FCC ID: IHET6BN1

SECTION D

Spurious & Harmonic Emissions Conducted

Conducted RF Measurements

SC4812T @ 1.9GHz

FCC Part 24

CHANNEL	FREQUENCY (MHz)	SPUR LEVEL MEASURED (dBµV)	SPUR LEVEL MEASURED (dBm)	FCC MAX LIMIT dBm
25	13772.108	89.26	-17.74	-13

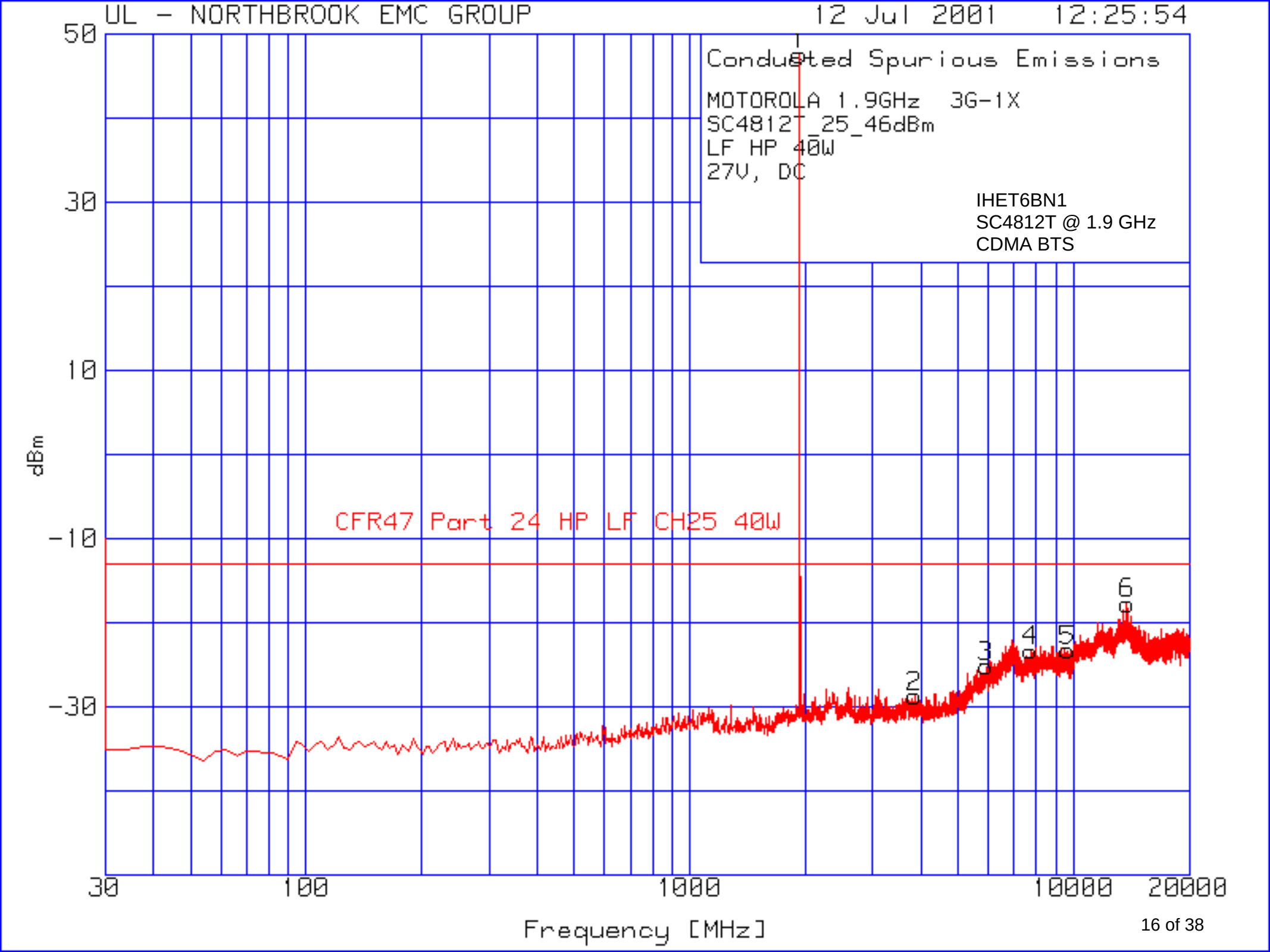
Engineer: _____ 8/3/01
Date

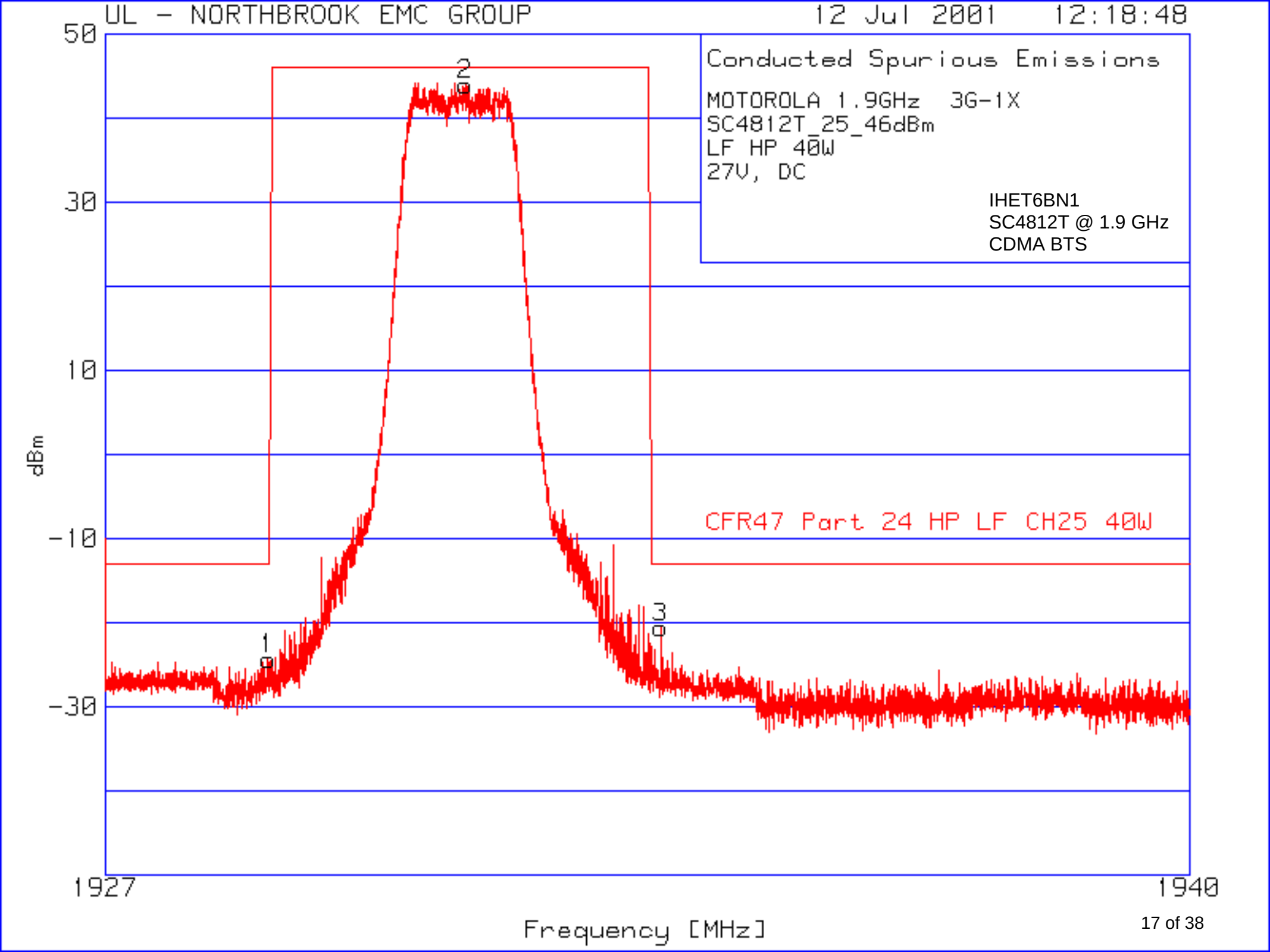
FCC ID: IHET6BN1

SPURIOUS & HARMONIC EMISSIONS CONDUCTED

CDMA Transmitter Channel 25

Maximum Power


UL – NORTHBROOK EMC GROUP
12 Jul 2001 12:25:54
Conducted Spurious Emissions
MOTOROLA 1.9GHz 3G-1X
SC4812T_25_46dBm
LF HP 40W
27V, DC
IHET6BN1
SC4812T @ 1.9 GHz
CDMA BTS
CFR47 Part 24 HP LF CH25 40W
dBm
50
30
10
-10
-30
30
100
1000
10000
20000
Frequency [MHz]


UL – NORTHBROOK EMC GROUP
12 Jul 2001 12:18:48
Conducted Spurious Emissions
MOTOROLA 1.9GHz 3G-1X
SC4812T_25_46dBm
LF HP 40W
27V, DC
IHET6BN1
SC4812T @ 1.9 GHz
CDMA BTS
CFR47 Part 24 HP LF CH25 40W
1
2
3
50
30
10
-10
-30
dBm
1927
1940
Frequency [MHz]

MOTOROLA

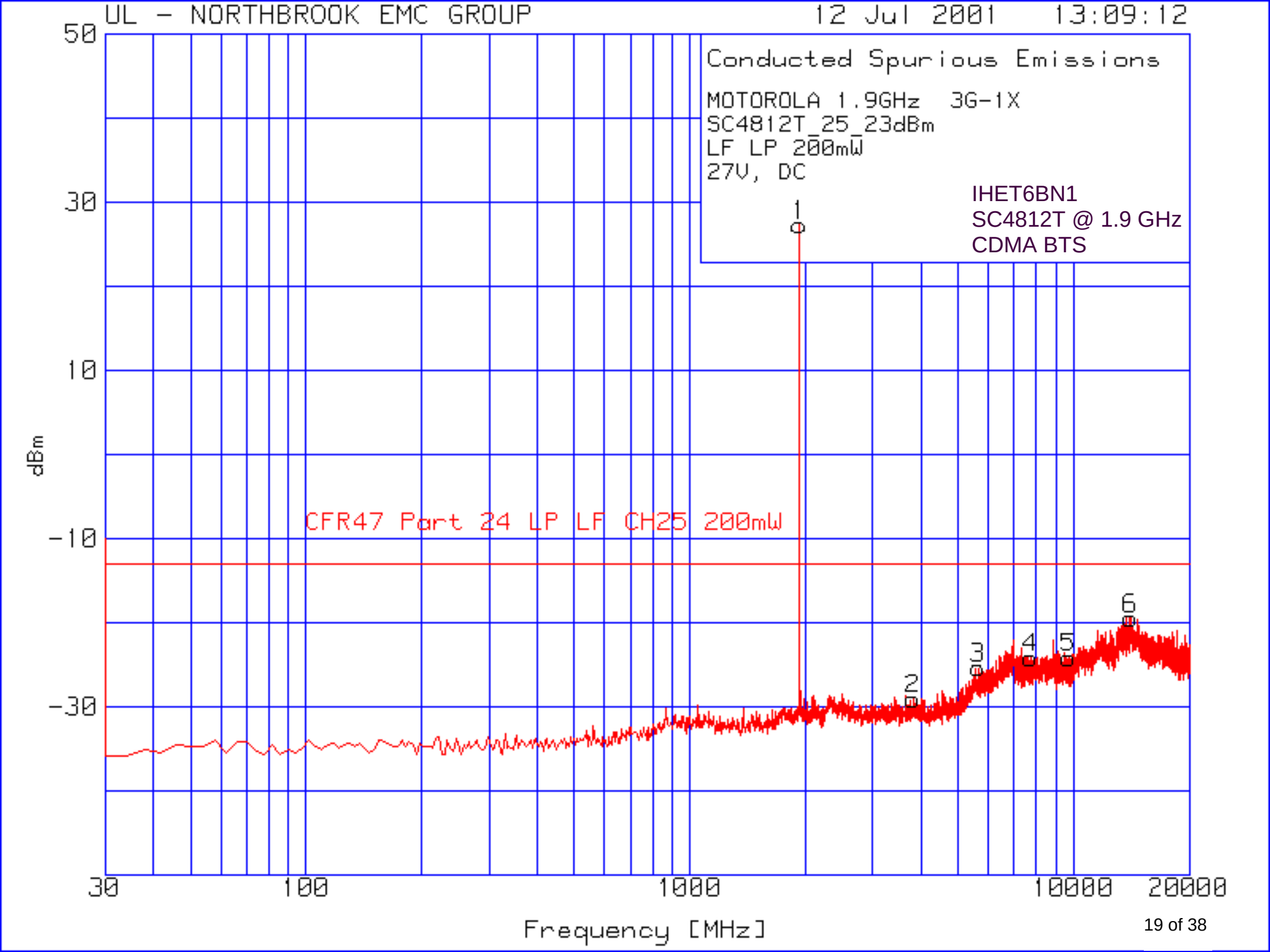
Global Telecom Solutions Sector

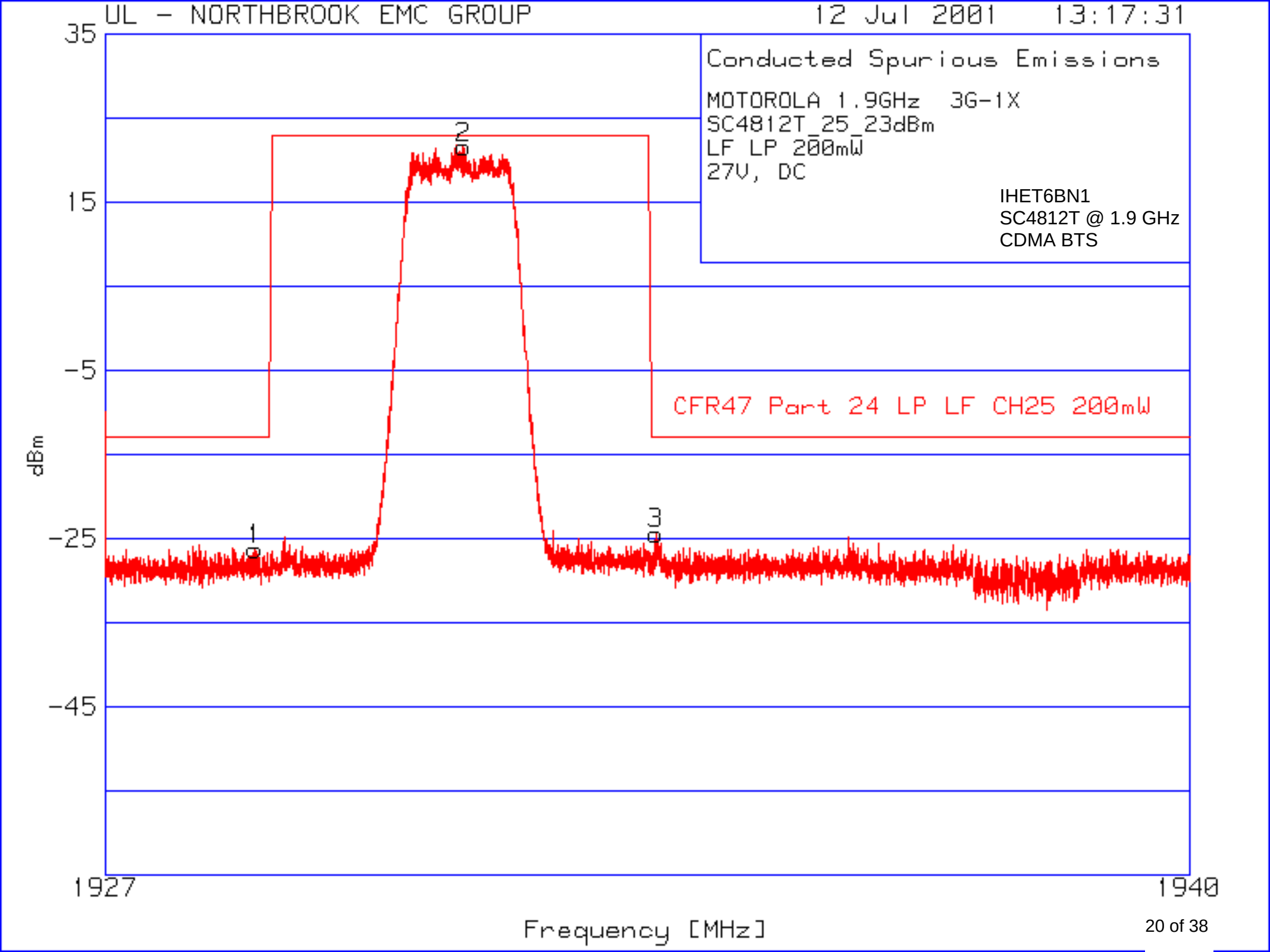
FCC ID: IHET6BN1

SPURIOUS & HARMONIC EMISSIONS CONDUCTED

CDMA Transmitter Channel 25

Minimum Power


UL – NORTHBROOK EMC GROUP
12 Jul 2001 13:09:12
Conducted Spurious Emissions
MOTOROLA 1.9GHz 3G-1X
SC4812T_25_23dBm
LF LP 200mW
27V, DC
IHET6BN1
SC4812T @ 1.9 GHz
CDMA BTS
CFR47 Part 24 LP LF CH25 200mW
dBm
50
30
10
-10
-30
30
100
1000
10000
20000
Frequency [MHz]


UL – NORTHBROOK EMC GROUP
12 Jul 2001 13:17:31
Conducted Spurious Emissions
MOTOROLA 1.9GHz 3G-1X
SC4812T_25_23dBm
LF LP 200mW
27V, DC
IHET6BN1
SC4812T @ 1.9 GHz
CDMA BTS
CFR47 Part 24 LP LF CH25 200mW
35
15
-5
-25
-45
dBm
1
2
3
1927
1940
Frequency [MHz]

MOTOROLA

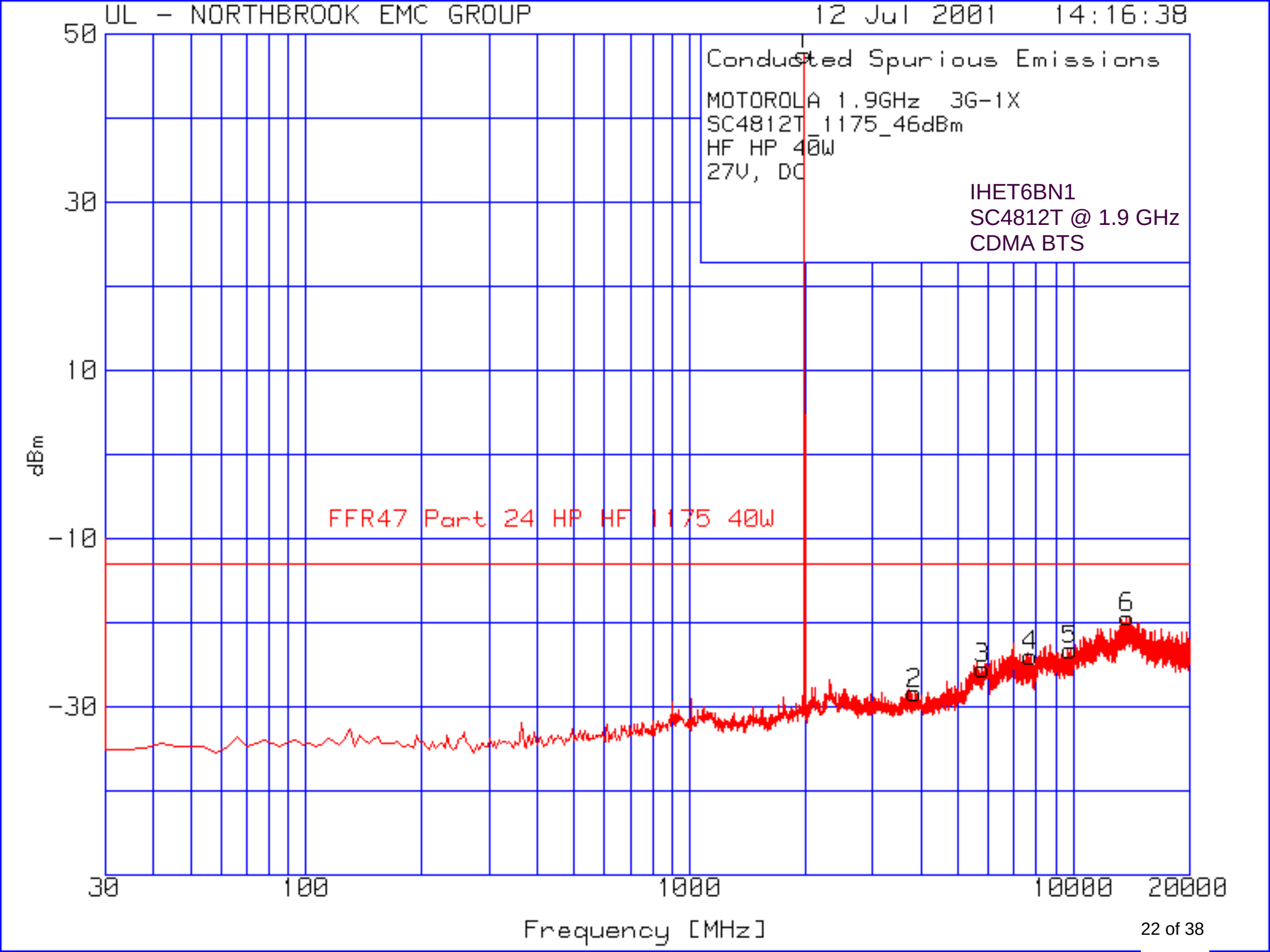
Network Systems Group
CDMA Systems Division

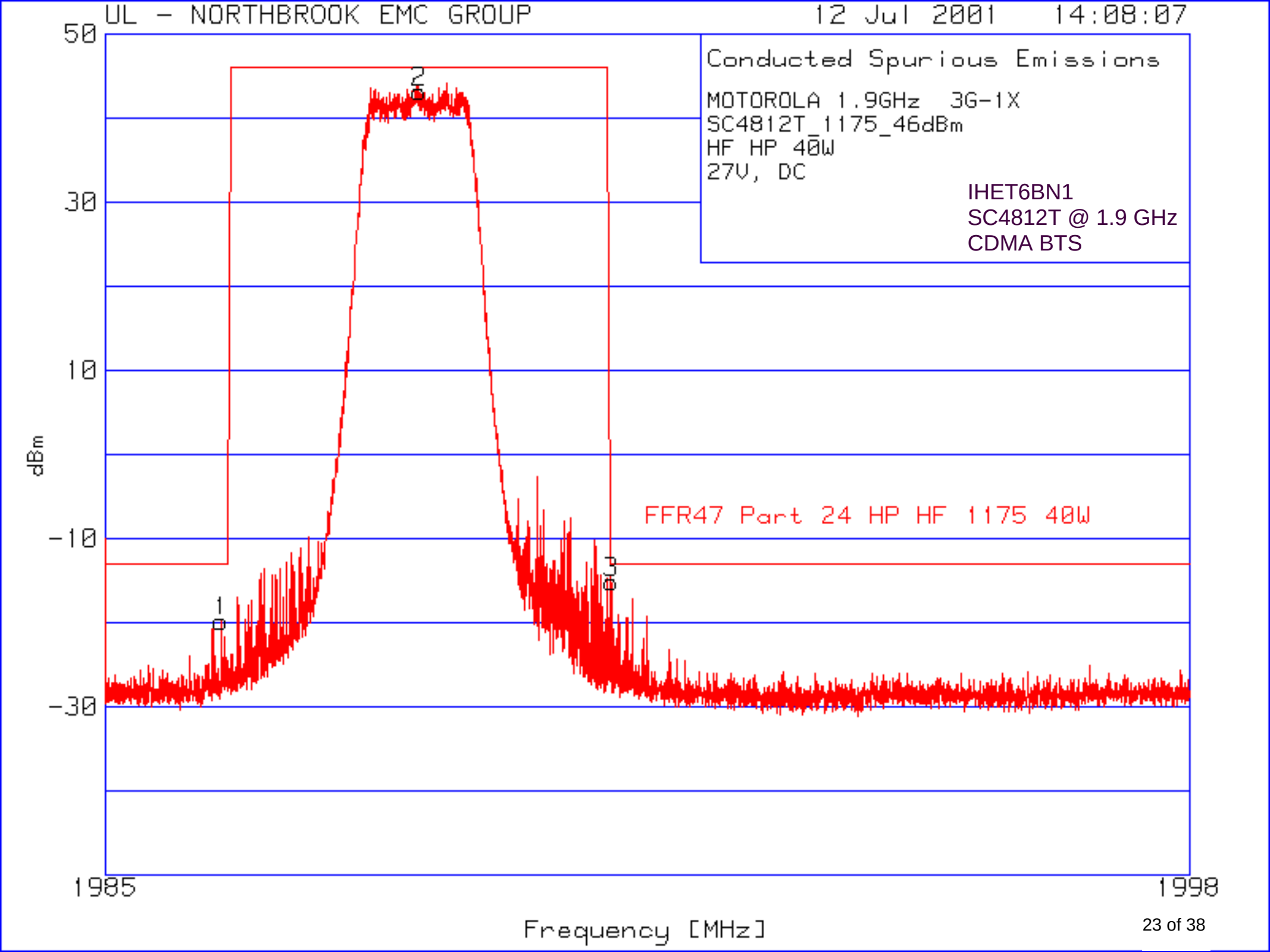
FCC ID: IHET6BN1

SPURIOUS & HARMONIC EMISSIONS CONDUCTED

CDMA Transmitter Channel 1175

Maximum Power


UL – NORTHBROOK EMC GROUP
12 Jul 2001 14:16:38
Conducted Spurious Emissions
MOTOROLA 1.9GHz 3G-1X
SC4812T_1175_46dBm
HF HP 40W
27V, DC
IHET6BN1
SC4812T @ 1.9 GHz
CDMA BTS
FFR47 Part 24 HP HF 1175 40W
50
30
10
-10
-30
dBm
30
100
1000
10000
20000
Frequency [MHz]


UL – NORTHBROOK EMC GROUP
12 Jul 2001 14:08:07
Conducted Spurious Emissions
MOTOROLA 1.9GHz 3G-1X
SC4812T_1175_46dBm
HF HP 40W
27V, DC
IHET6BN1
SC4812T @ 1.9 GHz
CDMA BTS
FFR47 Part 24 HP HF 1175 40W
50
30
10
-10
-30
dBm
1985
1998
Frequency [MHz]

MOTOROLA

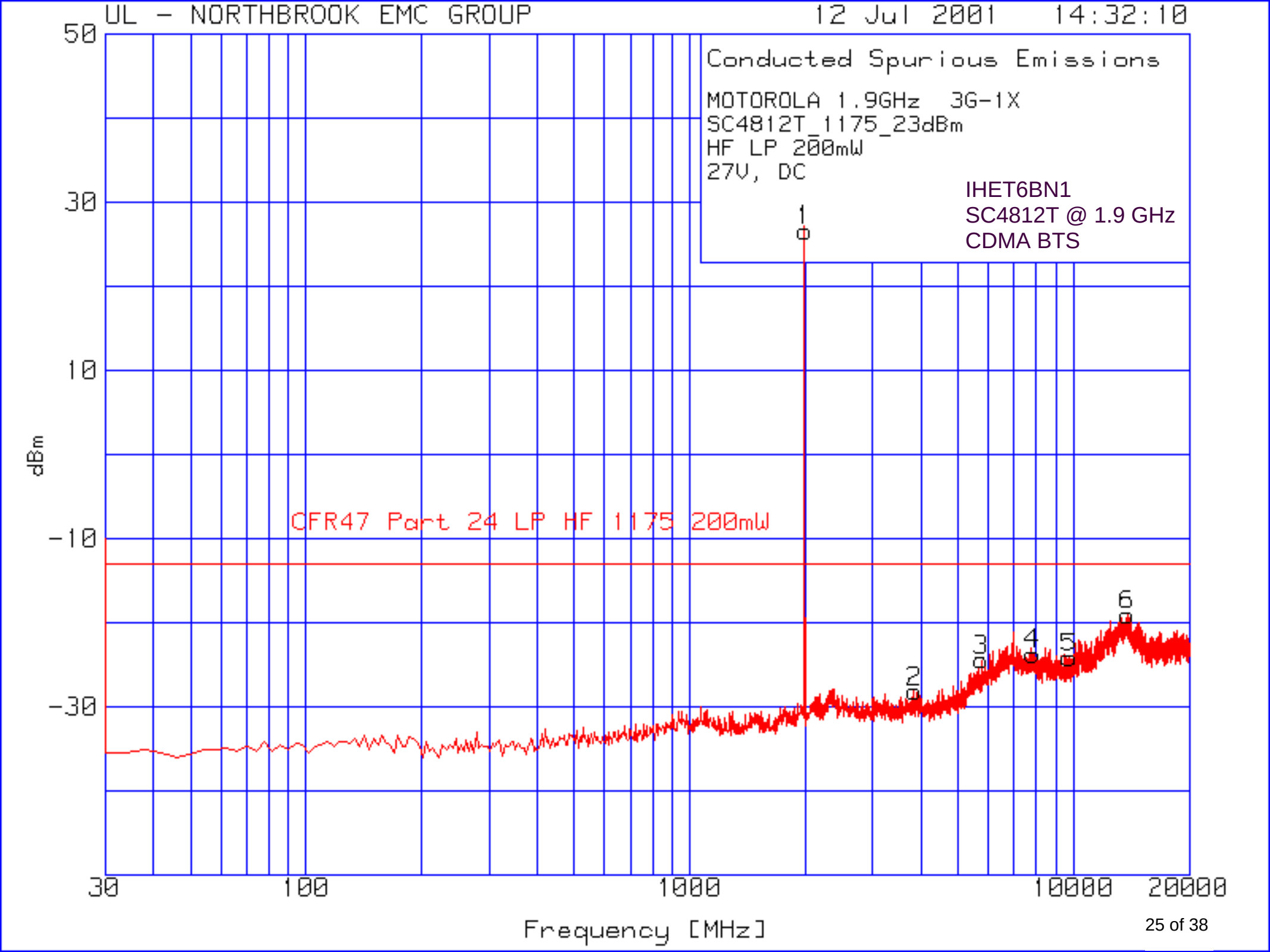
Global Telecom Solutions Sector

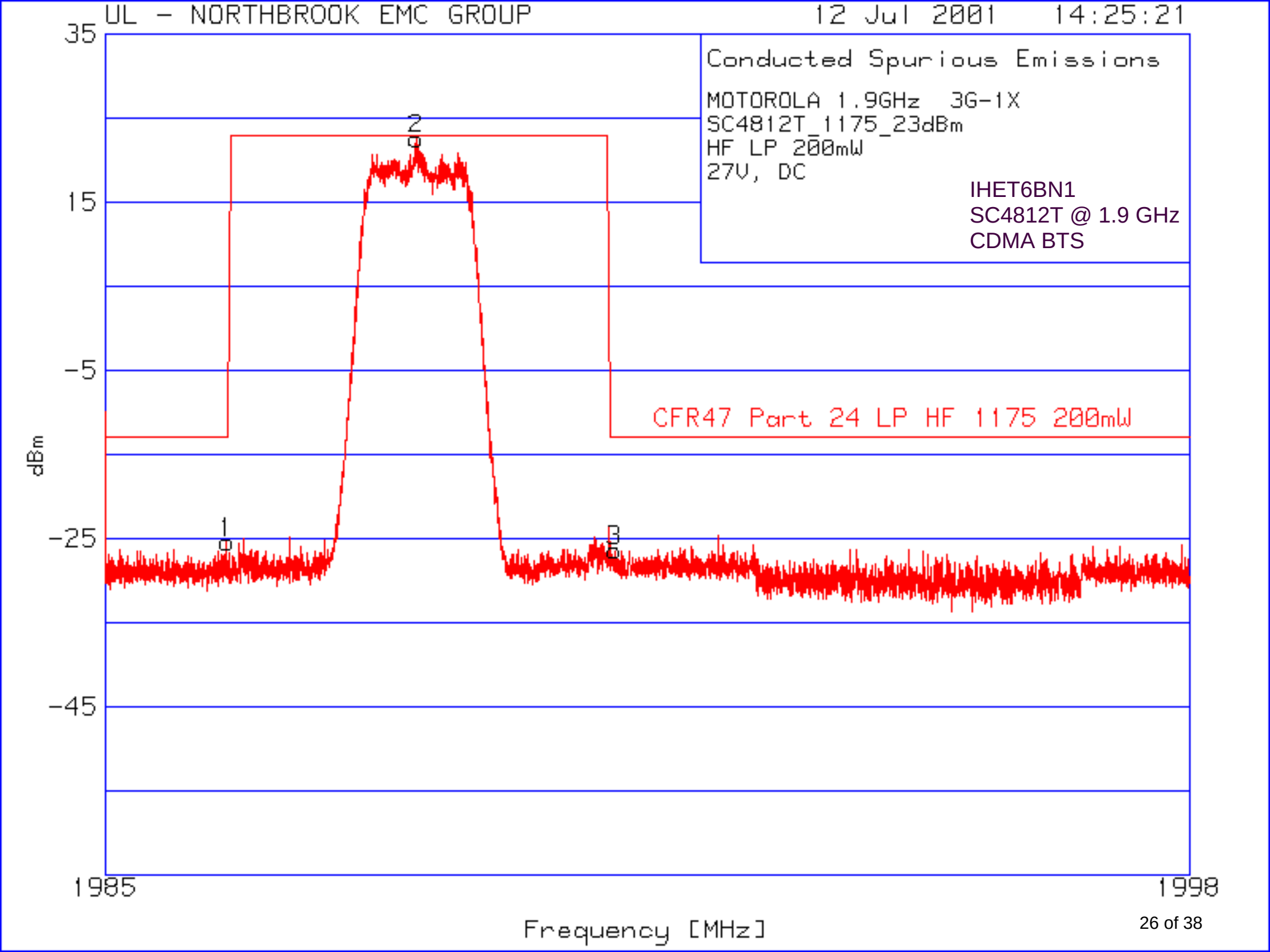
FCC ID: IHET6BN1

SPURIOUS & HARMONIC EMISSIONS CONDUCTED

CDMA Transmitter Channel 1175

Minimum Power


UL – NORTHBROOK EMC GROUP
12 Jul 2001 14:32:10
Conducted Spurious Emissions
MOTOROLA 1.9GHz 3G-1X
SC4812T_1175_23dBm
HF LP 200mW
27V, DC
IHET6BN1
SC4812T @ 1.9 GHz
CDMA BTS
CFR47 Part 24 LP HF 1175 200mW
dBm
50
30
10
-10
-30
30
100
1000
10000
20000
Frequency [MHz]


UL – NORTHBROOK EMC GROUP
12 Jul 2001 14:25:21
Conducted Spurious Emissions
MOTOROLA 1.9GHz 3G-1X
SC4812T_1175_23dBm
HF LP 200mW
27V, DC
IHET6BN1
SC4812T @ 1.9 GHz
CDMA BTS
CFR47 Part 24 LP HF 1175 200mW
35
15
-5
-25
-45
dBm
1
2
3
1985
1998
Frequency [MHz]

MOTOROLA

Global Telecom Solutions Sector

SECTION E

OCCUPIED BANDWIDTH

SC4812T/ET/ETL

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.

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

Example: 29.88 dBm + 16.12 dB = 46.0 dBm

The BTS was configured for maximum power out of 46.0 dBm and minimum power out of 23.0 dBm respectively. The output power was set respectively to 40.0 Watts or 200 mWatts using an HP437B power meter.

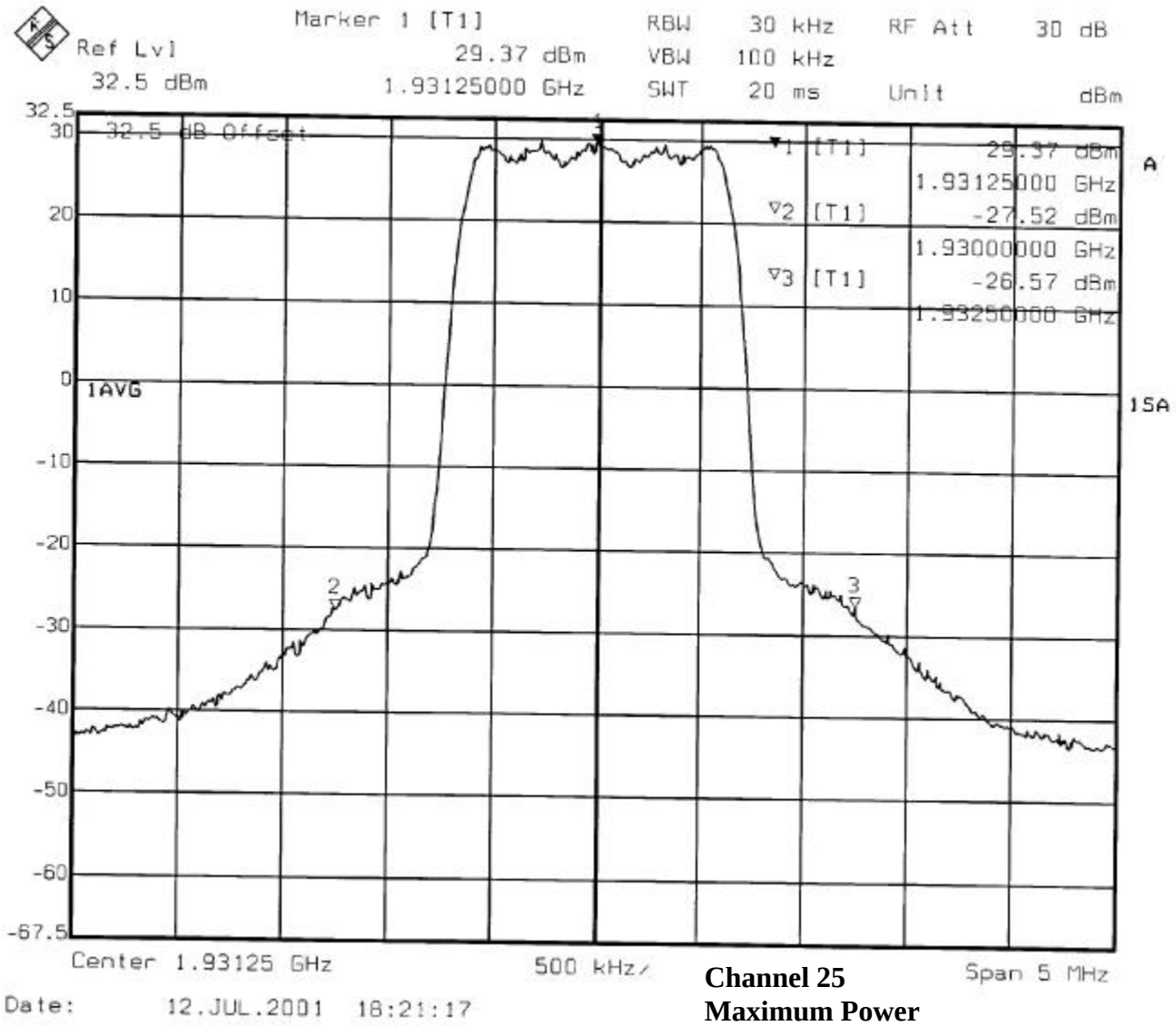
Engineer: Francisco Avalos 8/3/01

Date

FCC ID: IHET6BN1

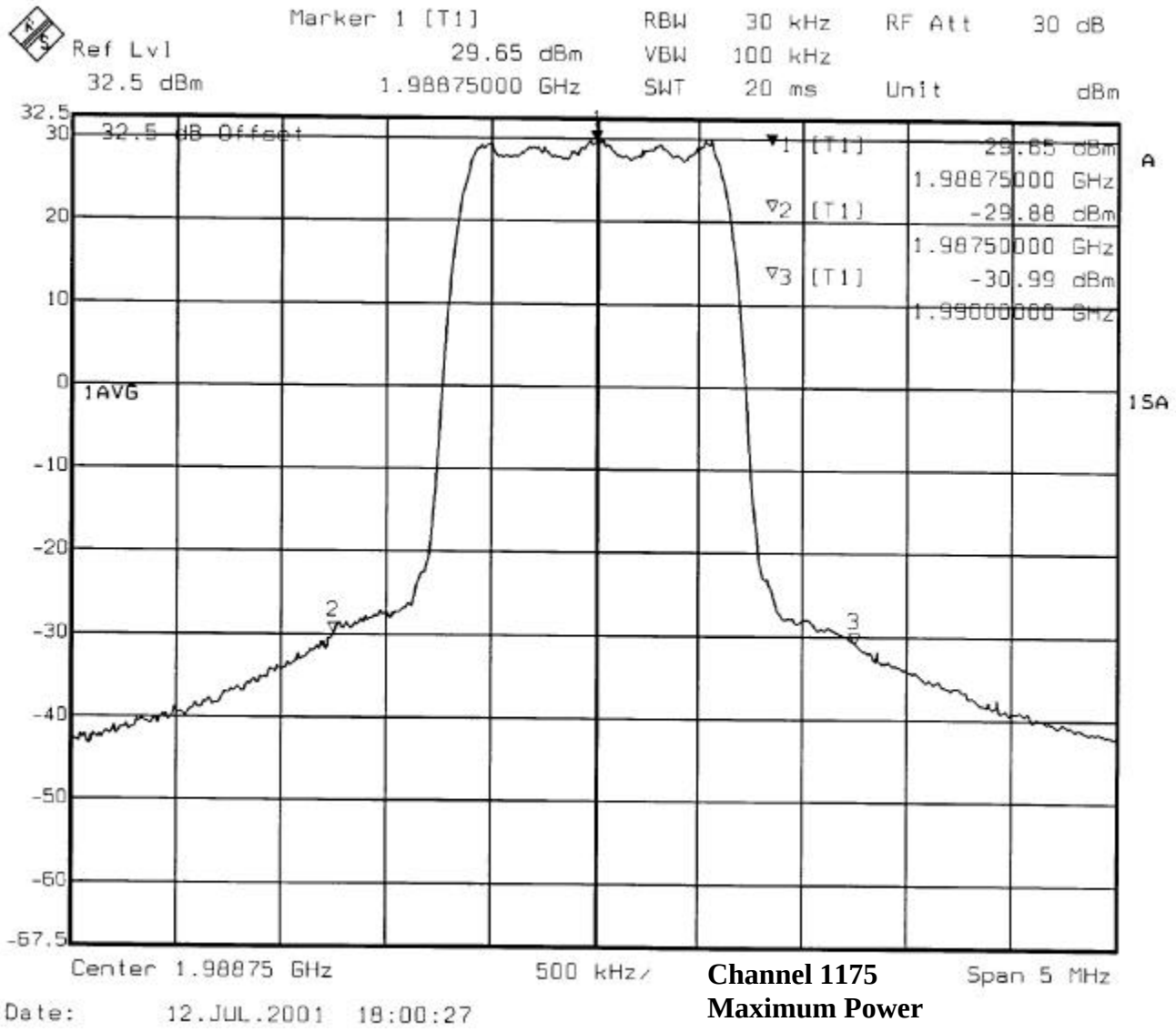
Occupied Bandwidth

Maximum Power



Channel 25
Maximum Power

IHET6BN1
SC4812T 1.9 GHz
CDMA BTS
3G-1X



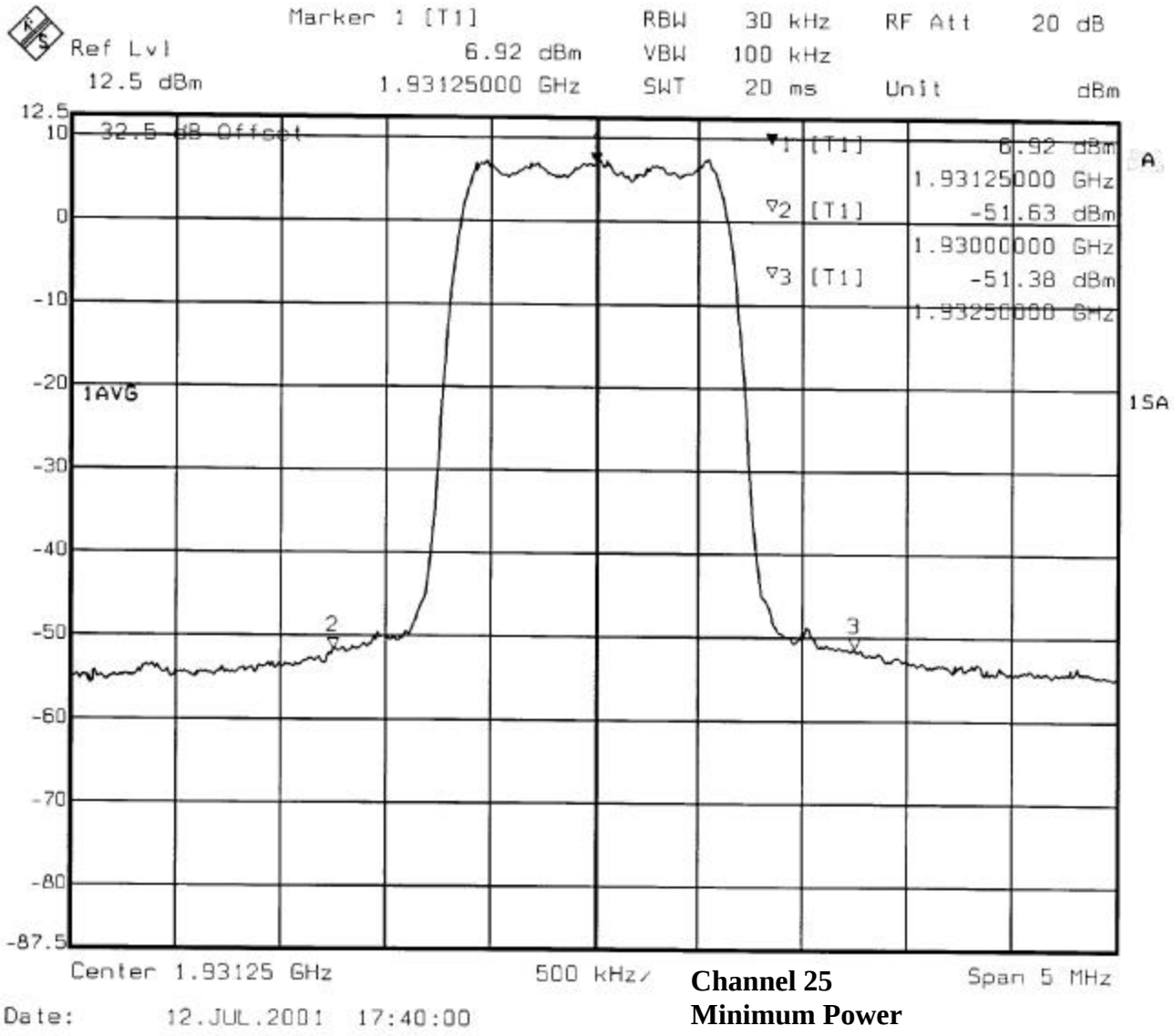
Channel 1175
Maximum Power

IHET6BN1
SC4812T 1.9 GHz
CDMA BTS
3G-1X

FCC ID: IHET6BN1

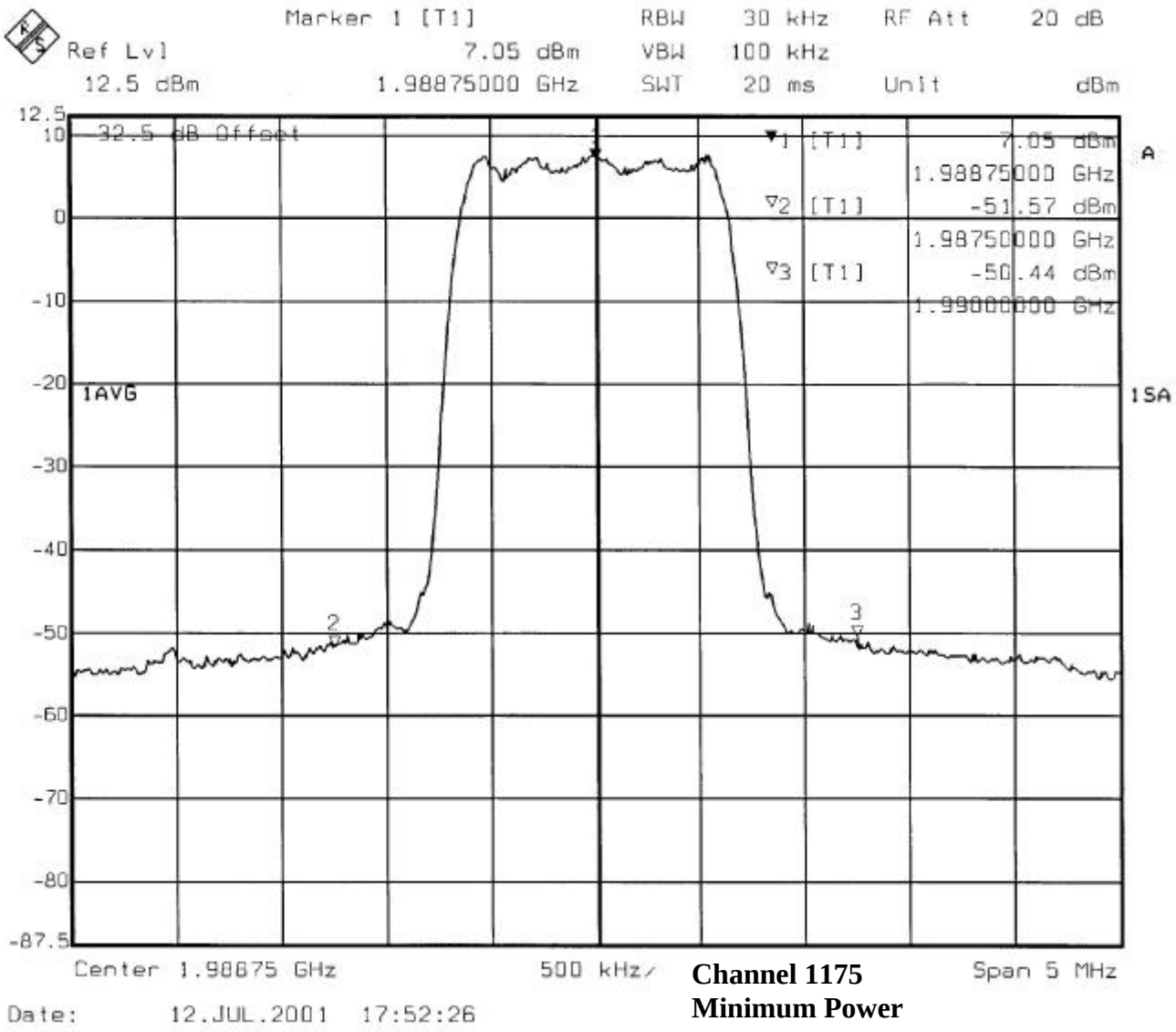
Occupied Bandwidth

Minimum Power



Channel 25
Minimum Power

IHET6BN1
SC4812T 1.9 GHz
CDMA BTS
3G-1X



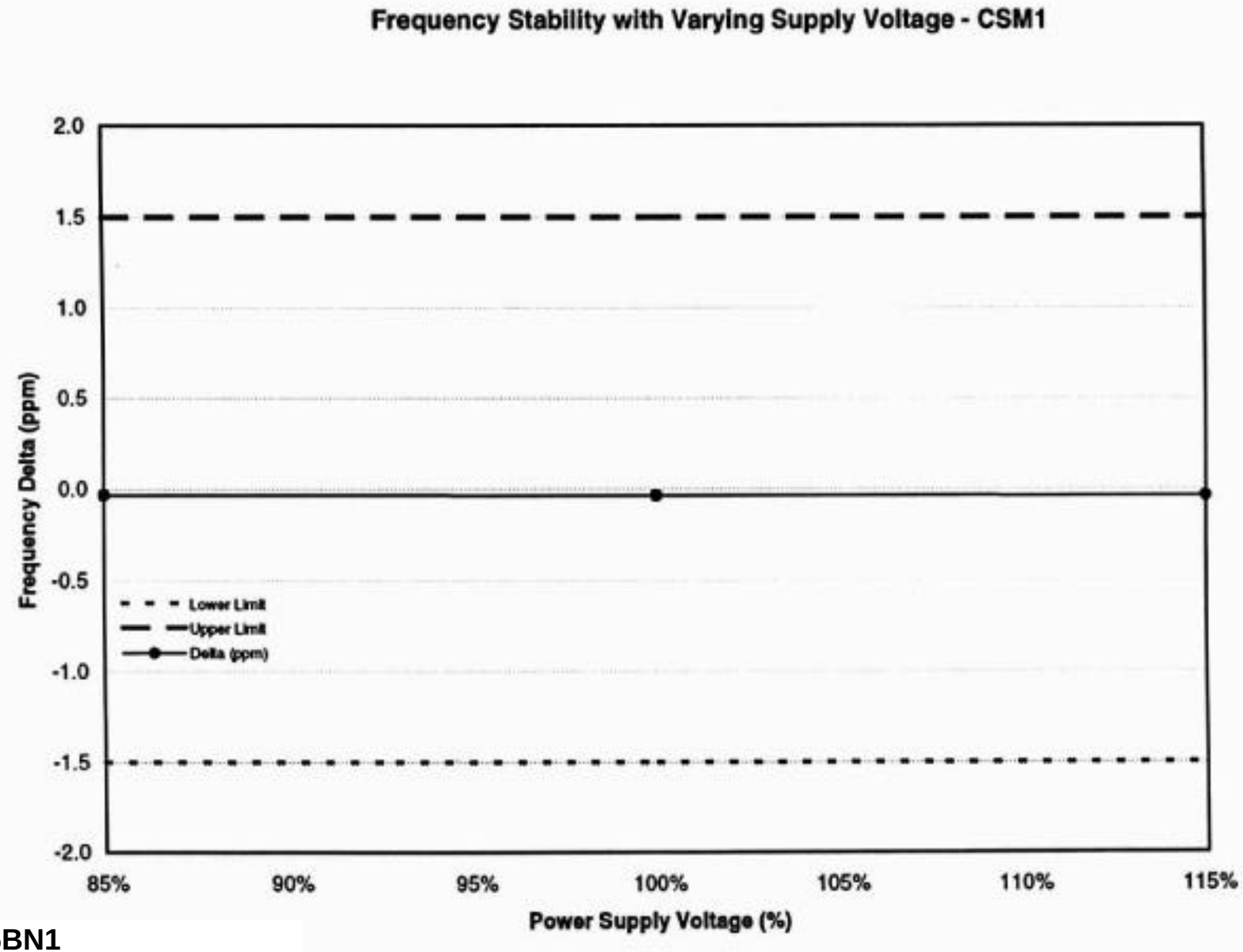
Channel 1175
Minimum Power

IHET6BN1
SC4812T 1.9 GHz
CDMA BTS
3G-1X

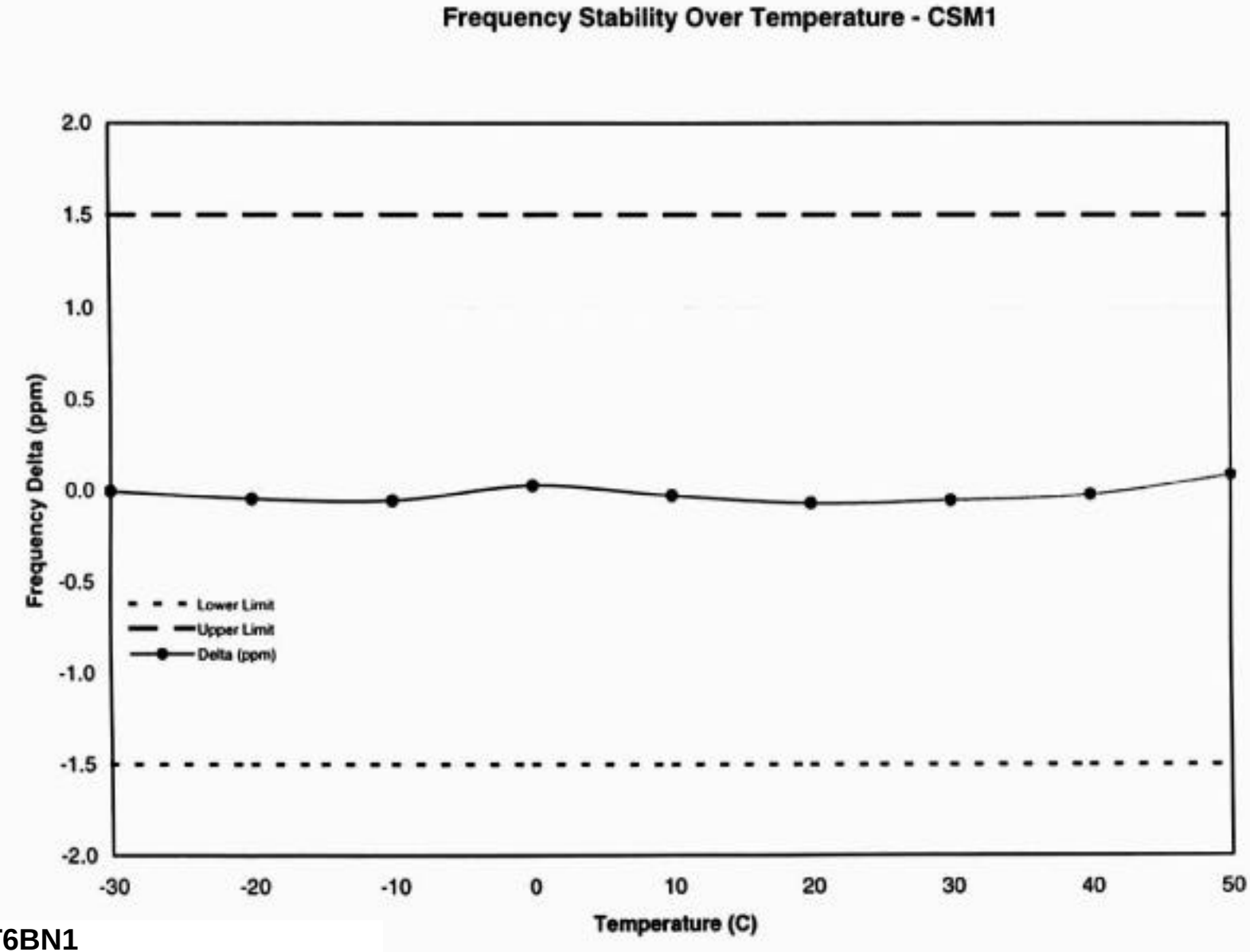
FCC ID: IHET6BN1

SECTION F

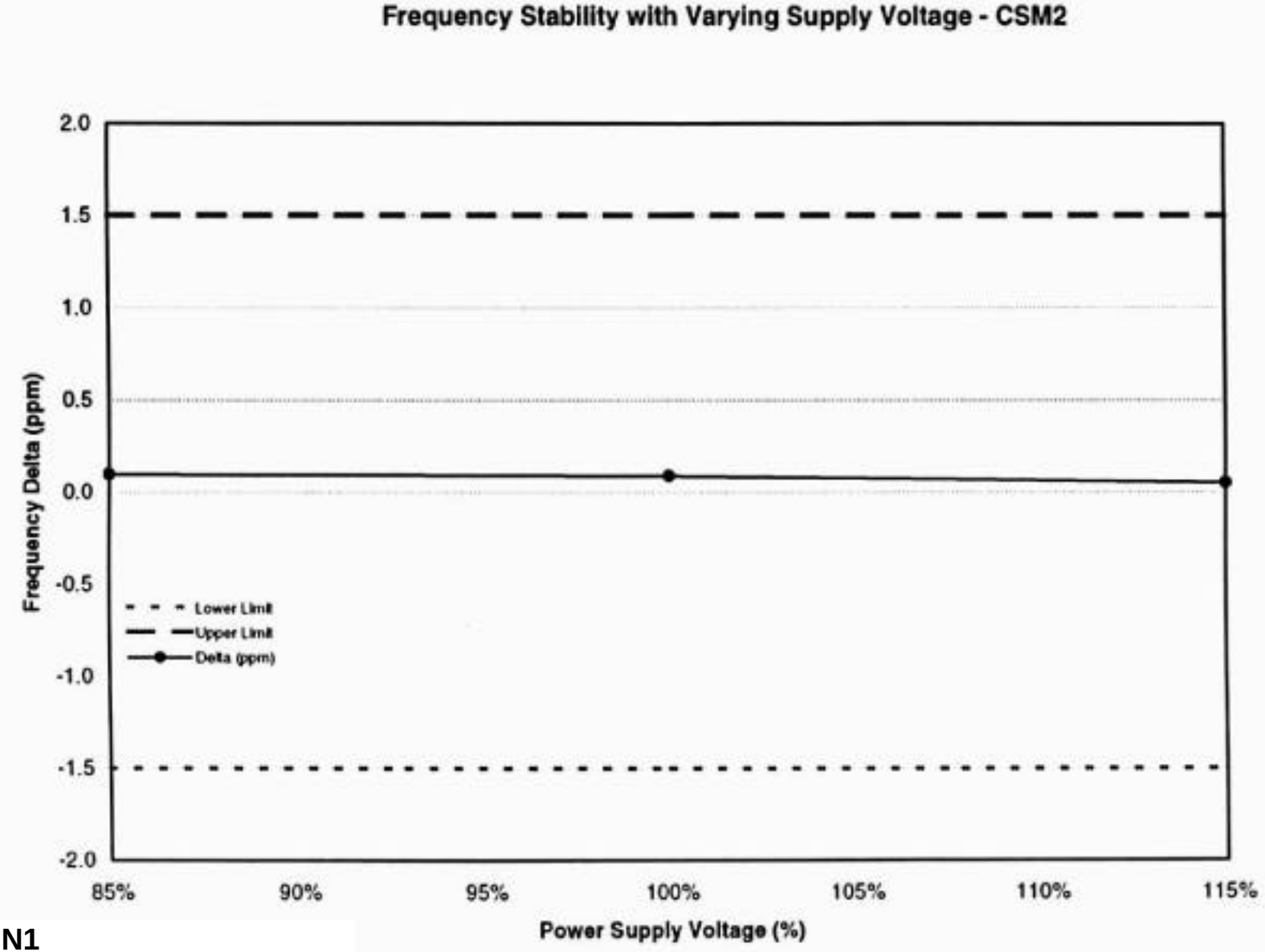
Frequency Stability



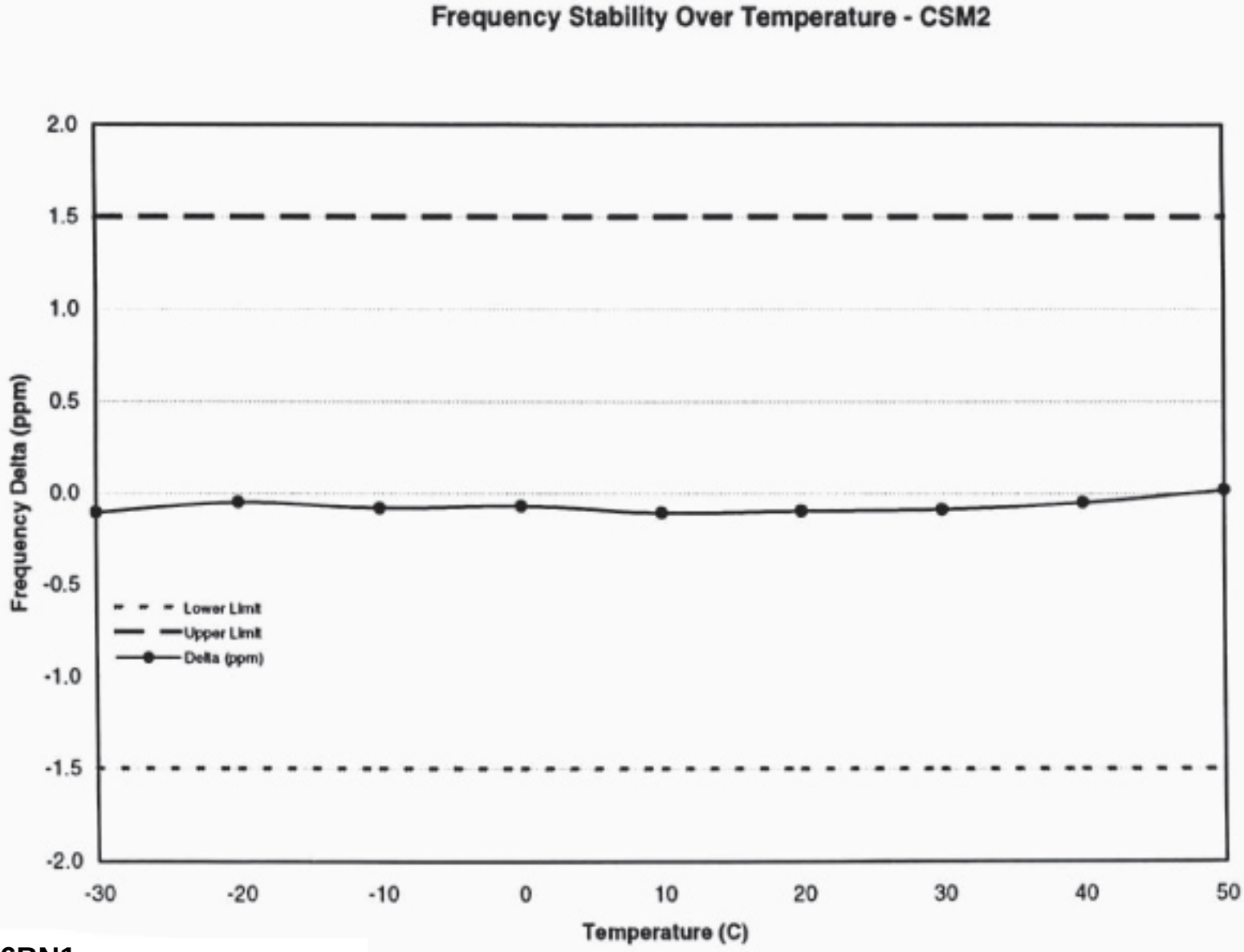
IHET6BN1
SC4812T @ 1.9 GHz
CDMA BTS



IHET6BN1
SC4812T @ 1.9 GHz
CDMA BTS



IHET6BN1
SC4812T @ 1.9 GHz
CDMA BTS



IHET6BN1
SC4812T @ 1.9 GHz
CDMA BTS