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RF POWER OUTPUT DATA

The input supply to the transmitter was set at 3.6 Volts. The RF power output was measured with the indicated voltage and current applied into the final RF amplifying device(s).

DIGITAL MODE

In Digital Mode the values measured for RF Output of the radio board, DC Current and RF Input Power are all average values which reflect a 100% transmit duty cycle in CDMA operation.

Measured RF output: 0.326W

Measured DC voltage: 3.6V

Measured DC current: 580mA.

Measured RF input: 2.98Mw

EFFECTIVE RADIATED POWER

Since the unit is intended for use with a provided antenna (and "non standard" RF connector), EIRP is measured. The dipole antenna substitution method was used. The result indicated is the maximum EIRP found over the channels and radio orientations tested.

Maximum Effective Isotropic Radiated Power: Digital Mode 23.8 dBm (0.239 W)

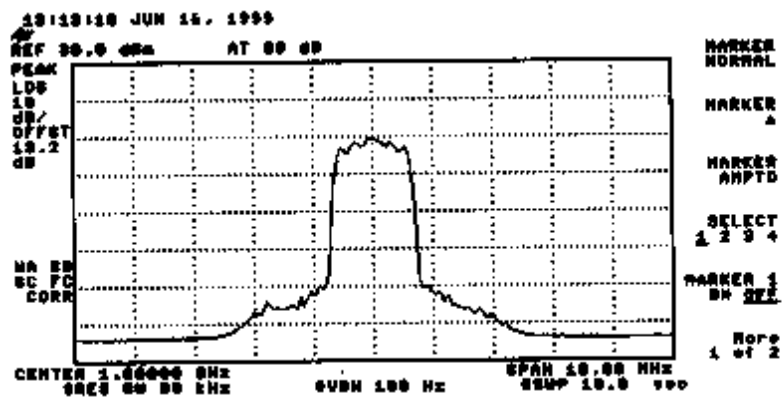
BANDWIDTH MEASUREMENT DATA FOR TRANSMITTER TYPES F9W

DEVIATION OF THE CARRIER WITH OQPSK MODULATION

HORIZONTAL SCALE = 1MHz / DIVISION
 VERTICAL SCALE = 10 dB / DIVISION (ATTENUATION)
 RESOLUTION BANDWIDTH = 30 kHz
 VIDEO BANDWIDTH = 100 Hz
 POWER LEVEL = 0.316W (Average Power in transmitter)

MEASURED DATA:

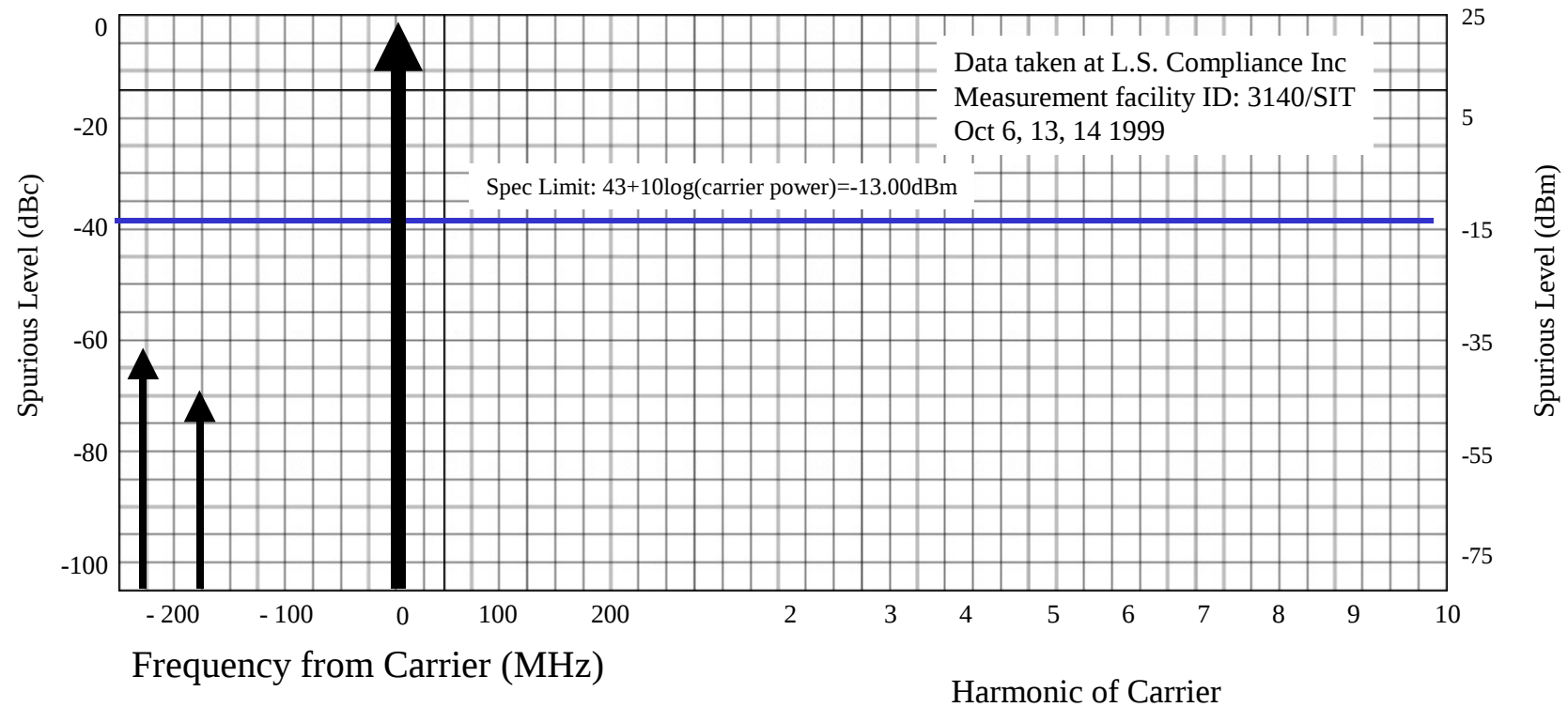
1. Modulate the transmitter with OQPSK modulation, using pseudo random data. Obtain image on spectrum analyzer.



COMMENTS:

Modulation products in a bandwidth of 30kHz ,centered +/- 1.25 MHz from the channel center frequency should be at least 45 dB and should be at least 42 dB below the mean output power level.

DIGITAL CONDUCTED SPURIOUS AND HARMONIC EMISSIONS - GRAPH



Digital Transmitter Conduct Spurious Emissions

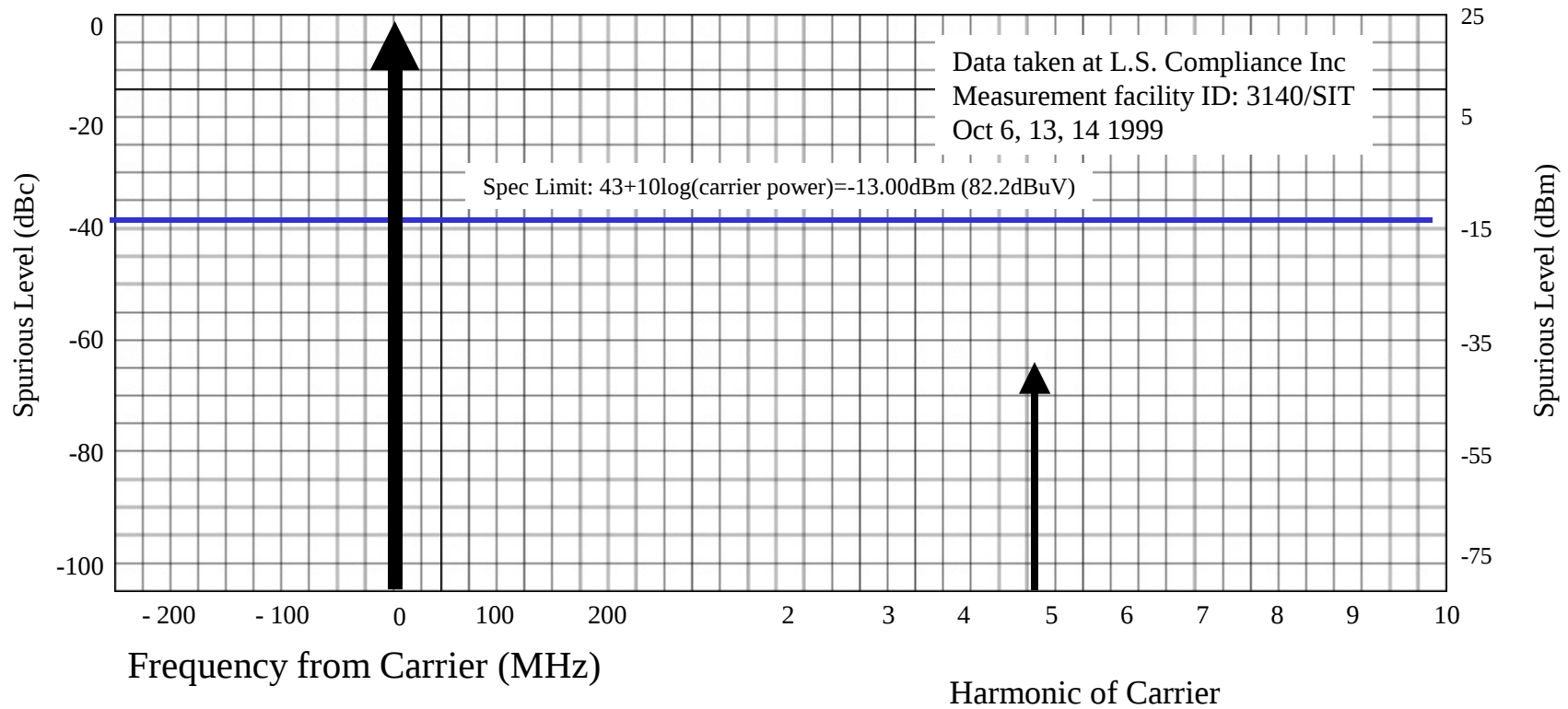
Carrier Power: 0.34W to 0.0001 mW

Carrier Frequency: 1851.25 to 1908.75 MHz in 50 kHz steps

Each reported emission reflects the highest absolute level found all power levels, channels, power amplifier configuration tested

All emissions not reported are more than 30 dB below the FCC specification

No signals greater than -80 dBm were found in the 1930 to 1990 MHz band spectrum was searched from 30 kHz to the 10th Harmonic of the transmitter

DIGITAL RADIATED SPURIOUS AND HARMONIC EMISSIONS - GRAPH**Digital Transmitter Conduct Spurious Emissions**

Carrier Power: 0.34W to 0.0001 mW

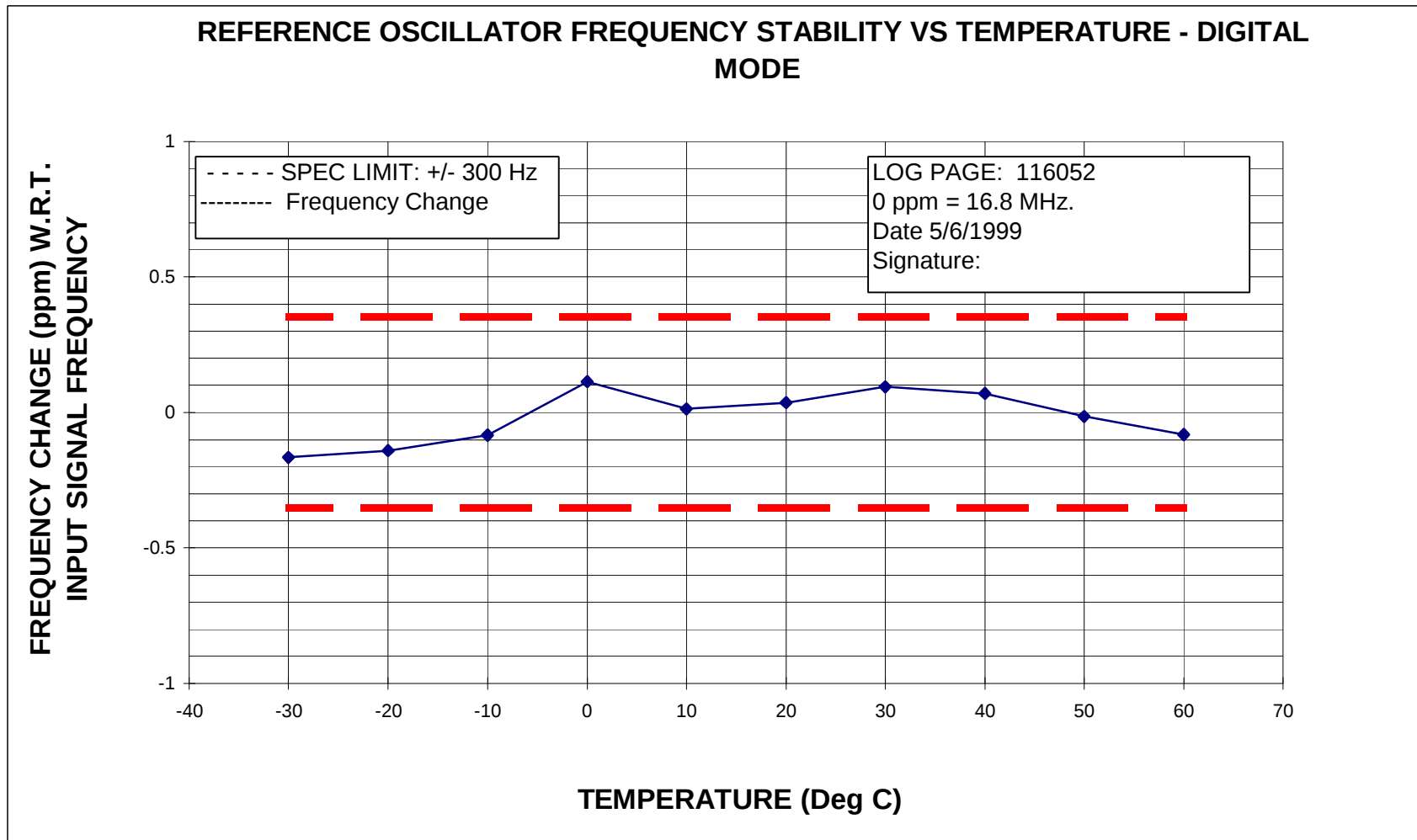
Carrier Frequency: 1851.25 to 1908.75 MHz in 50 kHz steps

Each reported emission reflects the highest absolute level found all power levels, channels, power amplifier configuration tested

All emissions not reported are more than 20 dB below the FCC specification

No signals greater than -80 dBm were found in the 1930 to 1990 MHz band spectrum was searched from 30 kHz to the 10th Harmonic of the transmitter

Frequency Change vs. Temperature (Digital Mode)-Graph



REFERENCE OSCILATOR FREQUENCY STABILITY - DIGITAL MODE

