



MOTOROLA

Cellular Infrastructure Group

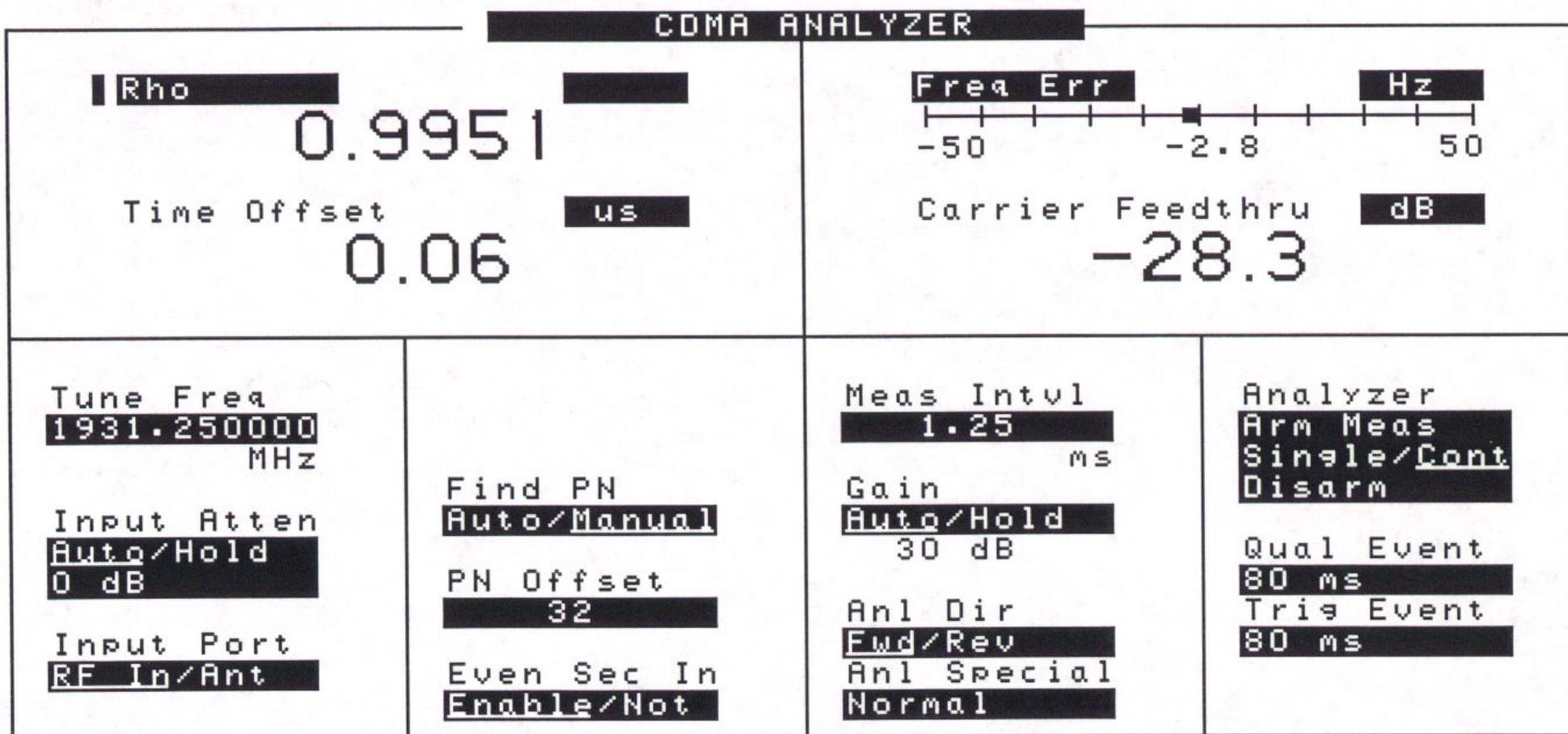
FCC ID: IHET6BS1

Modulation Characteristics

Minimum Power

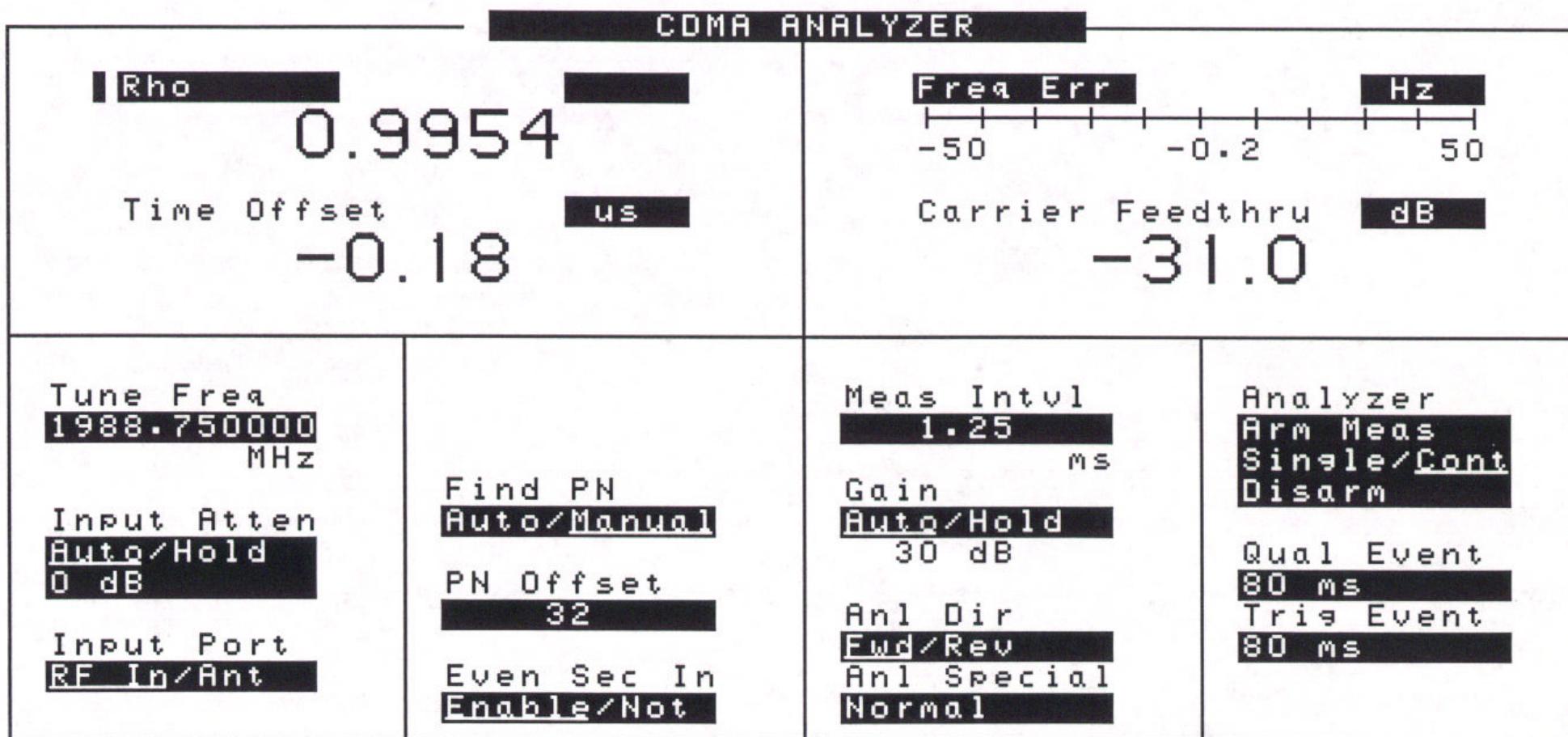
SC4812ETLite 1.9GHz 3G-1X 23dBm
E6380A Cell Site Test Set: 07/18/01 09:46:00 am

L



SC4812ETLite 1.9GHz 3G-1X 23dBm
E6380A Cell Site Test Set: 07/18/01 10:07:00 am

L





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SECTION C

Spurious & Harmonic Emissions Radiated

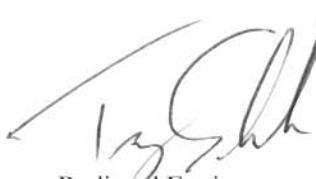
Radiated RF Measurements

Worst Case Radiated RF Spur Levels for SC4812ETL @ 1.9GHz

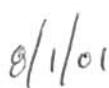
TX Channel	Radiated Data		Substituted Power				Spec FCC Part 24 MAX LIMIT	Result Pass/Fail
	Spurious Frequency (MHz)	Antenna Polarity	Measured Radiated Field Strength (dBuV/m)	Measured Radiated Field Strength (dBm) (Note 1)	TX Antenna Terminal Voltage (dBm) (Note 2)	EDRP (dBm) (Note 3)		
1175	16151.076	H	50.74	-44.48	-60	-48.25	-13	Pass
1175	3977.5	V	50.28	-44.94	-54.4	-48.85	-13	Pass
25	7396.698	H	43.76	-51.46	-63.1	-55.75	-13	Pass
25	3862.5	V	49.65	-45.57	-54.4	-48.75	-13	Pass

Notes:

1. Converting dBuV/M to dBm at 3 meters
(dBuV/M) +9.542-104.77dB=dBm
Converting dBuV/M to dBm at 10 meters
(dBuV/M) +20 -104.77dB=dBm
2. The same horn antenna and measurement system was used for EUT scan and during substitution method. After maximizing the receive antenna and adjusting signal generator power level to measure the same emission level with the spectrum analyzer as with the EUT. Signal generator output level was recorded for each of the spurious frequencies. Test cable was then disconnected from the transmit horn and was connected to the input of the S/A measuring the voltage at the terminals of the antenna.
3. This value was obtained by converting the Equivalent Isotropic Radiated Power (EIRP) to ideal half-wave dipole reference power - (Equivalent Di-Pole Radiated Power - EDRP) per (TIA-603, 2.2.12.2(i)(m)



Radiated Engineer



Date



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SECTION D

Spurious & Harmonic Emissions Conducted

Summary of Conducted RF Measurements

SC4812ETL @1.9GHz

FCC Part 24 at 23 dBm output (Min power)

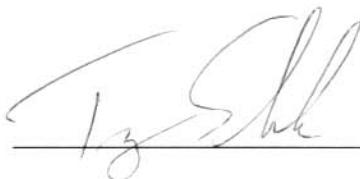
CHANNEL	FREQUENCY (MHz)	SPUR LEVEL MEASURED (dB μ V)	SPUR LEVEL MEASURED (dBm)	FCC MAX LIMIT dBm
25	14575.063	88.77	-18.23	-13
1175	13704.197	88.08	-18.92	-13

FCC Max. Limit Per 47 CFR:

- “ =Transmitted Power ($10 \log_{10} (P_{\text{watt}}) - (43 + 10 \log_{10} (P_{\text{watt}})) \text{dBW}$)
- “ = $10 \log_{10} (P_{\text{watt}}) - (43 + 10 \log_{10} (P_{\text{watt}})) \text{dBW}$
- “ =-43 dBW
- “ =-13 dBm

dB μ V-107 = dBm

Engineer:



8/1/01
Date



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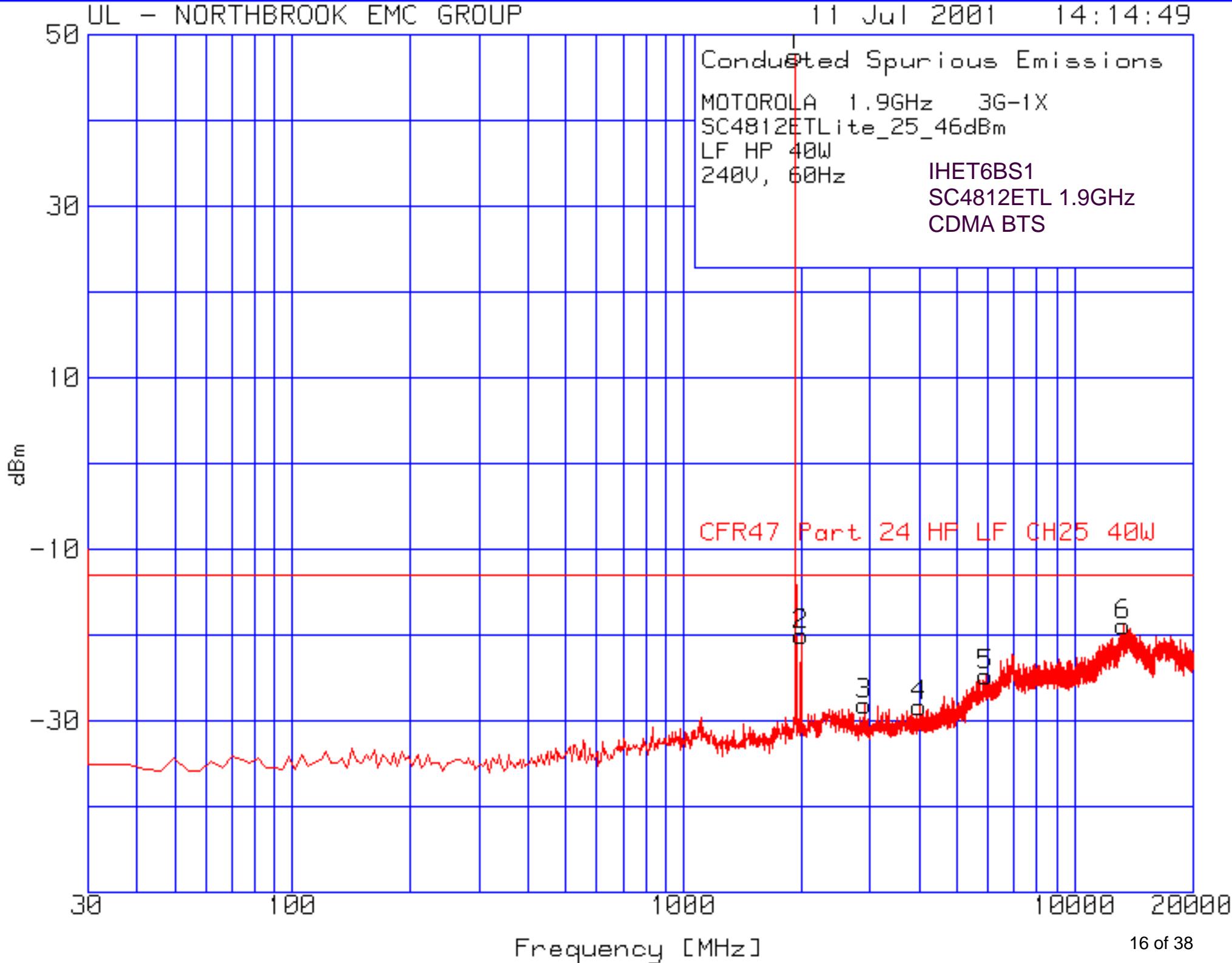
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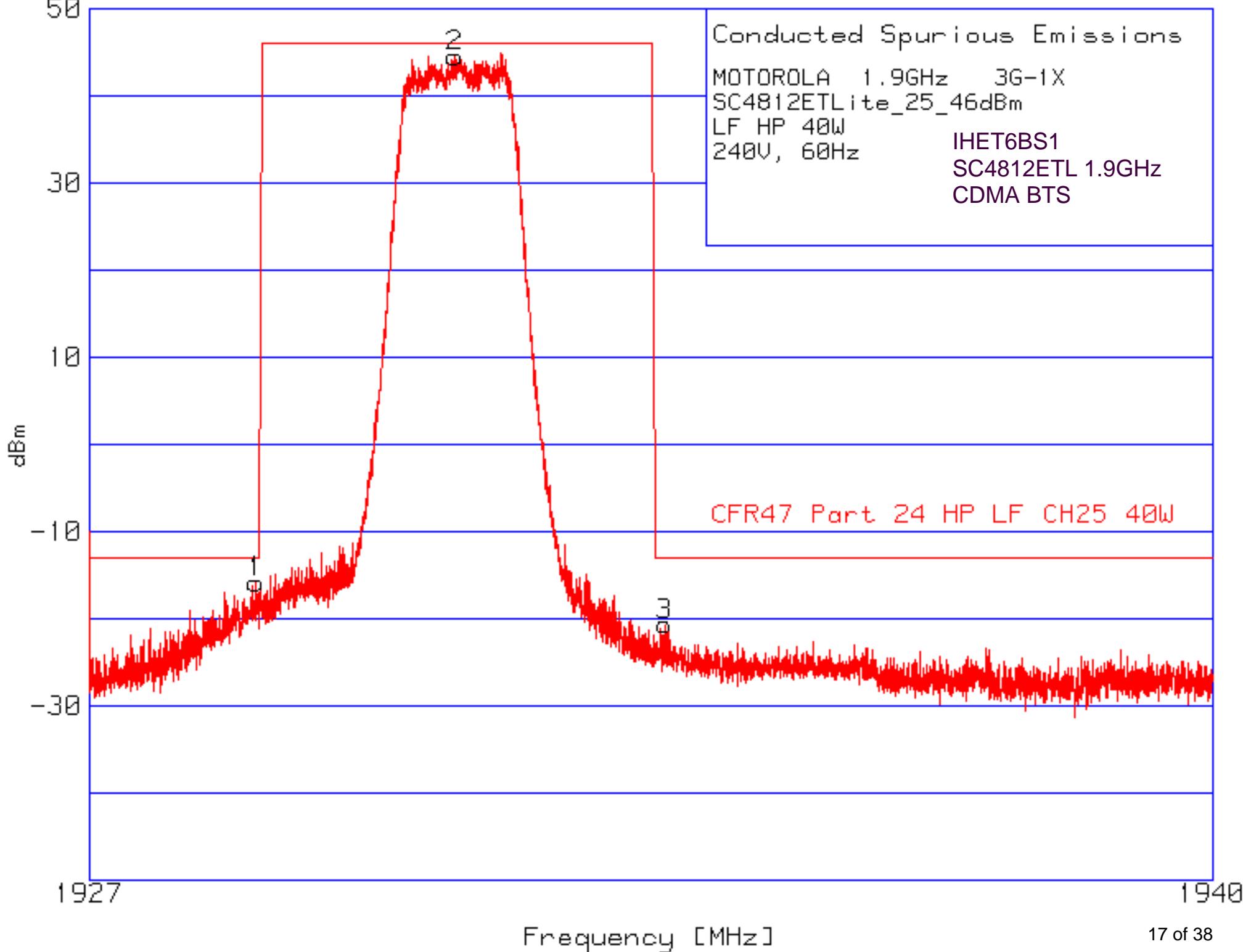
FCC ID: IHET6BS1

SPURIOUS & HARMONIC EMISSIONS CONDUCTED

CDMA Transmitter Channel 25

Maximum Power







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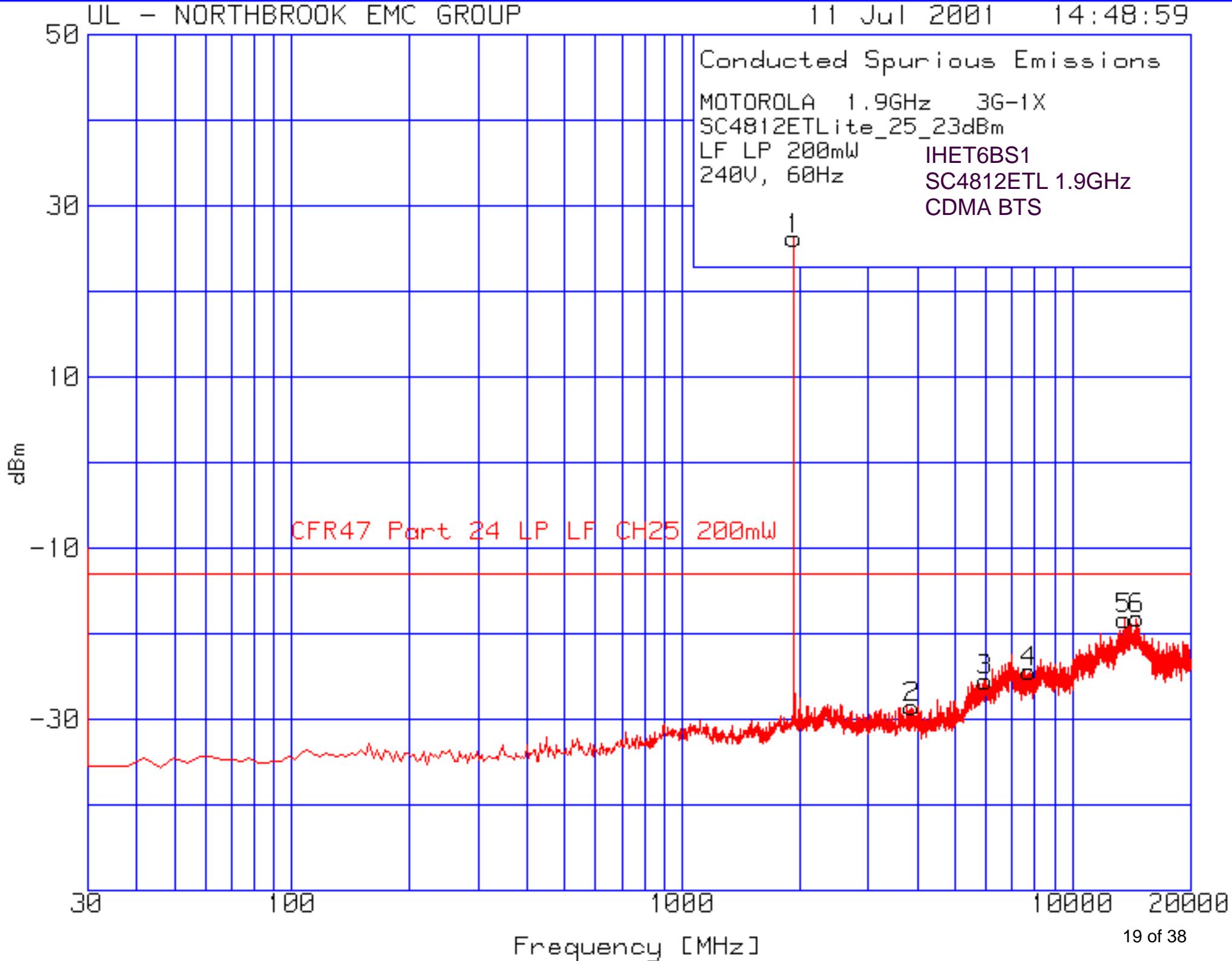
Cellular infrastructure group

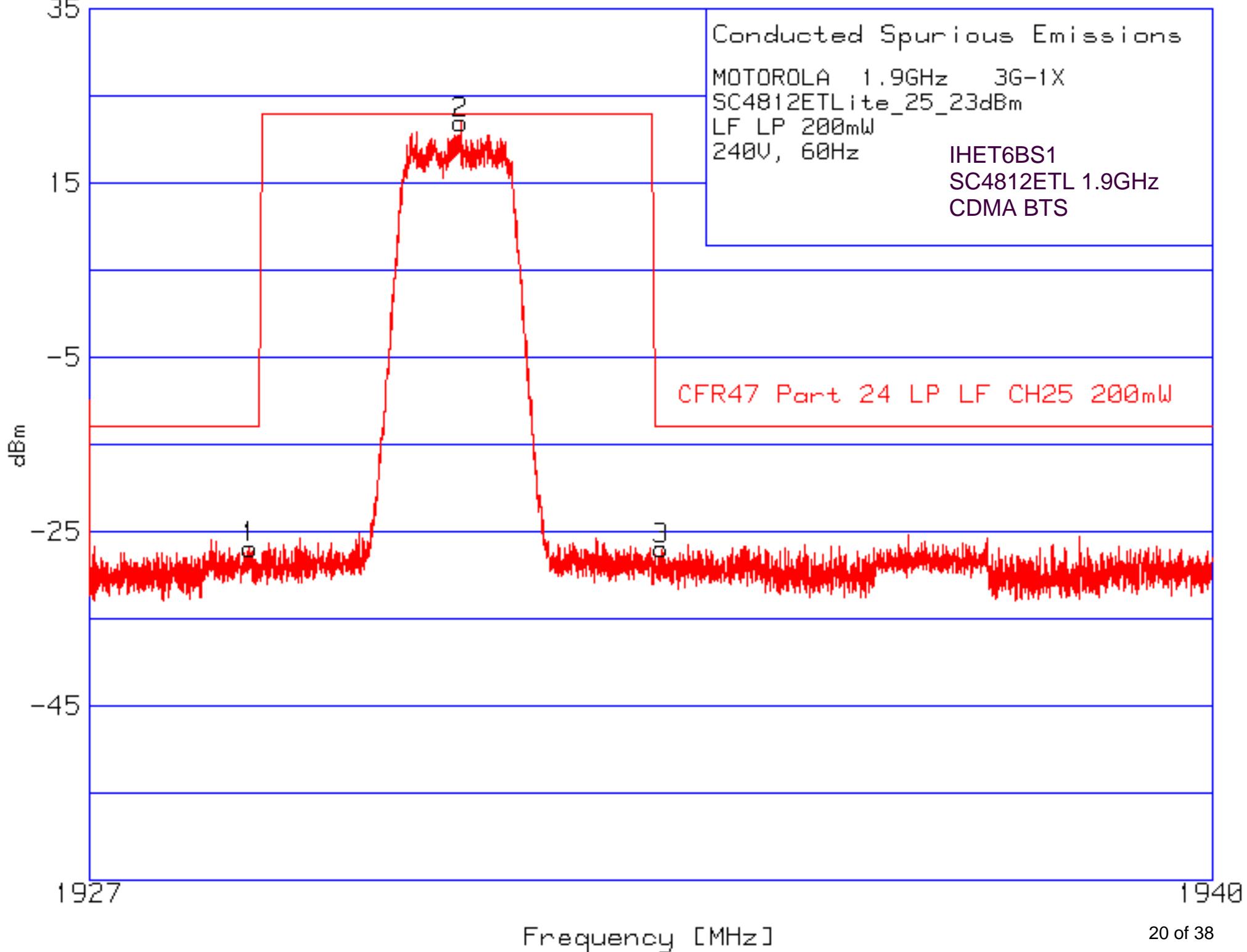
FCC ID: IHET6BS1

SPURIOUS & HARMONIC EMISSIONS CONDUCTED

CDMA Transmitter Channel 25

Minimum Power







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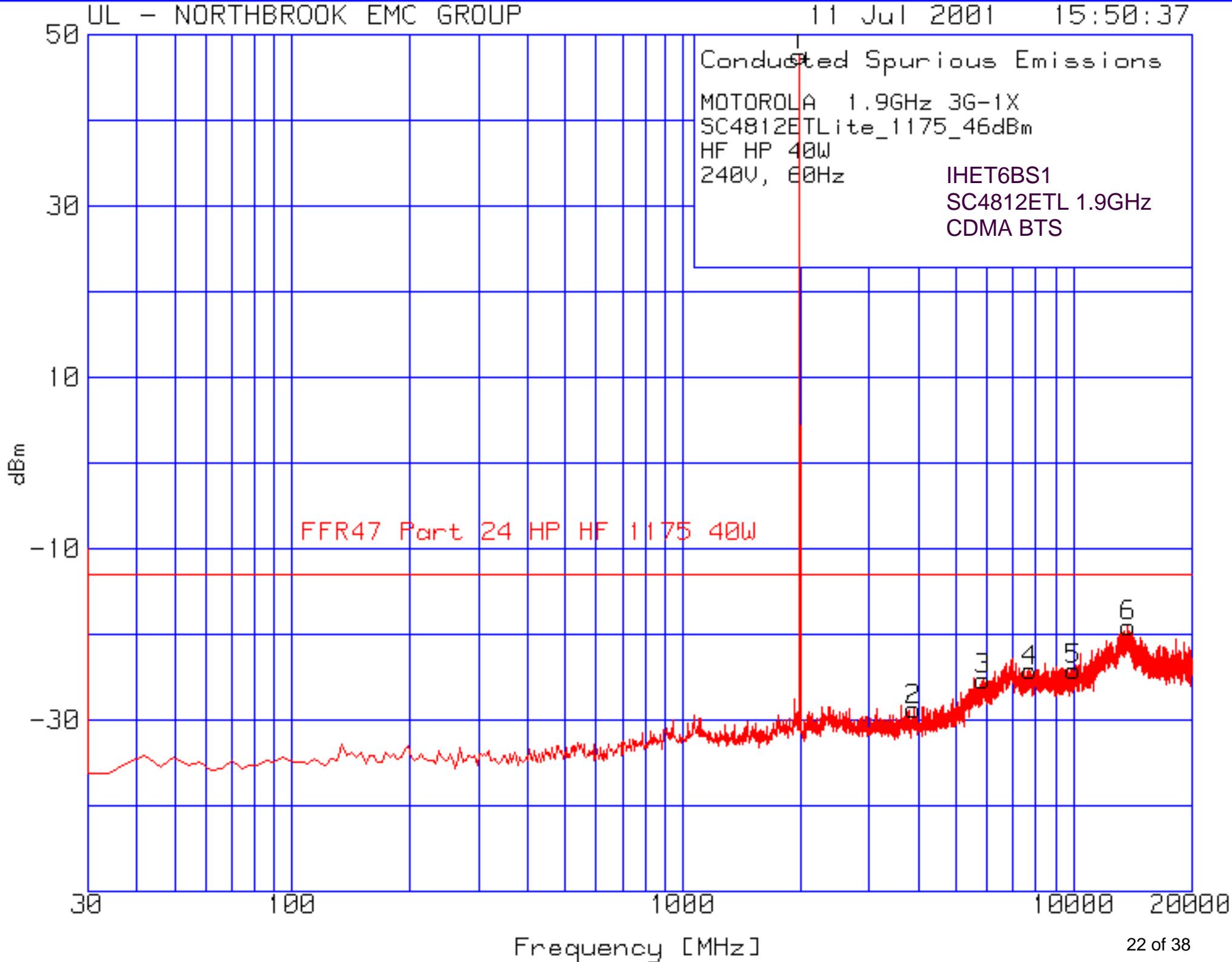
*Network Systems Group
CDMA Systems Division*

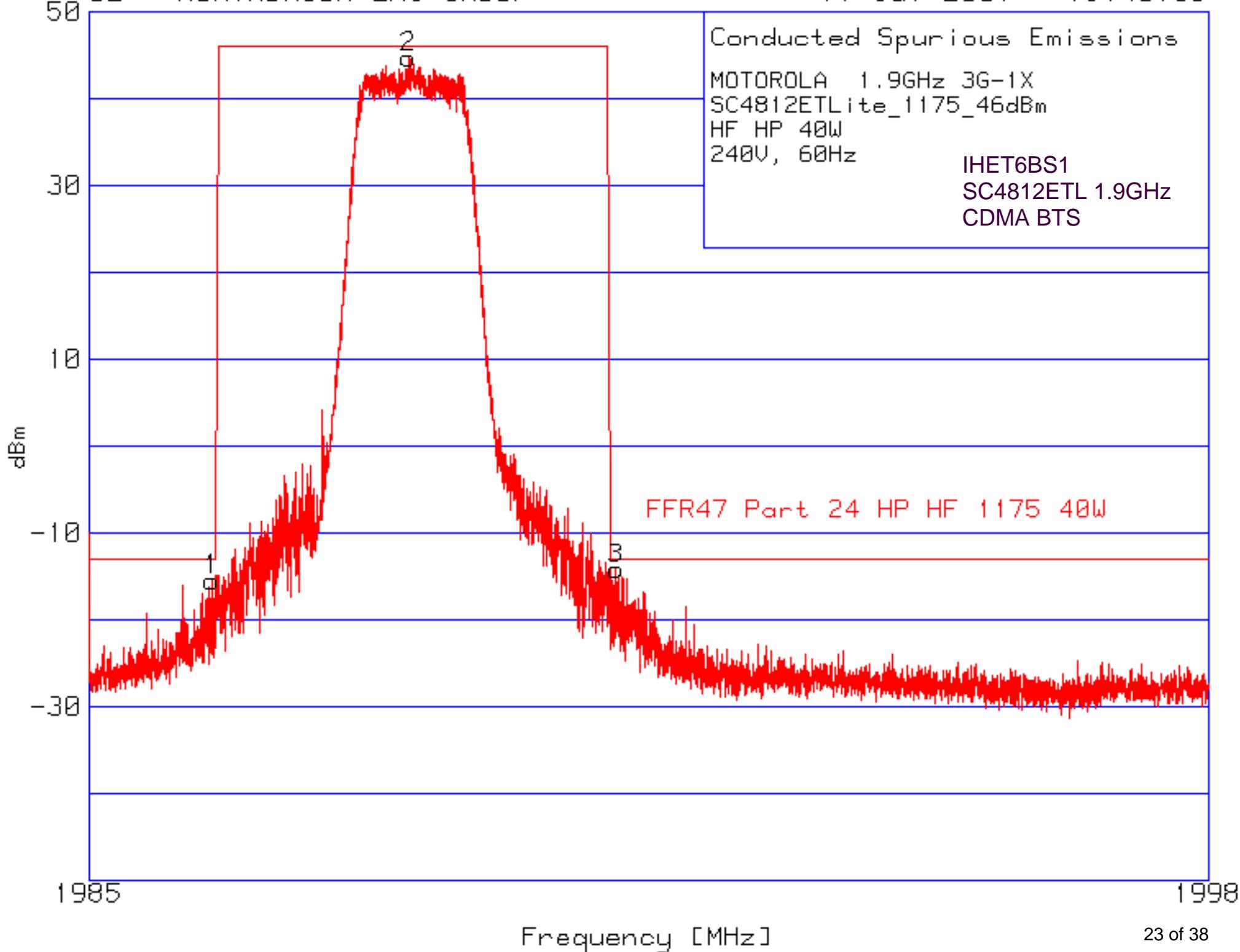
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SPURIOUS & HARMONIC EMISSIONS CONDUCTED

CDMA Transmitter Channel 1175

Maximum Power







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FCC ID: IHET6BS1

SPURIOUS & HARMONIC EMISSIONS CONDUCTED

CDMA Transmitter Channel 1175

Minimum Power

