MOTOROLA

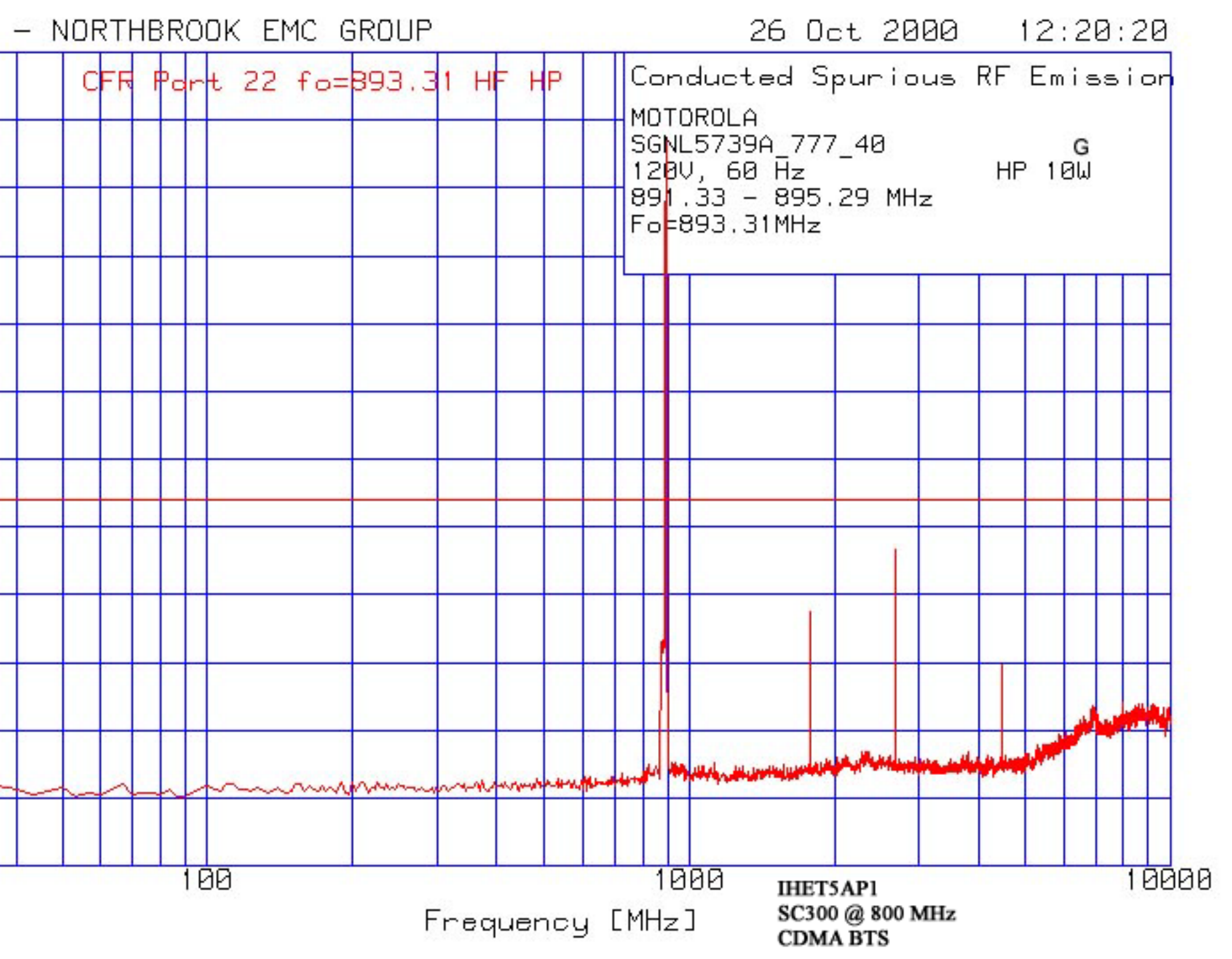
Network Systems Group
CDMA Systems Division

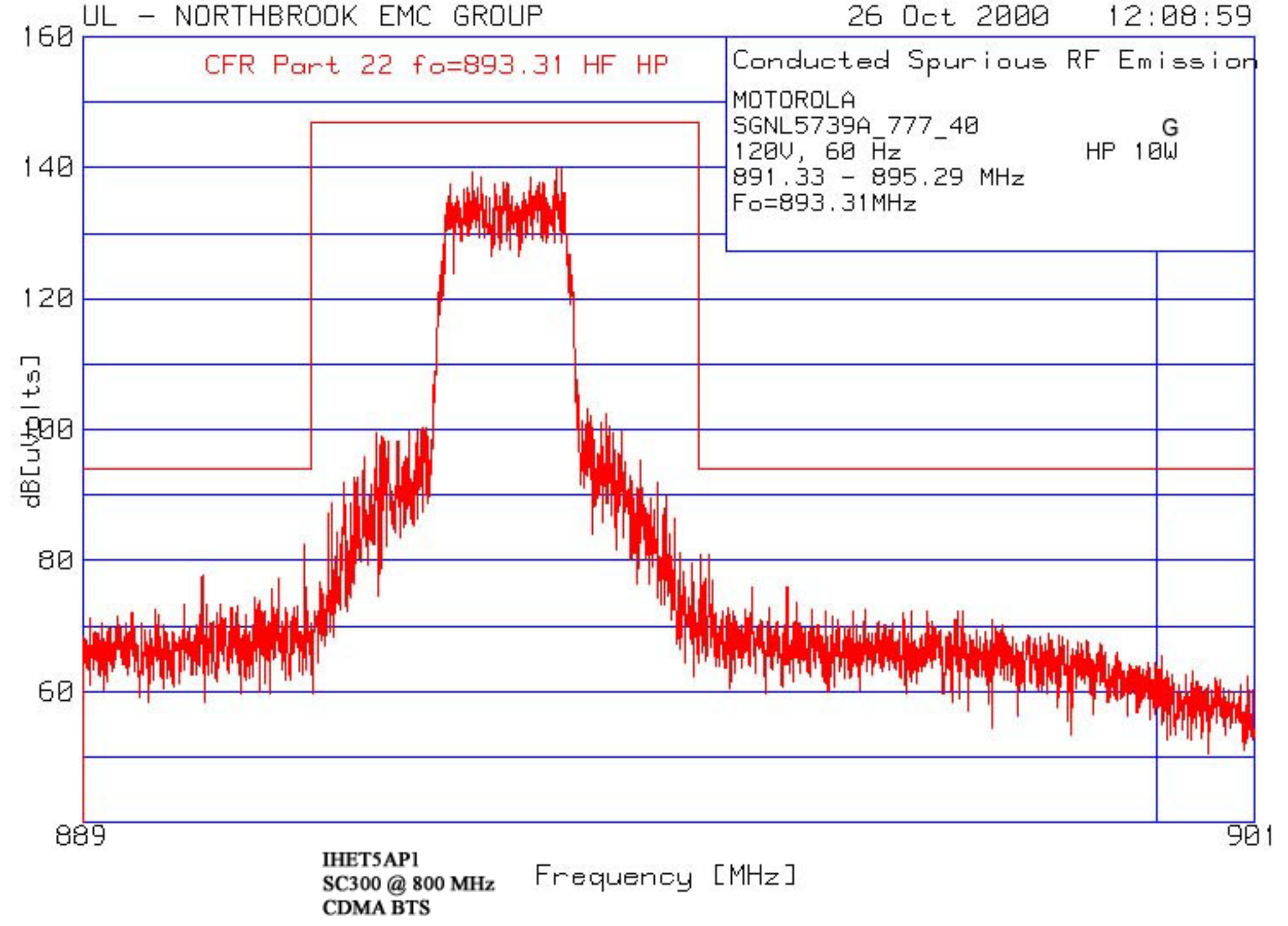
SECTION D **FCC ID: IHET5AP1**

SPURIOUS & HARMONIC EMISSIONS CONDUCTED

CDMA Transmitter Channel 777

Maximum Power


- NORTHBROOK EMC GROUP
26 Oct 2000 12:20:20
CFR Part 22 fo=893.31 HF HP
Conducted Spurious RF Emission
MOTOROLA
SGNL5739A_777_40
G
120V, 60 Hz
HP 10W
891.33 - 895.29 MHz
Fo=893.31MHz
100
1000
10000
Frequency [MHz]
IHET5AP1
SC300 @ 800 MHz
CDMA BTS


UL - NORTHBROOK EMC GROUP
26 Oct 2000 12:08:59
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Conducted Spurious RF Emission
MOTOROLA
SGNL5739A_777_40
G
120V, 60 Hz
HP 10W
891.33 - 895.29 MHz
Fo=893.31MHz
160
140
120
100
80
60
dB[uVolts]
889
901
Frequency [MHz]
IHET5AP1
SC300 @ 800 MHz
CDMA BTS

MOTOROLA

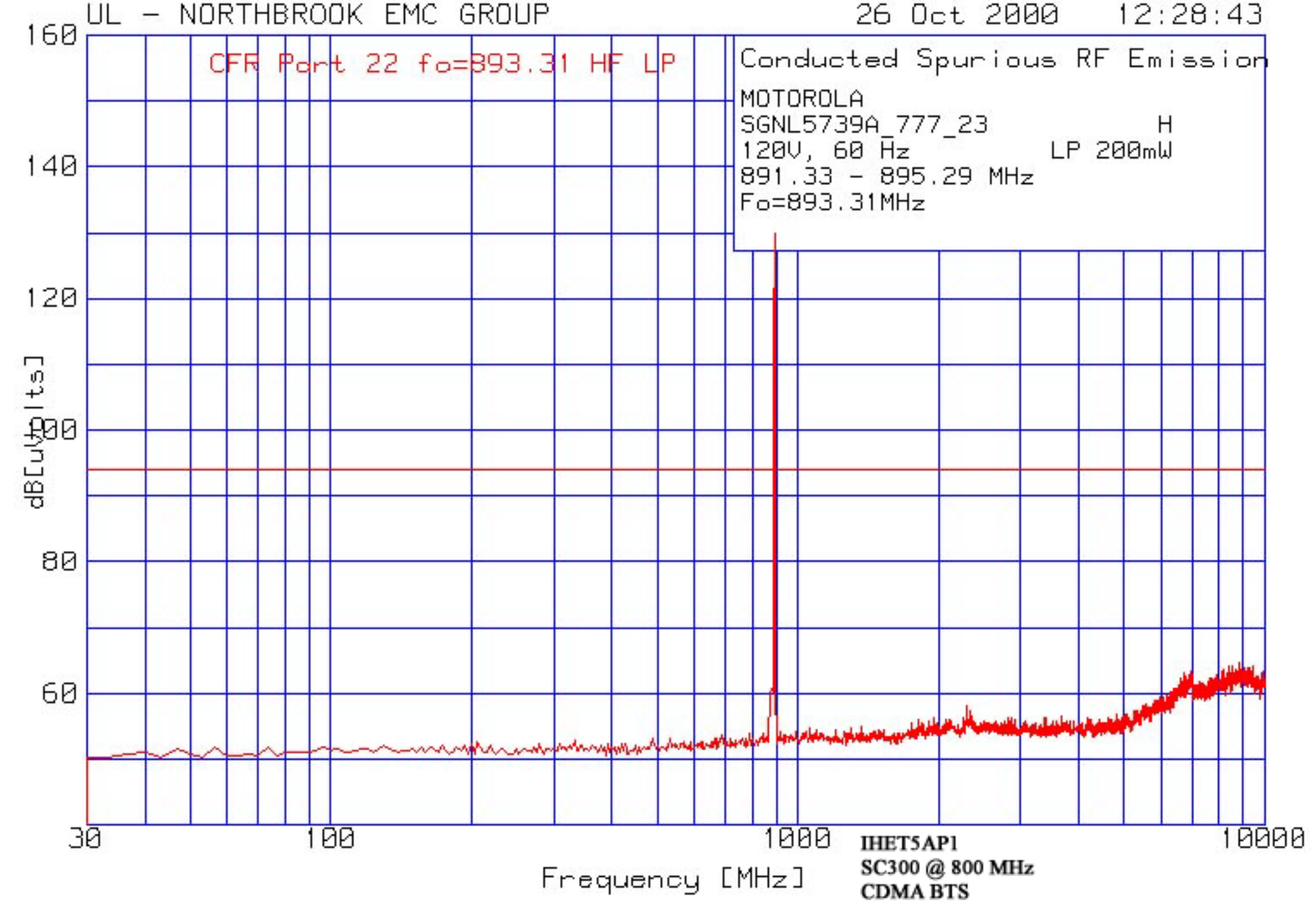
Network Systems Group
CDMA Systems Division

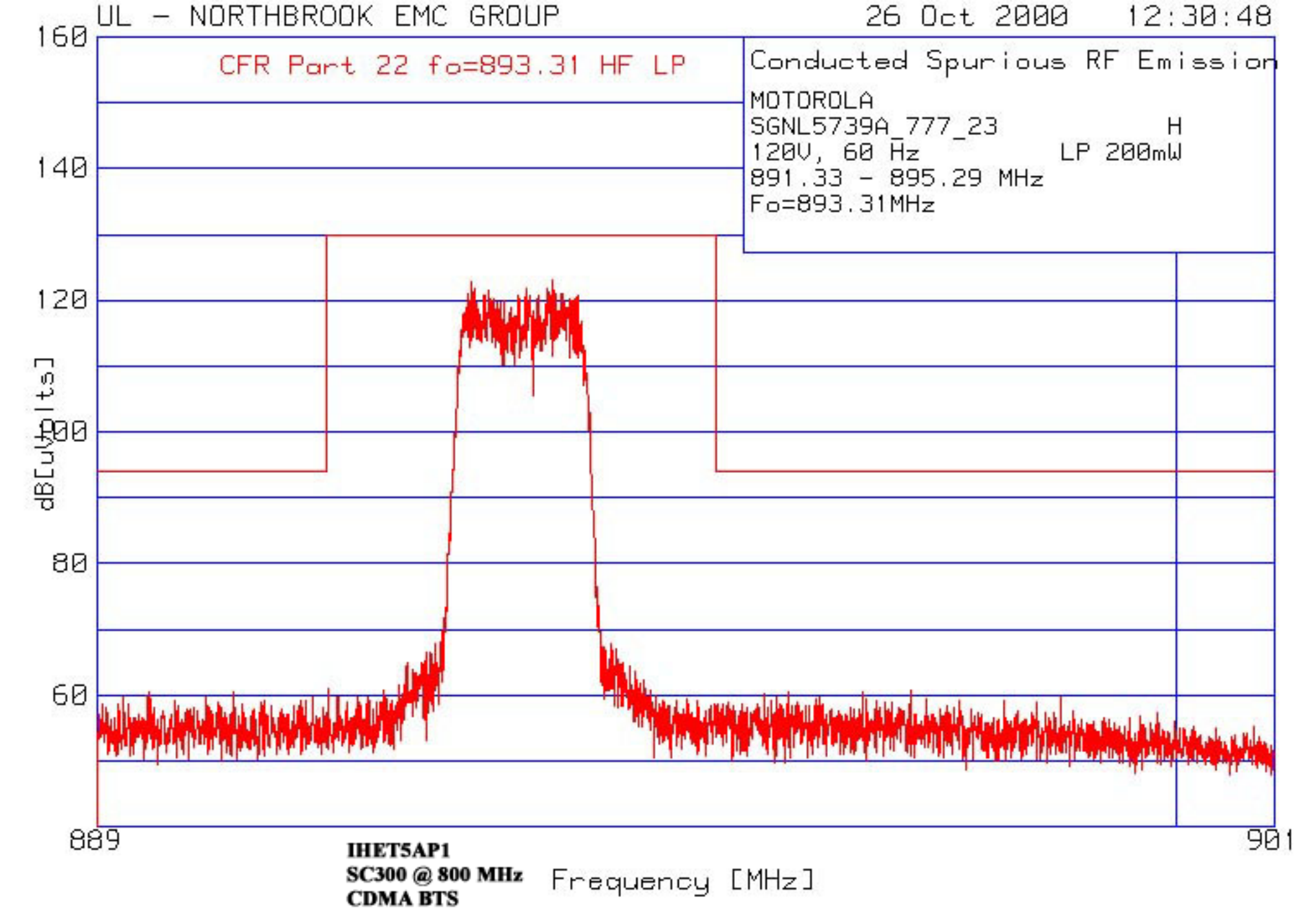
SECTION D **FCC ID: IHET5AP1**

SPURIOUS & HARMONIC EMISSIONS CONDUCTED

CDMA Transmitter Channel 777

Minimum Power


UL – NORTHBROOK EMC GROUP
26 Oct 2000 12:28:43
CFR Part 22 fo=893.31 HF LP
Conducted Spurious RF Emission
MOTOROLA
SGNL5739A_777_23 H
120V, 60 Hz LP 200mW
891.33 - 895.29 MHz
Fo=893.31MHz
160
140
120
100
80
60
dB[uVolts]
30
100
1000
10000
Frequency [MHz]
IHET5AP1
SC300 @ 800 MHz
CDMA BTS


UL – NORTHBROOK EMC GROUP
26 Oct 2000 12:30:48
CFR Part 22 fo=893.31 HF LP
Conducted Spurious RF Emission
MOTOROLA
SGNL5739A_777_23 H
120V, 60 Hz LP 200mW
891.33 - 895.29 MHz
Fo=893.31MHz
160
140
120
100
80
60
dB[uVolts]
889
901
IHET5AP1
SC300 @ 800 MHz
CDMA BTS
Frequency [MHz]

FCC ID: IHET5AP1

SECTION E

OCCUPIED BANDWIDTH

NOTE: The occupied bandwidth plots are measured in a 30 kHz resolution bandwidth. The following formula is used to obtain the correct zero dB reference point relative to the bandwidth of the 1.2288 MHz CDMA signal.

$$\text{Power(measured in 30 kHz bandwidth)} + 10\log\left(\frac{1.2288MHz}{30kHz}\right)$$

Example: 30.49 dBm + 16.12 dB≈ 46.61 dBm

The output power was set to 46.5 dBm using an HP438A power meter.

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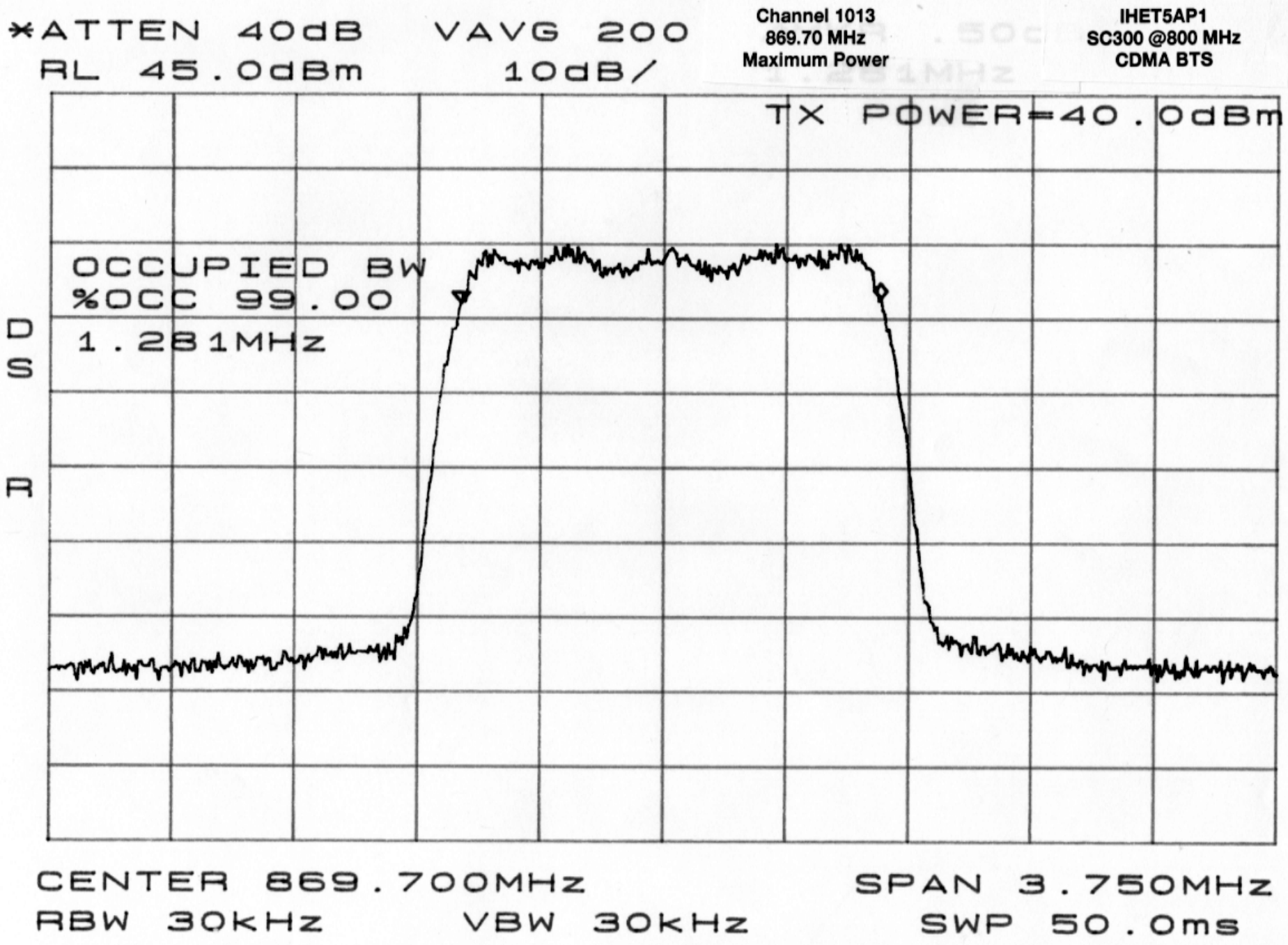
Cellular Infrastructure Group

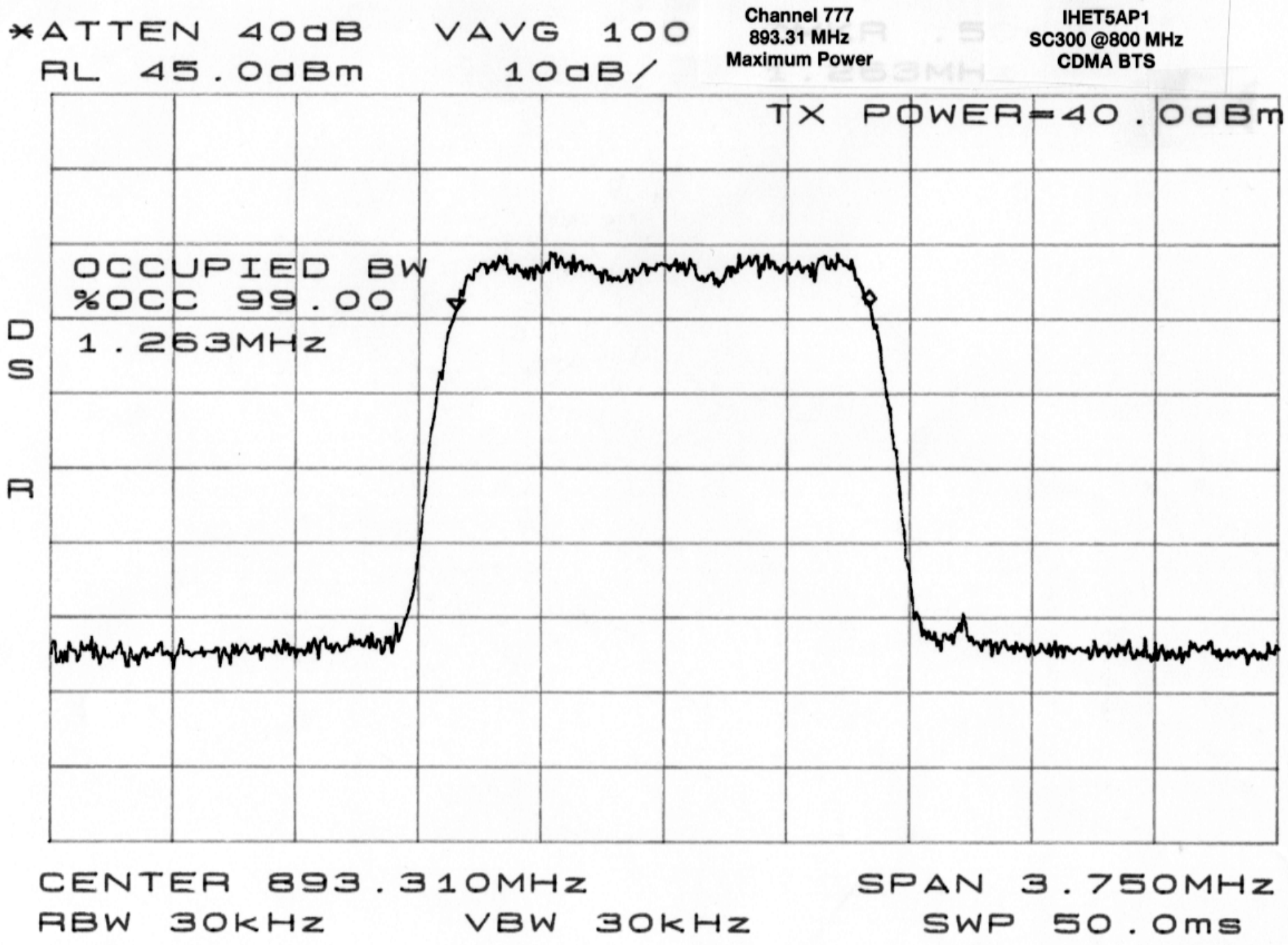
FCC ID: IHET5AP1

SECTION E

Occupied Bandwidth

Maximum Power


*ATTEN 40dB
VAVG 200
RL 45.0dBm
10dB/
Channel 1013
869.70 MHz
Maximum Power
IHET5AP1
SC300 @800 MHz
CDMA BTS
TX POWER=40.0dBm
OCCUPIED BW
%OCC 99.00
1.281MHz
D
S
R
CENTER 869.700MHz
SPAN 3.750MHz
RBW 30kHz
VBW 30kHz
SWP 50.0ms


*ATTEN 40dB VAVG 100
RL 45.0dBm 10dB/
Channel 777
893.31 MHz
Maximum Power
IHET5AP1
SC300 @800 MHz
CDMA BTS
TX POWER=40.0dBm
OCCUPIED BW
%OCC 99.00
1.263MHz
D
S
R
CENTER 893.310MHz
SPAN 3.750MHz
RBW 30kHz
VBW 30kHz
SWP 50.0ms

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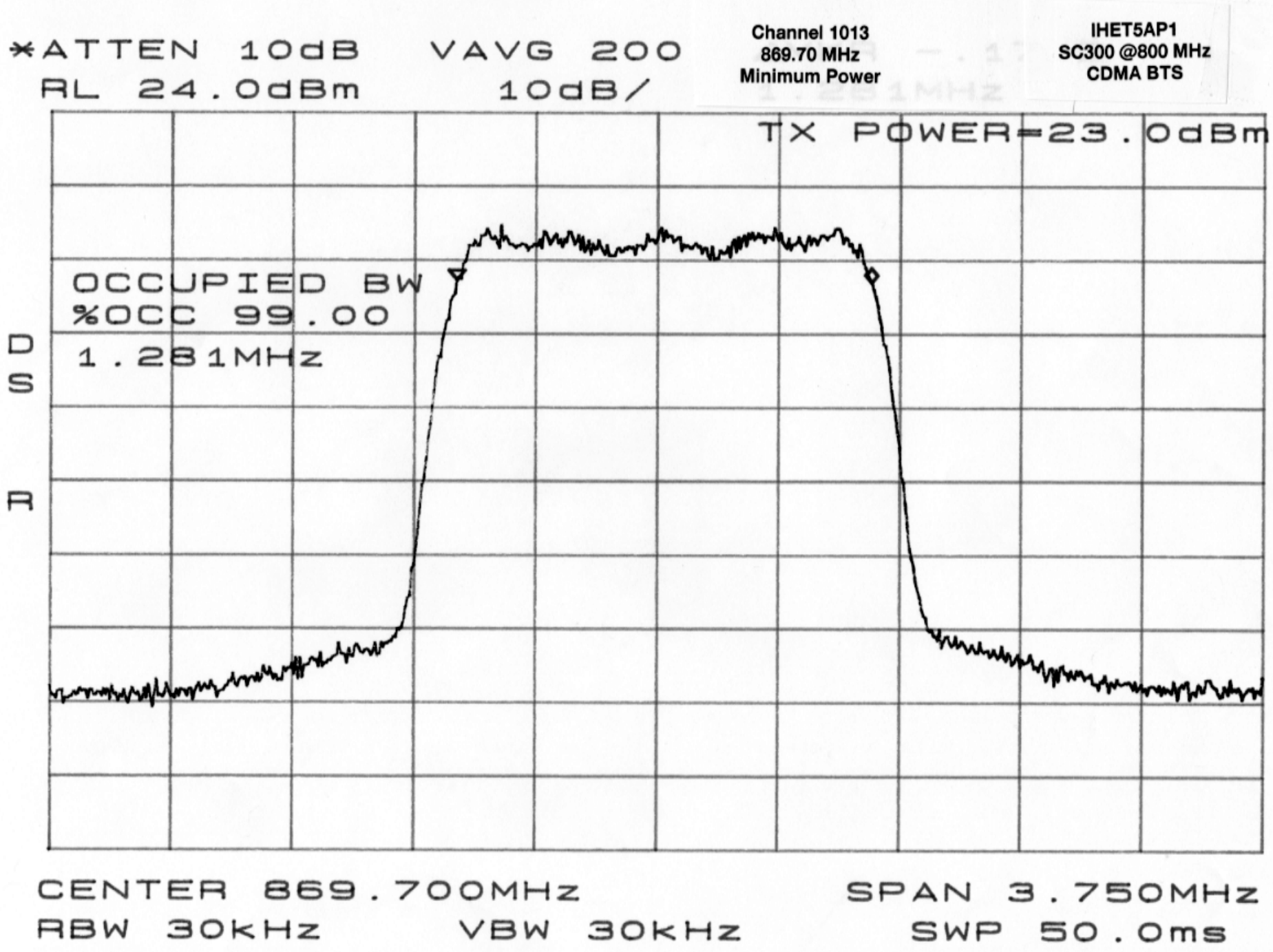
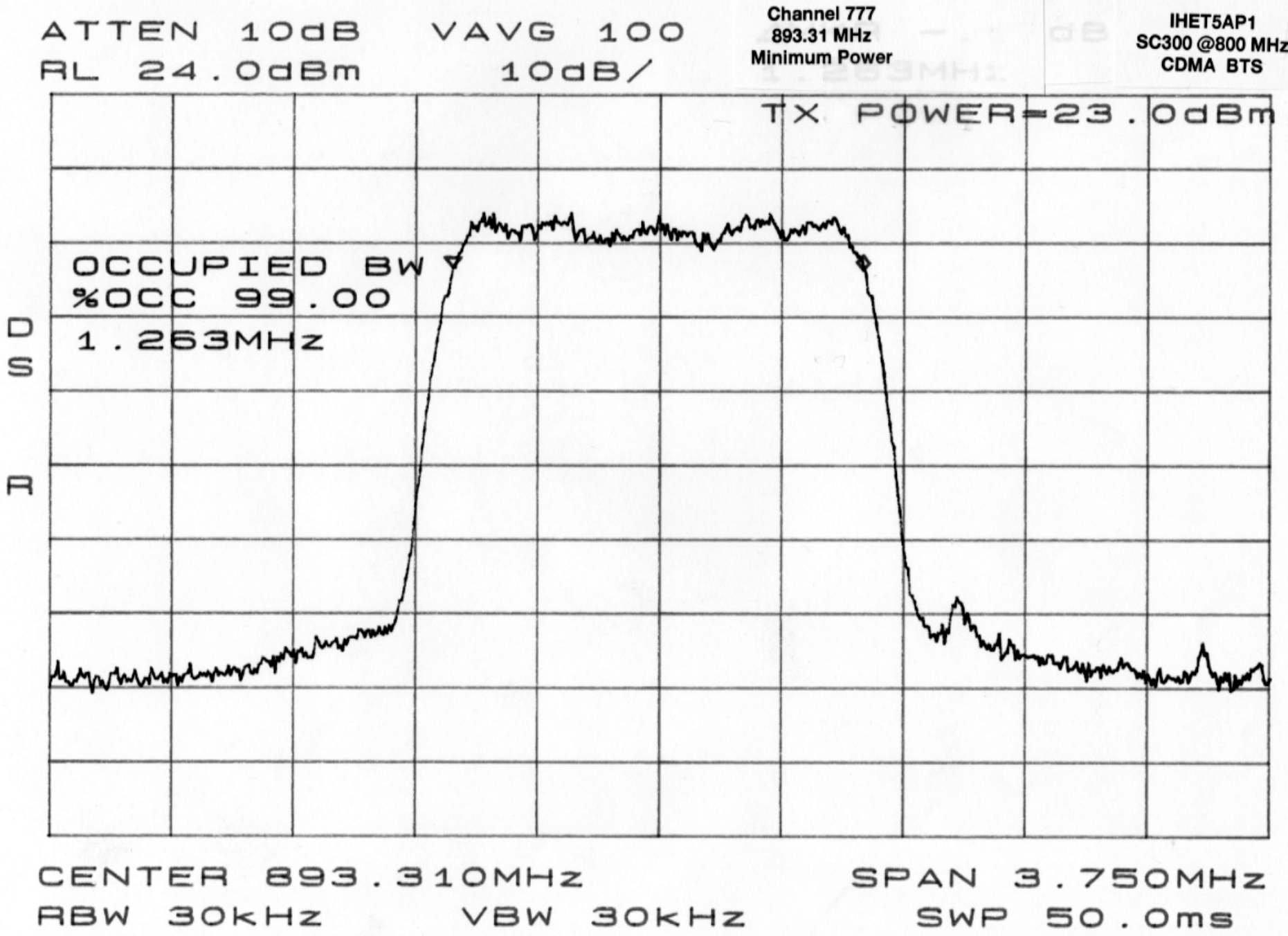
Cellular Infrastructure Group

FCC ID: IHET5AP1

Occupied Bandwidth

Minimum Power


*ATTEN 10dB VAVG 200
RL 24.0dBm 10dB/
Channel 1013
869.70 MHz
Minimum Power
IHET5AP1
SC300 @800 MHz
CDMA BTS
TX POWER=23.0dBm
OCCUPIED BW
%OCC 99.00
1.281MHz
D
S
R
CENTER 869.700MHz
SPAN 3.750MHz
RBW 30kHz
VBW 30kHz
SWP 50.0ms


ATTEN 10dB VAVG 100
RL 24.0dBm 10dB/
Channel 777
893.31 MHz
Minimum Power
IHET5AP1
SC300 @800 MHz
CDMA BTS
TX POWER=23.0dBm
OCCUPIED BW
%OCC 99.00
1.263MHz
D
S
R
CENTER 893.310MHz
SPAN 3.750MHz
RBW 30kHz
VBW 30kHz
SWP 50.0ms

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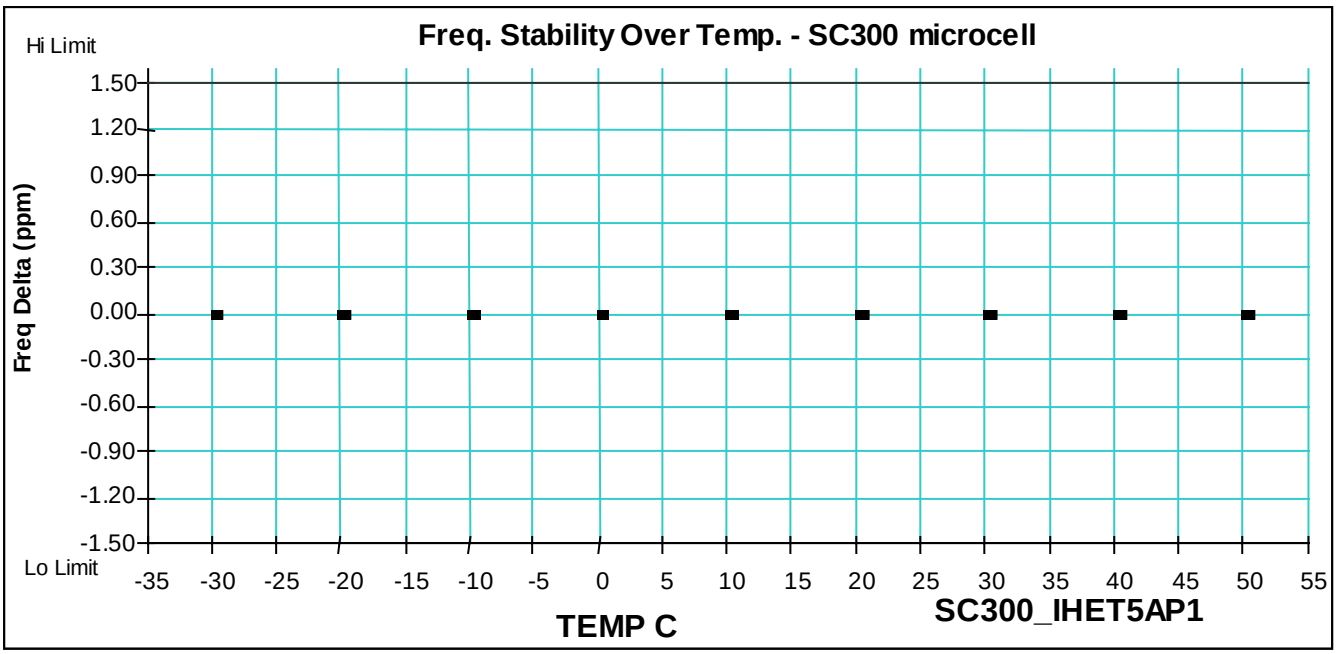
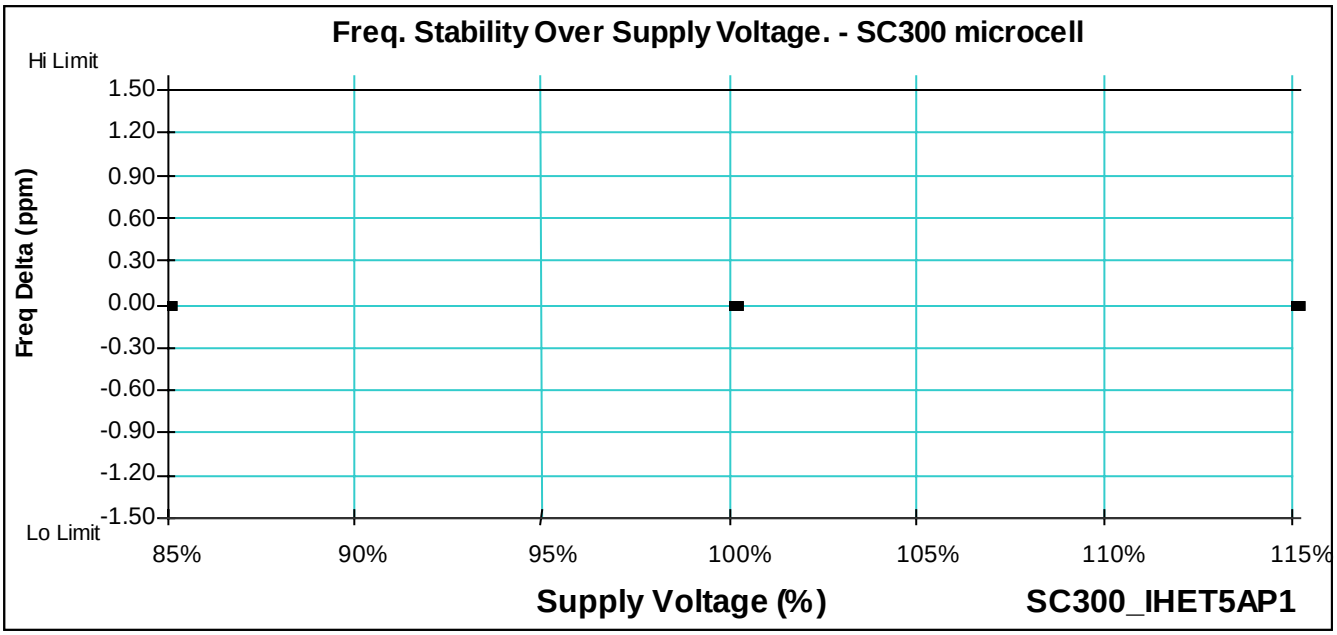
CDMA Systems Division

FCC ID: IHET5AP1

SECTION F

FREQUENCY STABILITY


Freq. Stability Over Temp. - SC300 microcell
Hi Limit
Lo Limit
Freq Delta (ppm)
1.50
1.20
0.90
0.60
0.30
0.00
-0.30
-0.60
-0.90
-1.20
-1.50
-35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55
TEMP C
SC300_IHET5AP1


Freq. Stability Over Supply Voltage. - SC300 microcell
Hi Limit
Lo Limit
Freq Delta (ppm)
1.50
1.20
0.90
0.60
0.30
0.00
-0.30
-0.60
-0.90
-1.20
-1.50
85% 90% 95% 100% 105% 110% 115%
Supply Voltage (%)
SC300_IHET5AP1