



MOTOROLA

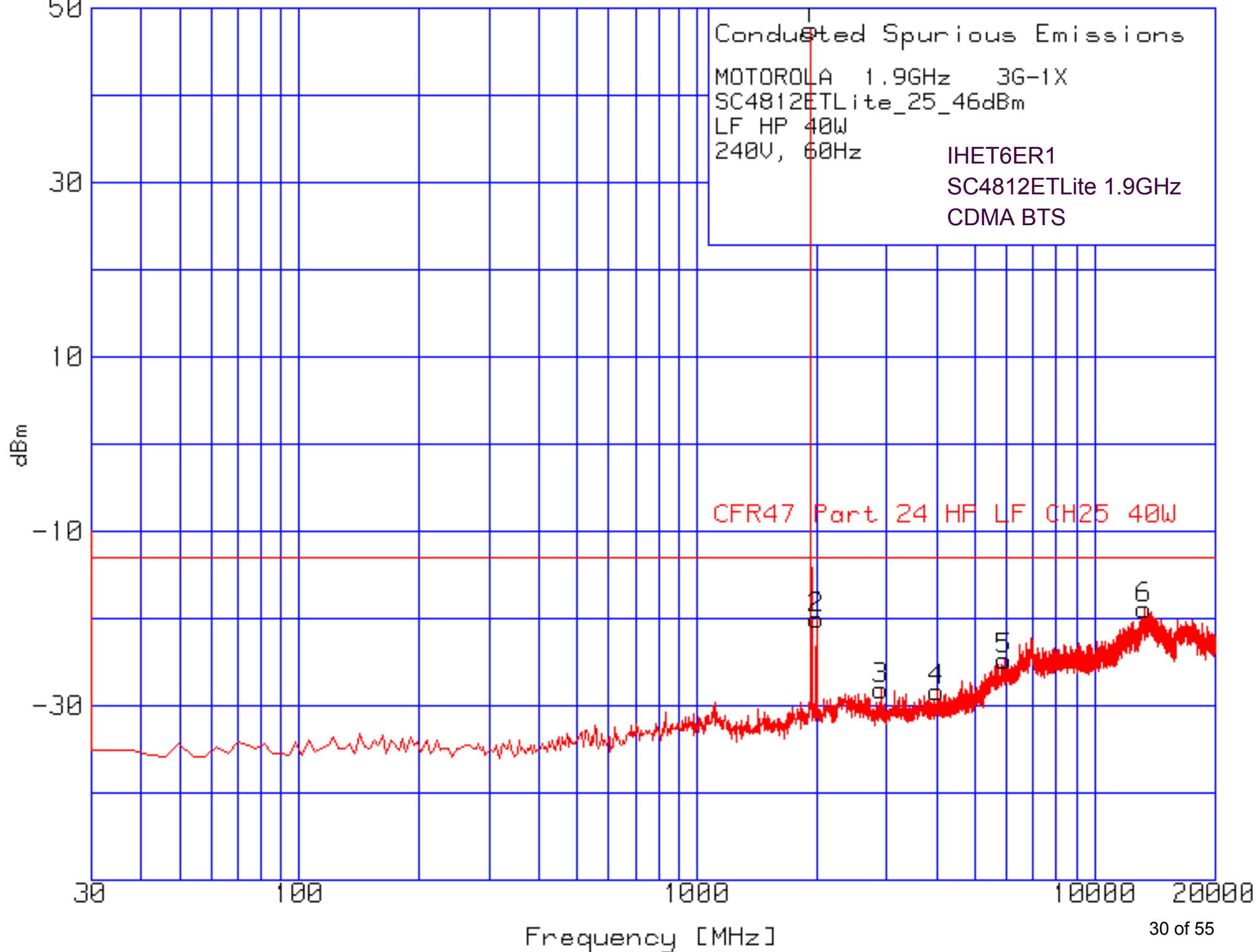
Cellular infrastructure group

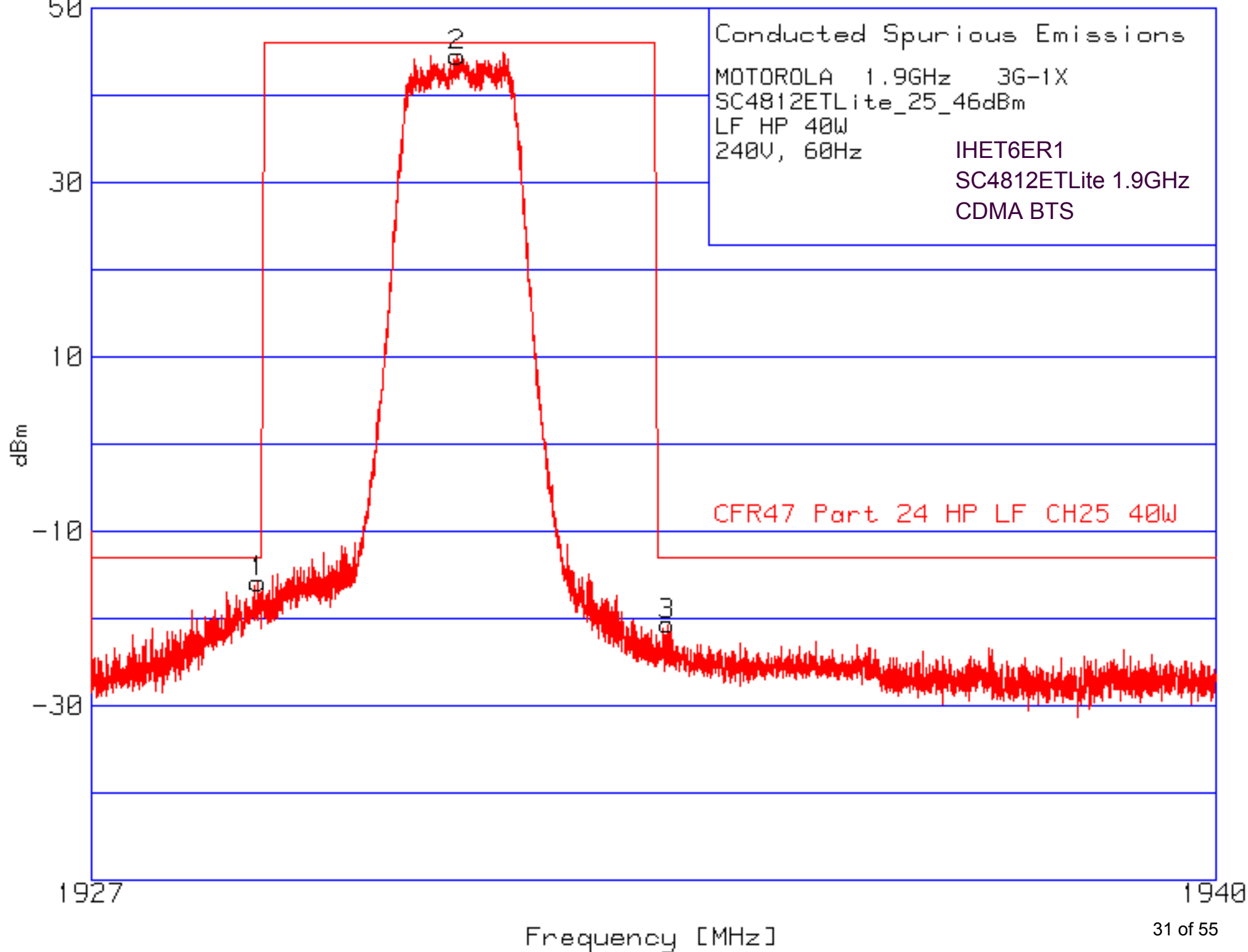
FCC ID: IHET6ER1

SPURIOUS & HARMONIC EMISSIONS CONDUCTED

CDMA Transmitter Channel 25

Maximum Power







MOTOROLA

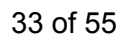
Cellular infrastructure group

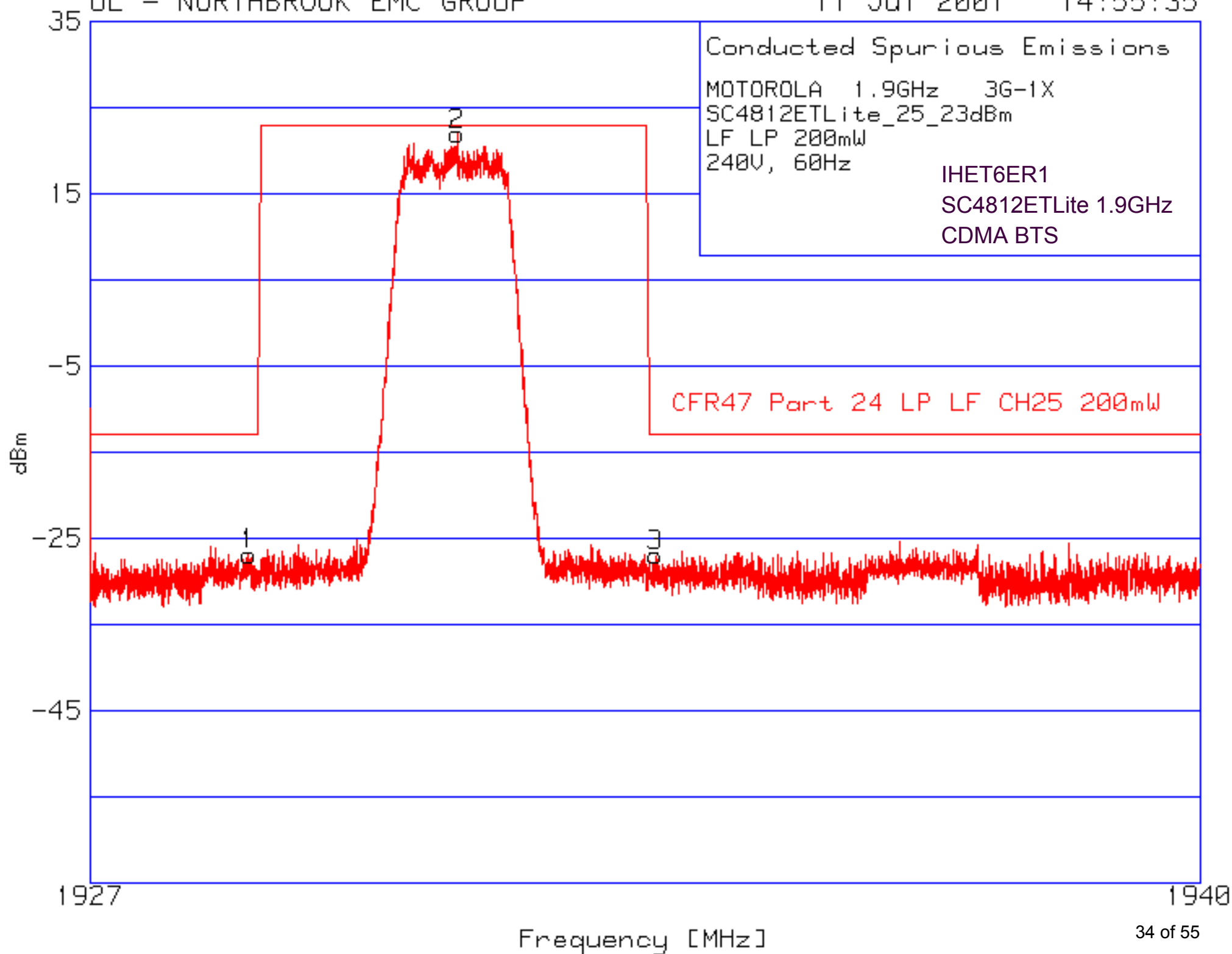
FCC ID: IHET6ER1

SPURIOUS & HARMONIC EMISSIONS CONDUCTED

CDMA Transmitter Channel 25

Minimum Power







MOTOROLA

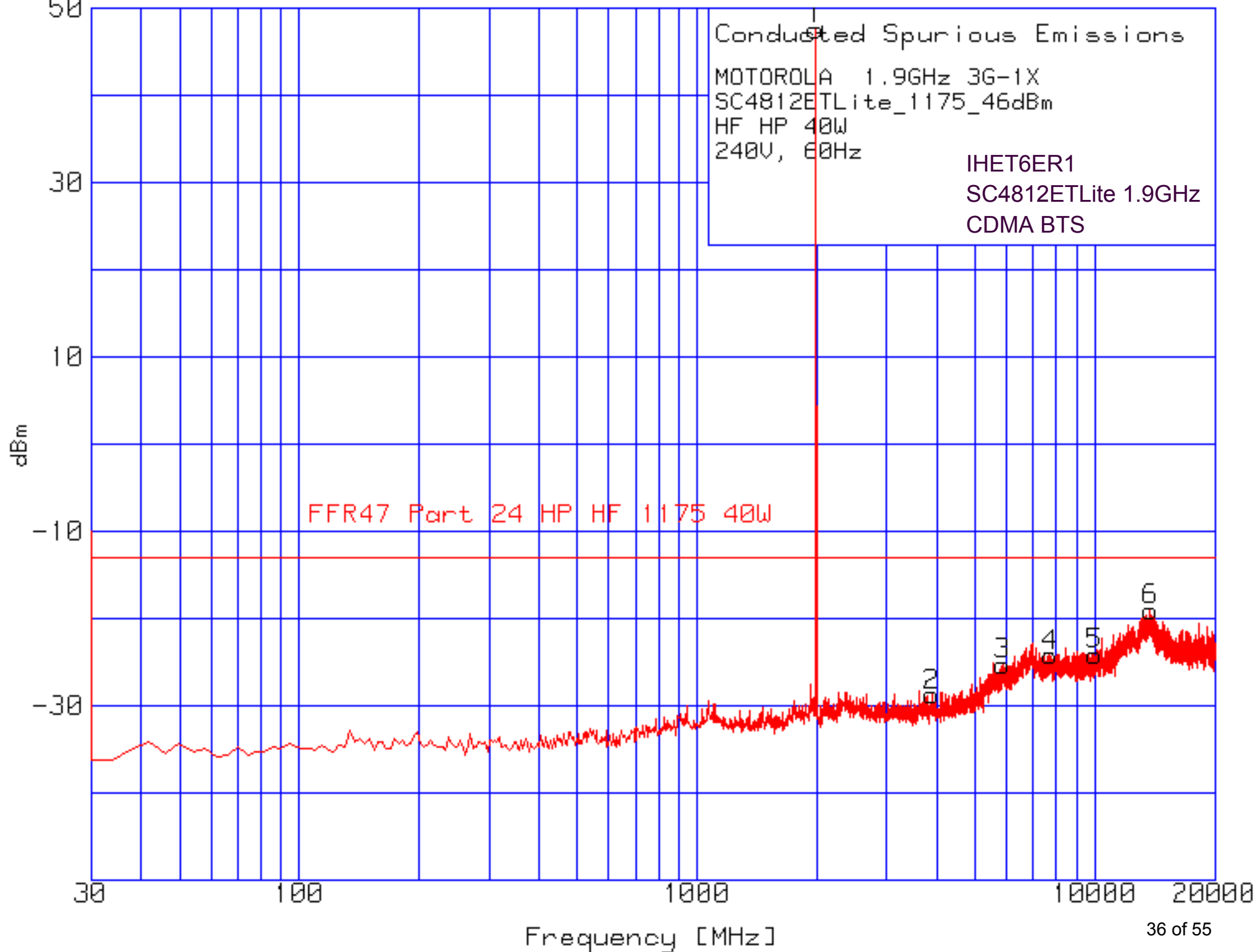
*Network Systems Group
CDMA Systems Division*

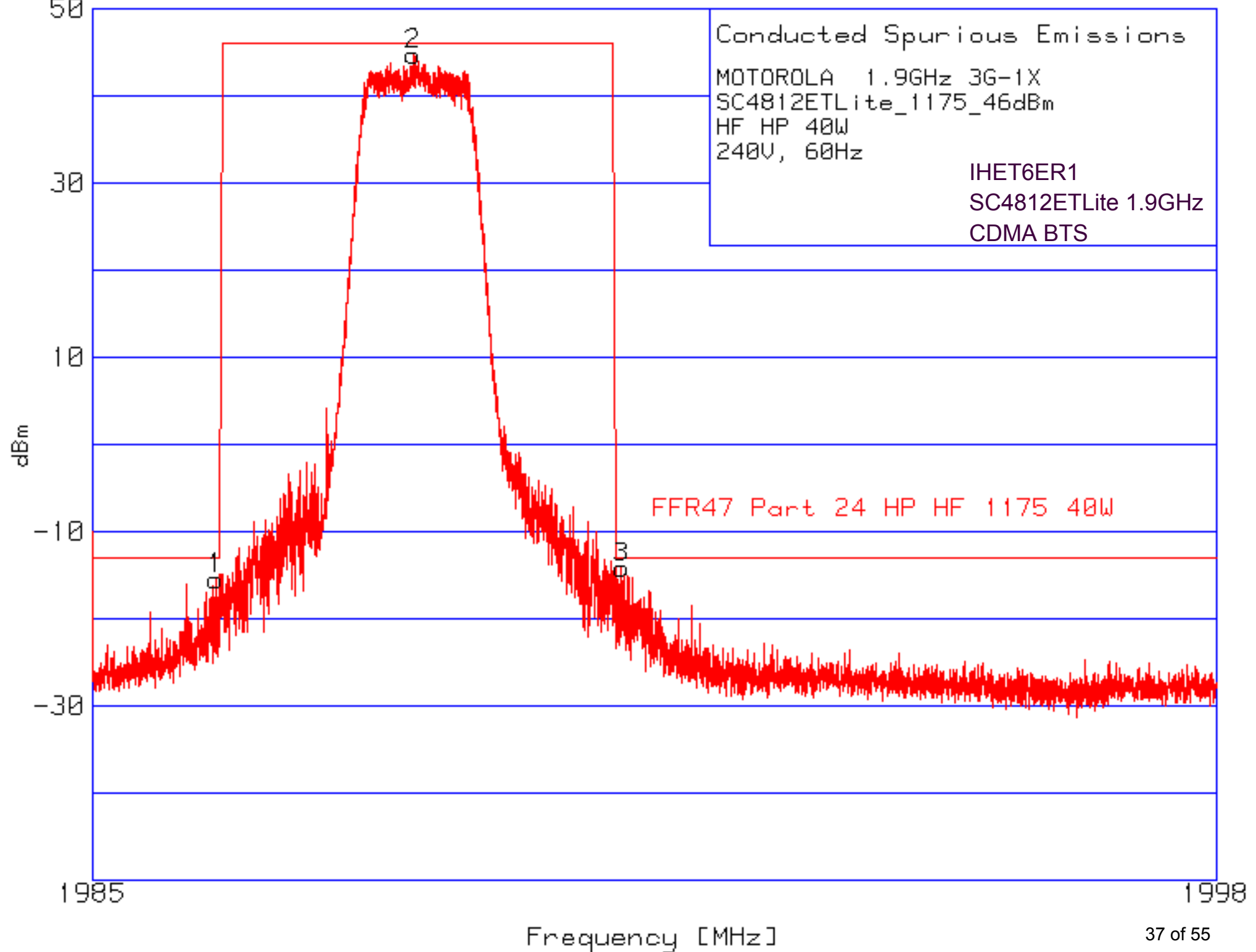
FCC ID: IHET6ER1

SPURIOUS & HARMONIC EMISSIONS CONDUCTED

CDMA Transmitter Channel 1175

Maximum Power







MOTOROLA

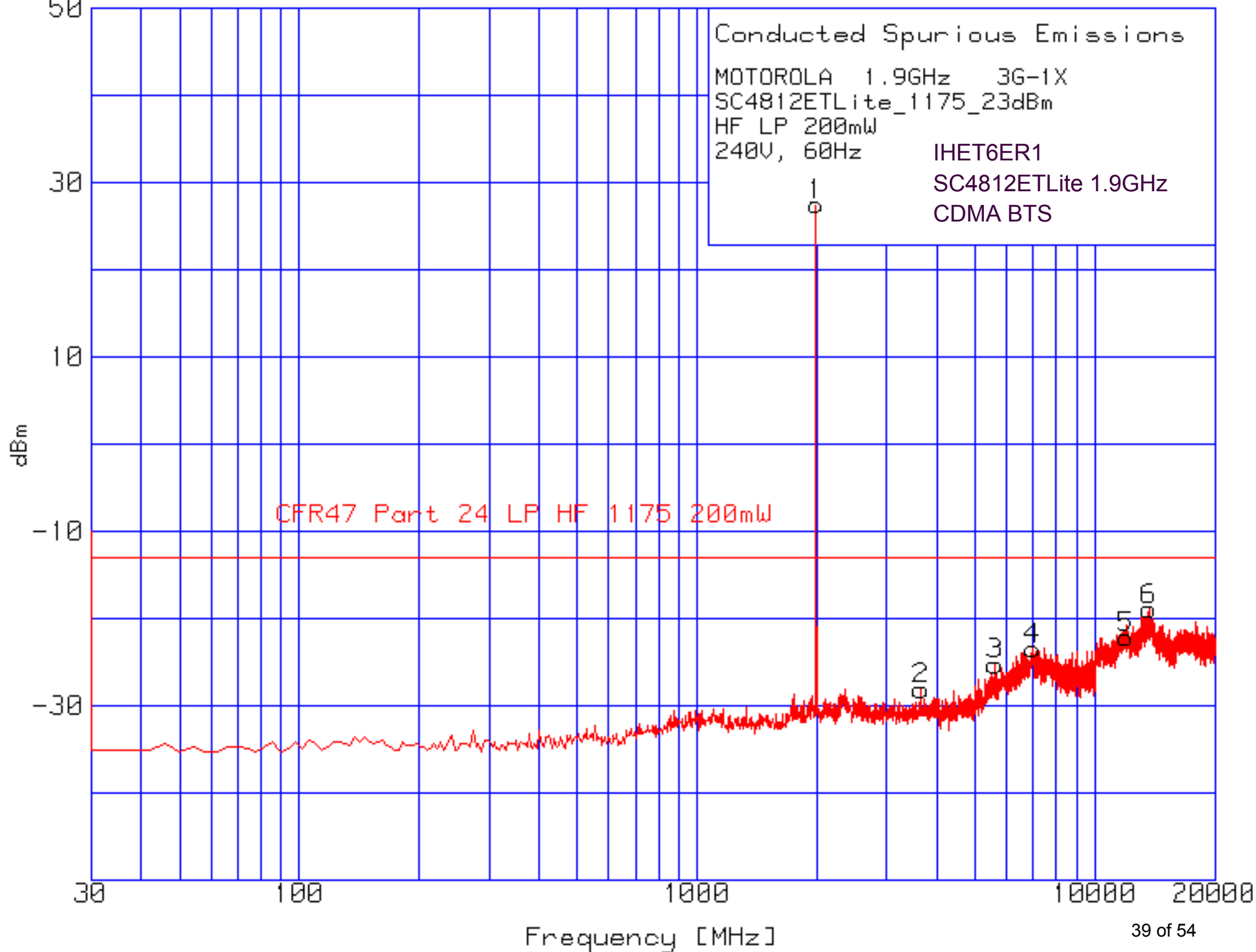
Cellular infrastructure group

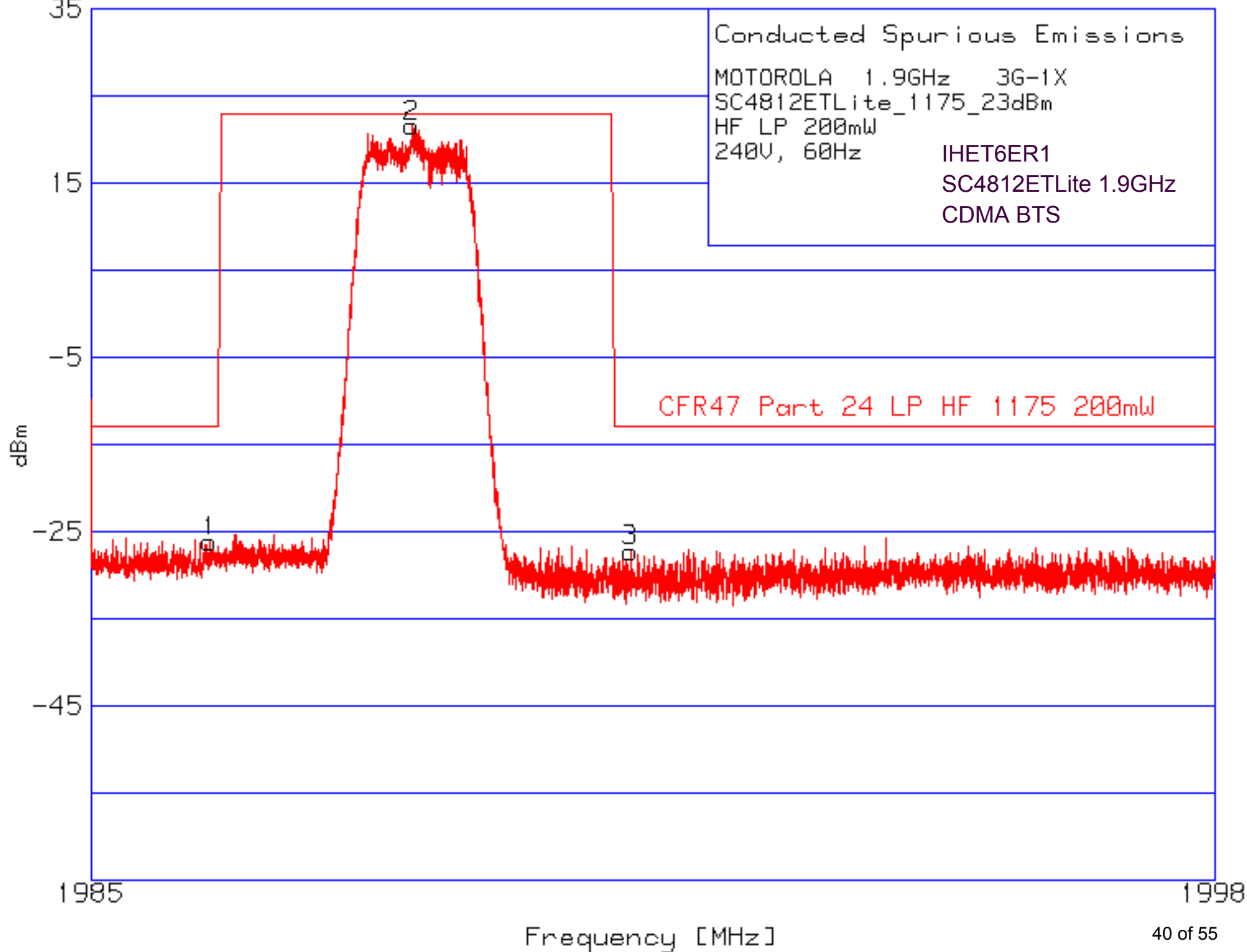
FCC ID: IHET6ER1

SPURIOUS & HARMONIC EMISSIONS CONDUCTED

CDMA Transmitter Channel 1175

Minimum Power







SECTION E

OCCUPIED BANDWIDTH

NOTE: The BTS was configured for maximum power out of 46.00dBm and minimum power out of 36.5dBm depending on the configuration. The output power was set respectively to 40.0 Watts or 4.5 Watts using an HP437B power meter. The external attenuation was 46.0dB for channel 25 and channel 1175.

The occupied bandwidth is measured in a 30 kHz resolution bandwidth. The summary is listed below.

SC4812ETLite EVDO @ 1.9 GHz SUMMARY OF OCCUPIED BANDWIDTH

CHANNEL	Power Level (dBm)	FREQUENCY (MHz)	MEASURED (MHz)	FCC LIMIT (MHz)	Pass / Fail
25	46.0	1931.25	1.2749	1.30	Pass
1175	36.5	1988.75	1.2793	1.30	Pass

12.01.04

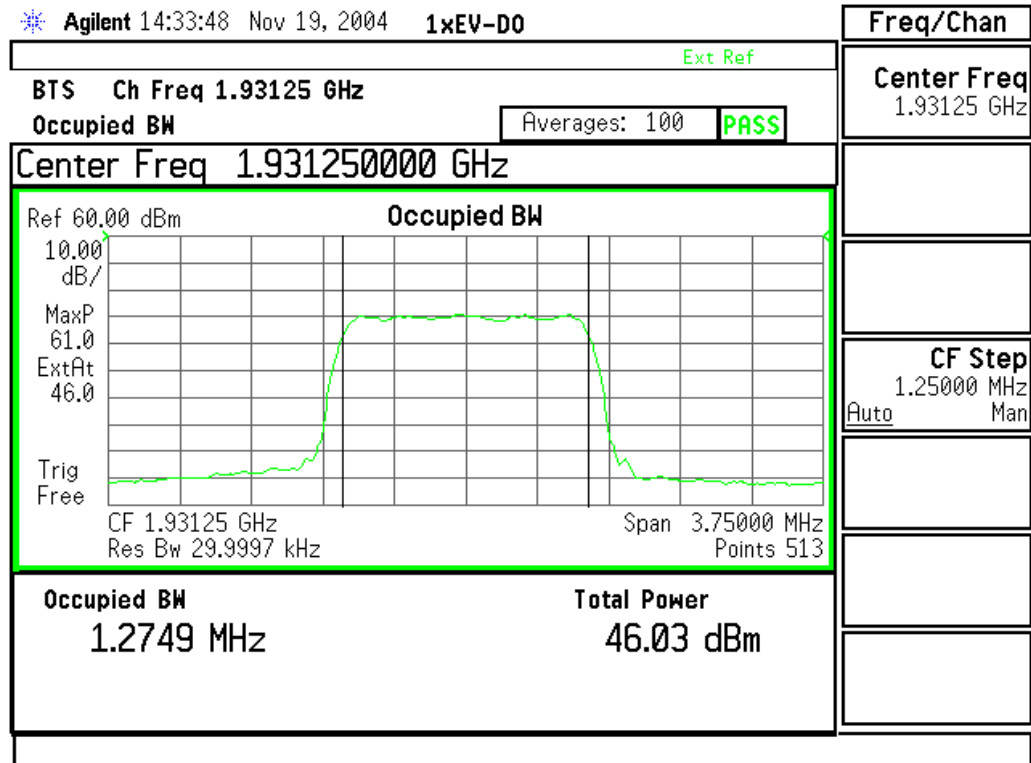
Signature

Date

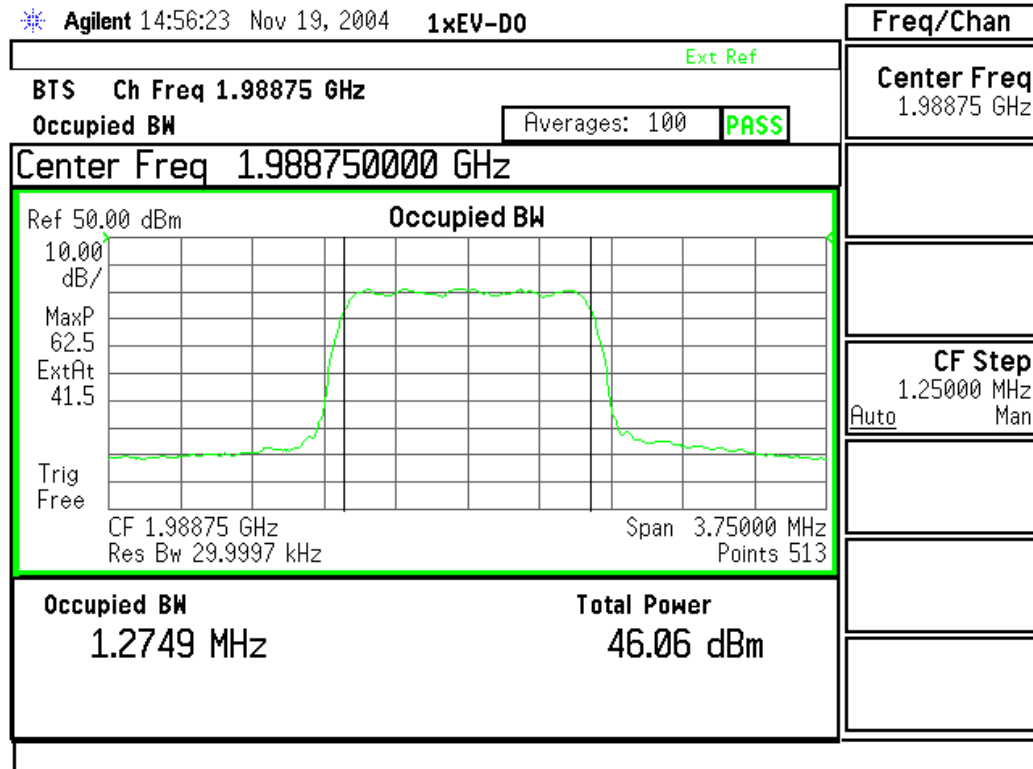
Francisco Avalos



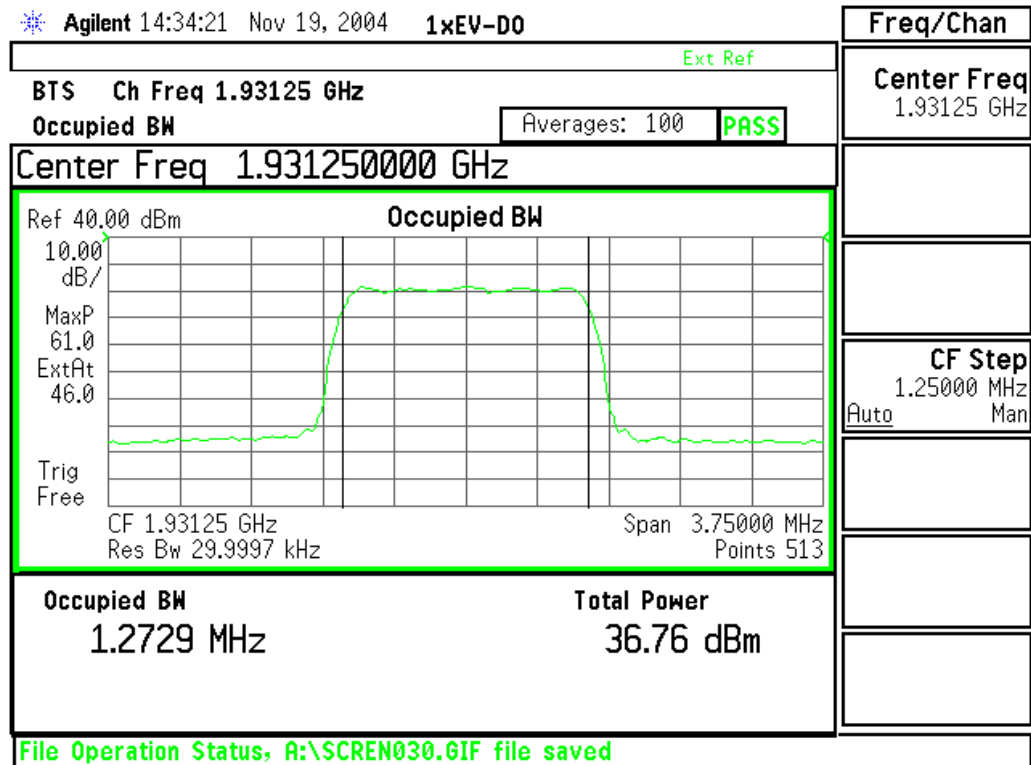
SC4812ETLite EVDO– Occupied Bandwidth – 46.00dBm- 8PSK



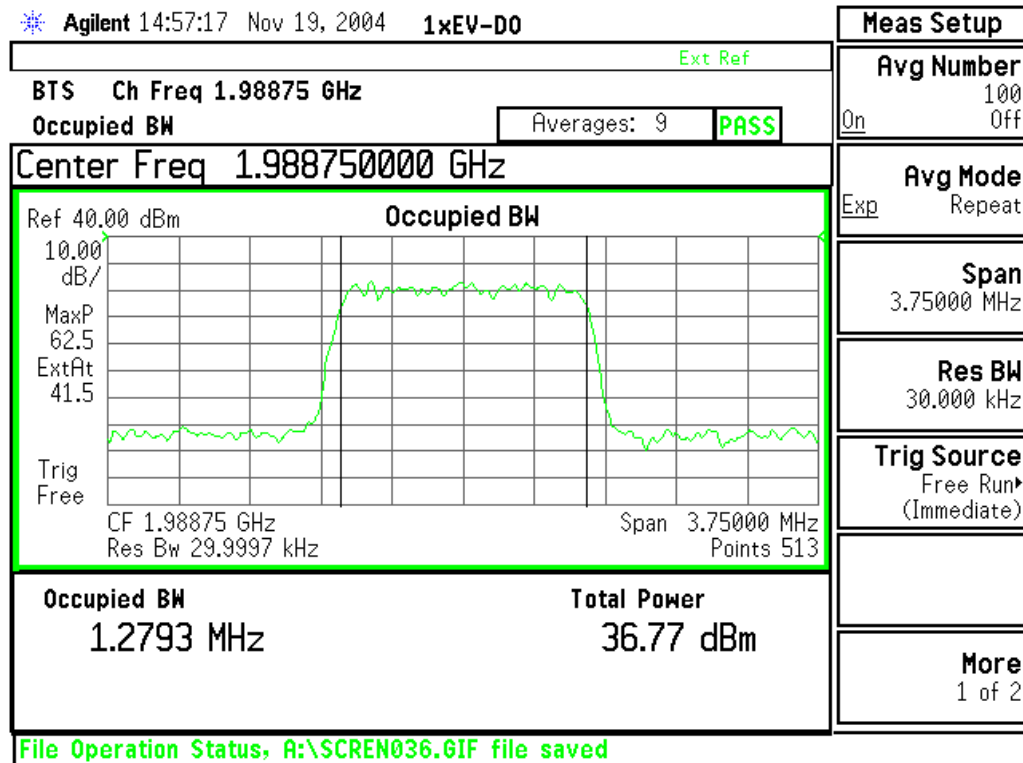
Channel 25 – 1931.25 MHz

**SC4812ETLite EVDO– Occupied Bandwidth – 46.00dBm – 16QAM**

Channel 1175 – 1988.75 MHz

**SC4812ETLite EVDO– Occupied Bandwidth – 36.5 dBm – 8PSK**

Channel 25 – 1931.25 MHz

**SC4812ETLite EVDO– Occupied Bandwidth – 36.5 dBm – 16QAM**

Channel 1175 – 1988.75 MHz



MOTOROLA

APPLICANT: MOTOROLA

Global Telecom Solutions Sector

FCC ID: IHET6ER1

OCCUPIED BANDWIDTH

SC4812ETL

NOTE: Per FCC acceptance precedent, plots are measured in a 30 kHz resolution bandwidth. The following formula is used to obtain the correct zero dB reference point to the bandwidth of the 1.2288MHz CDMA signal. See example calculation below:

Power (measured in 30kHz bandwidth) + 10 log (1.2288 MHz / 30 kHz)

Example: 29.88dBm + 16.12dB = 46.0dBm

The BTS was configured for maximum power out of 46.0 dBm and minimum power out of 23.0 dBm respectively. The max and min output power was set to 40.0 Watts or 200 mWatts respectively using an HP437B power meter. Markers are measured at +/- 1.25 MHz with respect to the method stated above. The summary of these is listed below.

CHANNEL/POWER	FREQUENCY (GHz)	MEASURED (dBm)	FCC EMISSION LIMIT	PASS/FAIL
25/MAX	1.93125	-29.28	-9.2dBm	Pass
1175/MAX	1.98875	-21.87	-9.2dBm	Pass
25/MIN	1.93125	-51.45	-9.2dBm	Pass
1175/MIN	1.98875	-52.28	-9.2dBm	Pass

Engineer: Francisco Avalos

Signature: Francisco Avalos

Date: 8/22/01



MOTOROLA

Cellular Infrastructure Group

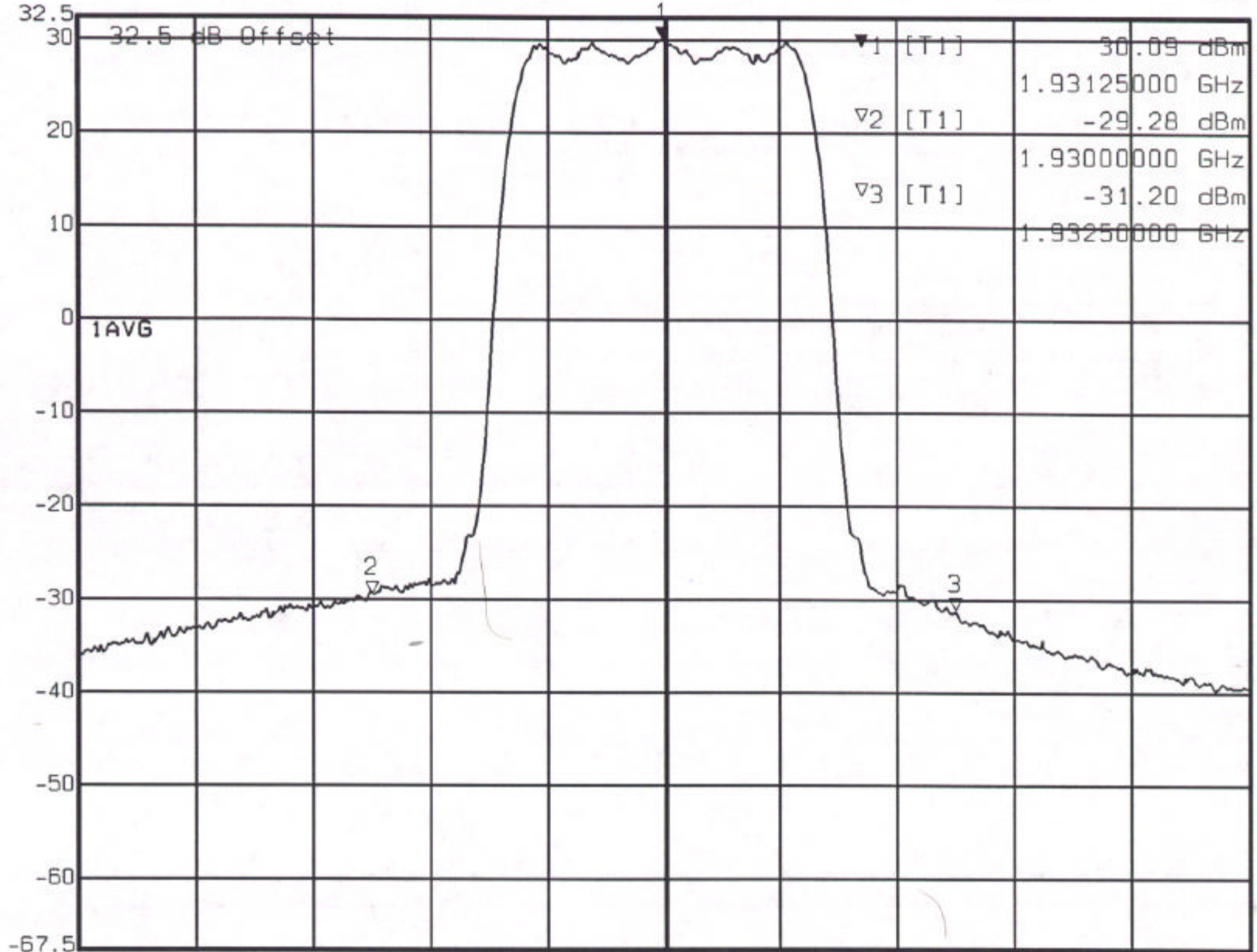
FCC ID: IHET6ER1

Occupied Bandwidth

Maximum Power



Marker 1 [T1] RBW 30 kHz RF Att 30 dB
Ref Lvl 30.09 dBm VBW 100 kHz
32.5 dBm 1.93125000 GHz SWT 20 ms Unit dBm



Center 1.93125 GHz

500 kHz

Span 5 MHz

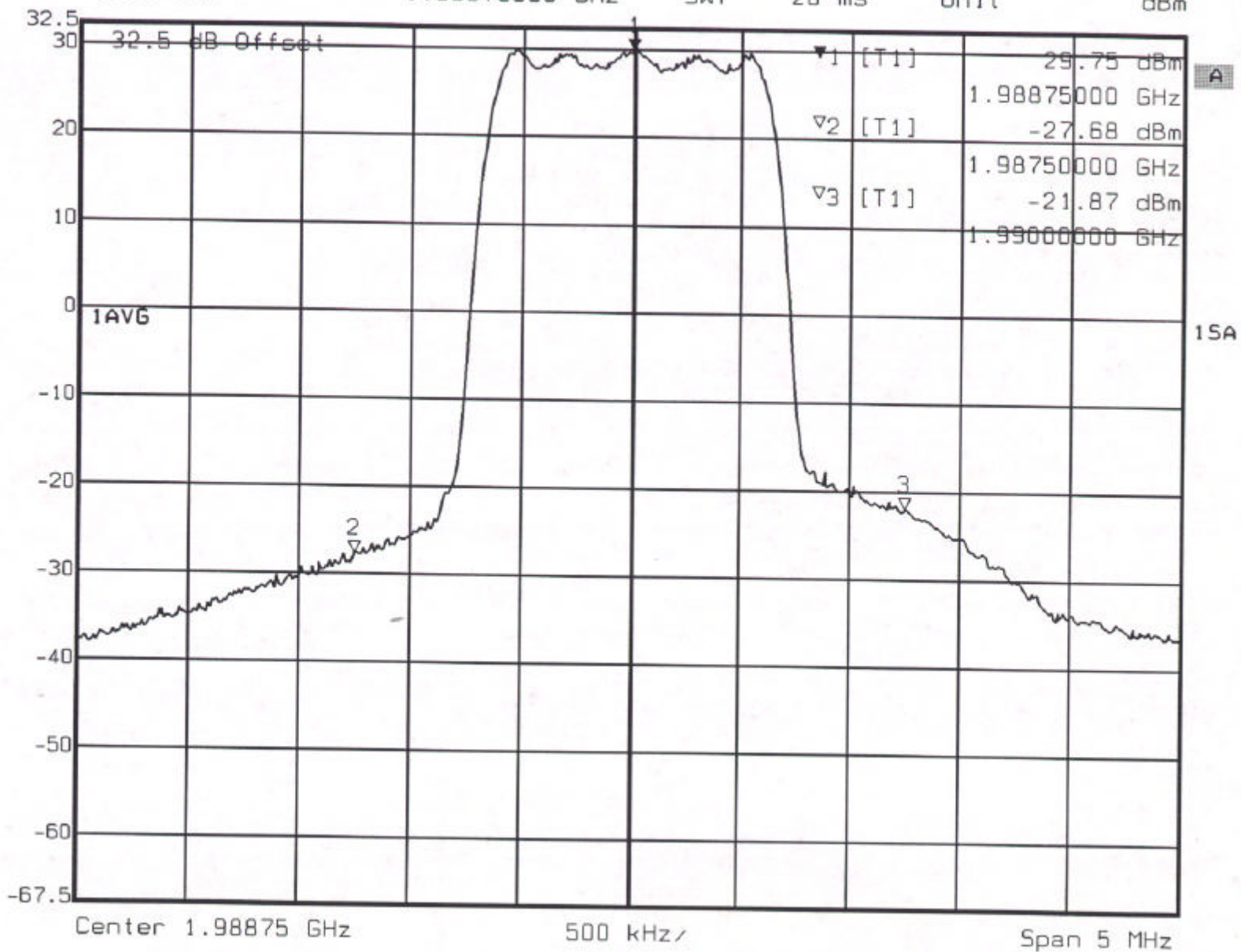
Date: 18.JUL.2001 9:46:58

Channel 25
Maximum Power

IHET6ER1
SC4812ETLite 1.9GHz
CDMA BTS 48 of 55



Ref Lvl 32.5 dBm
Marker 1 [T1] 29.75 dBm
1.98875000 GHz
RBW 30 kHz
VBW 100 kHz
SWT 20 ms
RF Att 30 dB
Unit dBm



Date: 18.JUL.2001 10:06:03

Channel 1175 IHET6ER1
Maximum Power SC4812ETLite 1.9GHz
CDMA BTS



MOTOROLA

Cellular Infrastructure Group

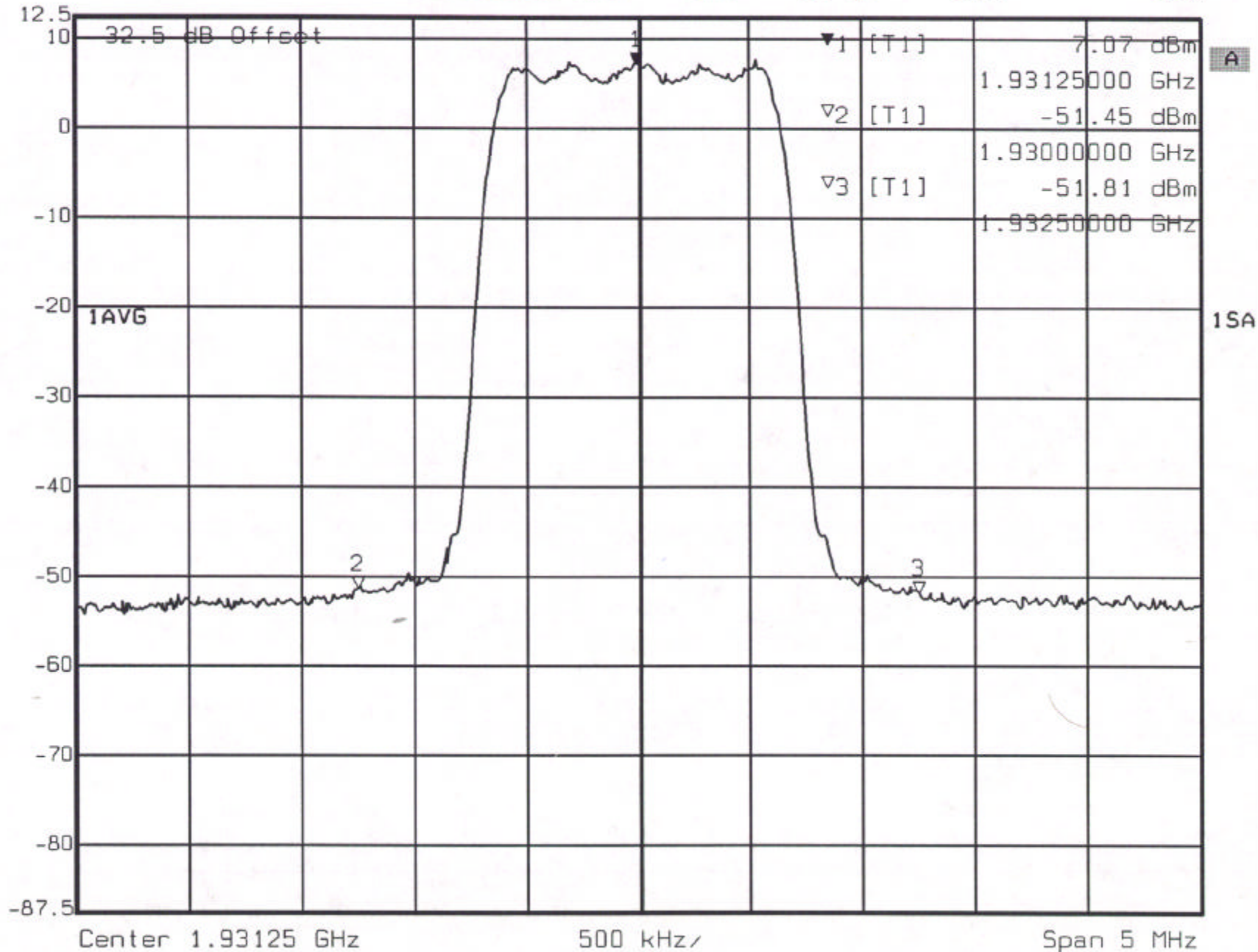
FCC ID: IHET6ER1

Occupied Bandwidth

Minimum Power



Marker 1 [T1] RBW 30 kHz RF Att 20 dB
Ref Lvl 7.07 dBm VBW 100 kHz
12.5 dBm 1.93125000 GHz SWT 20 ms Unit dBm



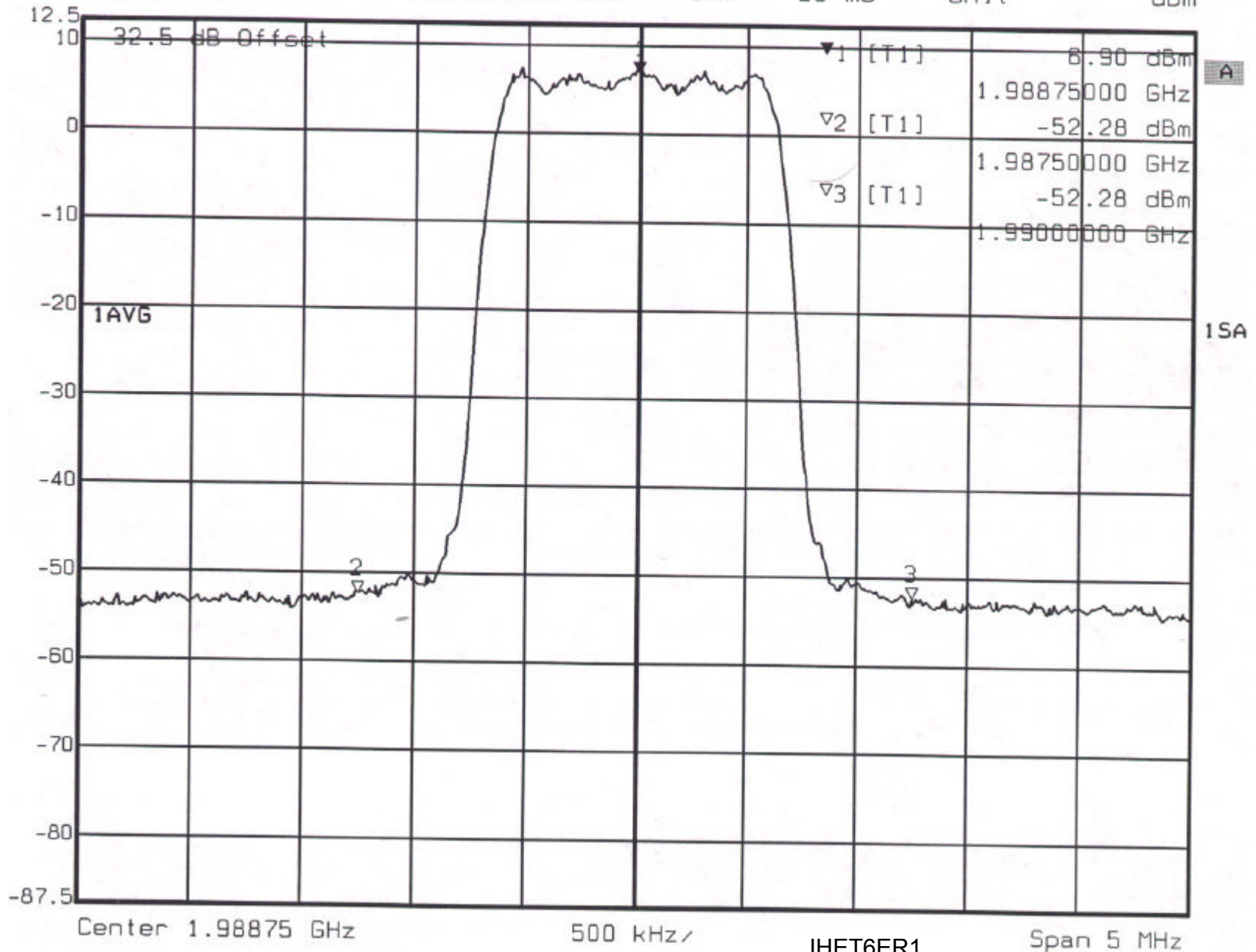
Date: 18.JUL.2001 9:52:46

Channel 25
Minimum Power

IHET6ER1
SC4812ETLite 1.9GHz
CDMA BTS



Marker 1 [T1] RBW 30 kHz RF Att 20 dB
Ref Lvl 6.90 dBm VBW 100 kHz
12.5 dBm 1.98875000 GHz SWT 20 ms Unit dBm



Date: 1A III 2001 10.08.10

Channel 1175
Minimum Power

IHET6ER1
SC4812ETLite 1.9GHz
CDMA BTS



SECTION F

FREQUENCY STABILITY

MODE	27V POWER	WORST CASE Δ PPM	FCC REQUIREMENT	Pass / Fail
CSM1	85-115%	<0.02	+/- 1.5 PPM MAX	Pass
CSM2	85-115%	<0.02	+/- 1.5 PPM MAX	Pass

MODE	TEMPERATURE	WORST CASE Δ PPM	FCC REQUIREMENT	Pass / Fail
CSM1	-30° to +50° C	<0.2	+/- 1.5 PPM MAX	Pass
CSM2	-30° to +50° C	<0.2	+/- 1.5 PPM MAX	Pass

04.12.04

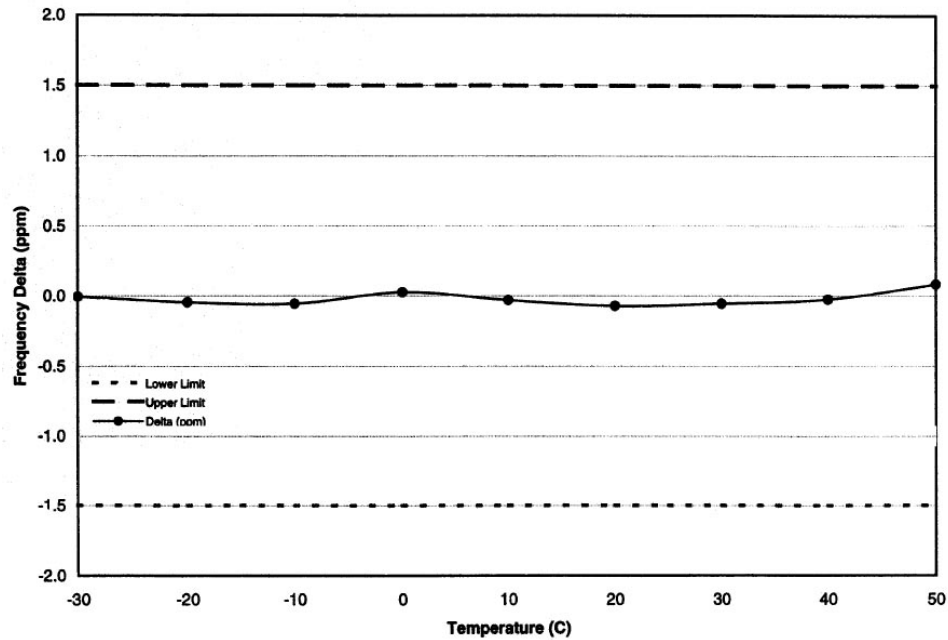
Signature

Date

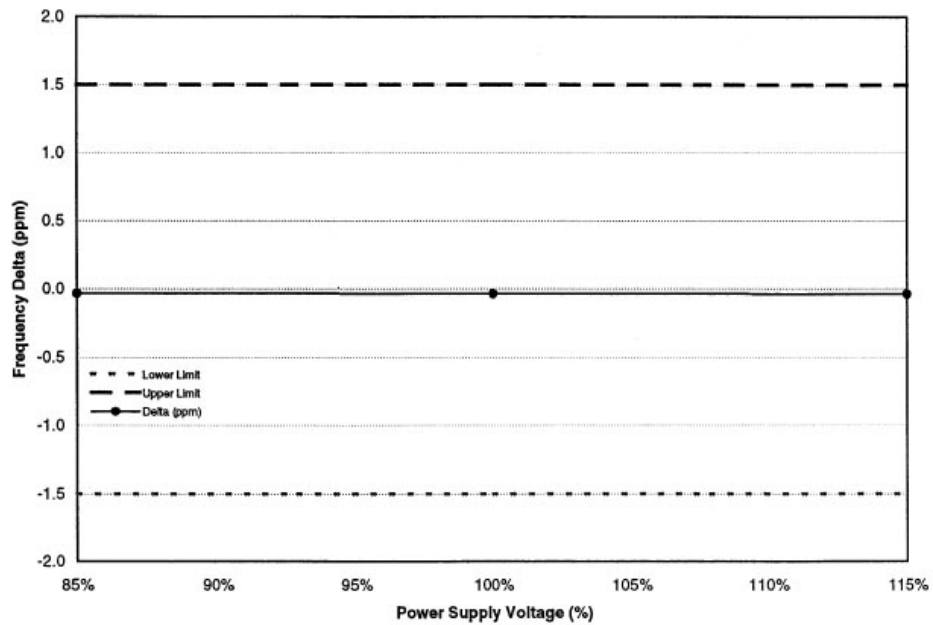
Terry Schwenk



Frequency Stability Over Temperature - CSM1

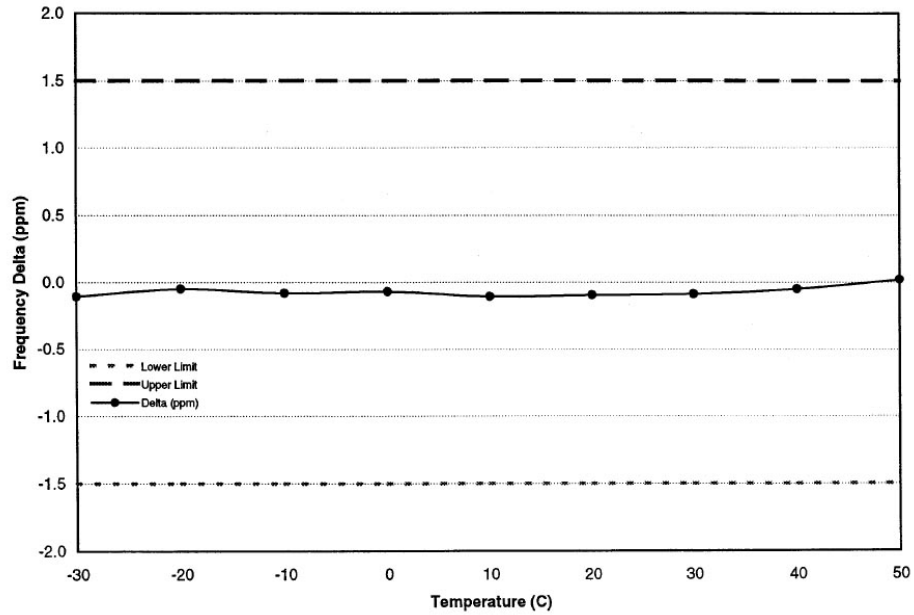


Frequency Stability with Varying Supply Voltage - CSM1





Frequency Stability Over Temperature - CSM2



Frequency Stability with Varying Supply Voltage - CSM2

