

TEST REPORT

This exhibit contains the measured data for this equipment as follows:

EXHIBIT 7A - RF Power Output (Table)

EXHIBIT 7B - Transmit Audio Response

EXHIBIT 7C - Transmit Audio Post Limiter Lowpass Filter Response (*)

EXHIBIT 7D - Modulation Limiting Characteristics (3 Graphs) (*)

7D-1 - Carrier Squelch Mode

7D-2 - Tone Private Line (TPL) Mode

7D-3 - Digital Private Line (DPL) Mode

EXHIBIT 7E - Occupied Bandwidth (12 Spectrum Analyzer Plots)

7E-1 - 2500 Hz Audio Modulation Only

7E-2 - 2500 Hz Audio and TPL Tone Modulation

7E-3 - 2500 Hz Audio and DPL Code Modulation

7E-4 - DTMF Tones Modulation Only

7E-5 - DTMF Tones and TPL Tone Modulation

7E-6 - DTMF Tones and DPL Code Modulation

7E-7 - DTMF Tones and LTR Data Modulation

7E-8 - FSK Data Modulation Only

7E-9 - FSK Data and TPL Tone Modulation

7E-10 - FSK Data and DPL Code Modulation

7E-11 - 3600 Bauds Trunking Highspeed Data Modulation (*)

EXHIBIT 7F - Conducted Spurious Emissions (6 Graphs)

7F-1 - 40 Watts, 806.0000 MHz

7F-2 - 40 Watts, 815.4875 MHz

7F-3 - 40 Watts, 824.9750 MHz

7F-4 - 40 Watts, 851.0000 MHz

7F-5 - 40 Watts, 860.5000 MHz

7F-6 - 40 Watts, 870.0000 MHz

EXHIBIT 7G - Radiated Spurious Emissions – 40 Watts (2 Graphs)

7G-1 - 40 Watts, 815.5000 MHz

7G-2 - 40 Watts, 870.0000 MHz

EXHIBIT 7H - Frequency Stability vs. Temperature (2 Graphs) (*)

7H-1 - 806.000 MHz

7H-2 - 860.000 MHz

EXHIBIT 7J - Frequency Stability vs. Voltage (Graph) (*)

NOTE: Items marked with (*) are from filing FCC ID AZ492FT5778. That filing is referenced on each sheet for which it applies.

The supply voltage to the transmitter was set to 13.6 volts DC.

HIGH POWER SETTING, FREQUENCY 806.0000 MHz

Measured RF Output Power	39.3 Watts
Measured DC Voltage	11.77 Volts
Measured DC Current	7.41 Amperes
Measured DC Input Power	87.2 Watts

HIGH POWER SETTING, FREQUENCY 815.4875 MHz

Measured RF Output Power	41.0 Watts
Measured DC Voltage	11.79 Volts
Measured DC Current	7.33 Amperes
Measured DC Input Power:	86.4 Watts

HIGH POWER SETTING, FREQUENCY 824.9750 MHz

Measured RF Output Power	40.7 Watts
Measured DC Voltage	11.81 Volts
Measured DC Current	7.06 Amperes
Measured DC Input Power	83.3 Watts

HIGH POWER SETTING, FREQUENCY 851.0000 MHz

Measured RF Output Power	40.2 Watts
Measured DC Voltage	11.90 Volts
Measured DC Current	6.93 Amperes
Measured DC Input Power	82.4 Watts

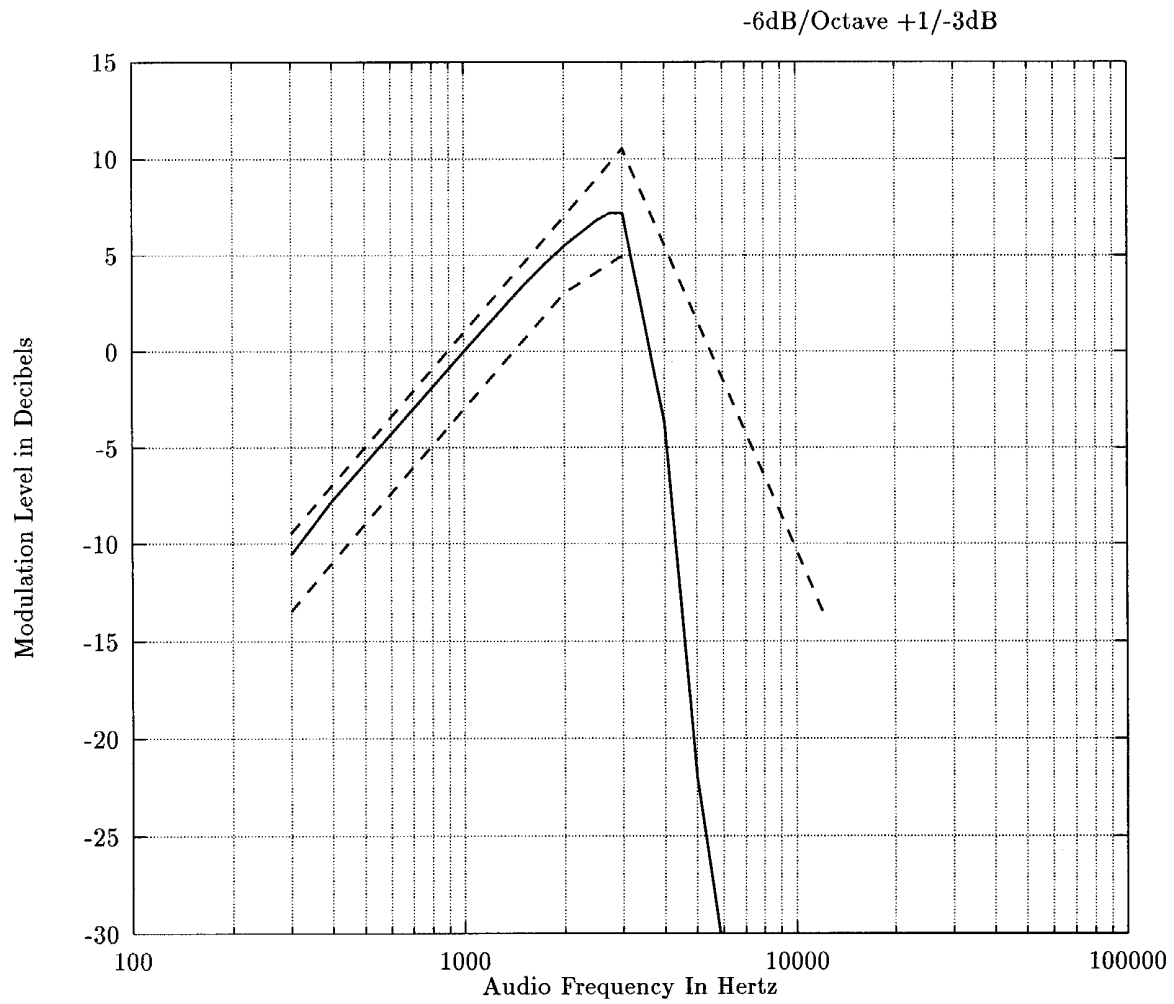
HIGH POWER SETTING, FREQUENCY 860.5000 MHz

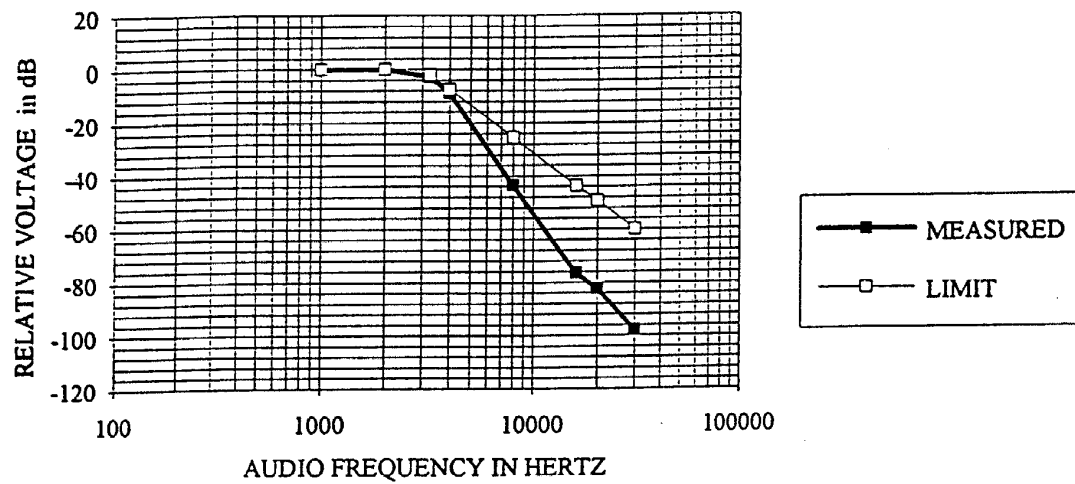
Measured RF Output Power	40.3 Watts
Measured DC Voltage	11.85 Volts
Measured DC Current	6.84 Amperes
Measured DC Input Power	81.0 Watts

HIGH POWER SETTING, FREQUENCY 870.0000 MHz

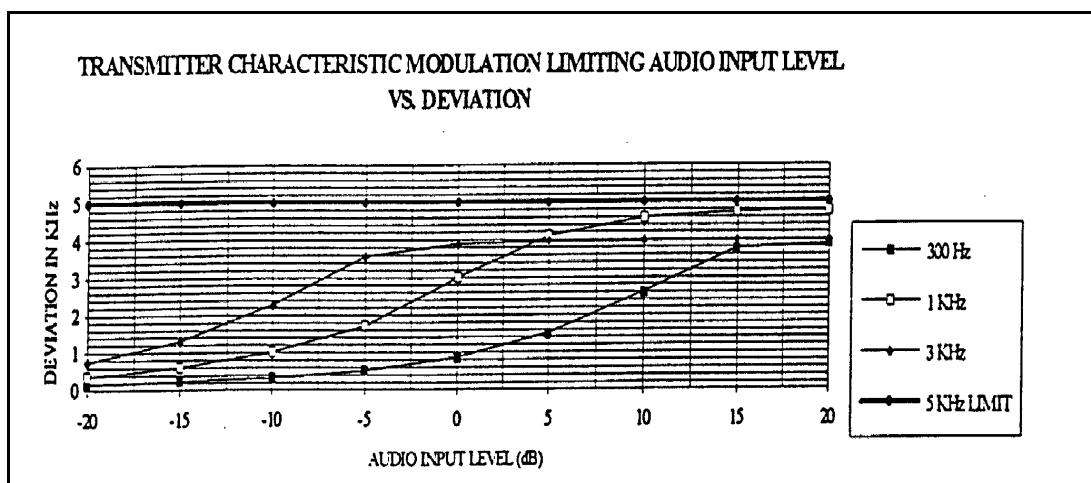
Measured RF Output Power	39.6 Watts
Measured DC Voltage	11.89Volts
Measured DC Current	6.53 Amperes
Measured DC Input Power	77.6 Watts

Transmitter Audio Response Characteristic
Modulation Level versus Audio Frequency

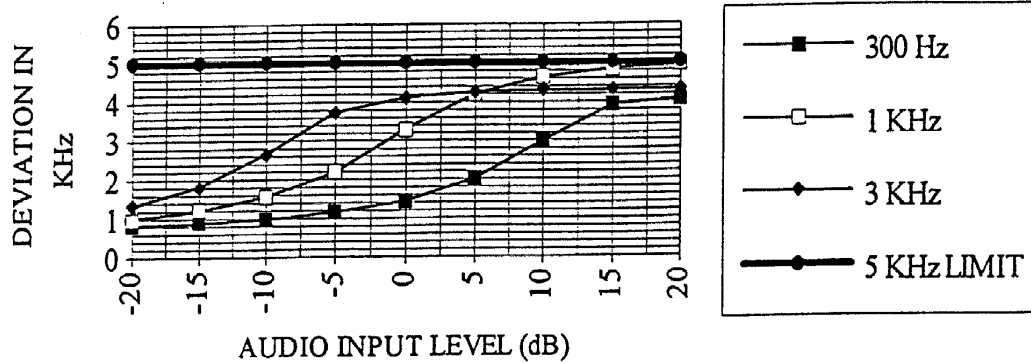


**TRANSMITTER POST LIMITER AUDIO ROLL OFF FILTER
RESPONSE**

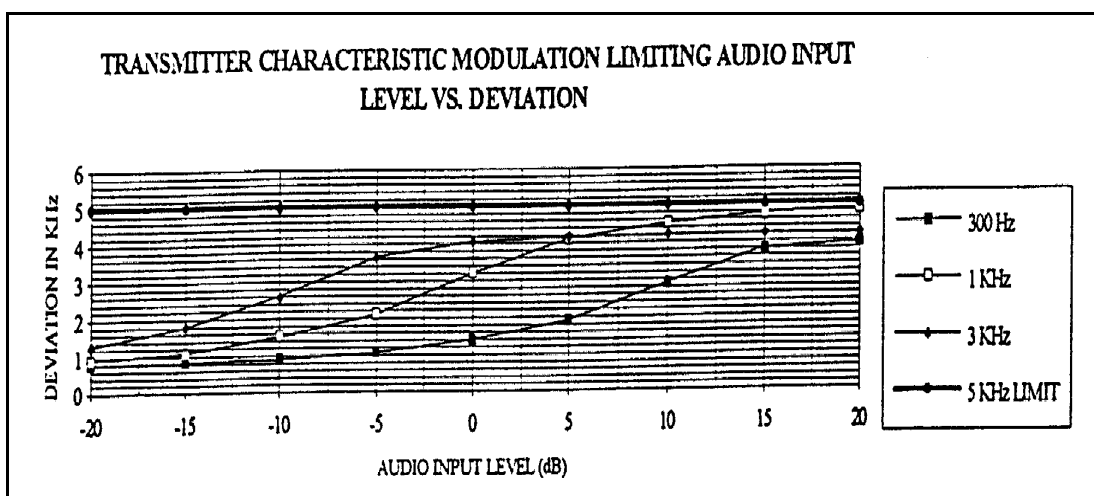
Carrier Squelch Mode (CSQ @ 806 MHz)



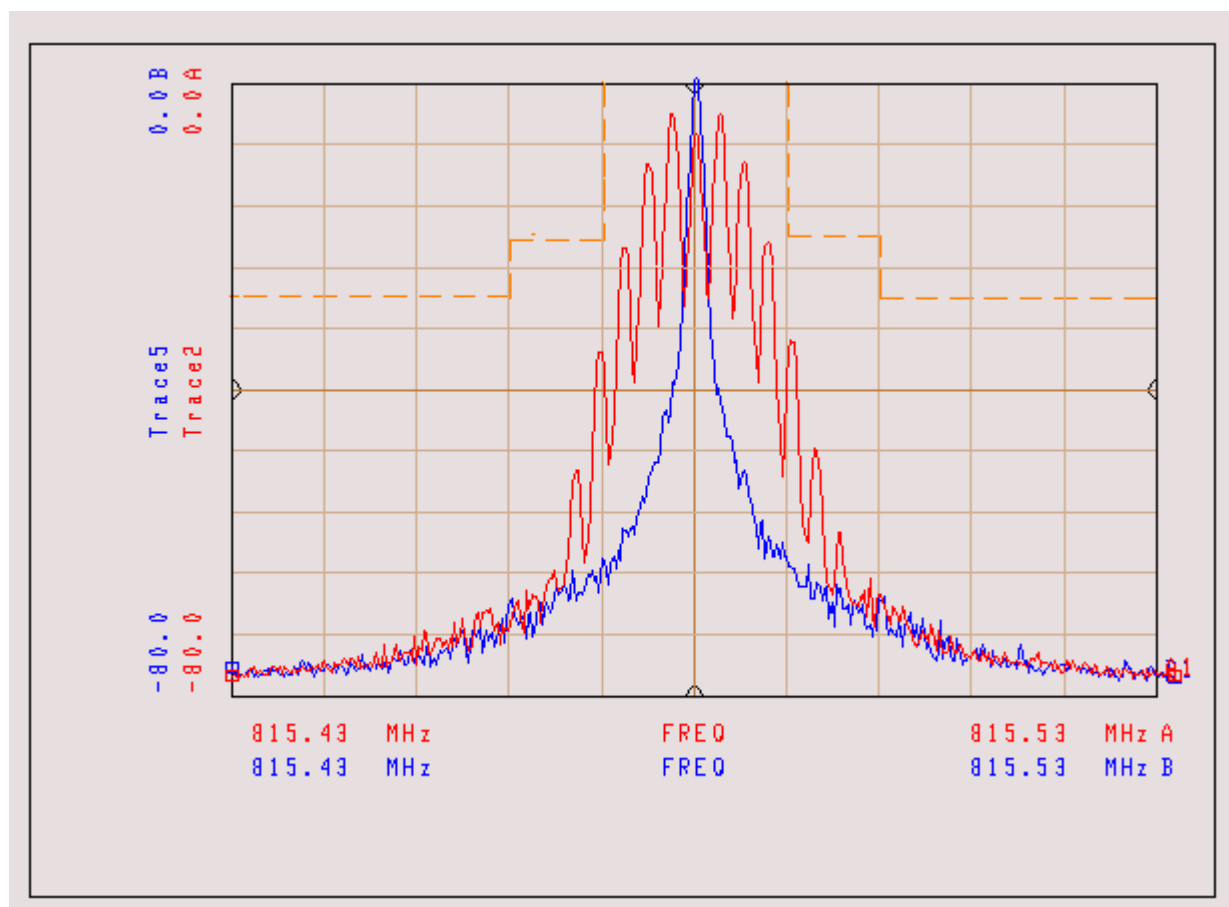
Tone Private Line Mode (TPL @ 806 MHz)

**TRANSMITTER CHARACTERISTIC
MODULATION LIMITING AUDIO INPUT LEVEL
VS. DEVIATION**

Digital Private Line Mode (DPL @ 806 MHz)

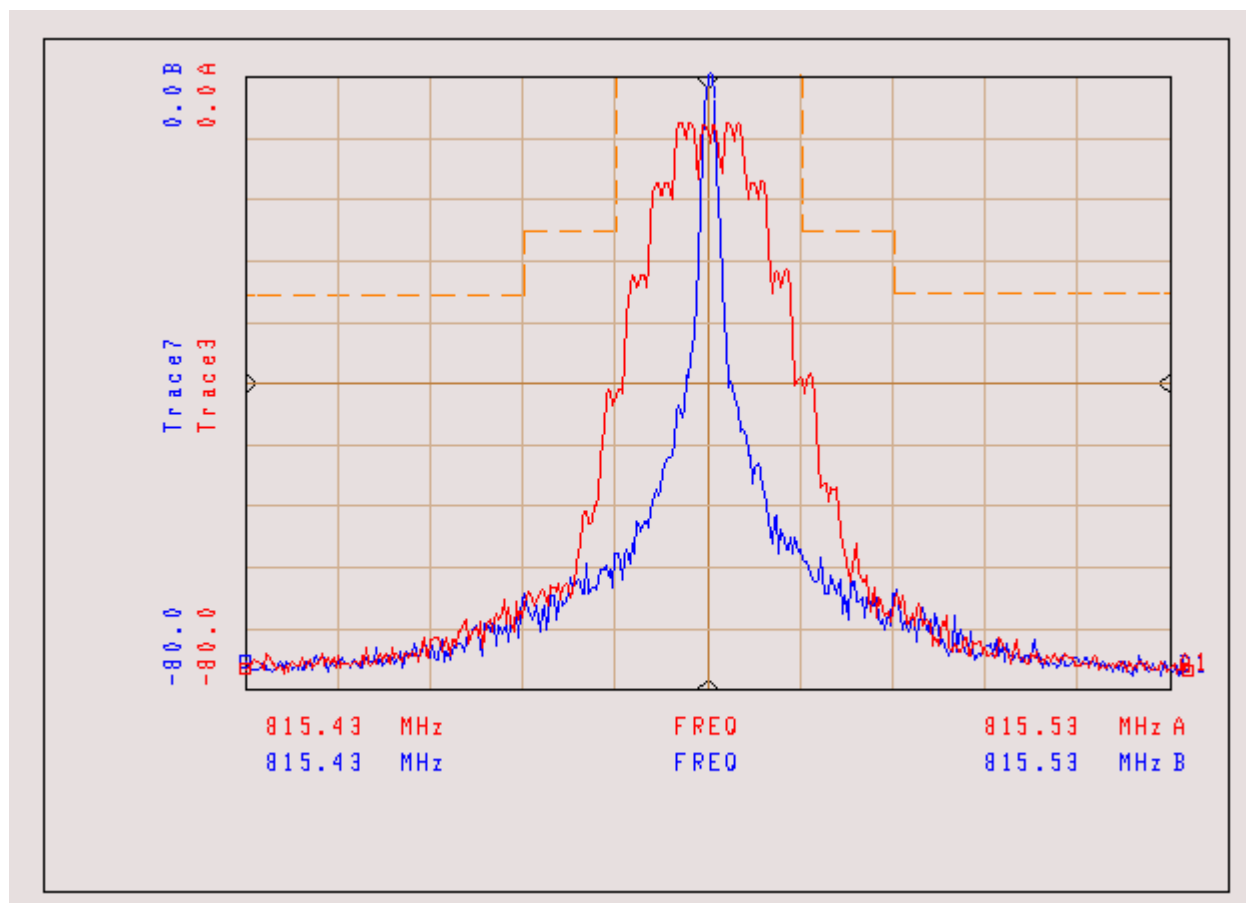


2500 Hz Audio Modulation Only



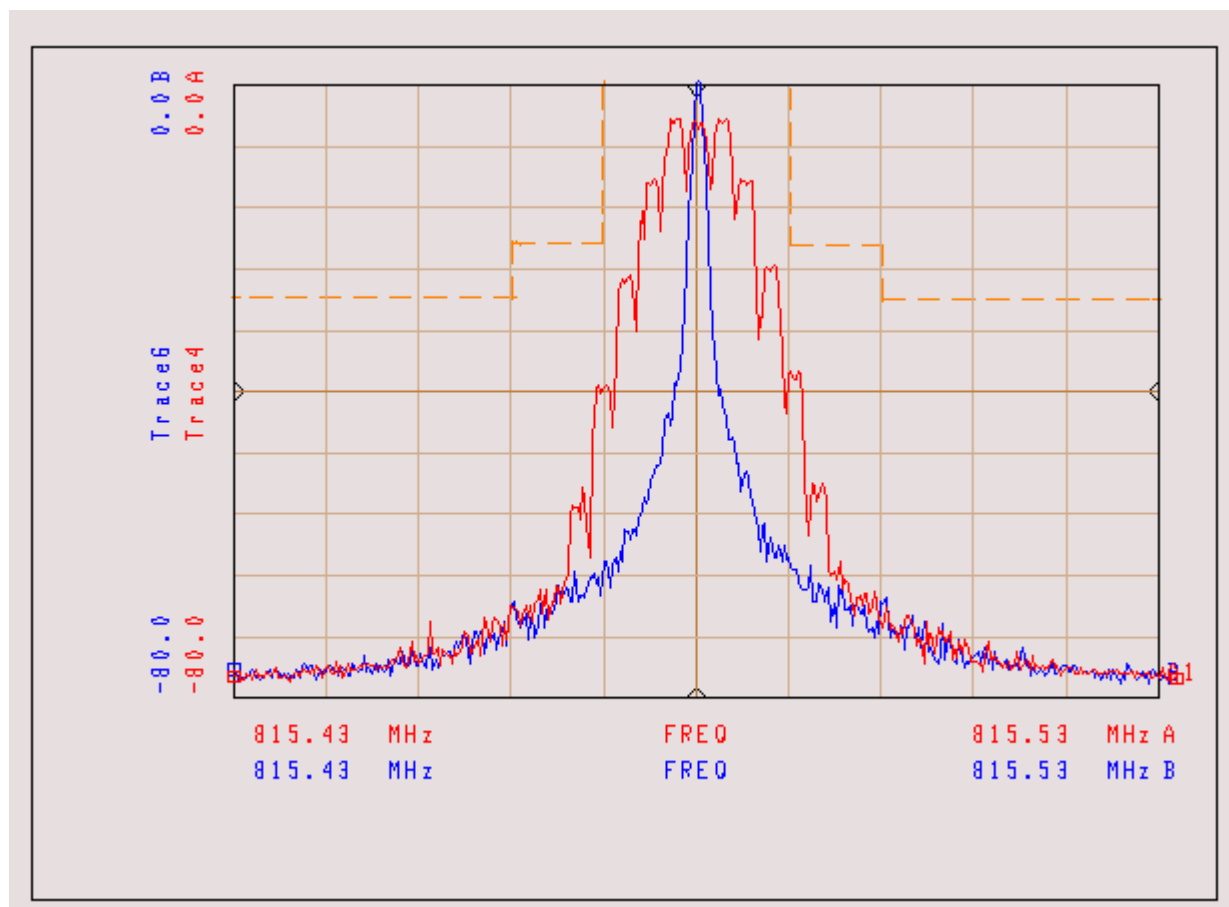
CENTER FREQUENCY: 815.4875 MHz
RESOLUTION BANDWIDTH: 300 Hz
VIDEO BANDWIDTH: 300 kHz
SPAN: 100 kHz
SWEEP TIME: 3 sec
SCALE: 10 dB/DIVISION
REFERENCE LEVEL: 0 dBm
ATTENUATOR: 10 dB

2500 Hz Audio and TPL Tone Modulation



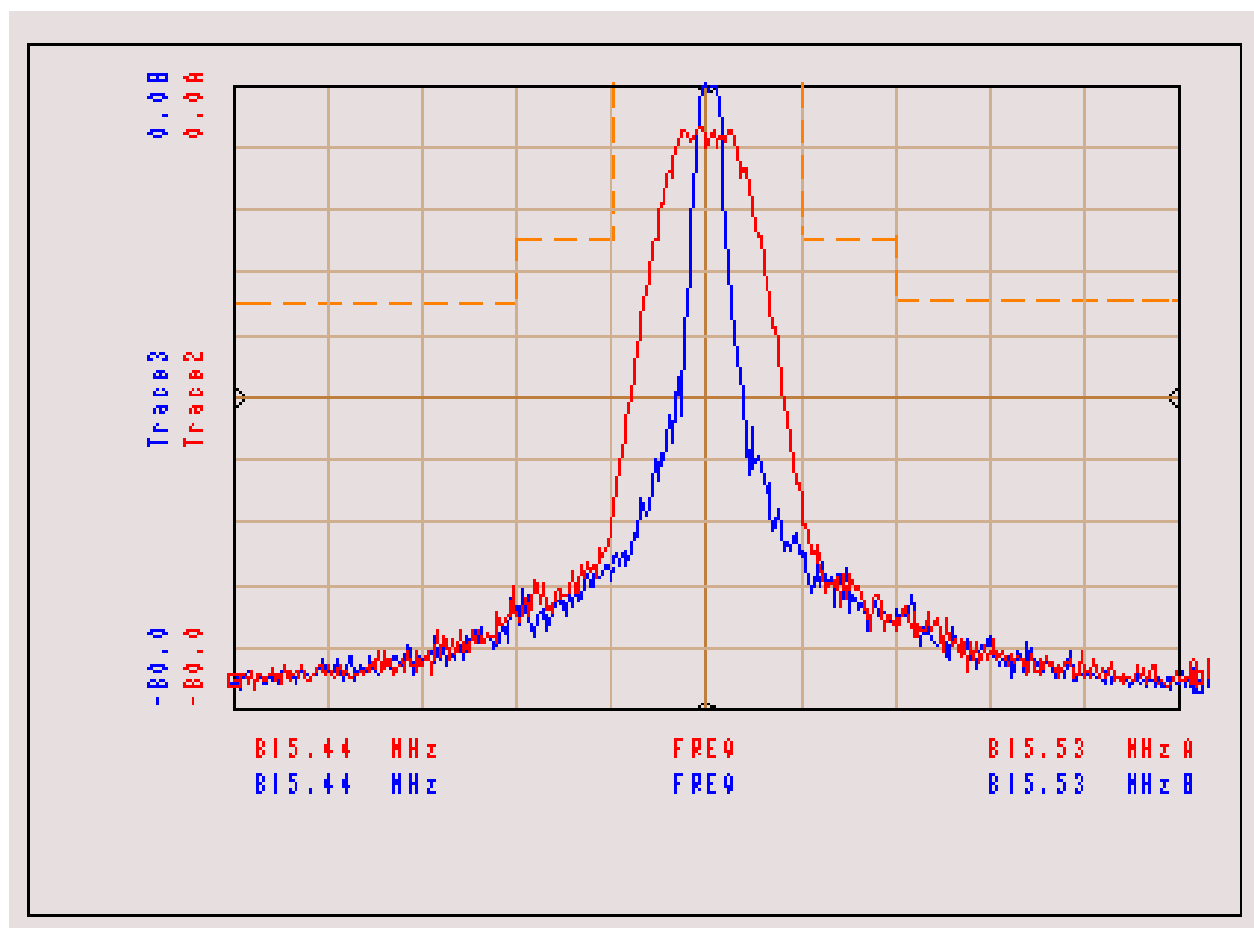
CENTER FREQUENCY: 815.4875 MHz
RESOLUTION BANDWIDTH: 300 Hz
VIDEO BANDWIDTH: 300 kHz
SPAN: 100 kHz
SWEEP TIME: 3 sec
SCALE: 10 dB/DIVISION
REFERENCE LEVEL: 0 dBm
ATTENUATOR: 10 dB

2500 Hz Audio and DPL Code Modulation



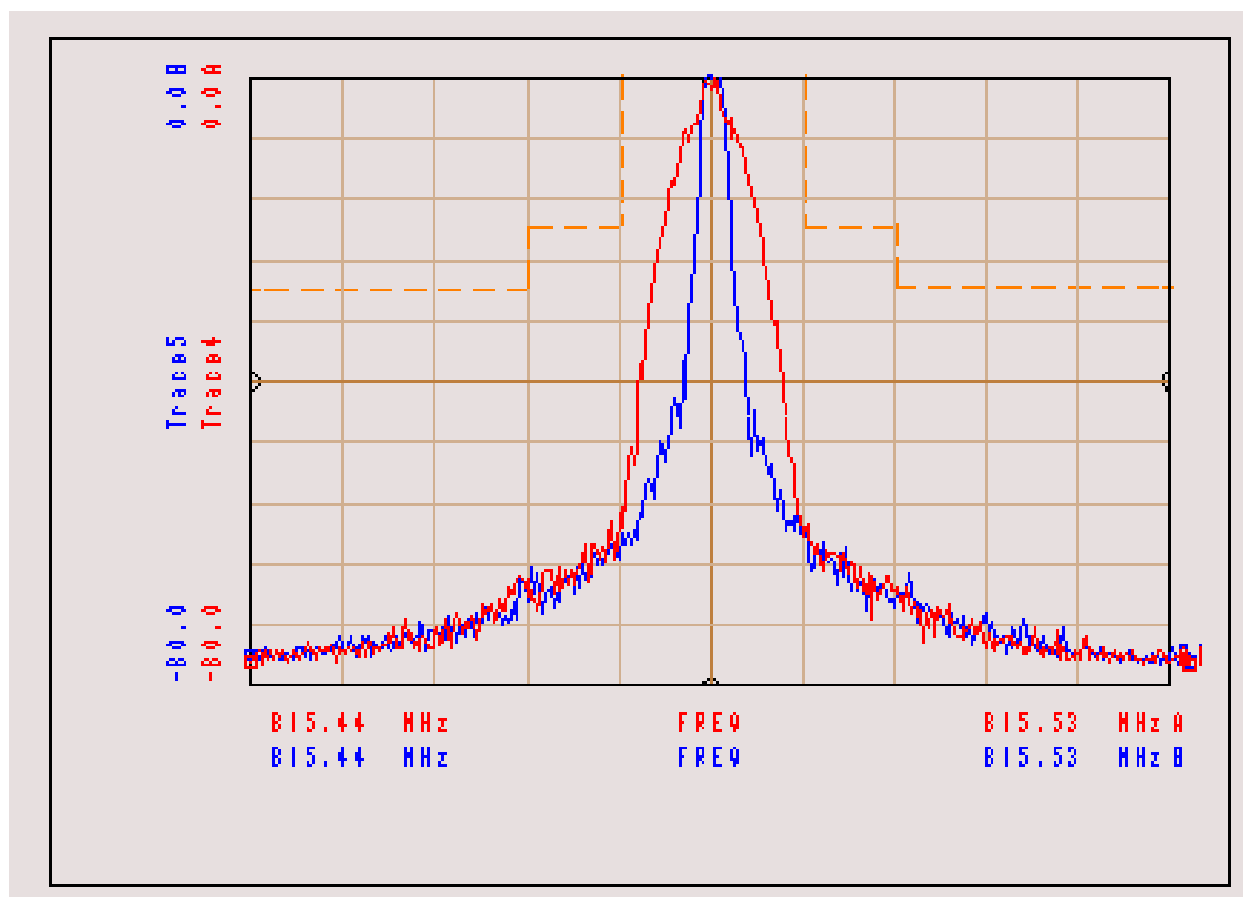
CENTER FREQUENCY: 815.4875 MHz
RESOLUTION BANDWIDTH: 300 Hz
VIDEO BANDWIDTH: 300 kHz
SPAN: 100 kHz
SWEEP TIME: 3 sec
SCALE: 10 dB/DIVISION
REFERENCE LEVEL: 0 dBm
ATTENUATOR: 10 dB

DTMF Tones Modulation Only



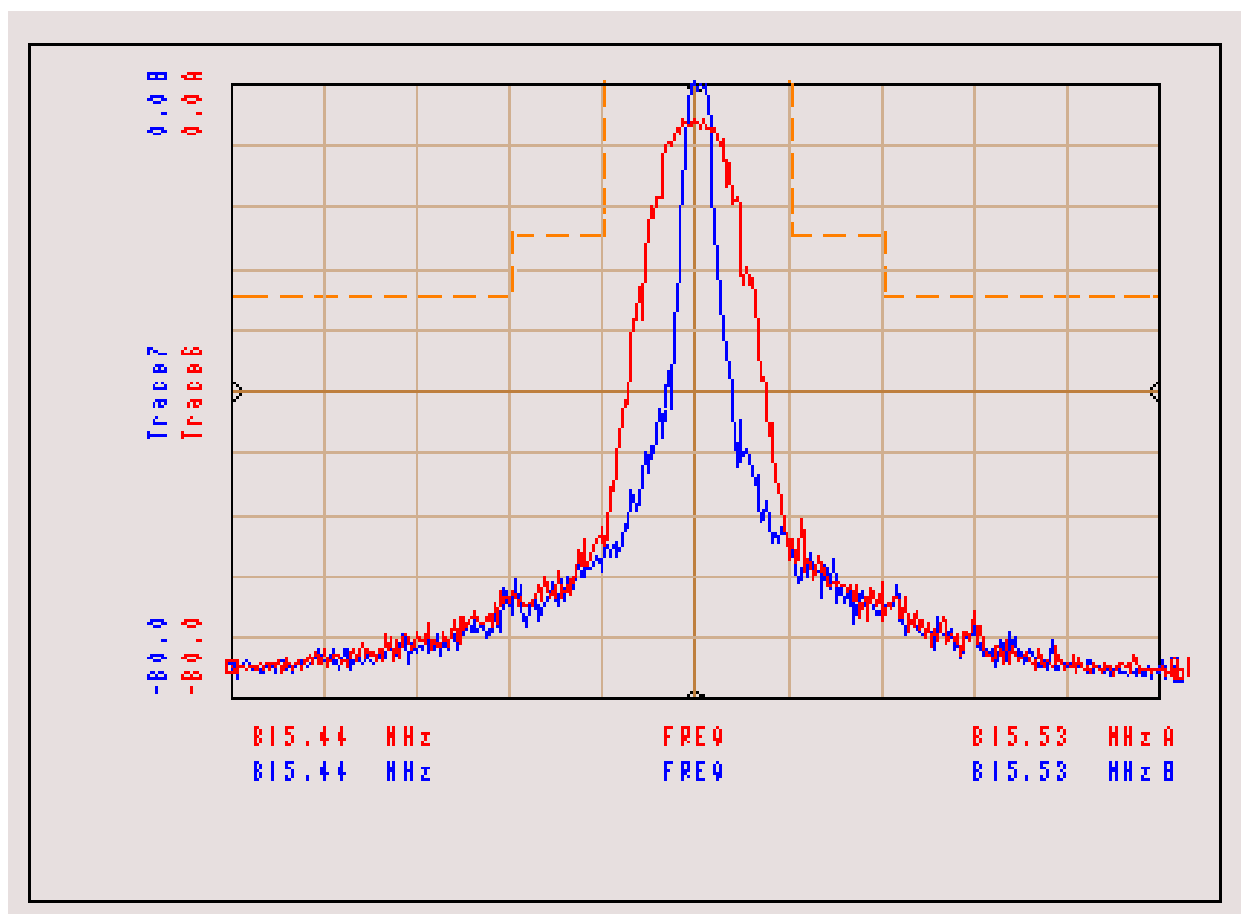
CENTER FREQUENCY: 815.4875 MHz
RESOLUTION BANDWIDTH: 300 Hz
VIDEO BANDWIDTH: 300 kHz
SPAN: 100 kHz
SWEEP TIME: 3 sec
SCALE: 10 dB/DIVISION
REFERENCE LEVEL: 0 dBm
ATTENUATOR: 10 dB

DTMF Tones and TPL Tone Modulation



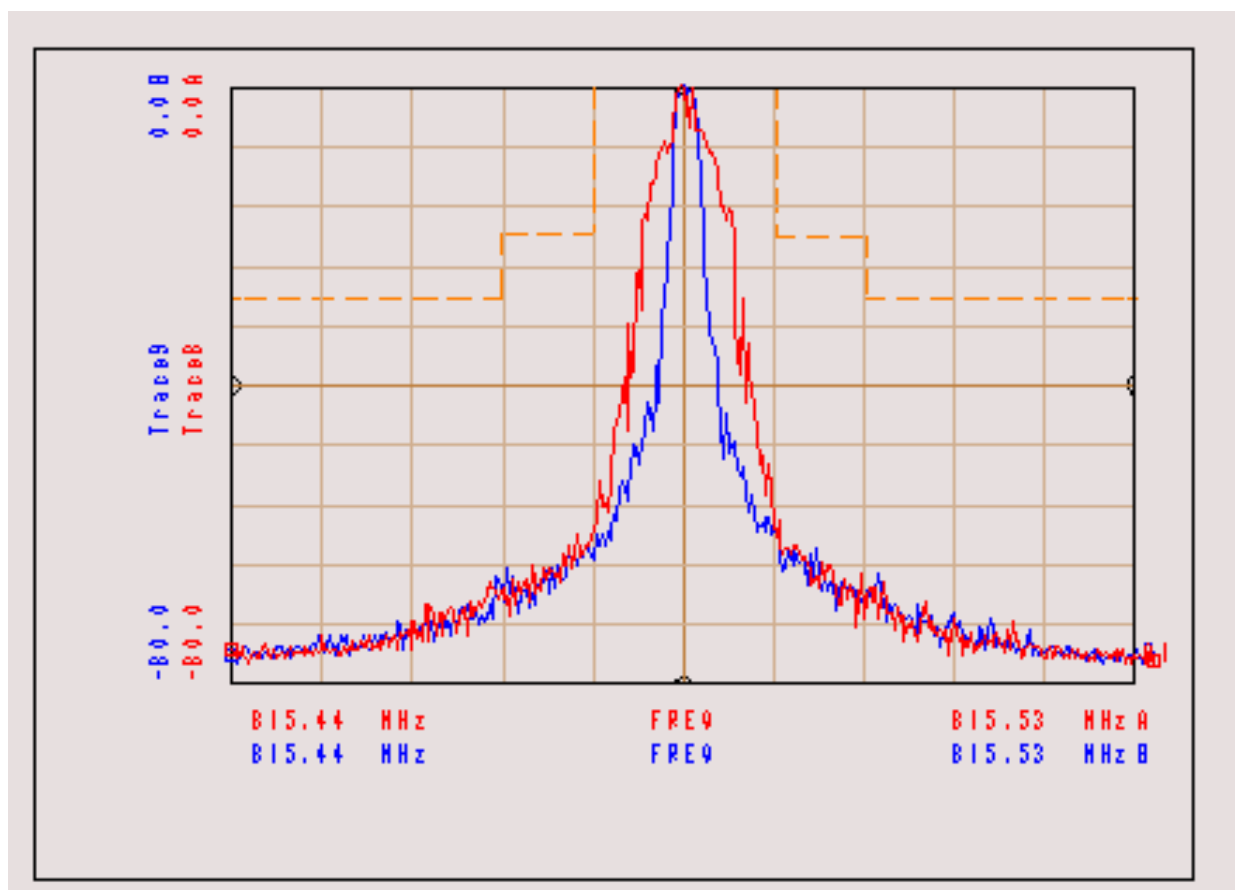
CENTER FREQUENCY: 815.4875 MHz
RESOLUTION BANDWIDTH: 300 Hz
VIDEO BANDWIDTH: 300 kHz
SPAN: 100 kHz
SWEEP TIME: 3 sec
SCALE: 10 dB/DIVISION
REFERENCE LEVEL: 0 dBm
ATTENUATOR: 10 dB

DTMF Tones and DPL Code Modulation



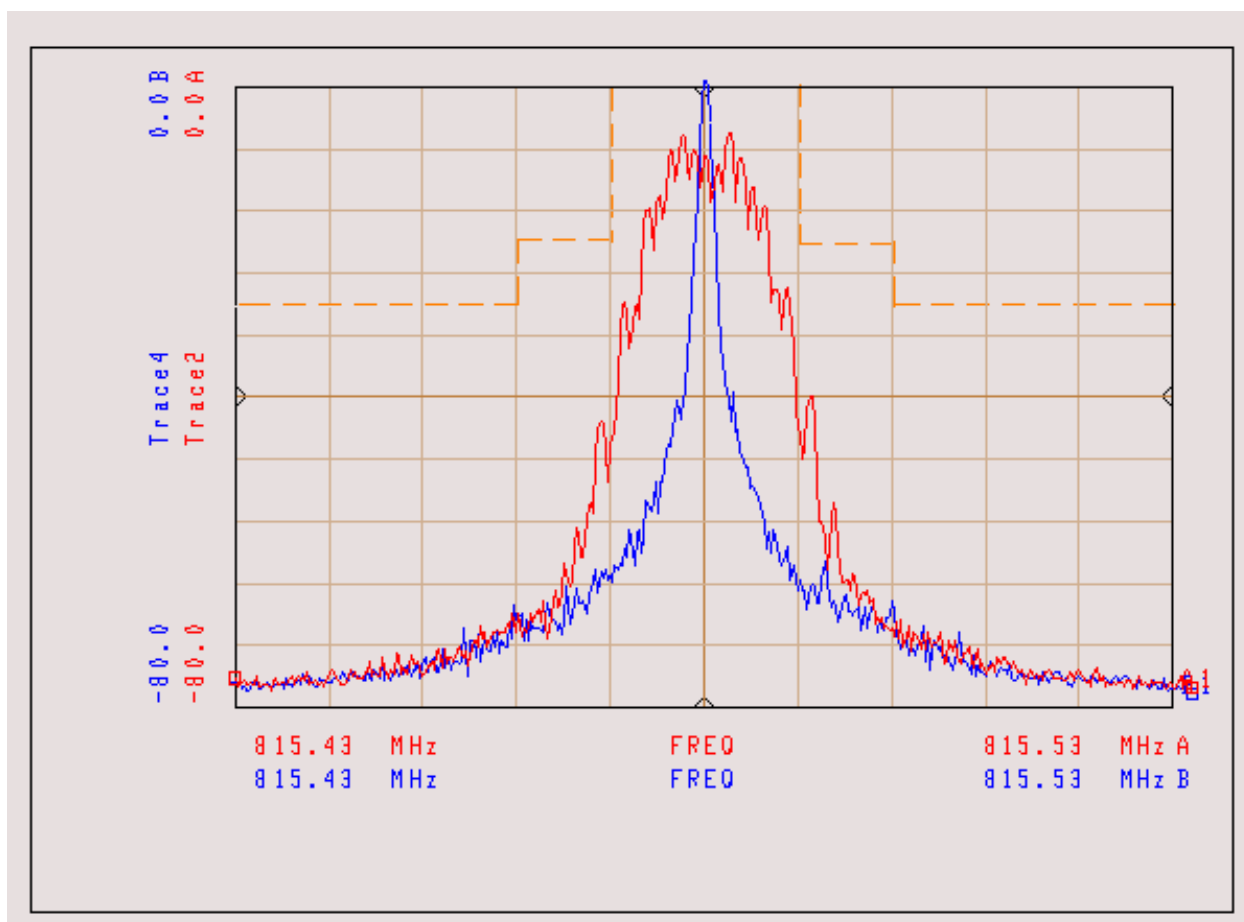
CENTER FREQUENCY: 815.4875 MHz
RESOLUTION BANDWIDTH: 300 Hz
VIDEO BANDWIDTH: 300 kHz
SPAN: 100 kHz
SWEEP TIME: 3 sec
SCALE: 10 dB/DIVISION
REFERENCE LEVEL: 0 dBm
ATTENUATOR: 10 dB

DTMF Tones and LTR Data Modulation



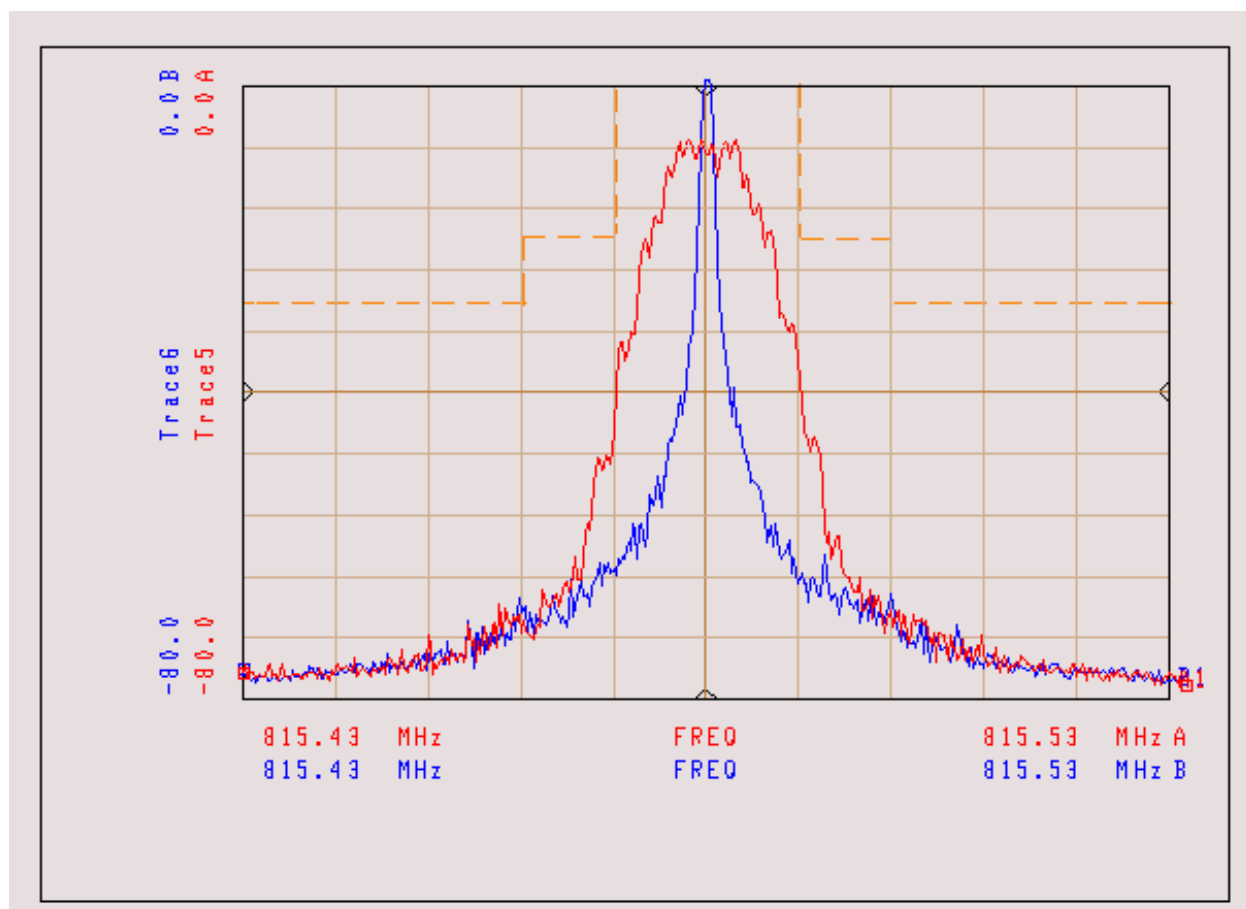
CENTER FREQUENCY: 815.4875 MHz
RESOLUTION BANDWIDTH: 300 Hz
VIDEO BANDWIDTH: 300 kHz
SPAN: 100 kHz
SWEEP TIME: 3 sec
SCALE: 10 dB/DIVISION
REFERENCE LEVEL: 0 dBm
ATTENUATOR: 10 dB

FSK Data Modulation Only



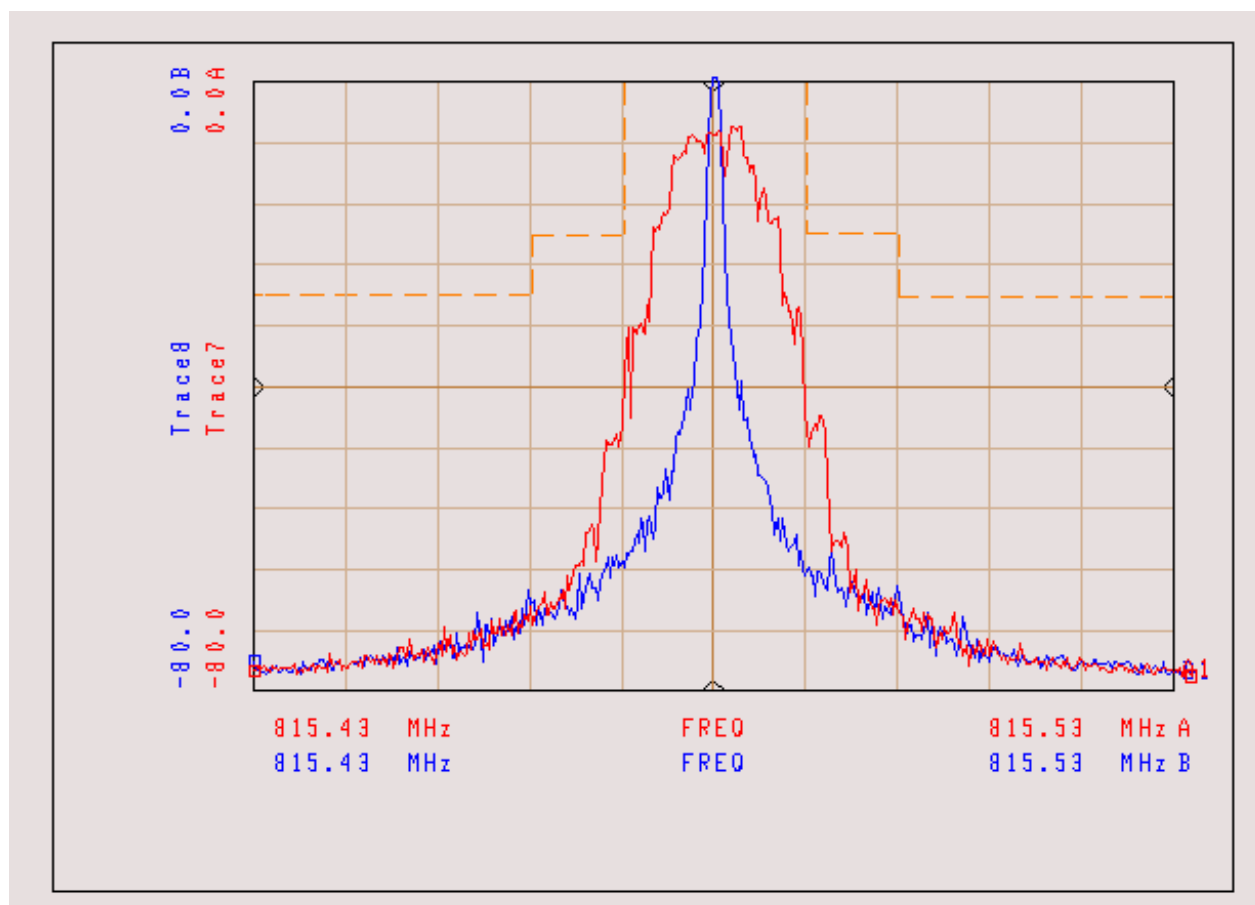
CENTER FREQUENCY: 815.4875 MHz
RESOLUTION BANDWIDTH: 300 Hz
VIDEO BANDWIDTH: 300 kHz
SPAN: 100 kHz
SWEEP TIME: 3 sec
SCALE: 10 dB/DIVISION
REFERENCE LEVEL: 0 dBm
ATTENUATOR: 10 dB

FSK Data and TPL Tone Modulation



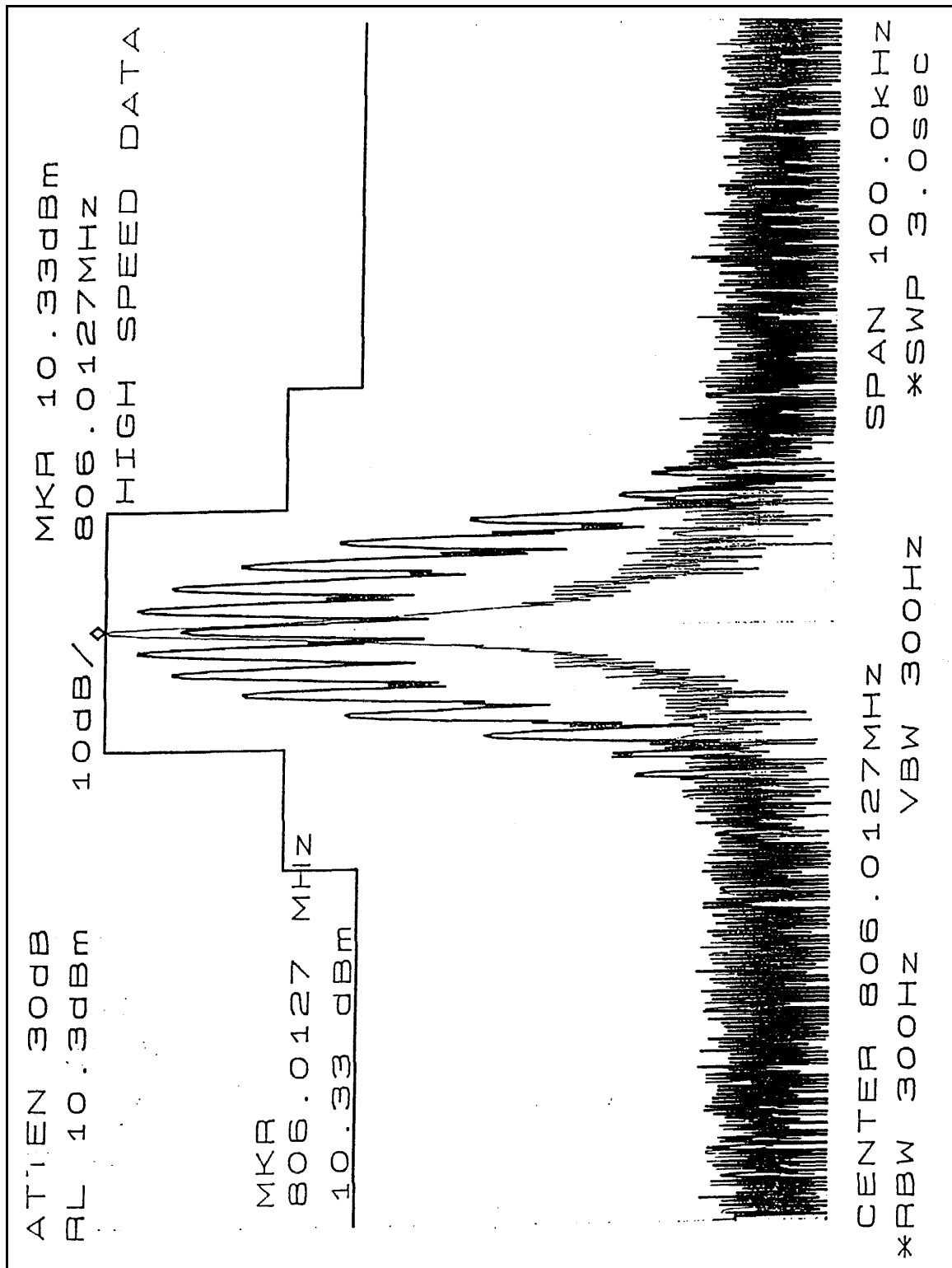
CENTER FREQUENCY: 815.4875 MHz
RESOLUTION BANDWIDTH: 300 Hz
VIDEO BANDWIDTH: 300 kHz
SPAN: 100 kHz
SWEEP TIME: 3 sec
SCALE: 10 dB/DIVISION
REFERENCE LEVEL: 0 dBm
ATTENUATOR: 10 dB

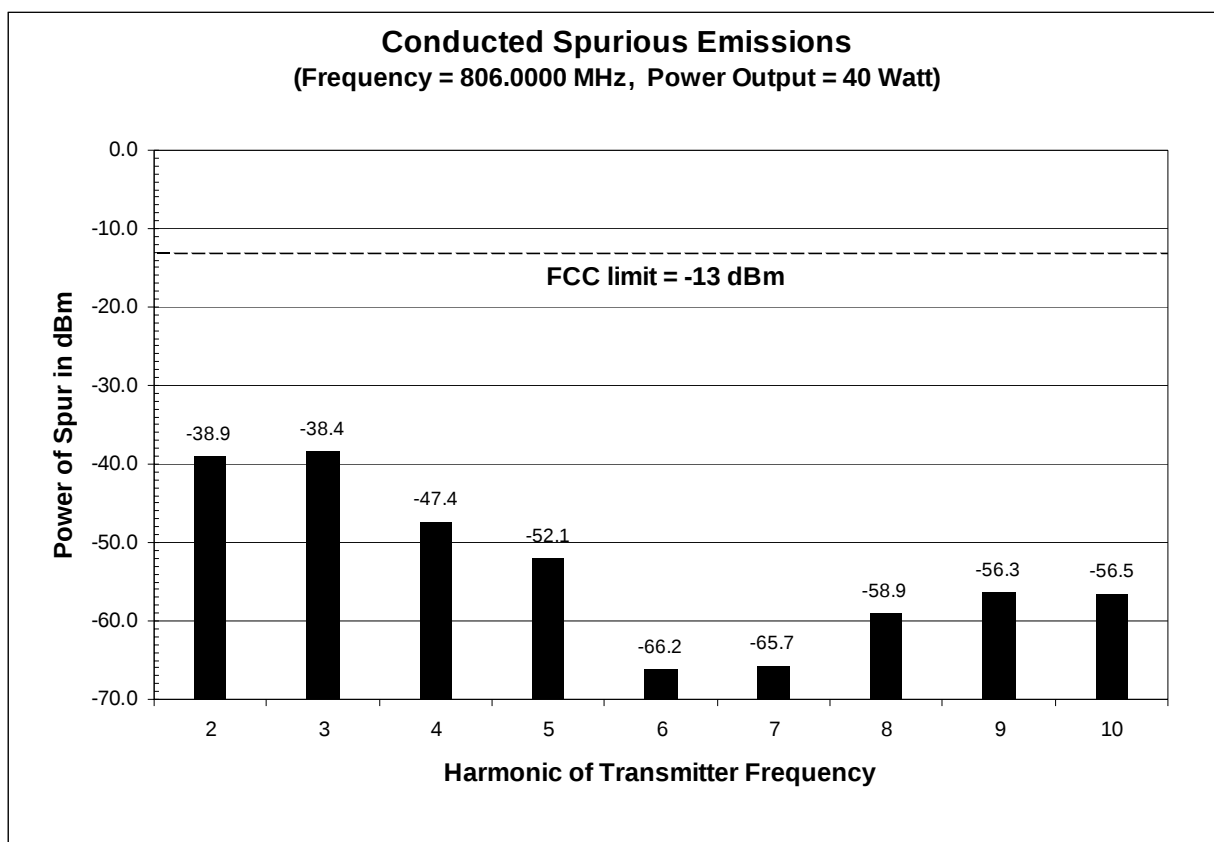
FSK Data and DPL Code Modulation

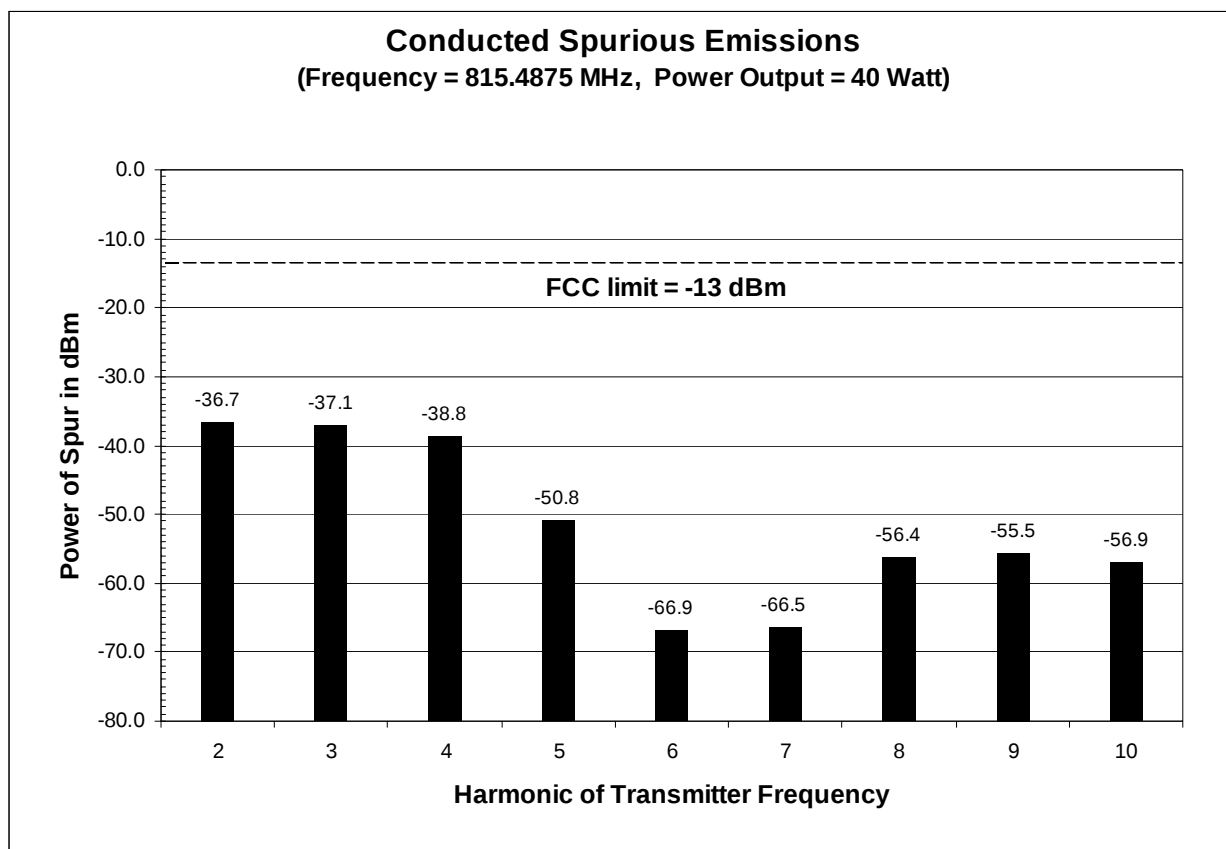


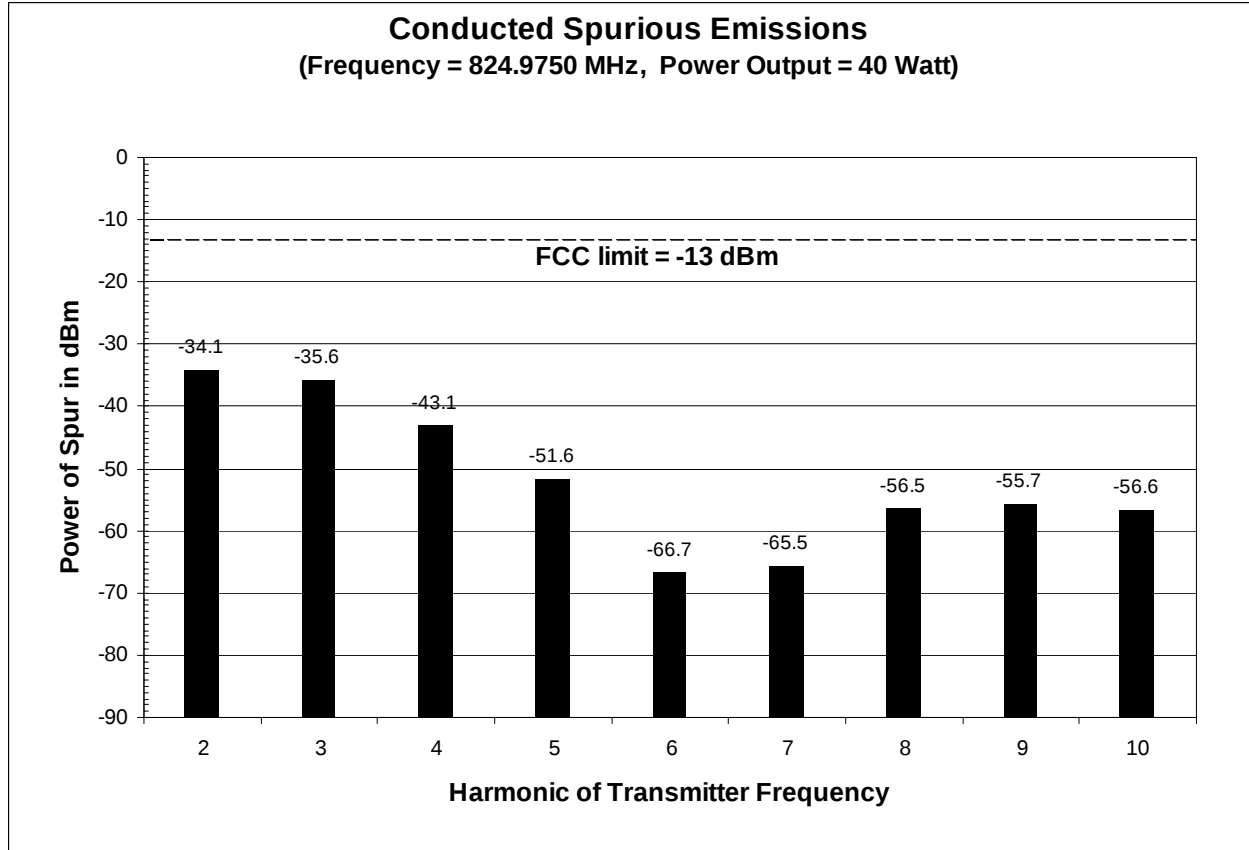
CENTER FREQUENCY: 815.4875 MHz
RESOLUTION BANDWIDTH: 300 Hz
VIDEO BANDWIDTH: 300 kHz
SPAN: 100 kHz
SWEEP TIME: 3 sec
SCALE: 10 dB/DIVISION
REFERENCE LEVEL: 0 dBm
ATTENUATOR: 10 dB

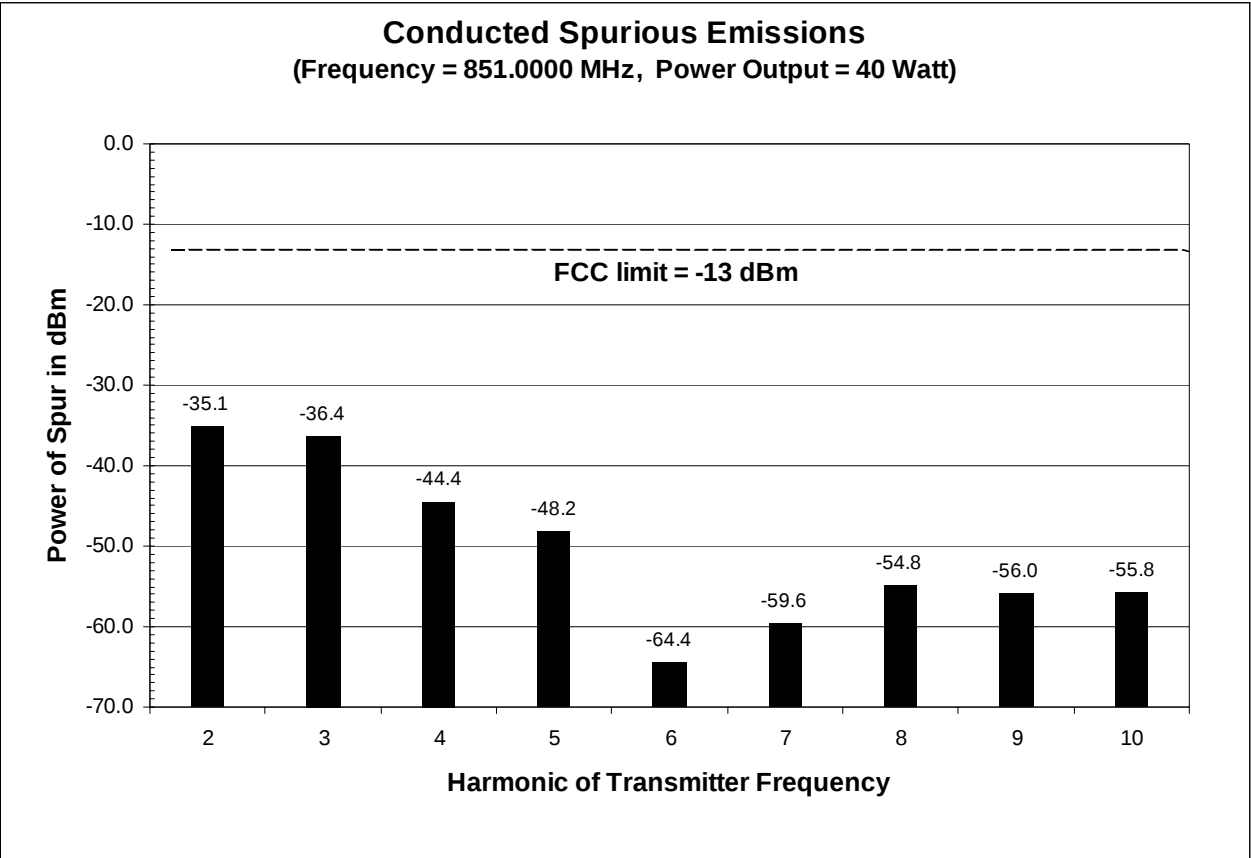
3600 Bauds Trunking Highspeed Data Modulation

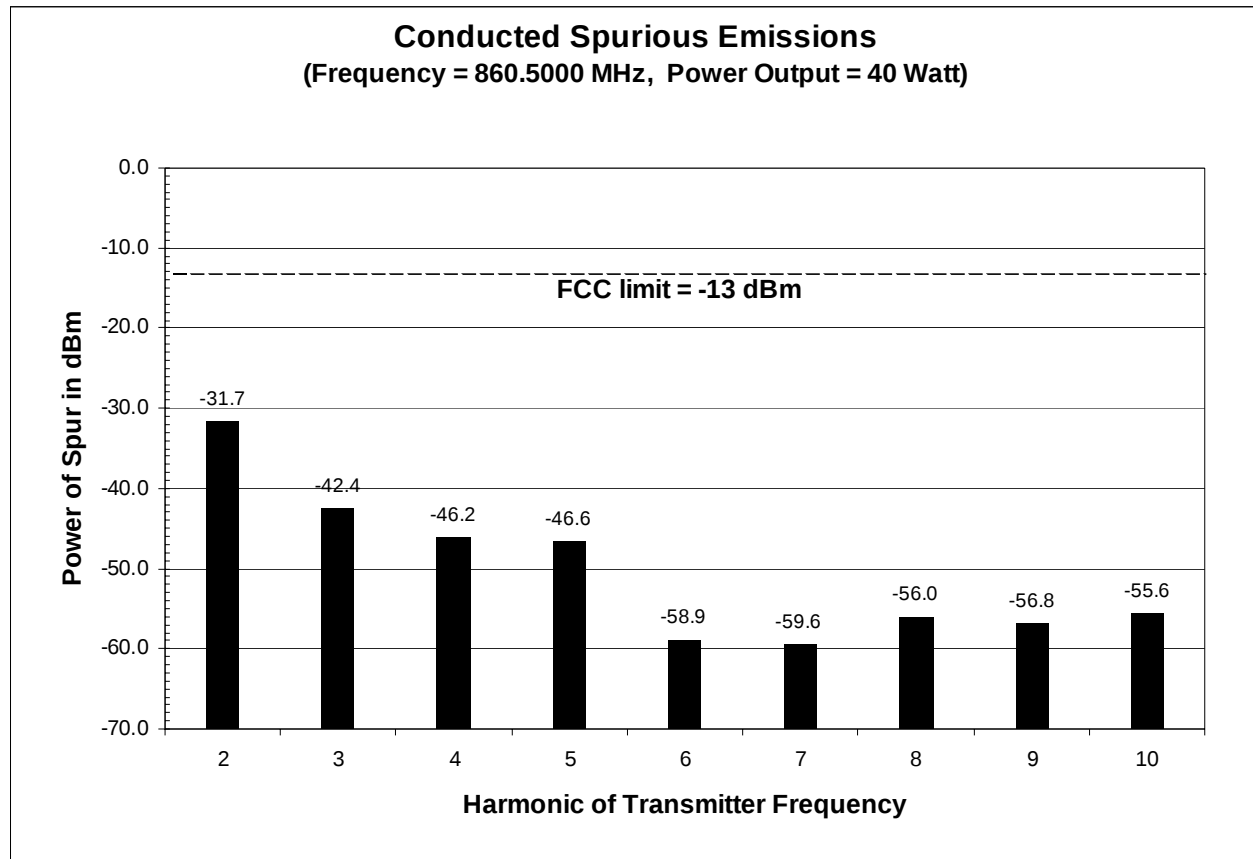


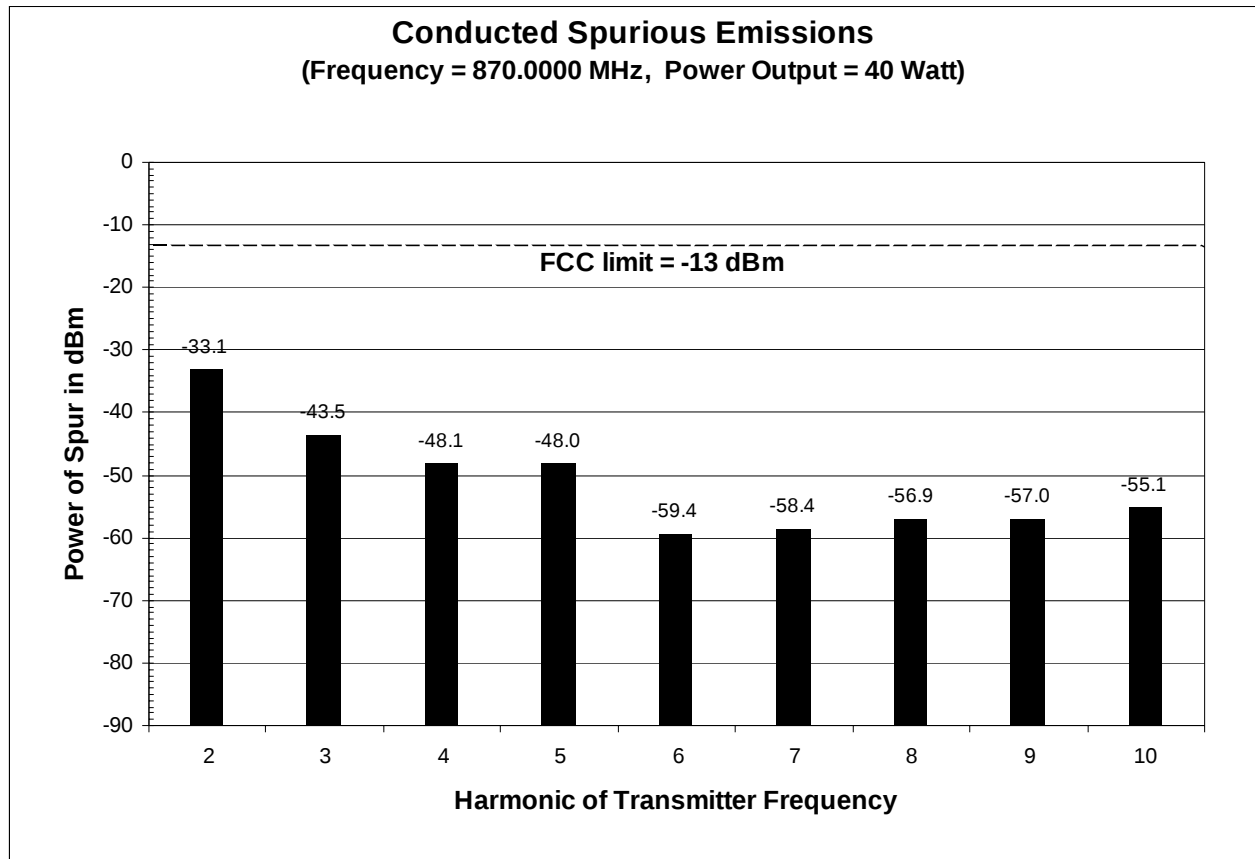


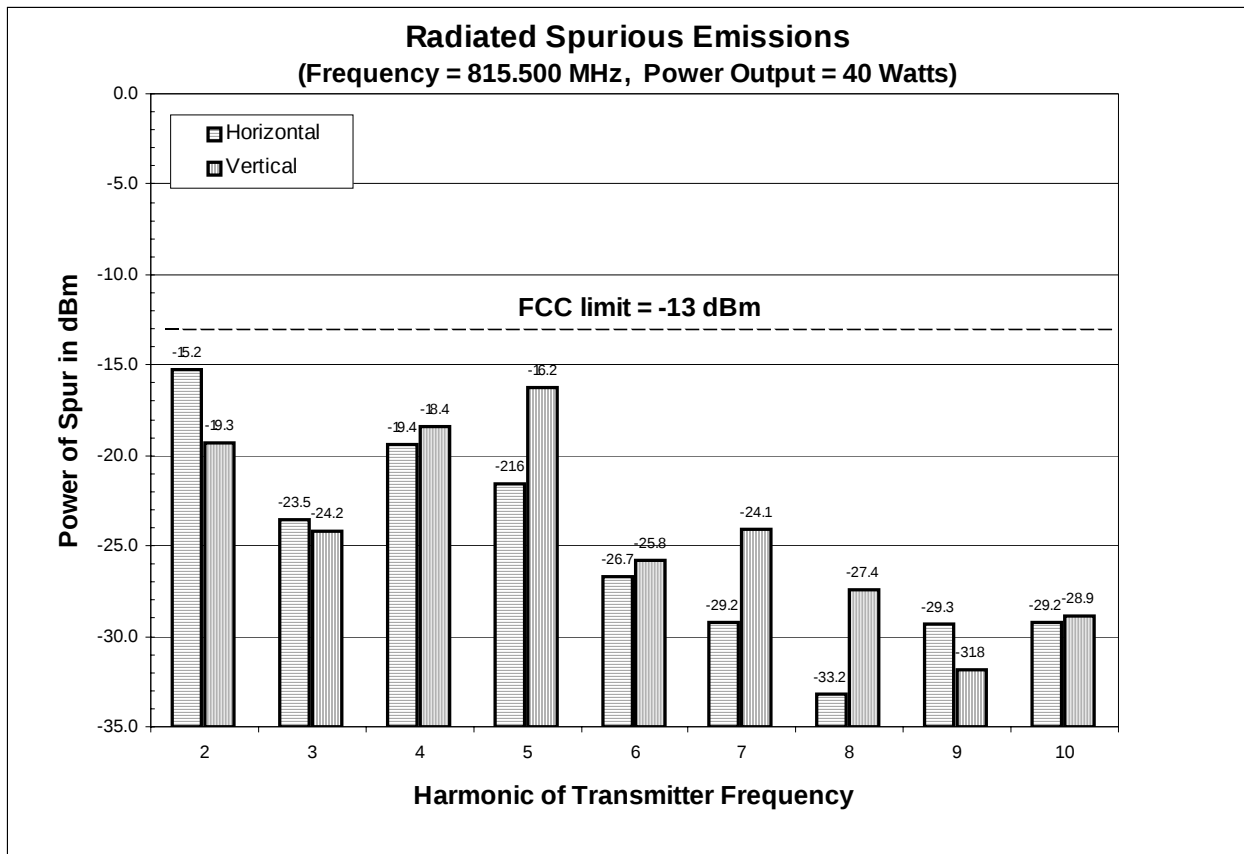


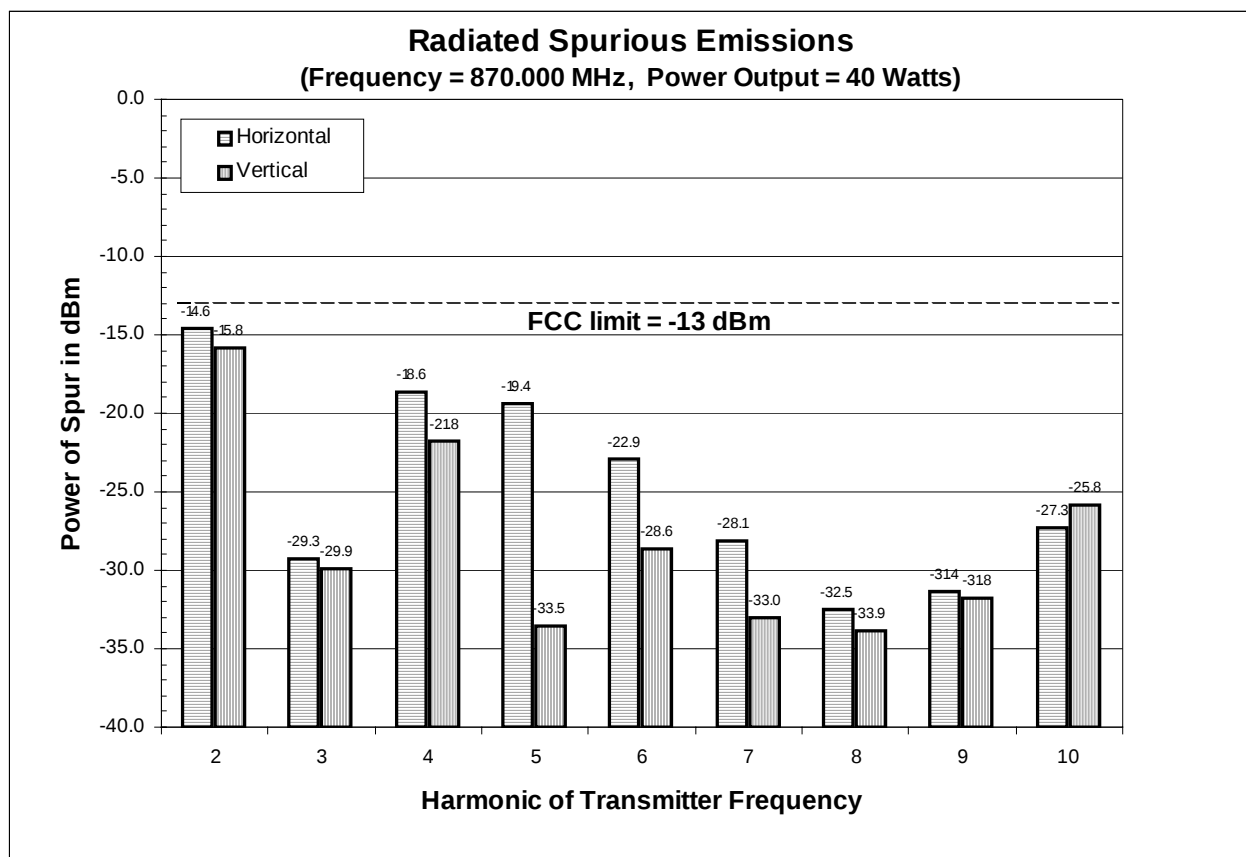




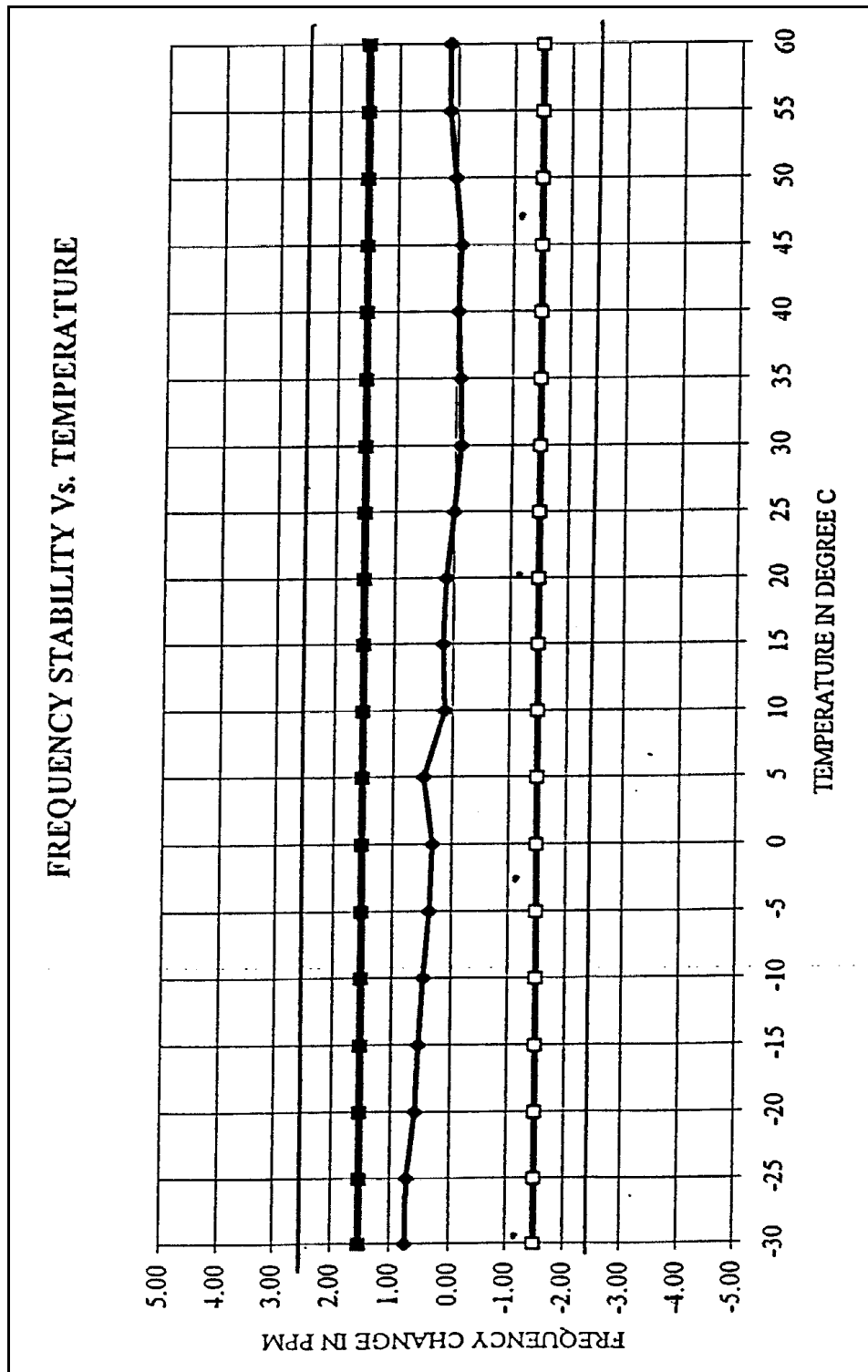






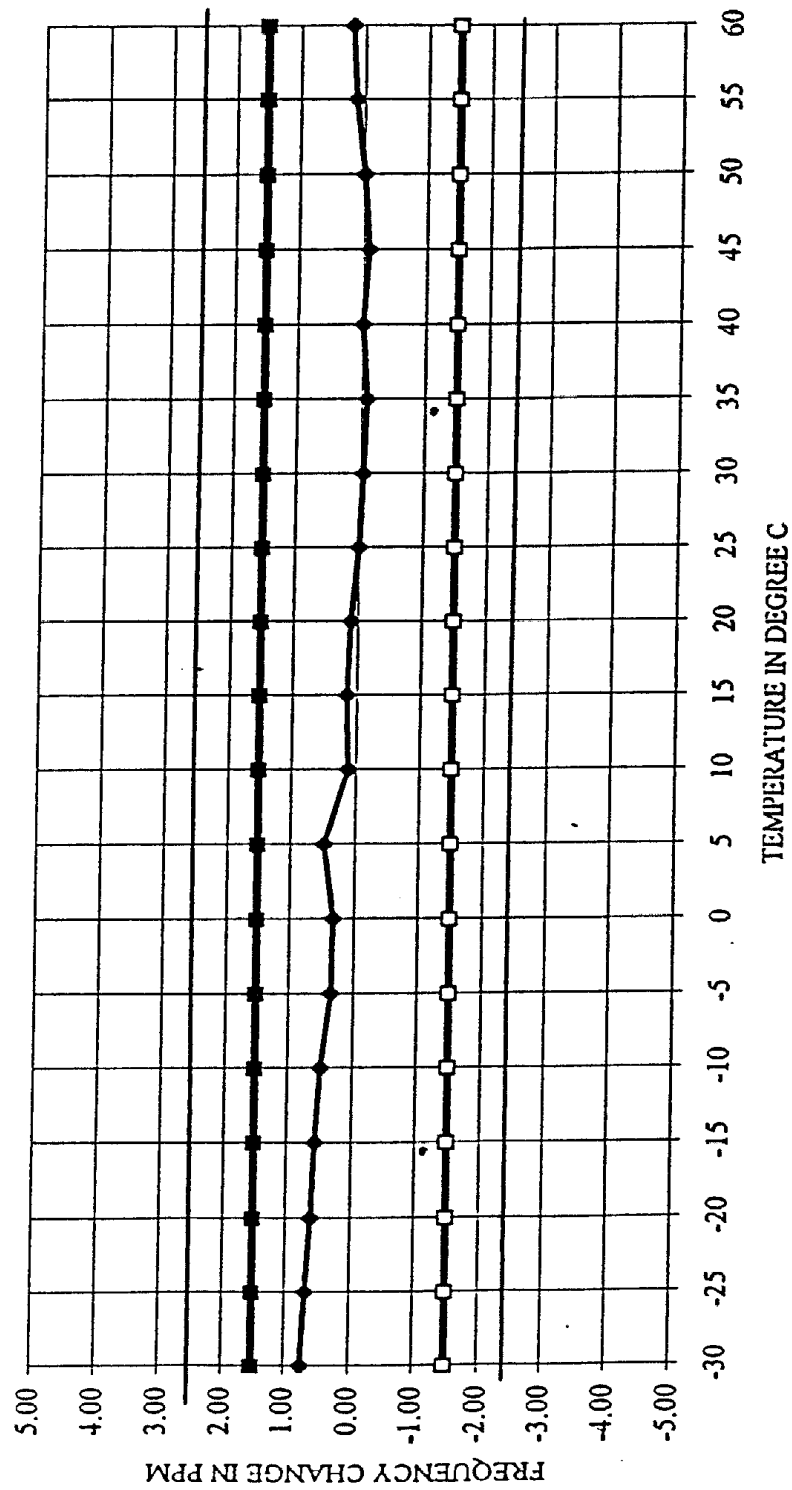


FREQUENCY STABILITY vs. TEMPERATURE (806 MHz)



FREQUENCY STABILITY vs. TEMPERATURE (860 MHz)

FREQUENCY STABILITY vs. TEMPERATURE



FREQUENCY STABILITY vs. VOLTAGE

