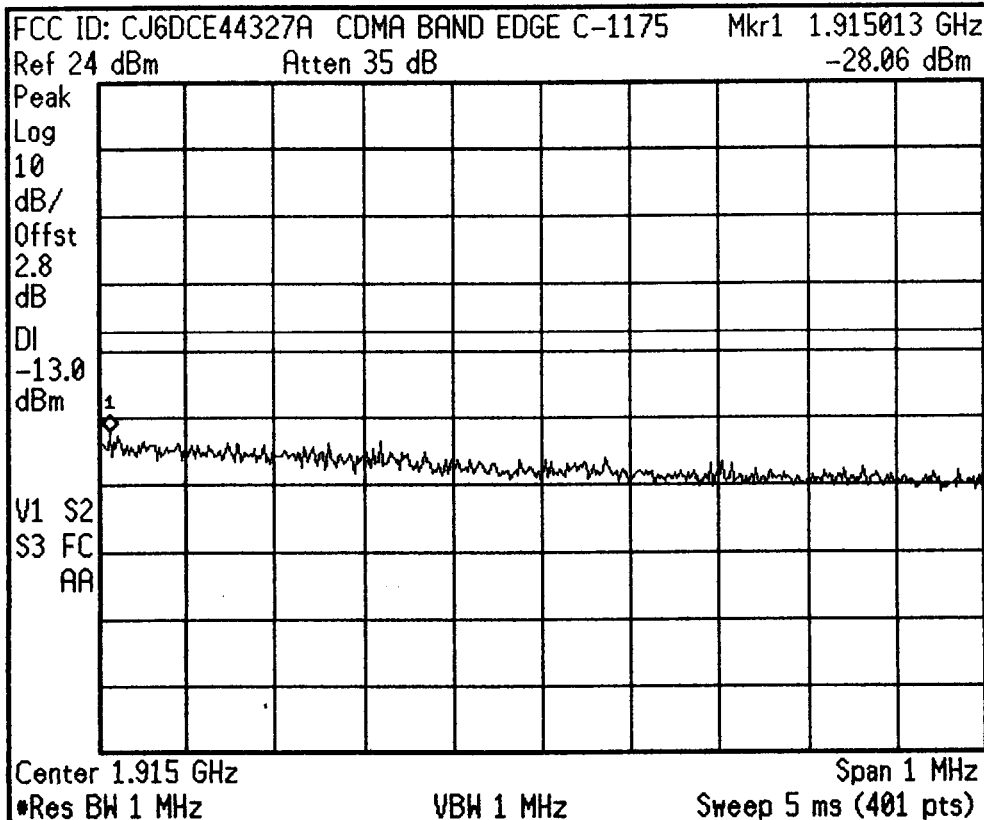
Stop Freq  
 1.91550000 GHz

CF Step  
 100.000000 kHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

Agilent 06:57:14 Apr 11, 2001



Freq/Channel

Center Freq  
 1.91550000 GHz

Start Freq  
 1.91500000 GHz

Stop Freq  
 1.91600000 GHz

CF Step  
 100.000000 kHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

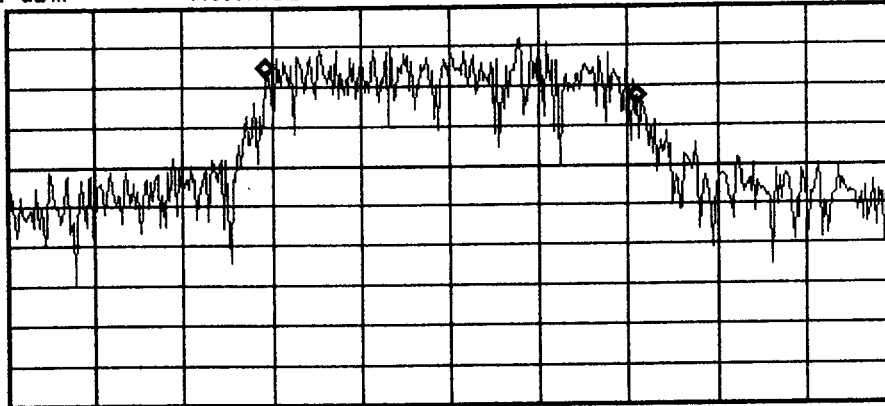
Signal Track  
 On Off

FCC ID: CJ6DCE44327A PWR OUT PCS C-0600

Ref 24 dBm

Atten 35 dB

Samp  
Log  
10  
dB/  
Offst  
2.8  
dB



Center 1.88 GHz

Span 3 MHz

\*Res BW 30 kHz

\*VBW 300 kHz

Sweep 9.167 ms (401 pts)

Occupied Bandwidth Results (idle)

Occupied Bandwidth

Occ BW % Pwr 99.00 %

1.250 MHz

Transmit Freq Error 1.772 kHz

Freq/Channel

Center Freq

1.88000000 GHz

Start Freq

1.87850000 GHz

Stop Freq

1.88150000 GHz

CF Step

300.000000 kHz

Auto Man

Freq Offset

0.00000000 Hz

Signal Track

On Off

**PCTEST Engineering Lab., Inc.**

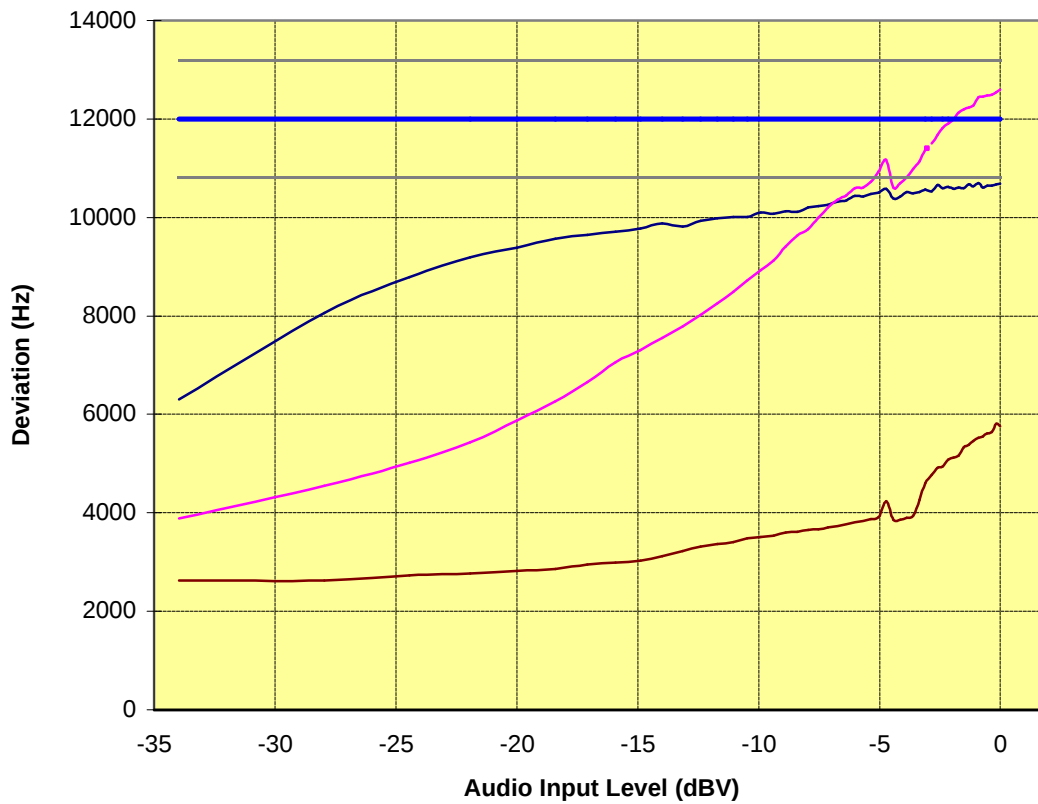
**SUBJECT:** Modulation Characteristics  
FCC Part 24/22

Test Report No.: 24/22.210329215.CJ6  
Test Date: 04.02-06.2001

**EUT:** TOSHIBA Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)  
**Model:** CDM-9100  
**FCC ID:** CJ6DCE44329A

**REFERENCE:** 1 kHz = 0 dB

## Modulation Limiting



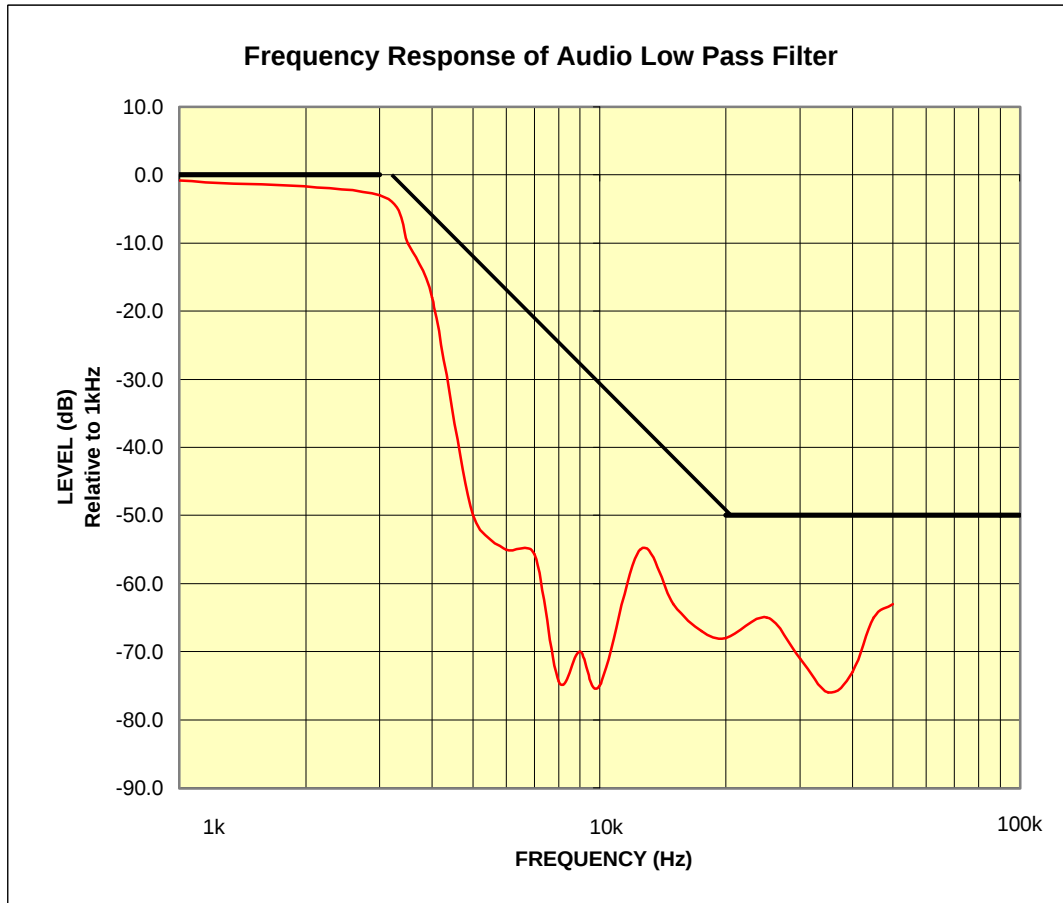
**PCTEST Engineering Lab., Inc.**

**SUBJECT:** Modulation Characteristics  
FCC Part 24/22

Test Report No.: 24/22.210329215.CJ6  
Test Date: 04.02-06.2001

**EUT:** TOSHIBA Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)  
**Model:** CDM-9100  
**FCC ID:** CJ6DCE44329A

**REFERENCE:** 1 kHz = 0 dB



**PCTEST Engineering Lab., Inc.**

**SUBJECT:** Modulation Characteristics  
FCC Part 24/22

Test Report No.: 24/22.210329215.CJ6  
Test Date: 04.02-06.2001

**EUT:** TOSHIBA Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)  
**Model:** CDM-9100  
**FCC ID:** CJ6DCE44329A

**REFERENCE:** 1 kHz = 0 dB

