

**Applicant:** Motorola, Inc.

**Equipment Type:** ABZ99FT4046

**Index To Submitted Measured Data**

This exhibit contains, on the following pages, the measured data for this equipment as follows:

**EXHIBIT 6A** - RF Power Output (Table)

**EXHIBIT 6B** - Transmit Audio Response (2 Graphs)\*

6B-1 - 12.5 kHz Channel Spacing

6B-2 - 25 kHz Channel Spacing

**EXHIBIT 6C** - Transmit Audio Post-Limiter Low-Pass Filter Response (2 Graphs)\*

6C-1 - 12.5 kHz Channel Spacing

6C-2 - 25 kHz Channel Spacing

**EXHIBIT 6D** - Modulation Limiting Characteristics (6 Graphs)\*

6D-1 - 25 kHz Channel Spacing, Carrier Squelch Mode

6D-2 - 25 kHz Channel Spacing, Private Line (PL) Mode

6D-3 - 25 kHz Channel Spacing, Digital Private Line (DPL) Mode

6D-4 - 12.5 kHz Channel Spacing, Carrier Squelch Mode

6D-5 - 12.5 kHz Channel Spacing, Private Line (PL) Mode

6D-6 - 12.5 kHz Channel Spacing, Digital Private Line (DPL) Mode

**EXHIBIT 6E** - Occupied Bandwidth (18 Spectrum Analyzer Plots)\*

6E-1 - 12.5 kHz 2500 Hz Audio Modulation Only

6E-2 - 12.5 kHz 2500 Hz Audio and PL Tone Modulation

6E-3 - 12.5 kHz 2500 Hz Audio and DPL Modulation

6E-4 - 12.5 kHz DTMF Modulation Only

6E-5 - 12.5 kHz DTMF Modulation and PL Tone Modulation

6E-6 - 12.5 kHz DTMF Modulation and DPL Modulation

6E-7 - 12.5 kHz 2000/3000 Hz FSK Data Modulation Only

6E-8 - 12.5 kHz 2000/3000 Hz FSK Data and PL Tone Modulation

6E-9 - 12.5 kHz 2000/3000 Hz FSK Data and DPL Tone Modulation

6E-10 - 25 kHz 2500 Hz Audio Modulation Only

6E-11 - 25 kHz 2500 Hz Audio and PL Tone Modulation

6E-12 - 25 kHz 2500 Hz Audio and DPL Modulation

6E-13 - 25 kHz DTMF Modulation Only

6E-14 - 25 kHz DTMF Modulation and PL Tone Modulation

6E-15 - 25 kHz DTMF Modulation and DPL Modulation

6E-16 - 25 kHz 2000/3000 Hz FSK Data Modulation Only

6E-17 - 25 kHz 2000/3000 Hz FSK Data and PL Tone Modulation

6E-18 - 25 kHz 2000/3000 Hz FSK Data and DPL Tone Modulation

**EXHIBIT 6F** - Conducted Spurious Emissions (6 Graphs)

6F-1 - 30 Watts, 450.000 MHz

6F-2 - 30 Watts, 462.000 MHz

6F-3 - 30 Watts, 474.000 MHz

6F-4 - 10 Watts, 450.000 MHz

6F-5 - 10 Watts, 462.000 MHz

6F-6 - 10 Watts, 474.000 MHz

**Applicant:** Motorola, Inc.

**Equipment Type:** ABZ99FT4046

**Index To Submitted Measured Data (continued)**

**EXHIBIT 6G** - Radiated Spurious Emissions (4 Graphs)

6G-1 - 30 Watts, 462.000 MHz, Horizontal

6G-2 - 30 Watts, 462.000 MHz, Vertical

**EXHIBIT 6H** - Frequency Stability vs. Temperature (Graph)\*

**EXHIBIT 6J** - Frequency Stability vs. Voltage (Graph)\*

**EXHIBIT 6K** - Transient Frequency Behavior (4 Graphs)\*

6K-1 - 12.5 kHz Key-Up Attack Time

6K-2 - 12.5 kHz De-Key Attack Time

6K-3 - 25 kHz Key-Up Attack Time

6K-4 - 25 kHz De-Key Attack Time

NOTE: Items marked with (\*) are from FCC filing ID ABZ99FT4044

**Applicant:** Motorola, Inc.

**Equipment Type:** ABZ99FT4046

**RF Power Output - Measured Data**

The supply voltage to the transmitter was set to 13.6 volts DC. The RF output power was measured with the indicated voltage and current applied into the final RF amplifying device.

**HIGH-POWER SETTING, FREQUENCY 450.000 MHz**

Measured RF Output Power:	25.0 Watts
Measured DC Voltage:	13.6 Volts
Measured DC Current:	10.18 Amperes
Measured DC Input Power:	138.45 Watts

**HIGH-POWER SETTING, FREQUENCY 474.000 MHz**

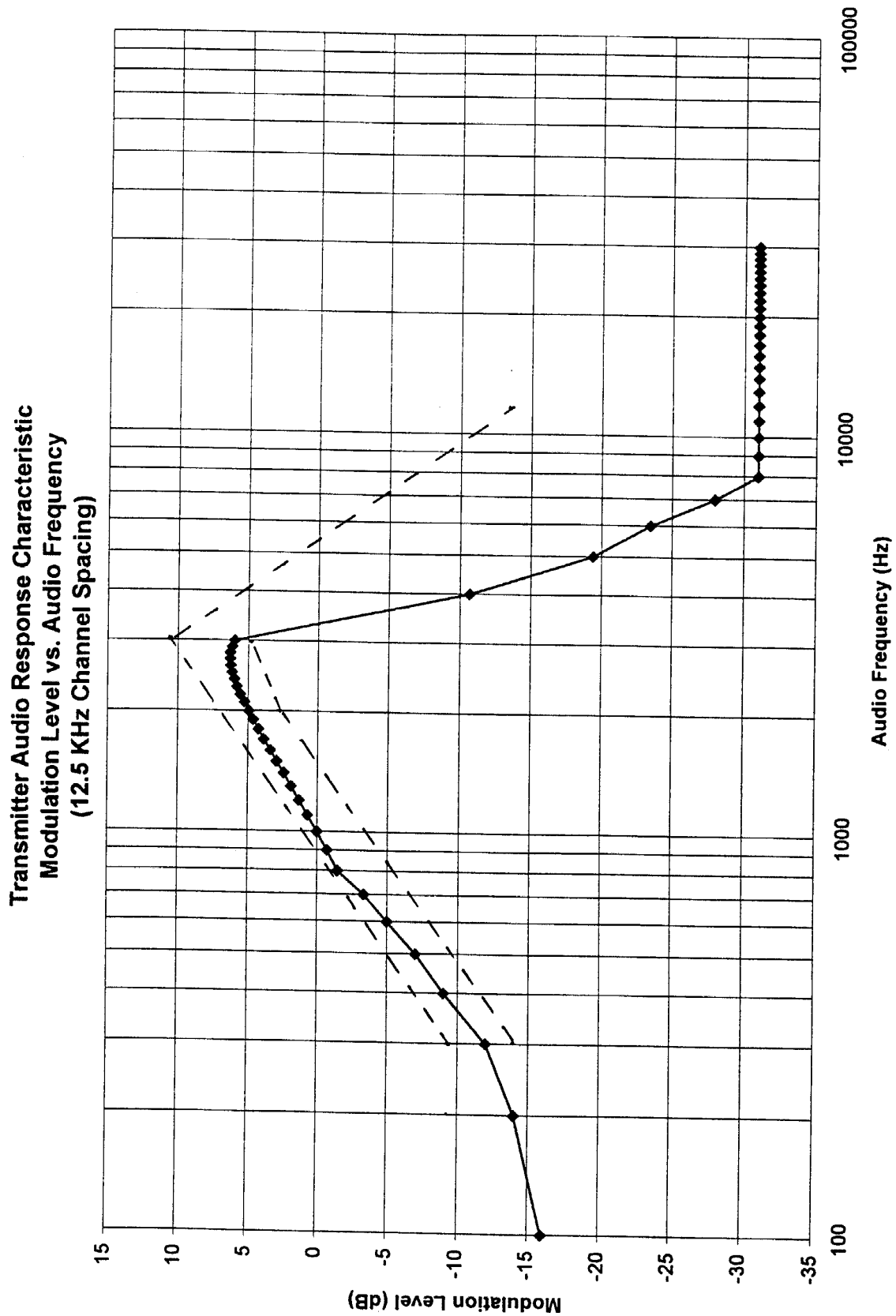
Measured RF Output Power:	25.0 Watts
Measured DC Voltage:	13.6 Volts
Measured DC Current:	9.74 Amperes
Measured DC Input Power:	132.46 Watts

**LOW-POWER SETTING, FREQUENCY 450.000 MHz**

Measured RF Output Power:	10.0 Watts
Measured DC Voltage:	13.6 Volts
Measured DC Current:	6.93 Amperes
Measured DC Input Power:	94.25 Watts

**LOW-POWER SETTING, FREQUENCY 474.000 MHz**

Measured RF Output Power:	10.0 Watts
Measured DC Voltage:	13.6 Volts
Measured DC Current:	6.65 Amperes
Measured DC Input Power:	90.44 Watts



Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

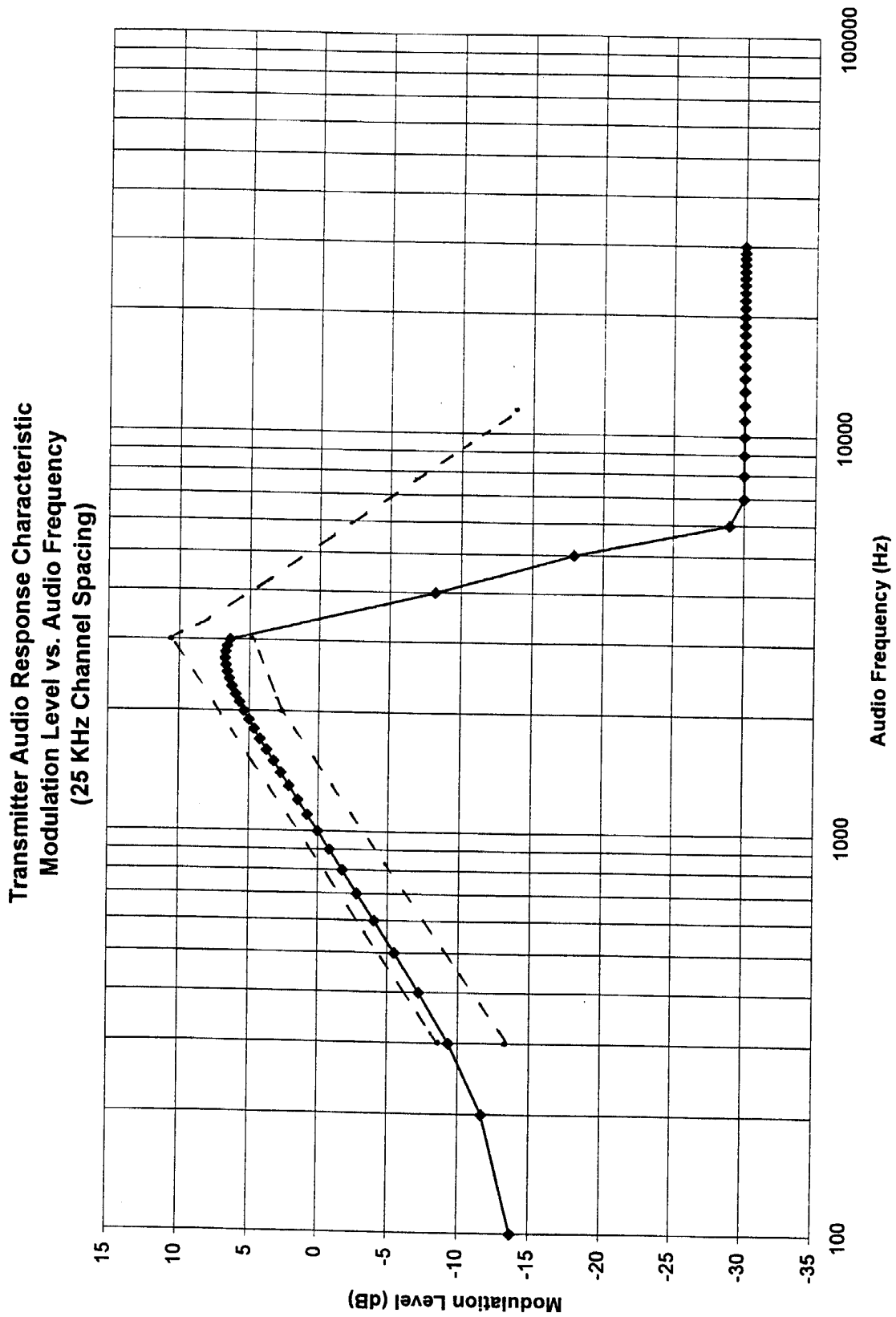
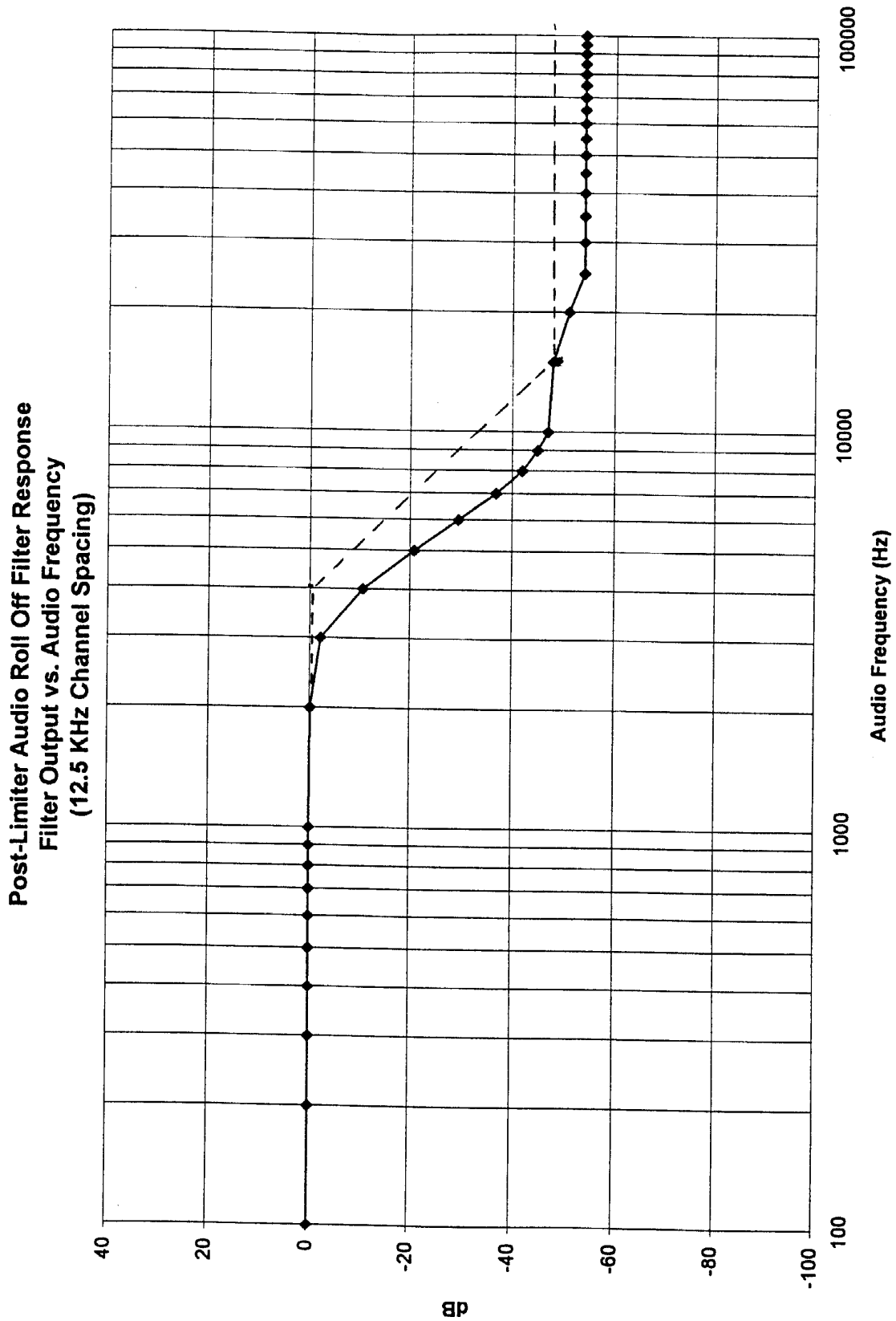
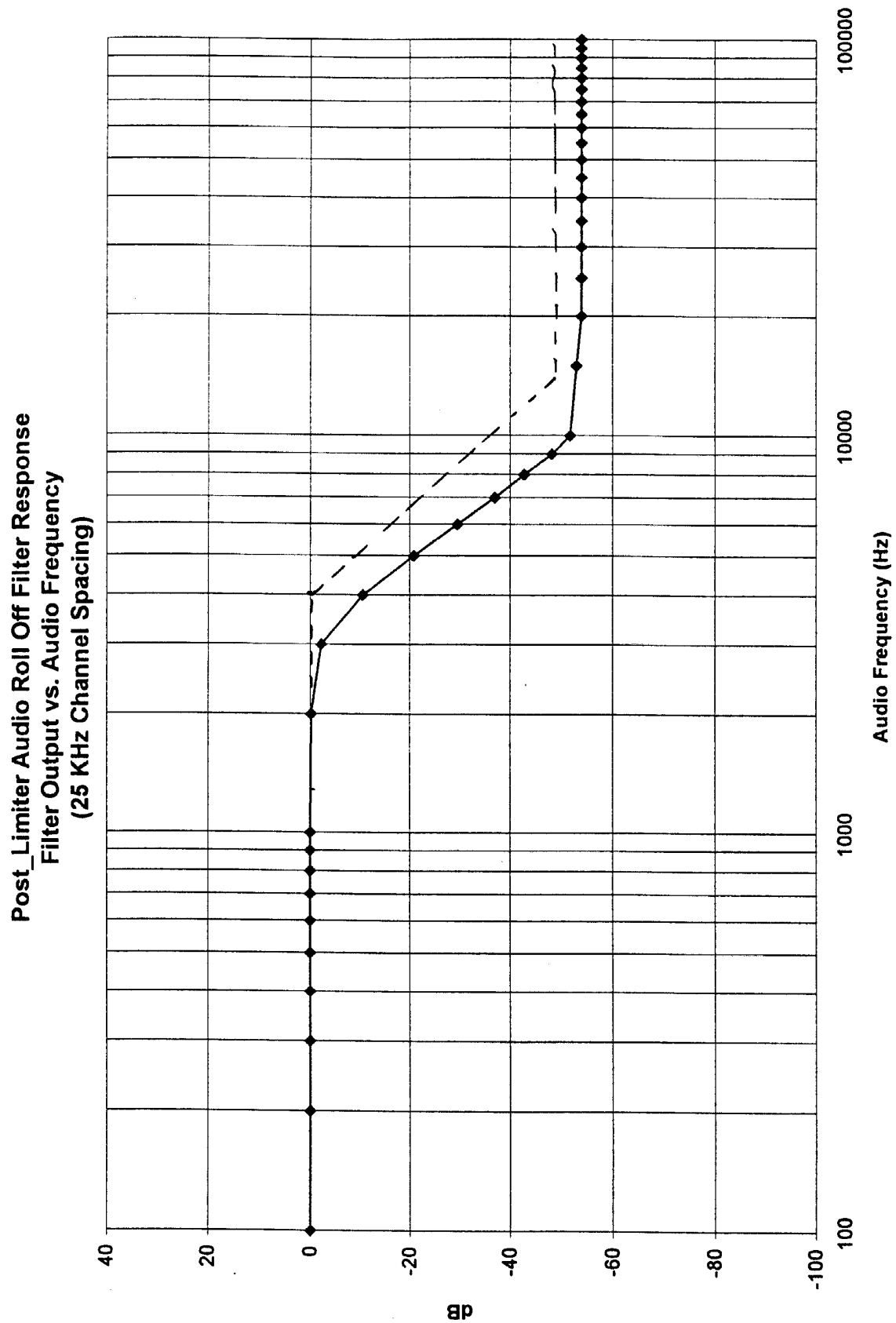


EXHIBIT 6B-2

Applicant: Motorola, Inc.

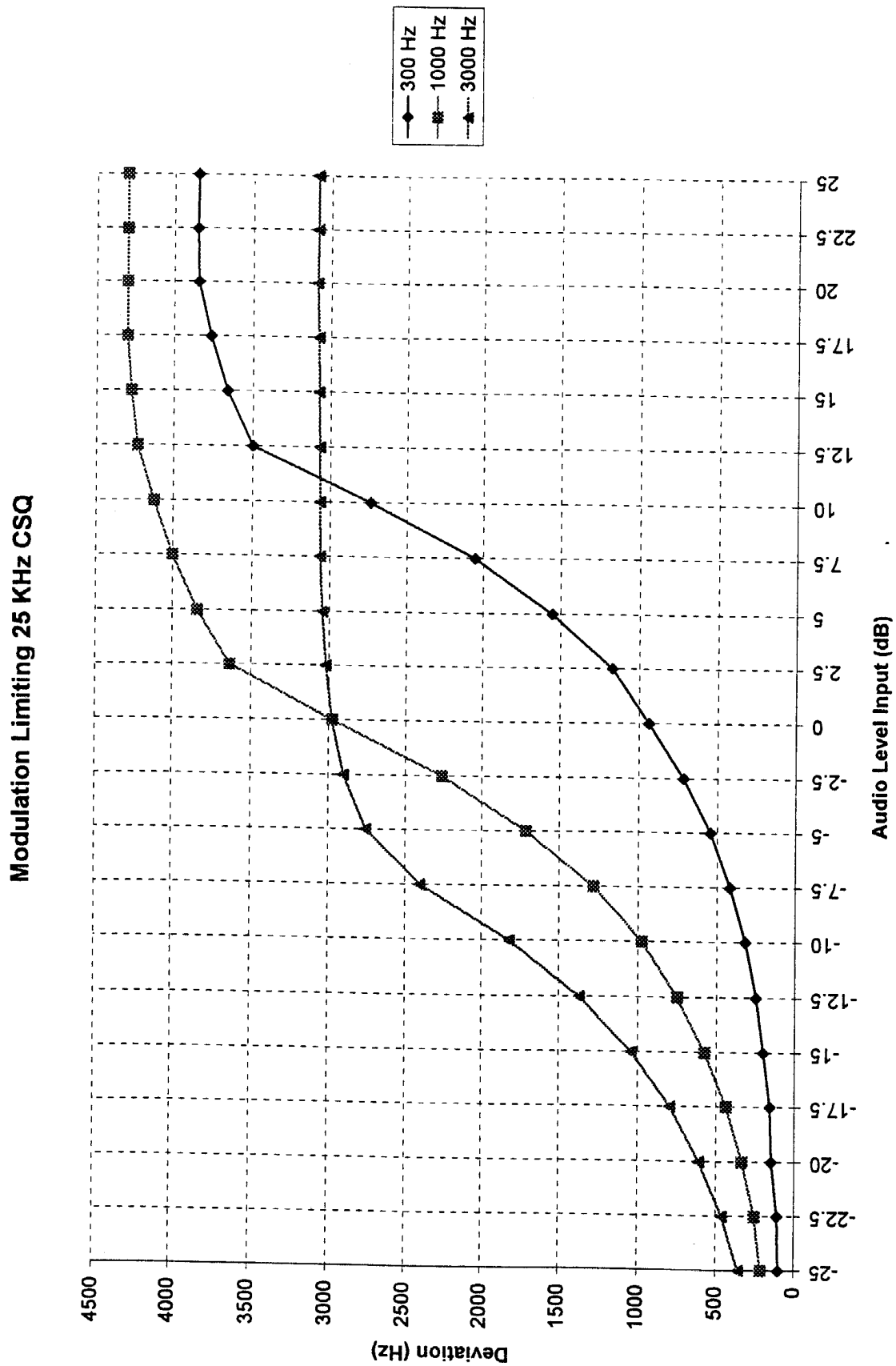
Equipment Type: ABZ99FT4046



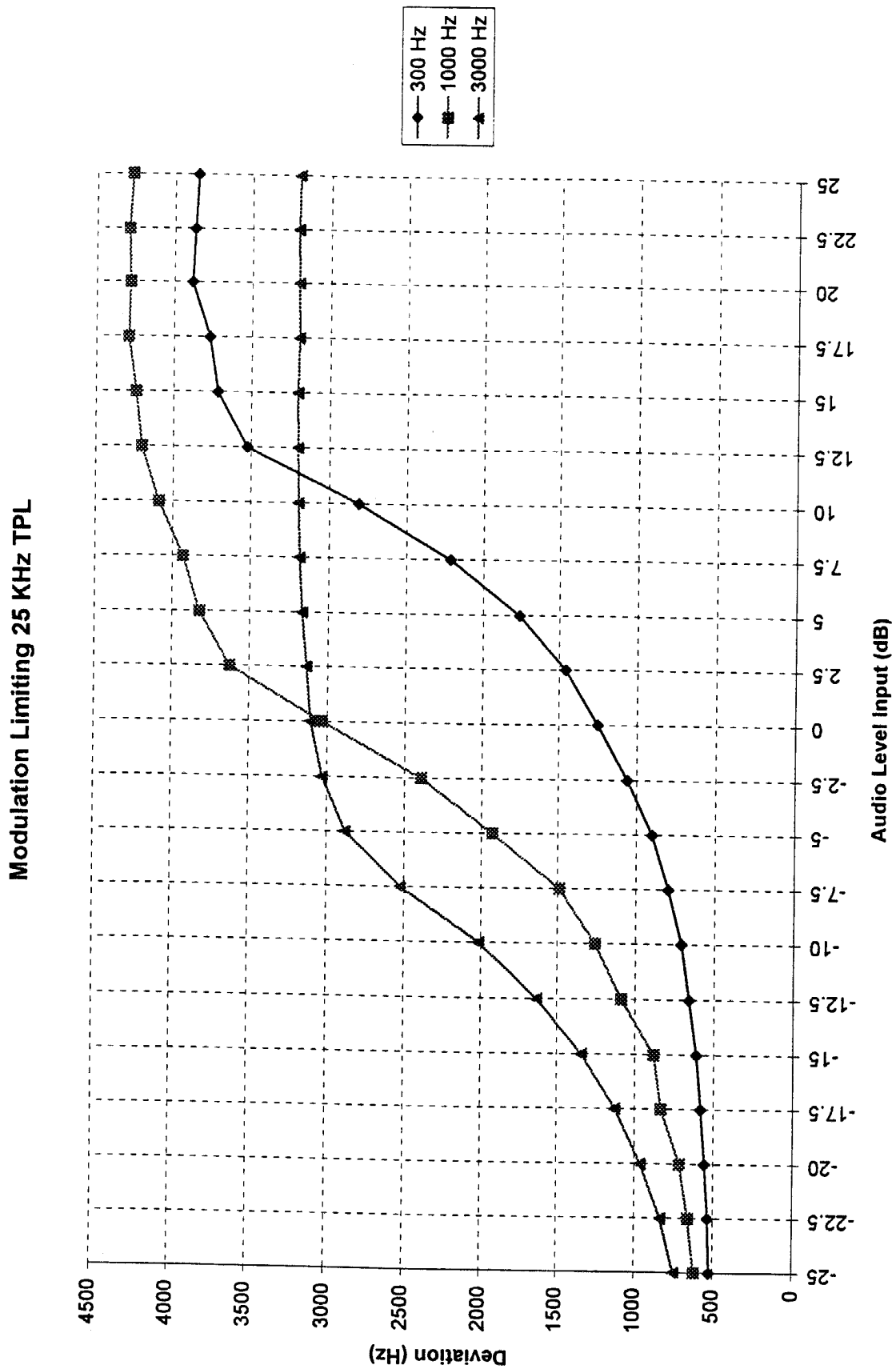


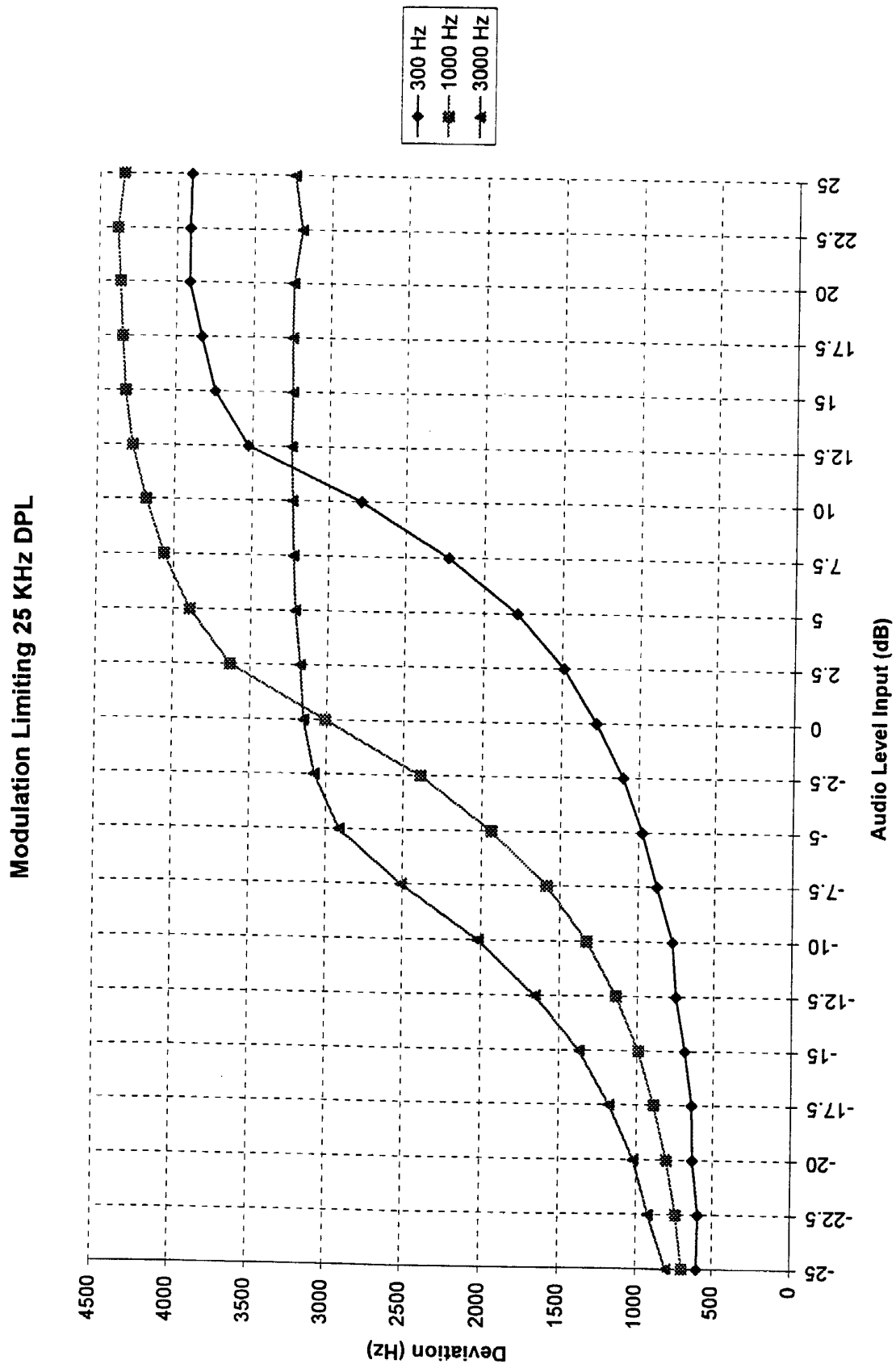
Applicant: Motorola, Inc.

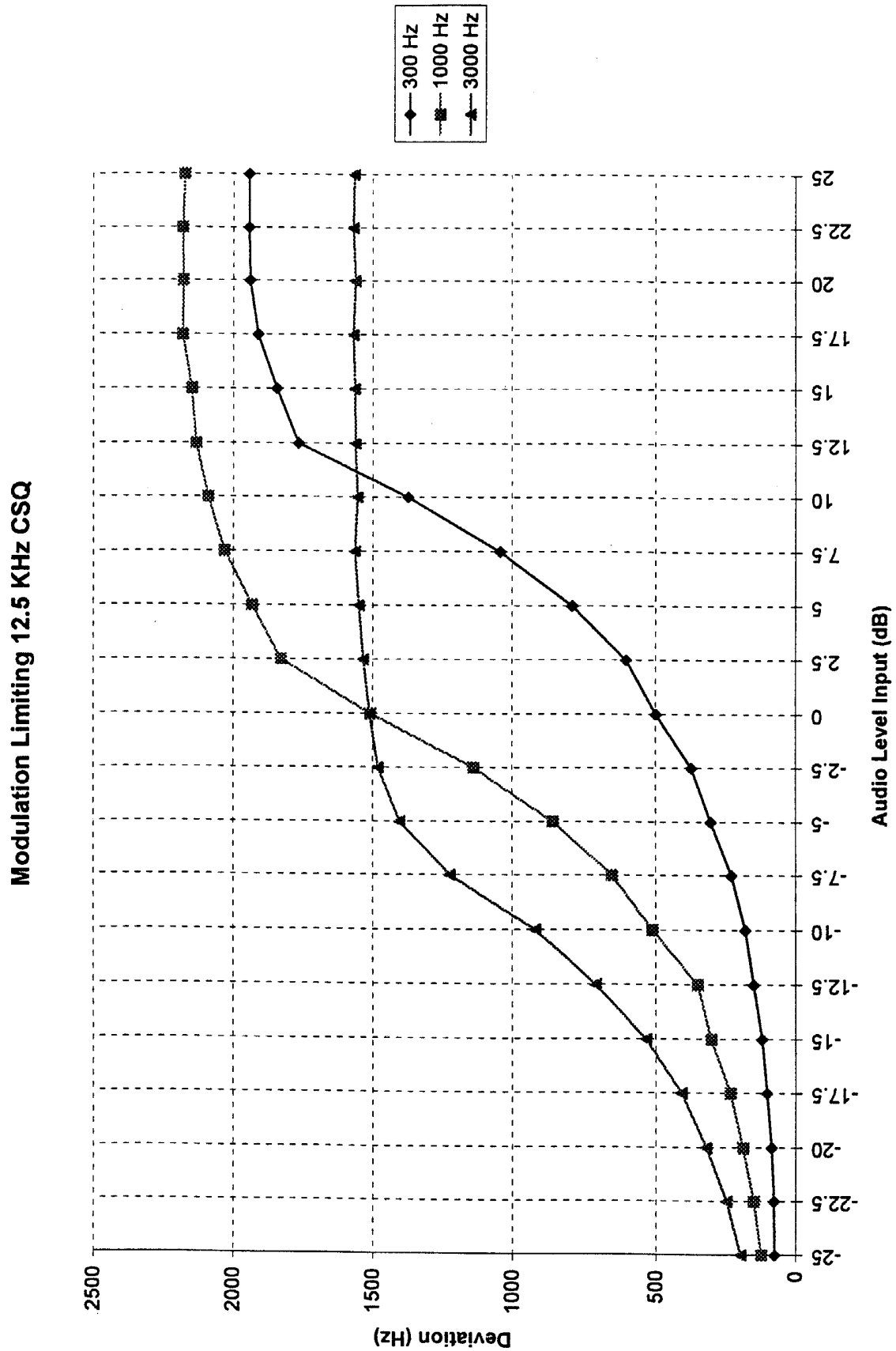
Equipment Type: ABZ99FT4046





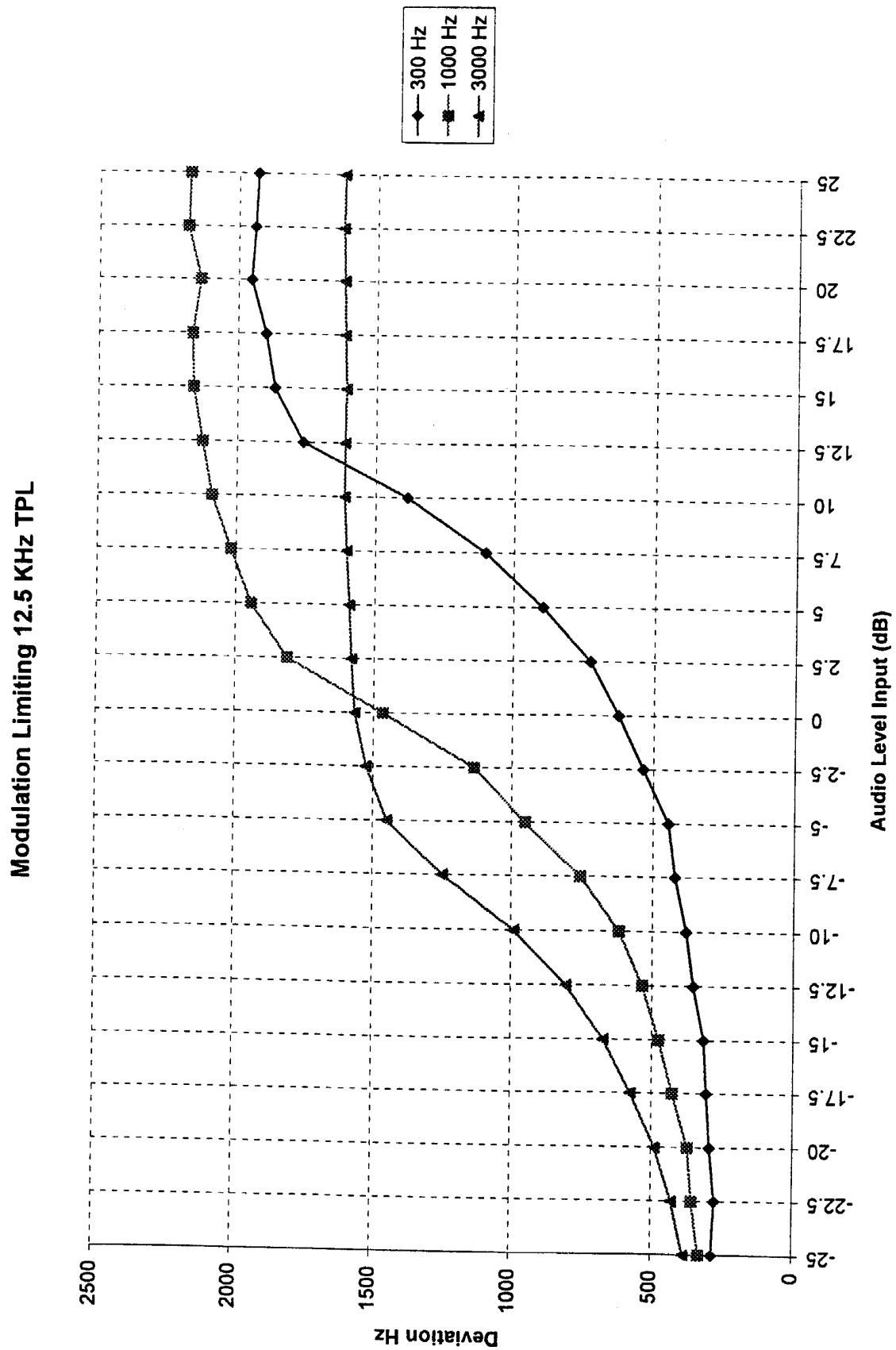






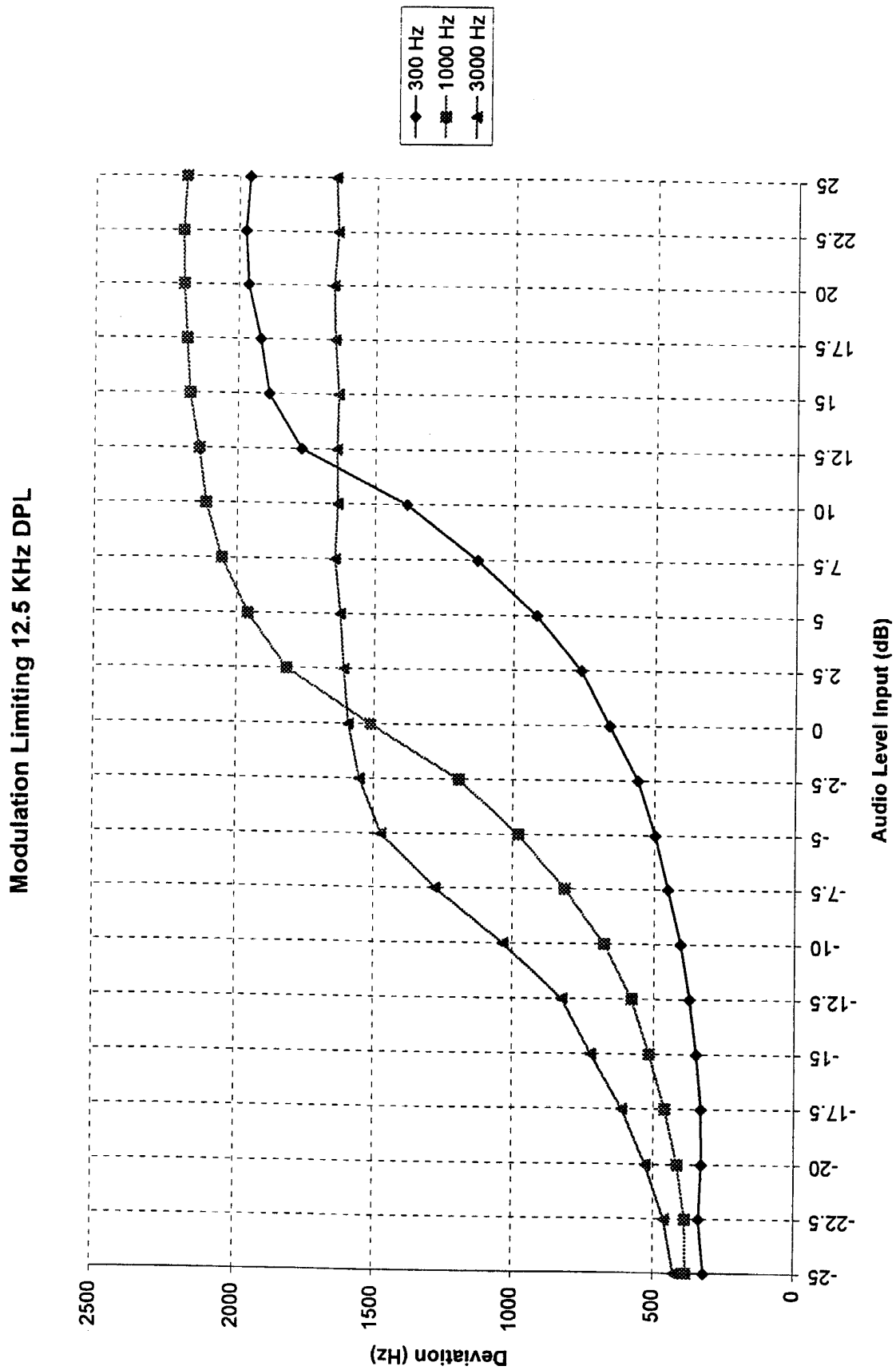
Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046



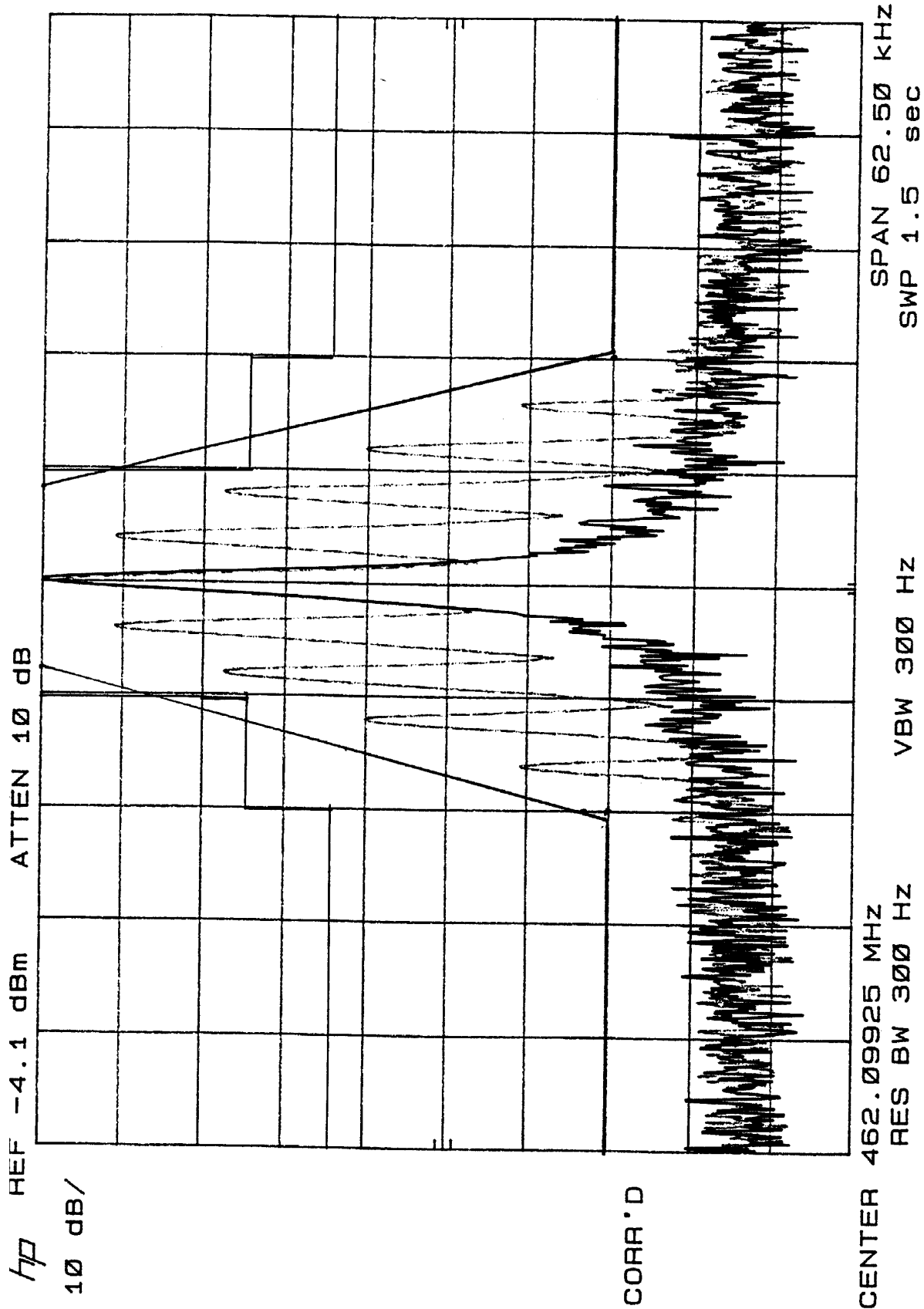
Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046



Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

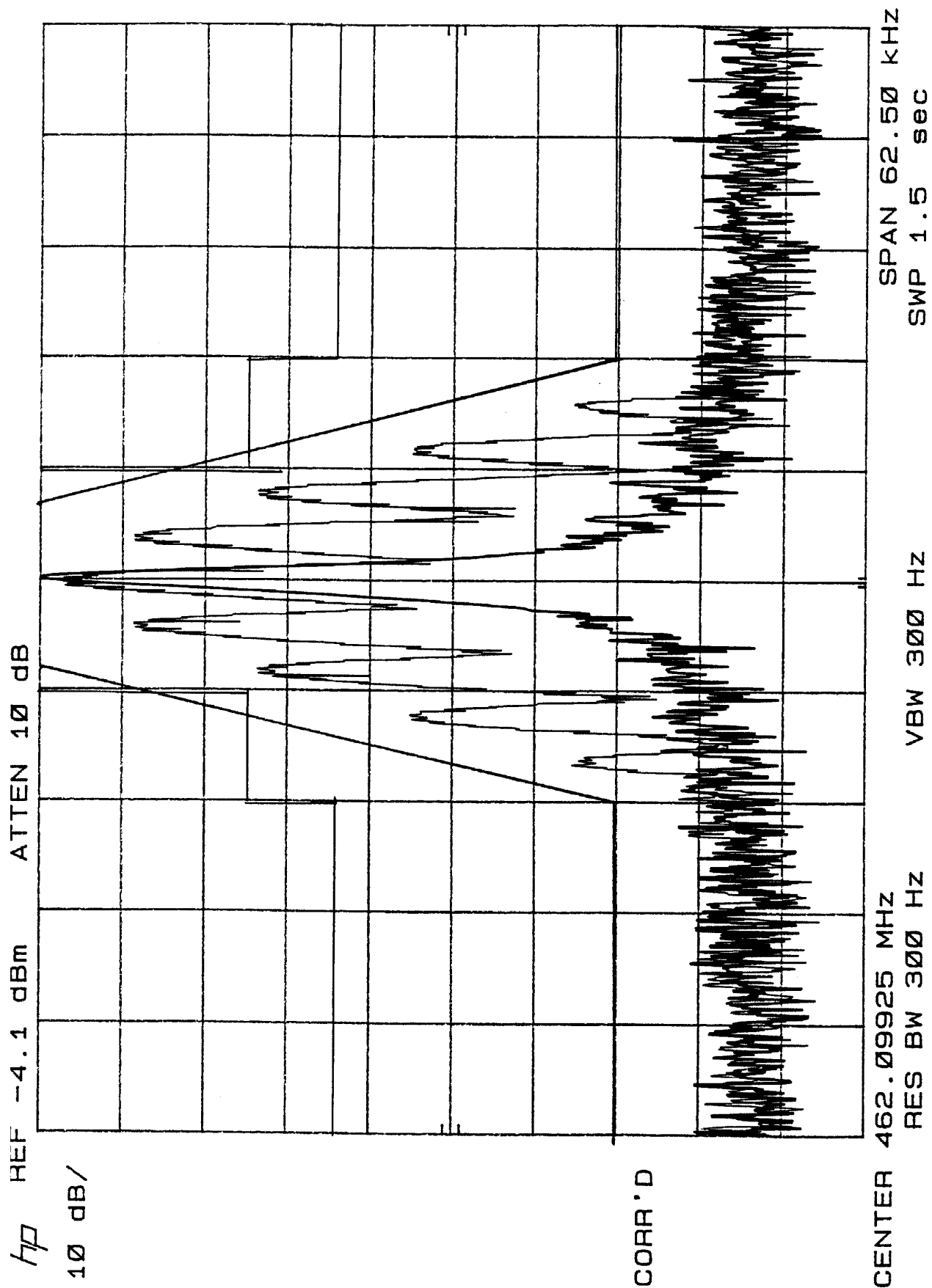


2500 Hz Audio Modulation Only

Exhibit 6E-1

Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

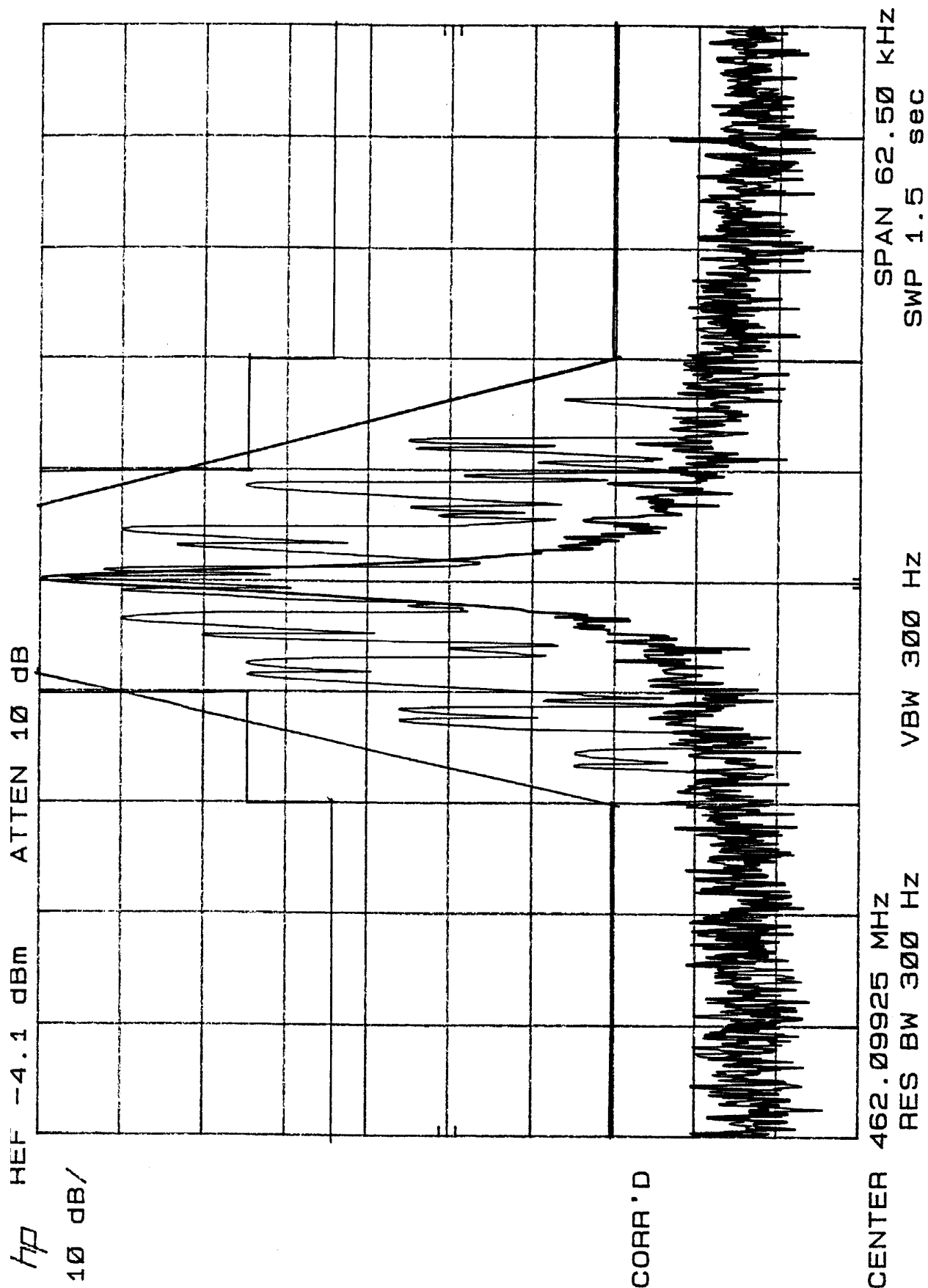


2500 Hz Audio and PL Tone Modulation

Exhibit 6E-2

Applicant: Motorola, Inc.

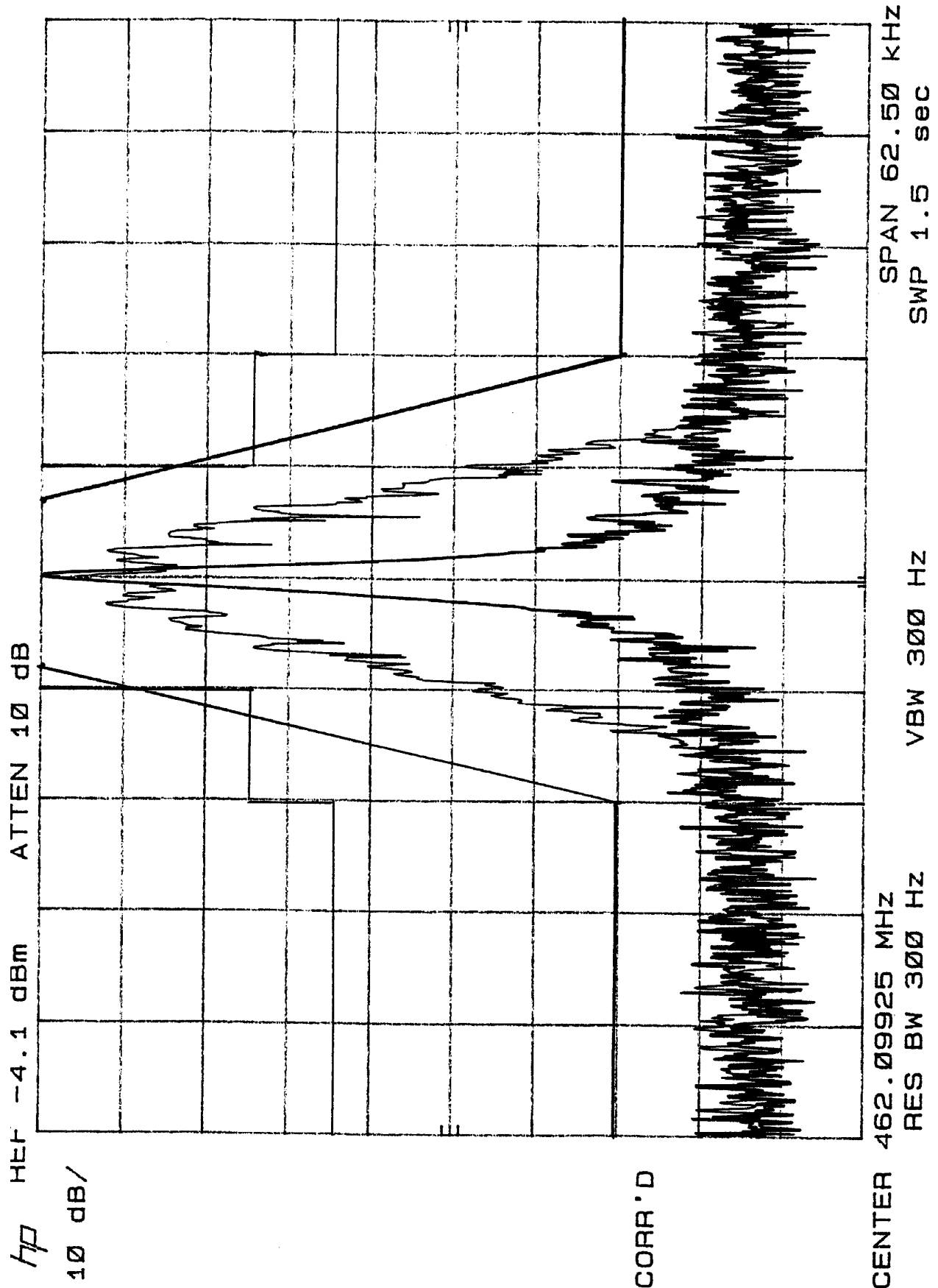
Equipment Type: ABZ99FT4046





Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

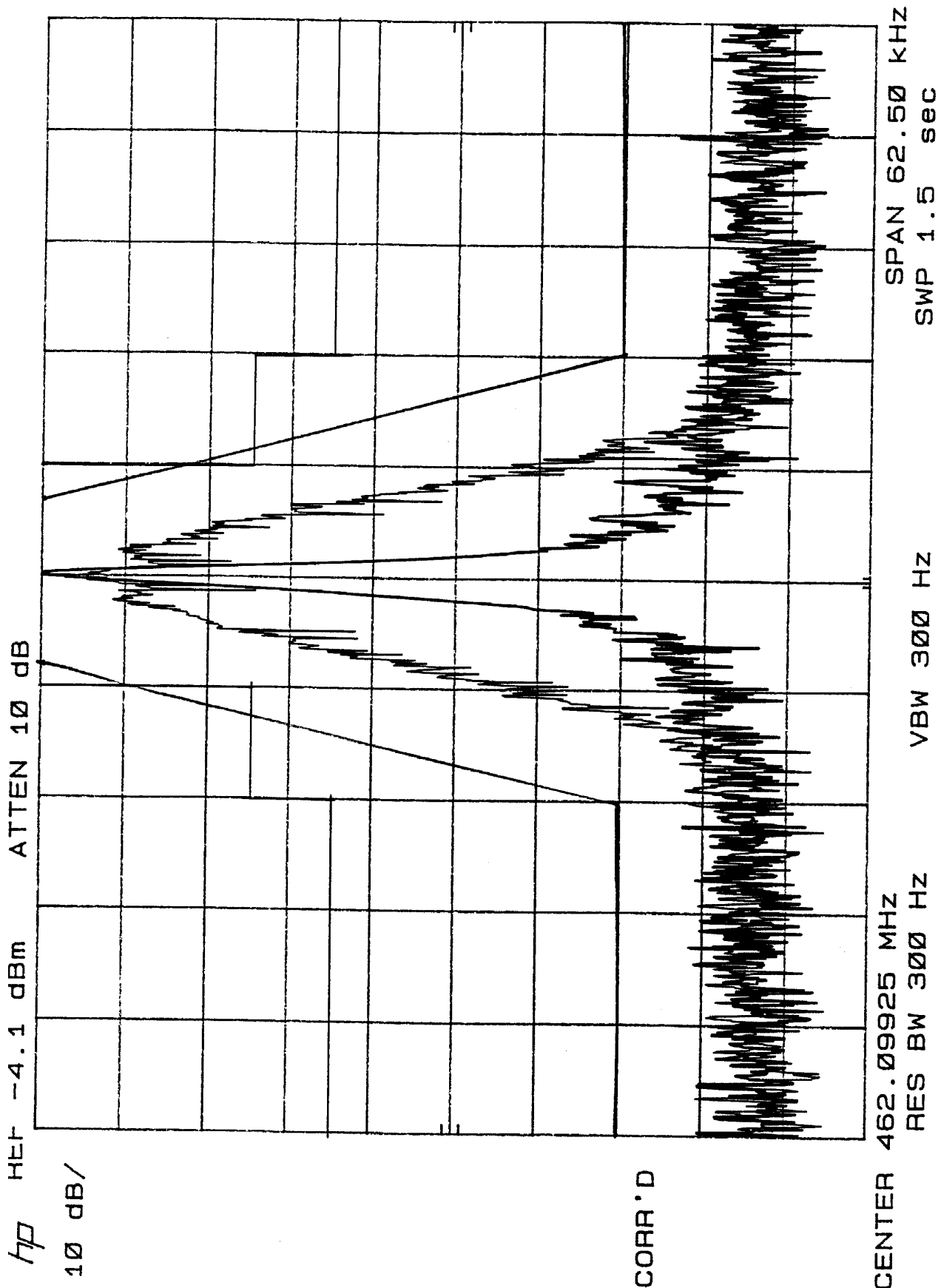


2500 Hz Audio and DPL Modulation

Exhibit 6E-4

Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

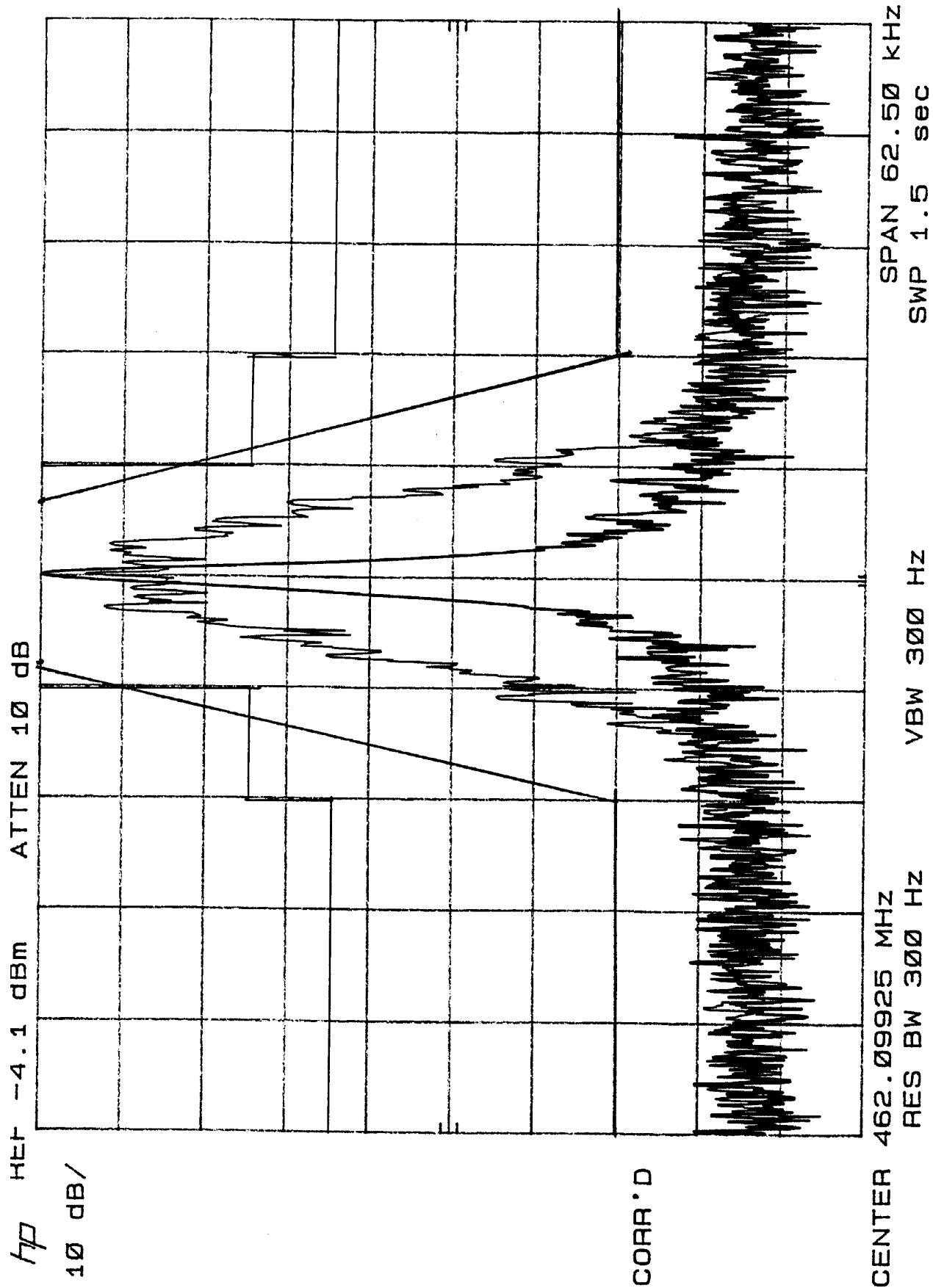


DTMF Modulation and PL Tone Modulation

Exhibit 6E-5

Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

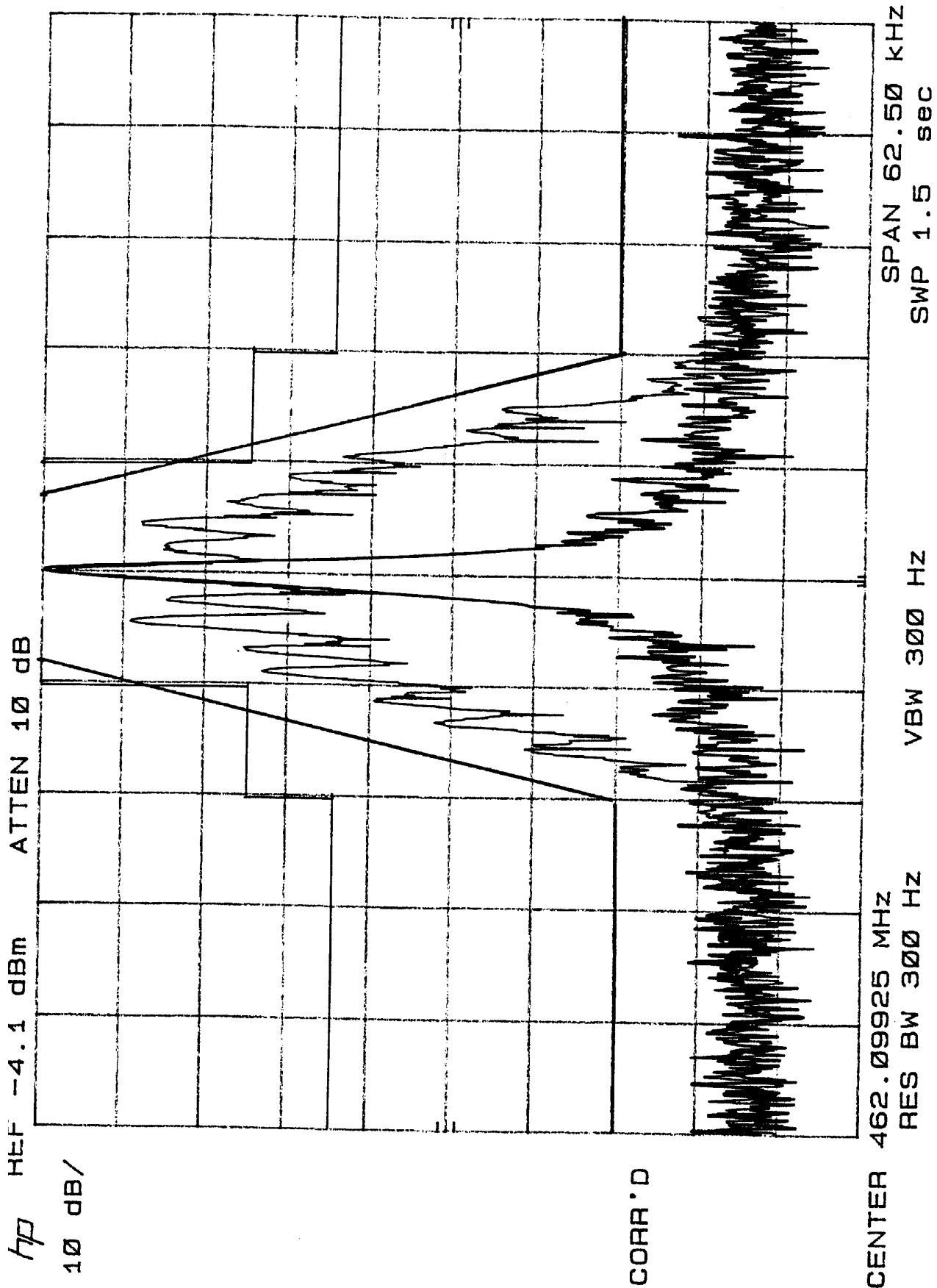


DTMF Modulation and DPL Modulation

Exhibit 6E-6

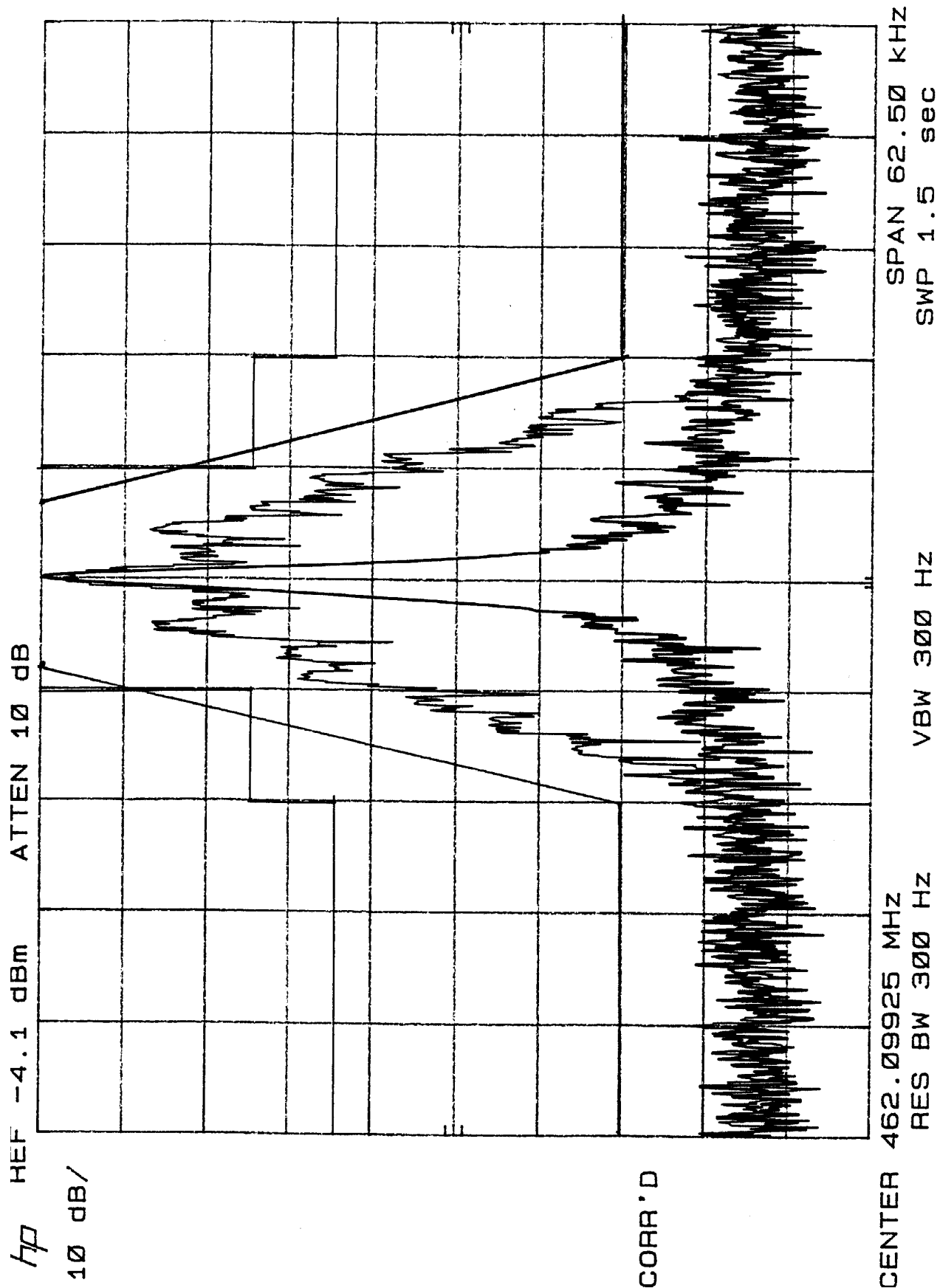
Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046



Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

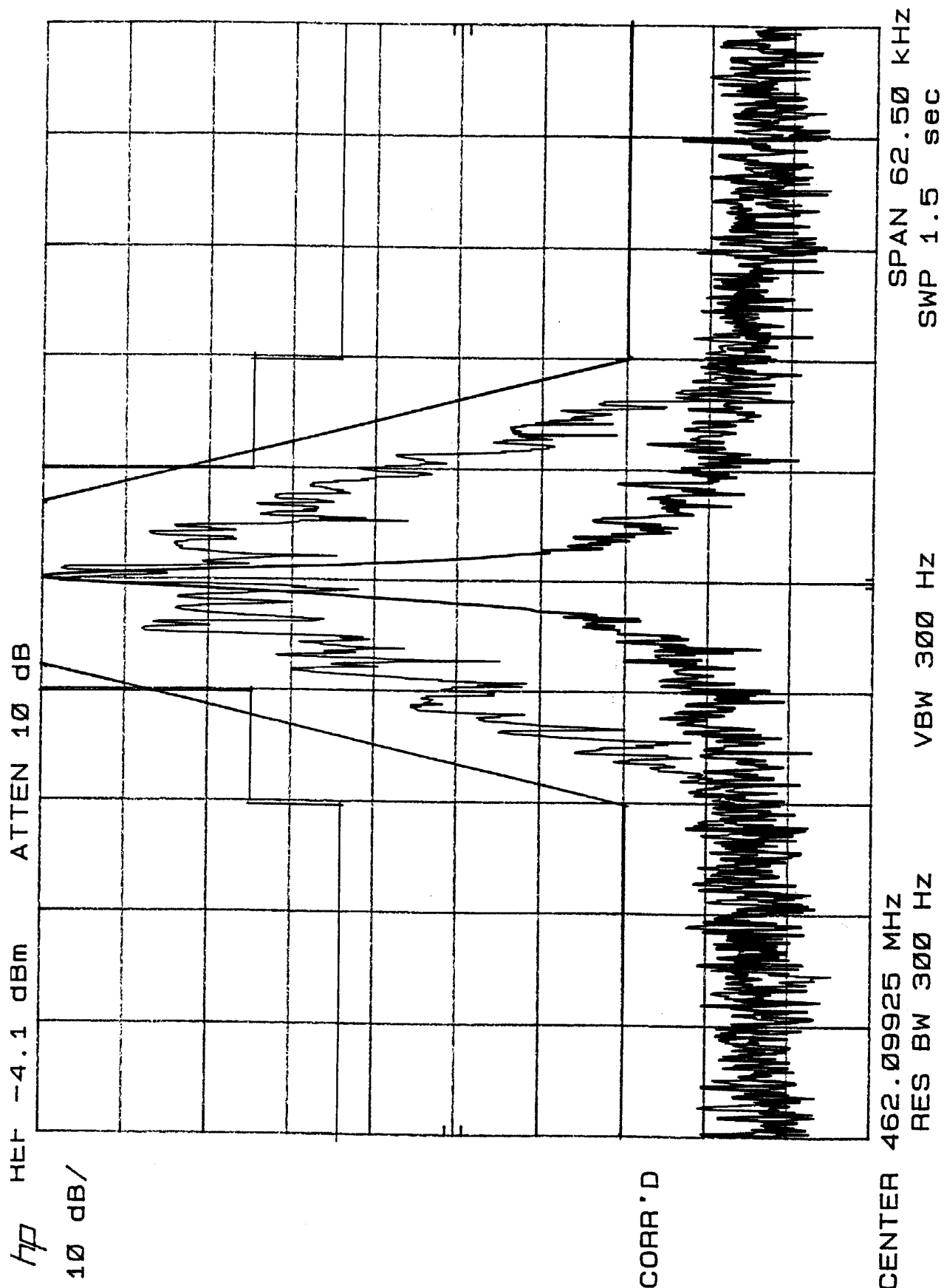


2000/3000 Hz FSK Data and PL Tone Modulation

Exhibit 6E-8

Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

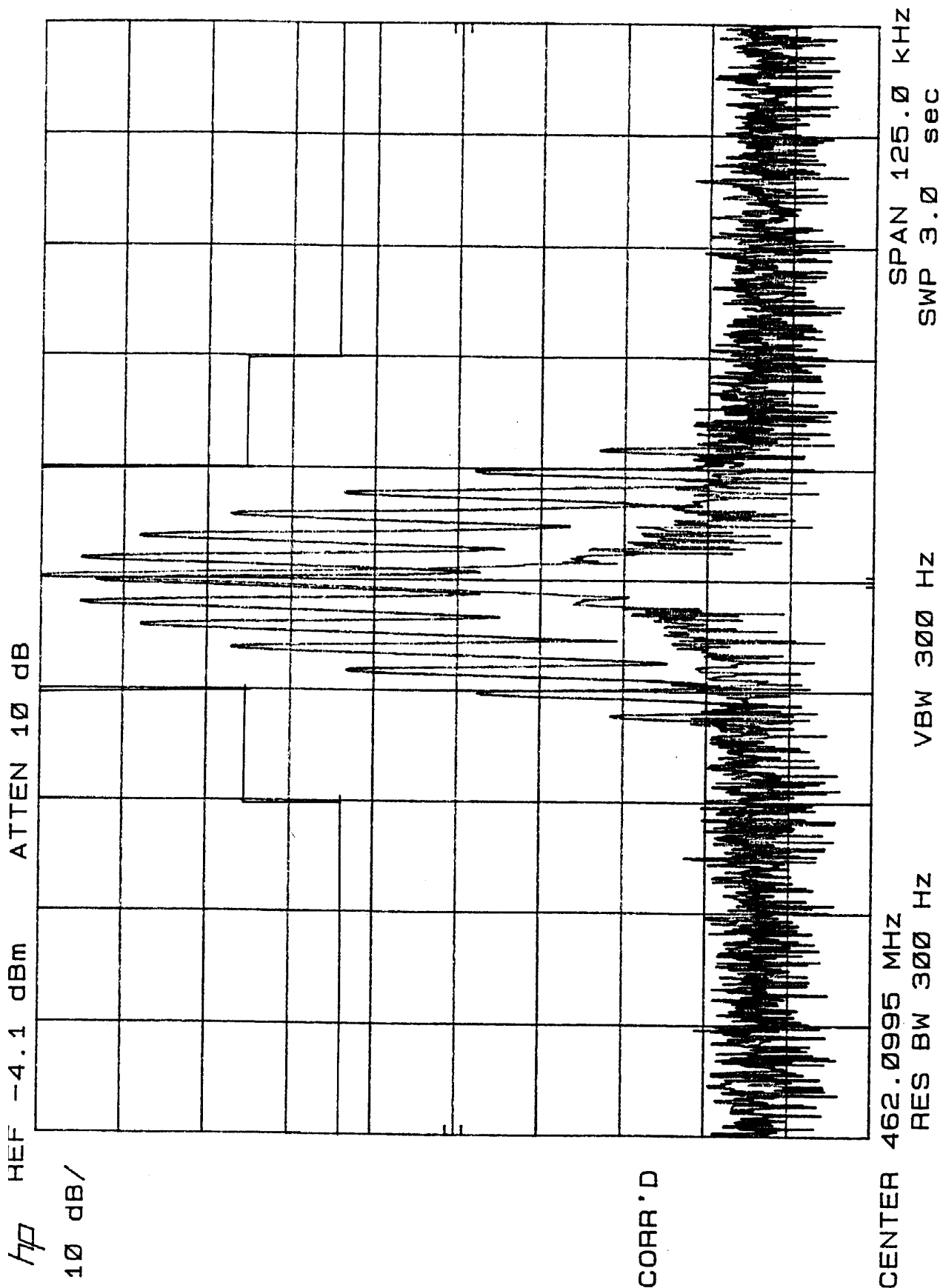


2000/3000 Hz FSK Data and DPL Tone Modulation

Exhibit 6E-9

Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

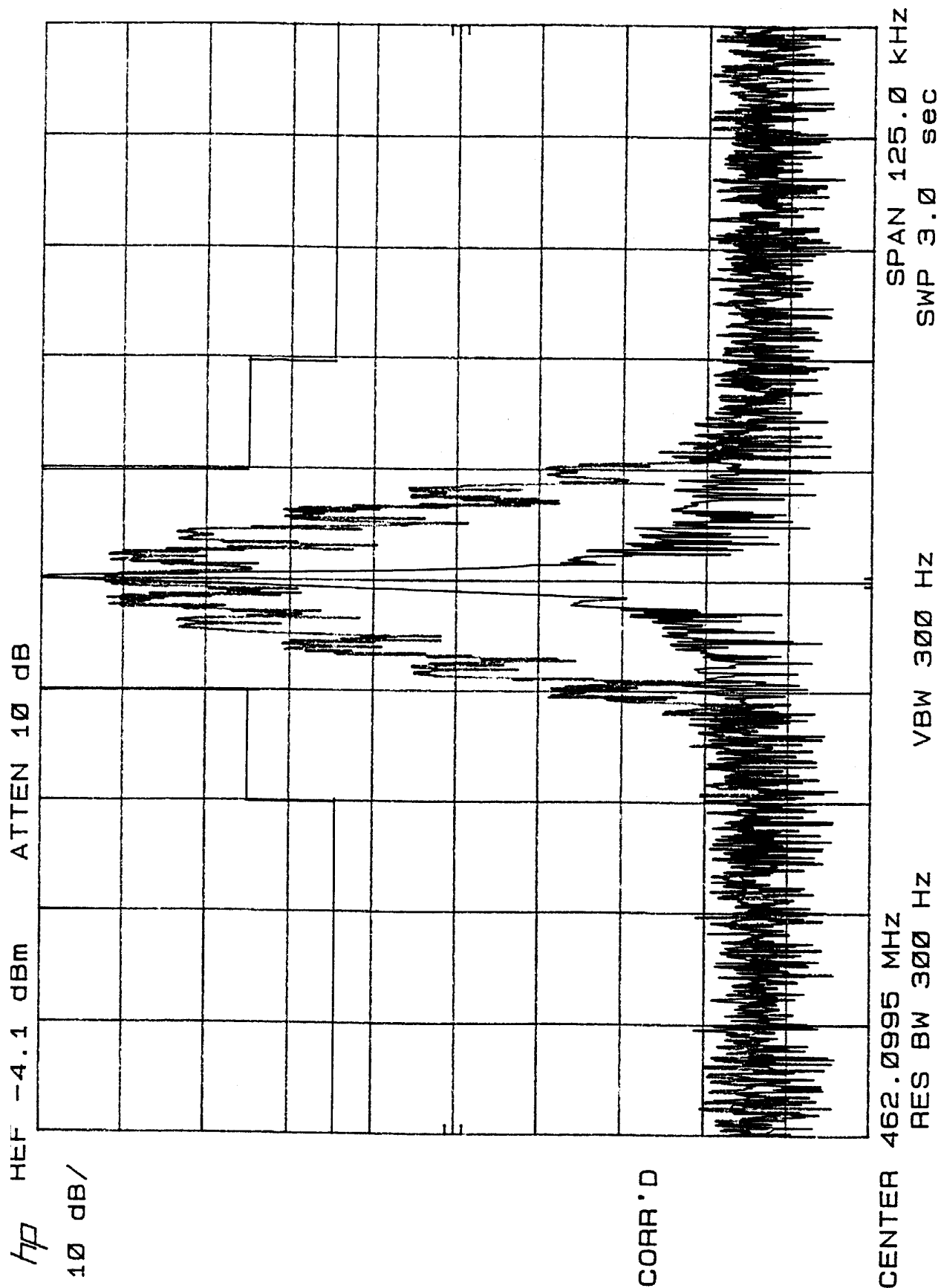


2500 Hz Audio Modulation Only

Exhibit 6E-10

Applicant: Motorola, Inc.

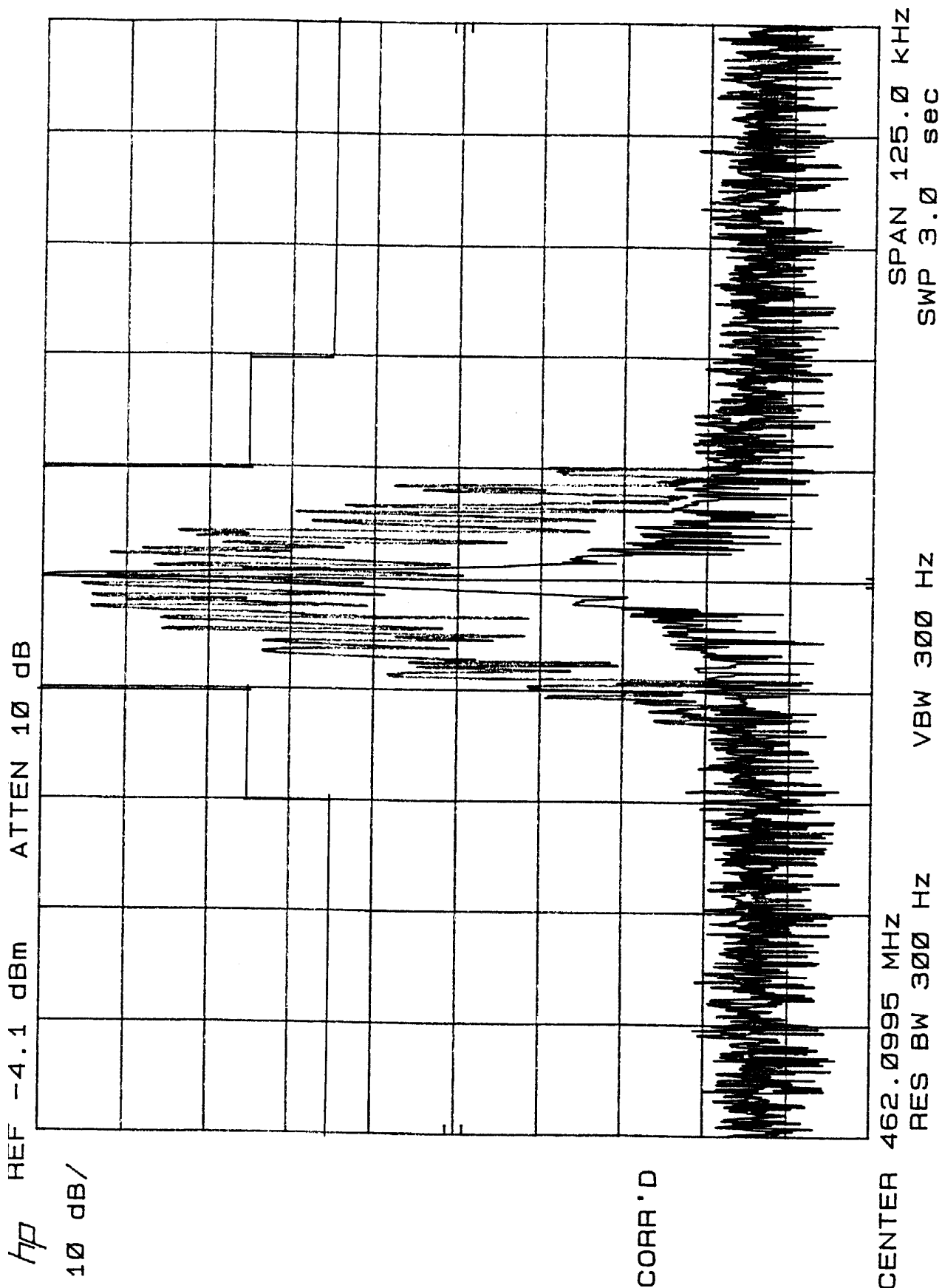
Equipment Type: ABZ99FT4046





Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

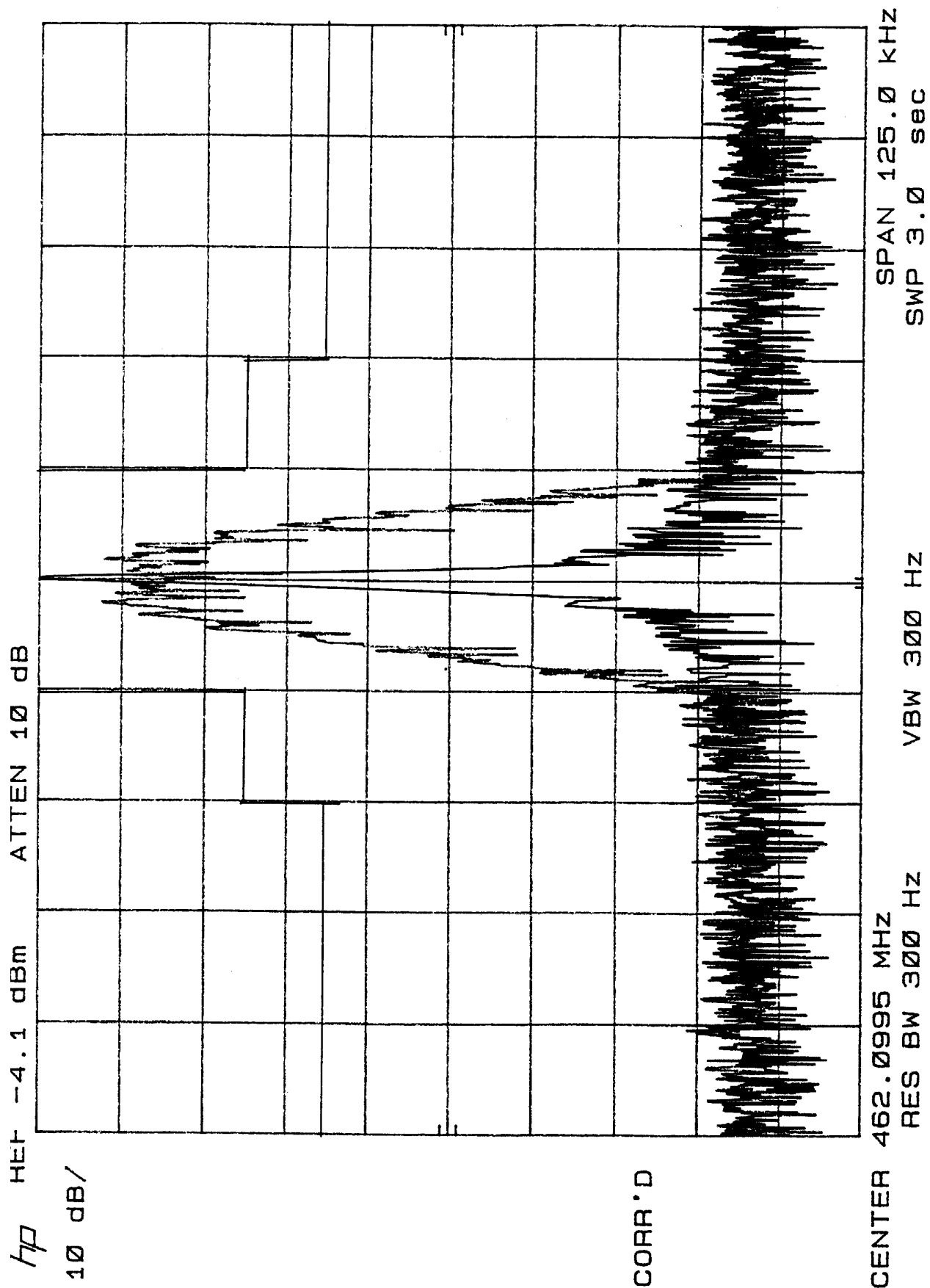


2500 Hz Audio and DPL Modulation

Exhibit 6E-12

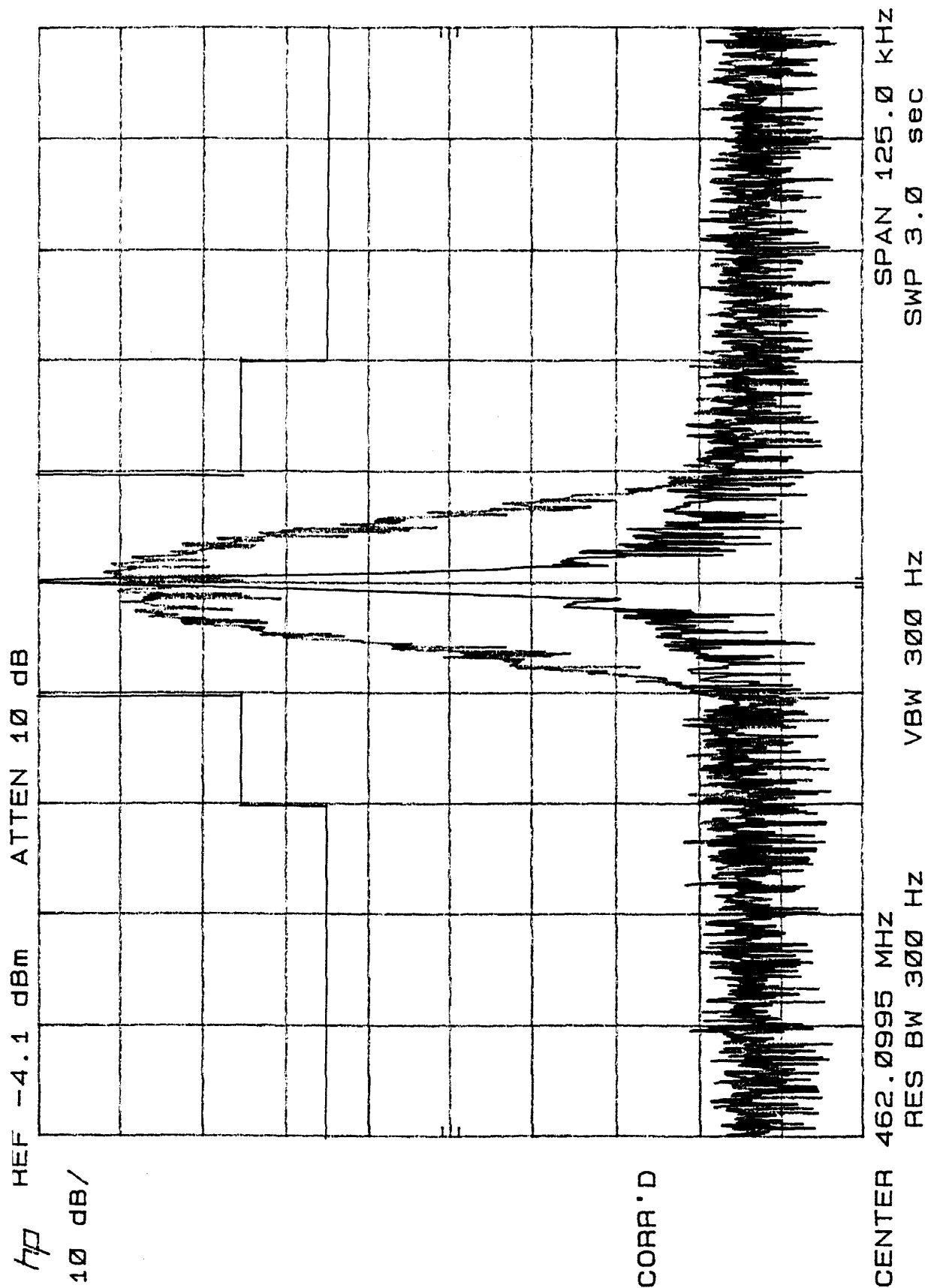
Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046



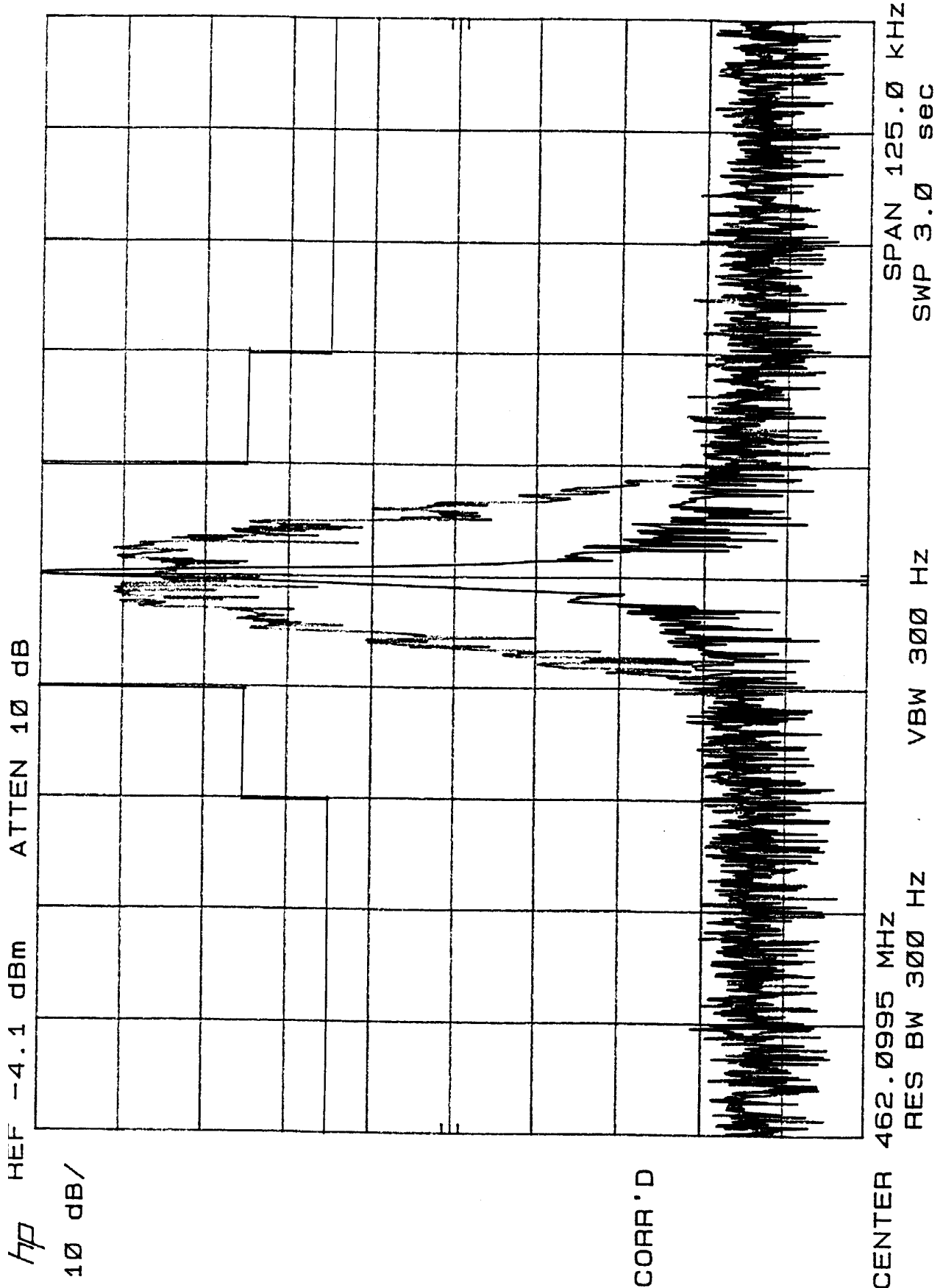
Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046



Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

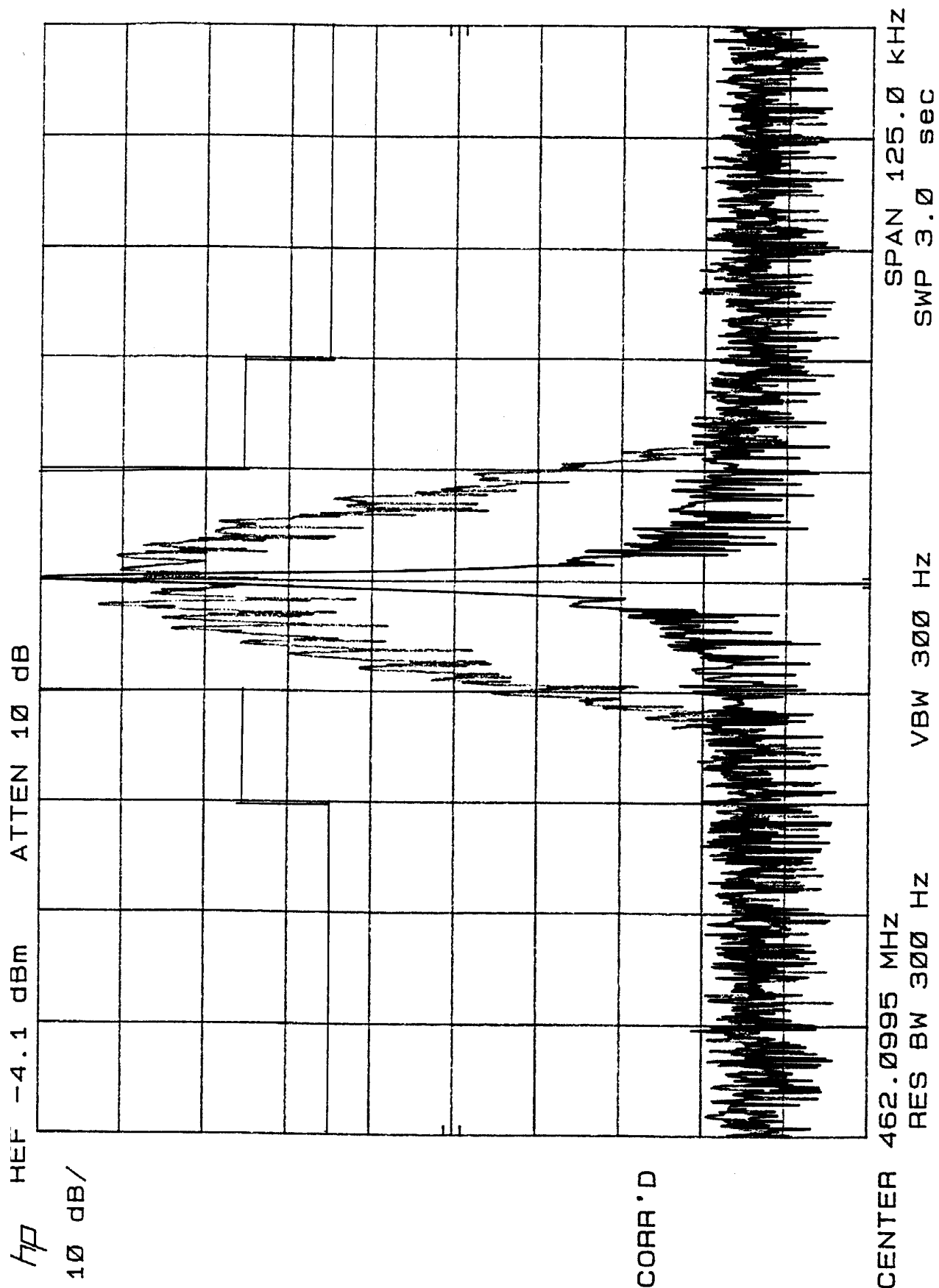


DTMF Modulation and DPL Modulation

Exhibit 6E-15

Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

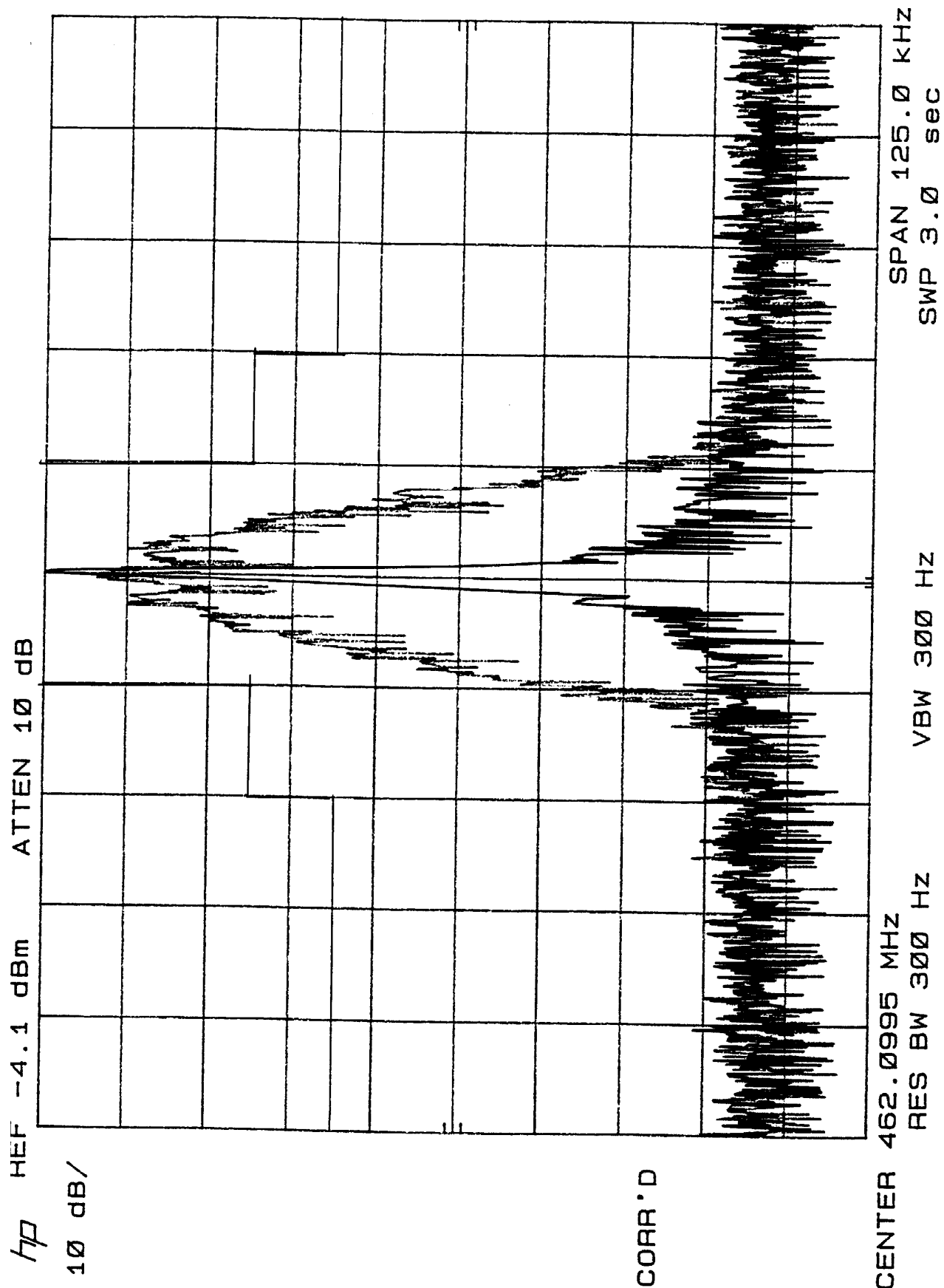


2000/3000 Hz FSK Data Modulation Only

Exhibit 6E-16

Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

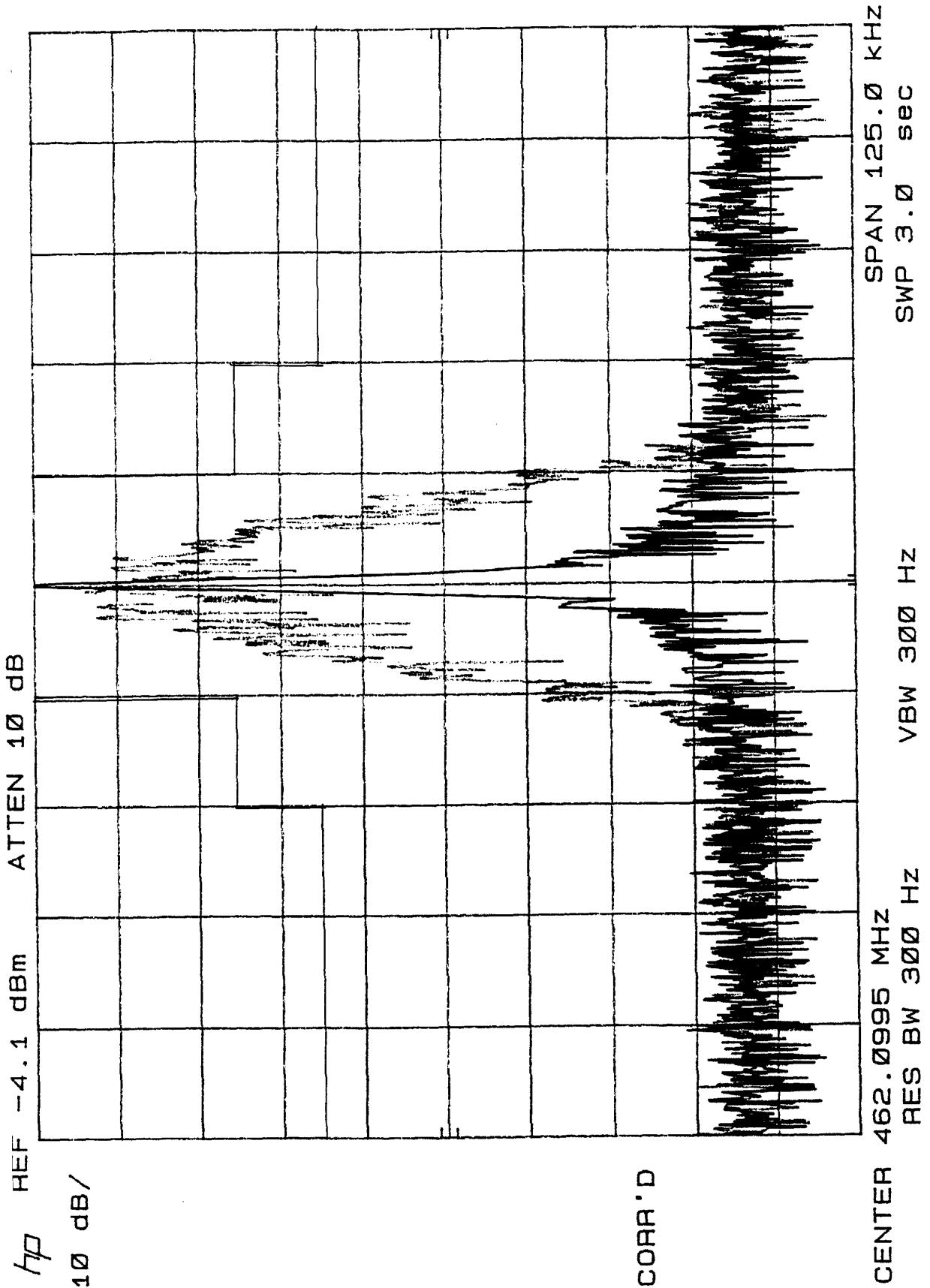


2000/3000 Hz FSK Data and PL Tone Modulation

Exhibit 6E-17

Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046



Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

# MOTOROLA INC.

## TRANSMITTER SPURIOUS EMISSION CHARACTERISTIC CONDUCTED SPURIOUS and HARMONIC EMISSIONS

Reference FCC ID ABZ99FT4046

Method SEE EXHIBIT 7

Date 20 JAN 1999

Signature C. Allison

Transmitter Type: See Above

Power Output: 10.00W at 450.0000MHz

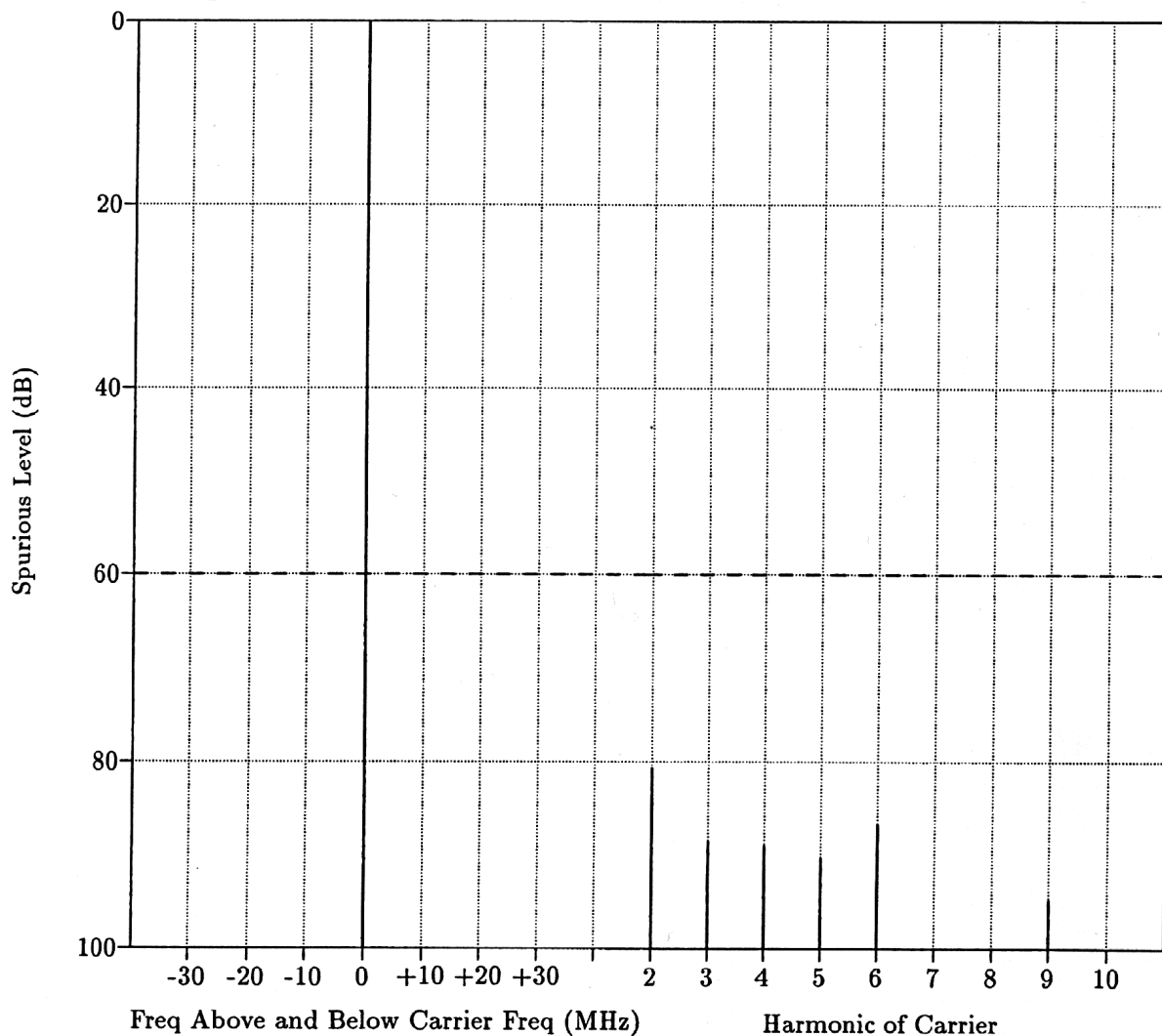


EXHIBIT 6F-1



**Applicant:** Motorola, Inc.

**Equipment Type:** ABZ99FT4046

**MOTOROLA INC.**

**TRANSMITTER SPURIOUS EMISSION CHARACTERISTIC  
CONDUCTED SPURIOUS and HARMONIC EMISSIONS**

Reference FCC ID ABZ99FT4046

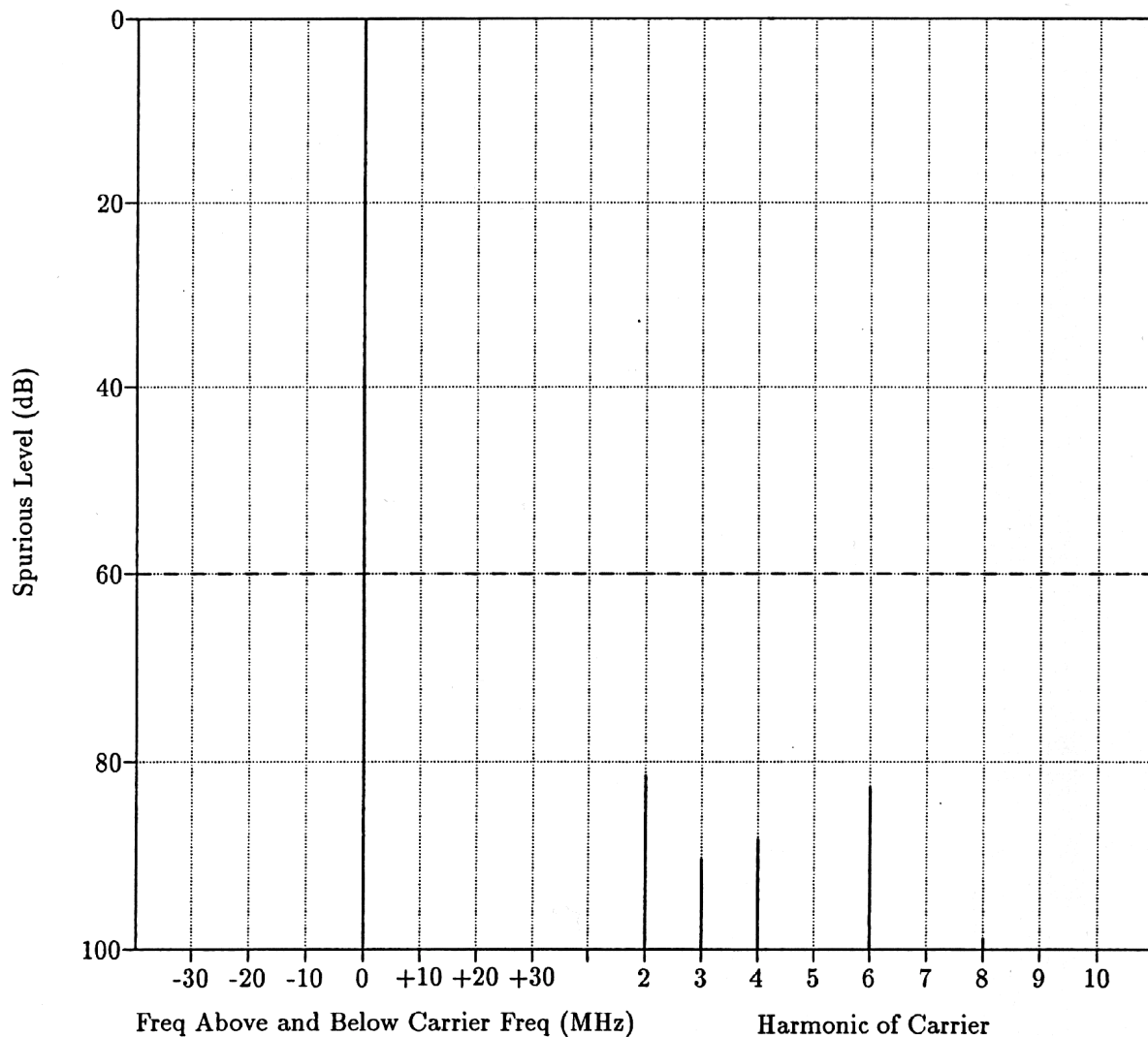
Method SEE EXHIBIT 7

Date 20 JAN 1999

Signature C. Allison

**Transmitter Type:** See Above

**Power Output:** 10.00W at 462.0000MHz



**EXHIBIT 6F-2**

Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

**MOTOROLA INC.**

**TRANSMITTER SPURIOUS EMISSION CHARACTERISTIC  
CONDUCTED SPURIOUS and HARMONIC EMISSIONS**

Reference FCC ID ABZ99FT4046

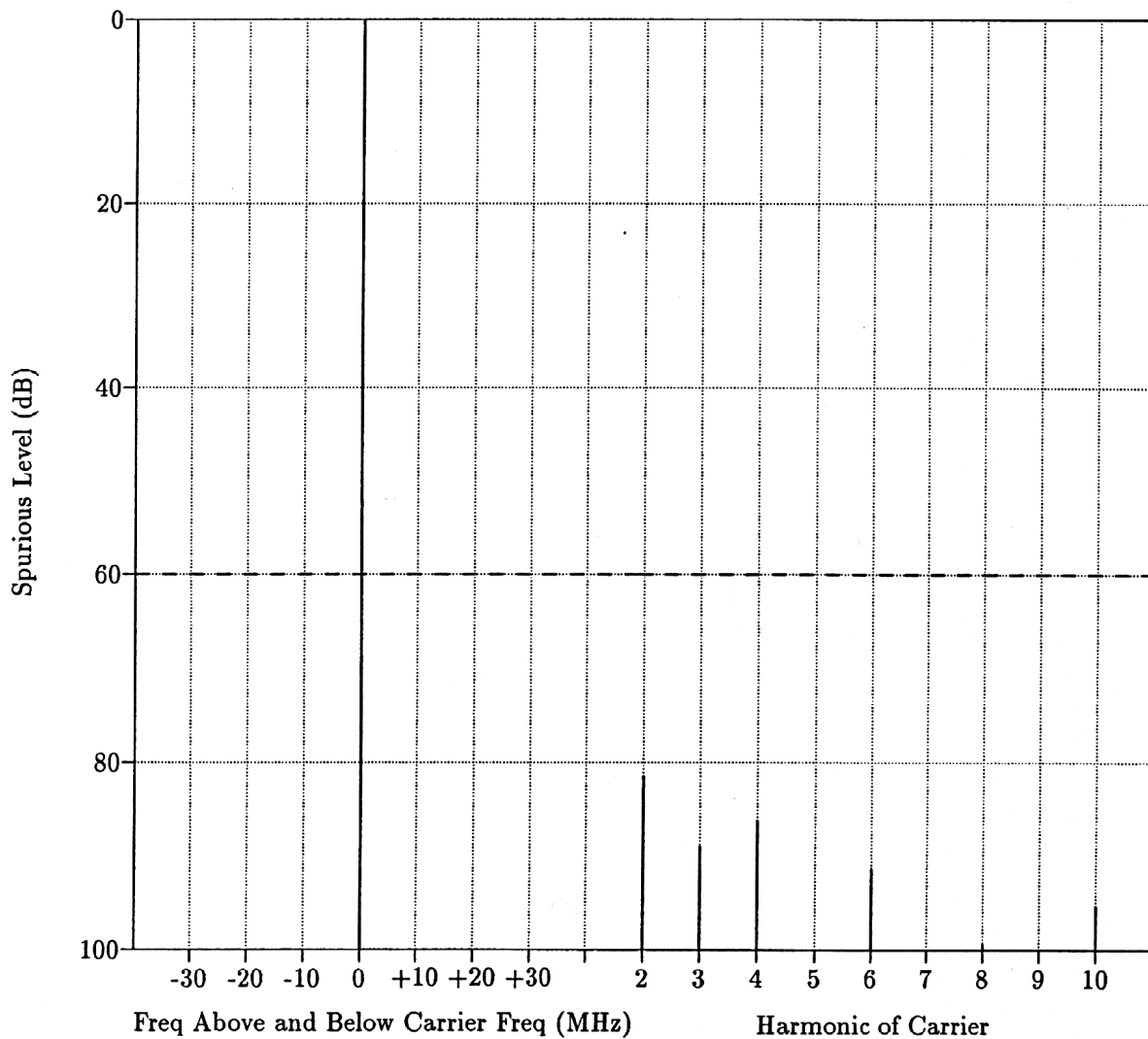
Method SEE EXHIBIT 7

Date 20 JAN 1999

Signature C Allison

Transmitter Type: See Above

Power Output: 10.00W at 472.0000MHz



Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

## MOTOROLA INC.

### TRANSMITTER SPURIOUS EMISSION CHARACTERISTIC CONDUCTED SPURIOUS and HARMONIC EMISSIONS

Reference FCC ID ABZ99FT4046

Method SEE EXHIBIT 7

Date 20 JAN 1999

Signature C. Allison

Transmitter Type: See Above

Power Output: 30.00W at 450.0000MHz

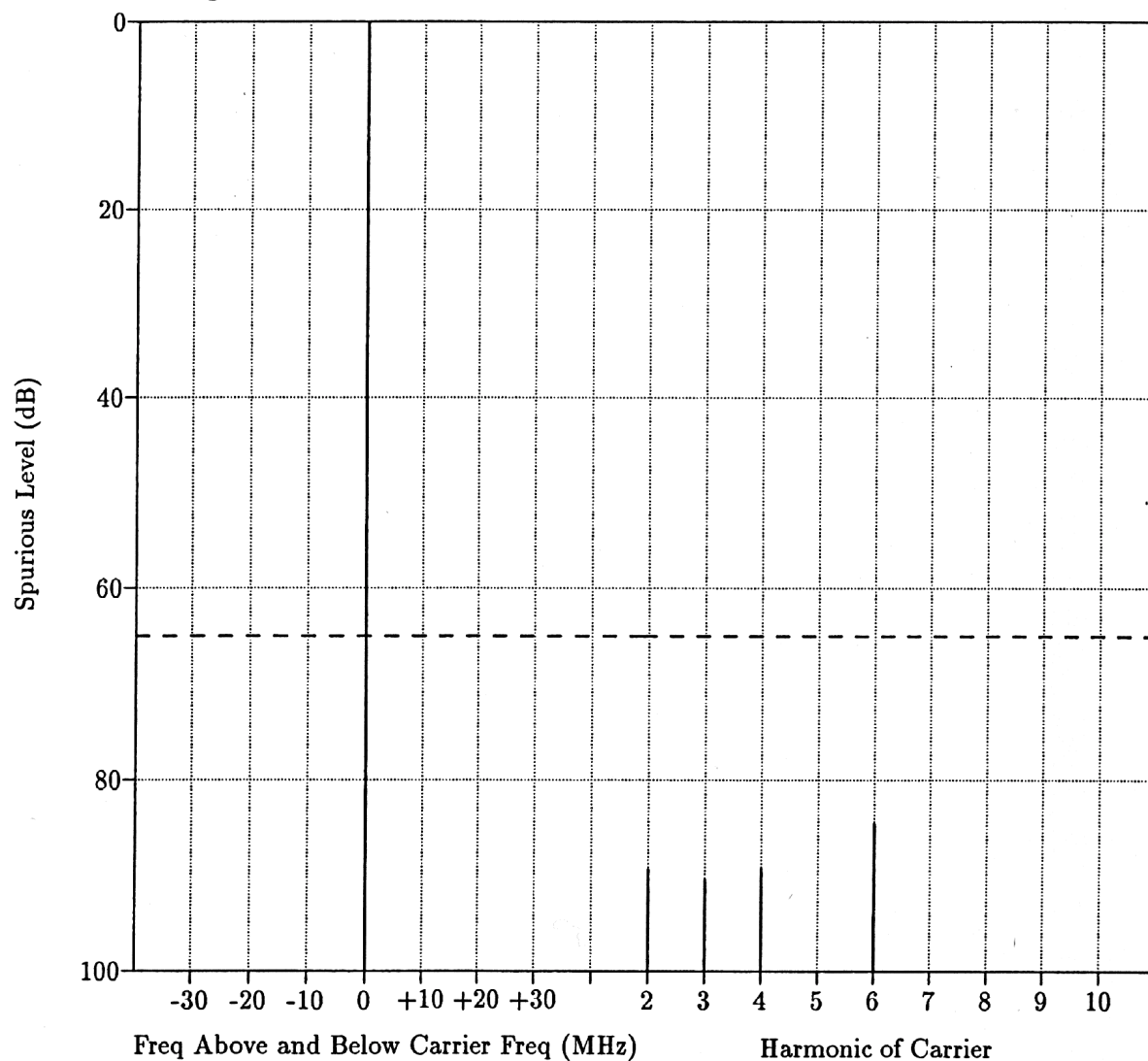


EXHIBIT 6F-4

Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

# MOTOROLA INC.

## TRANSMITTER SPURIOUS EMISSION CHARACTERISTIC CONDUCTED SPURIOUS and HARMONIC EMISSIONS

Reference FCC ID ABZ99FT4046

Method SEE EXHIBIT 7

Date 20 JAN 1999

Signature C. Allman

Transmitter Type: See Above

Power Output: 30.00W at 462.0000MHz

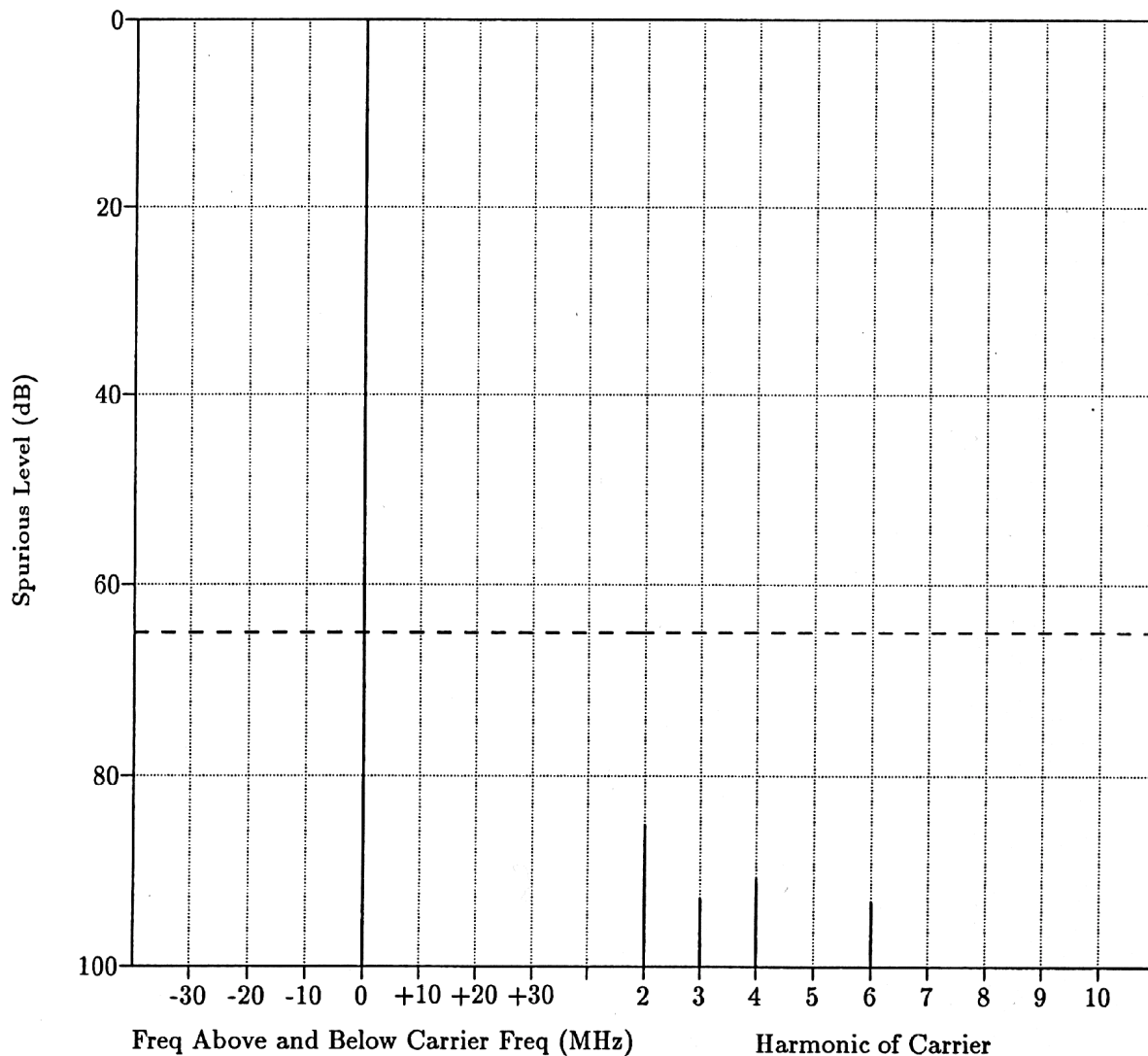


EXHIBIT 6F-5

**Applicant:** Motorola, Inc.

**Equipment Type:** ABZ99FT4046

**MOTOROLA INC.**

**TRANSMITTER SPURIOUS EMISSION CHARACTERISTIC  
CONDUCTED SPURIOUS and HARMONIC EMISSIONS**

Reference FCC ID ABZ99FT4046

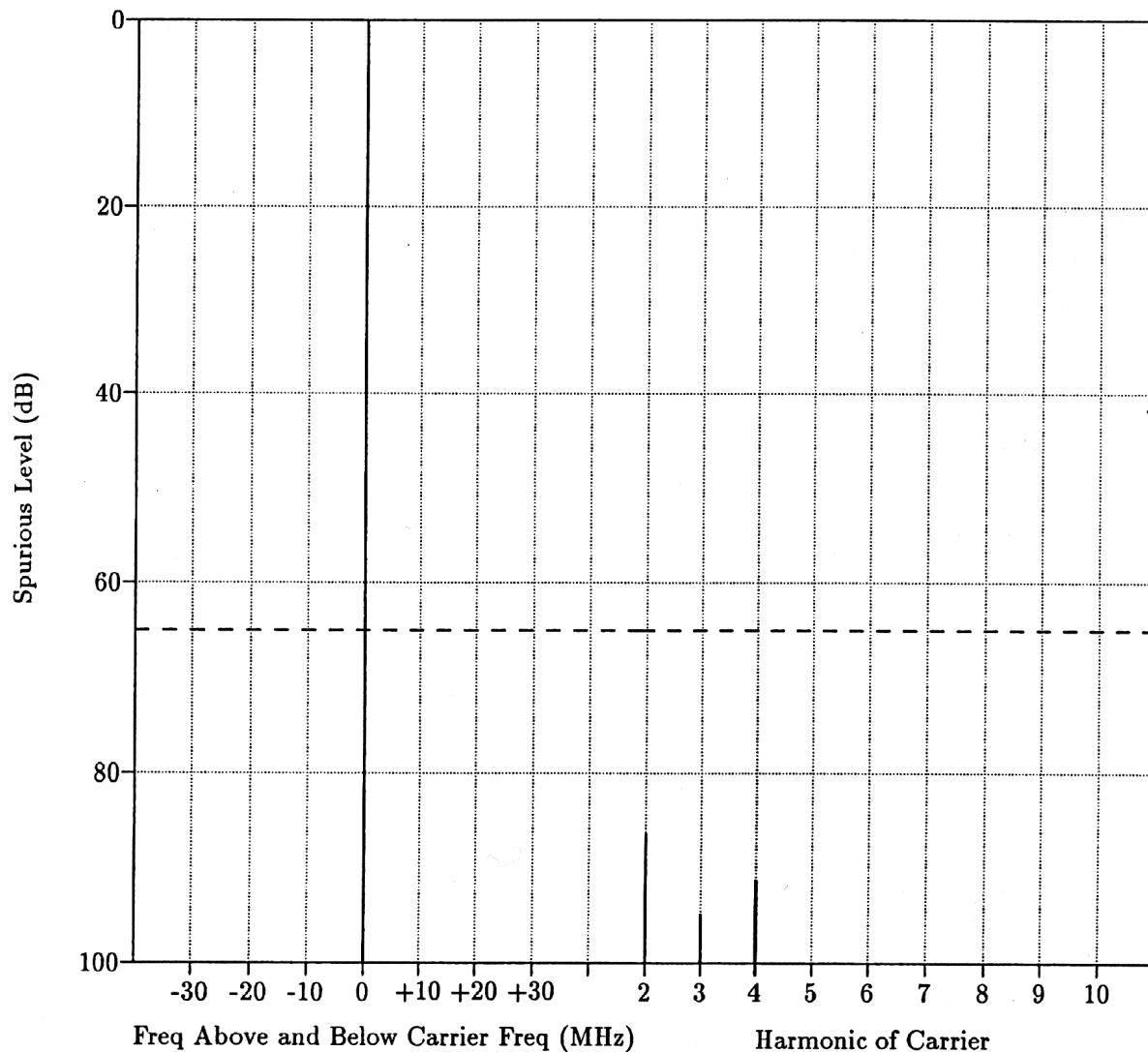
Method SEE EXHIBIT 7

Date 20 JAN 1999

Signature C. Allison

**Transmitter Type:** See Above

**Power Output:** 30.00W at 472.0000MHz



**EXHIBIT 6F-6**

Applicant: Motorola, Inc.

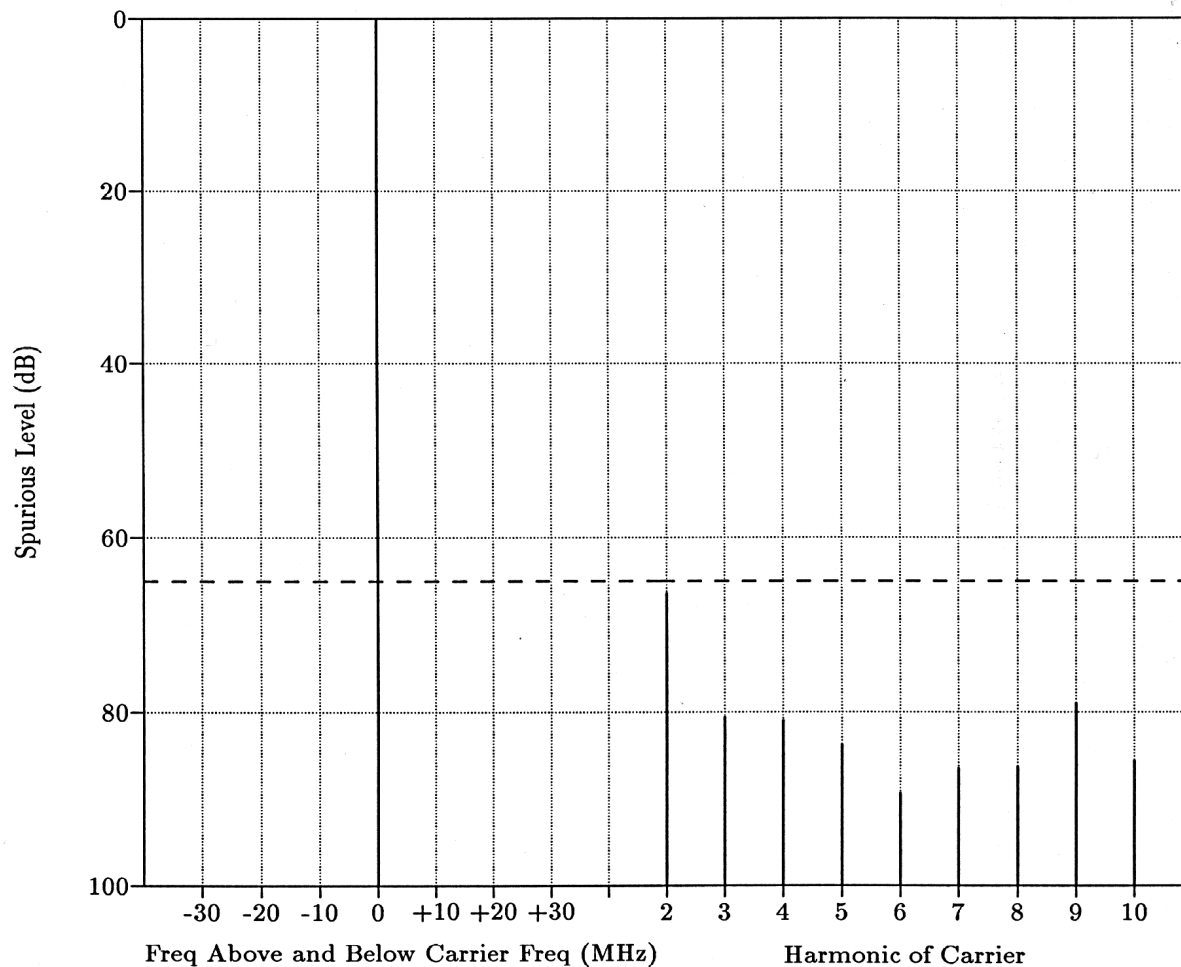
Equipment Type: ABZ99FT4046

**MOTOROLA INC.**

**TRANSMITTER SPURIOUS EMISSION CHARACTERISTIC**  
**RADIATED SPURIOUS and HARMONIC EMISSIONS**

Reference FCC ID ABZ99FT4046  
Method SEE EXHIBIT 7  
Date 29-JAN 1999  
Signature C. Allen

Antenna Polarization: **HORIZONTAL**  
Power Output: **30.00W at 460.0000MHz**



**EXHIBIT 6G-1**

Applicant: Motorola, Inc.

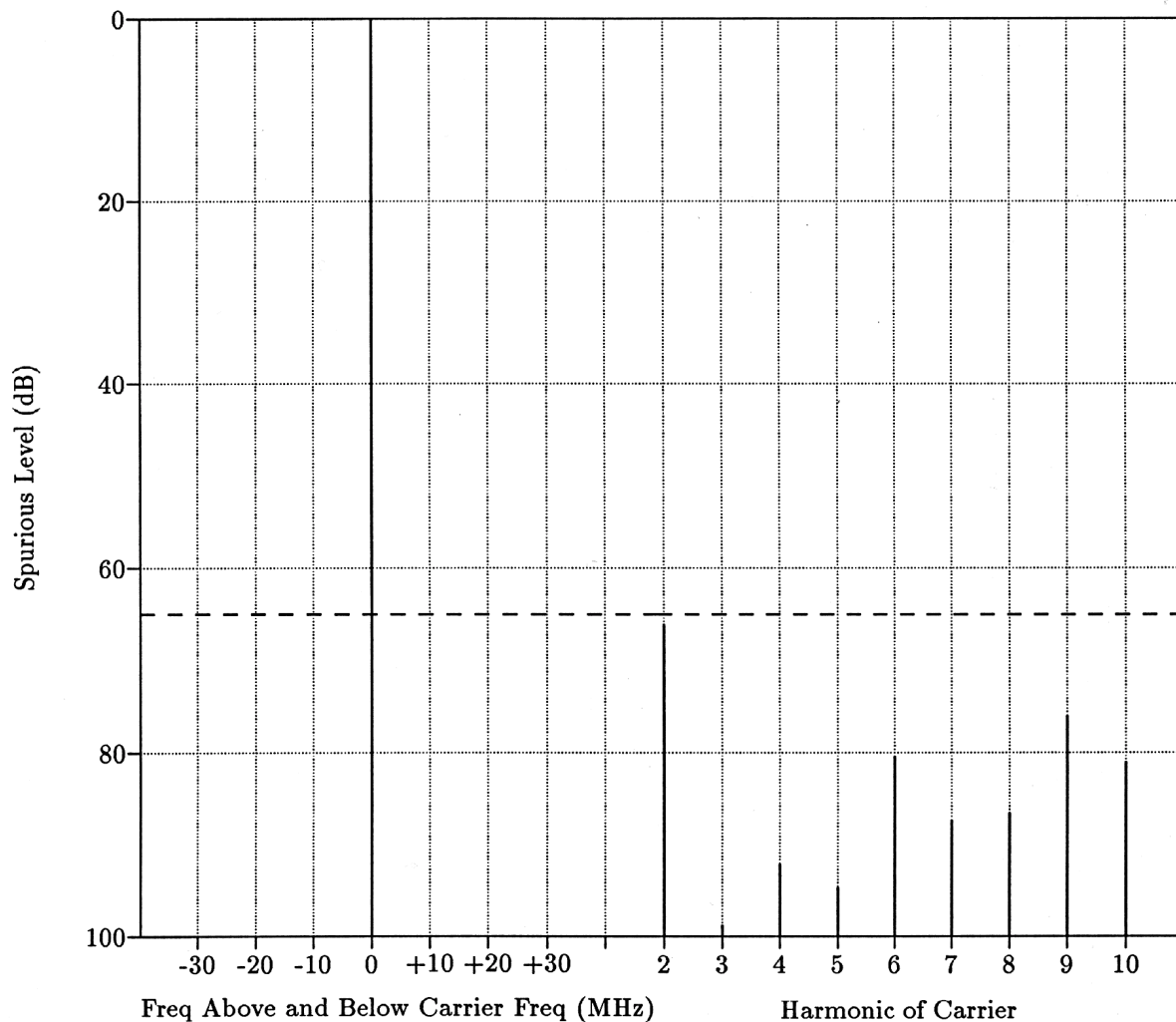
Equipment Type: ABZ99FT4046

**MOTOROLA INC.**

**TRANSMITTER SPURIOUS EMISSION CHARACTERISTIC  
RADIATED SPURIOUS and HARMONIC EMISSIONS**

Reference FCC ID ABZ99FT4046  
Method SEE EXHIBIT 7  
Date 29-JAN 1999  
Signature C. Alban

Antenna Polarization: **VERTICAL**  
Power Output: **30.00W at 460.0000MHz**



**EXHIBIT 6G-2**

Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

**MOTOROLA INC.**  
CRYSTAL OSCILLATOR STABILITY CHARACTERISTIC  
FREQUENCY vs. TEMPERATURE

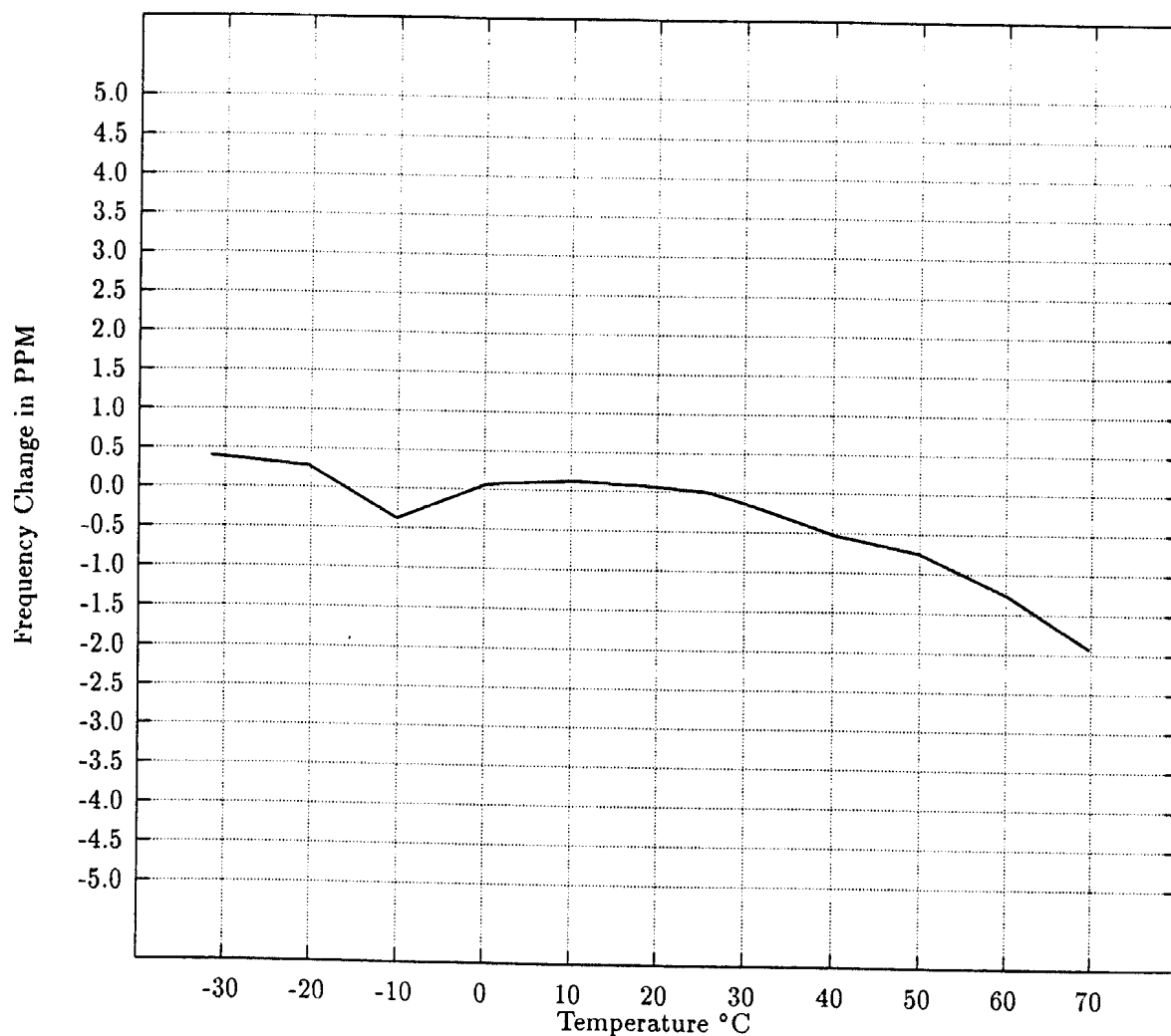
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Reference ABZ99FT 4044

Method SEE EXHIBIT 9m

Date 3 SEPT 1990

Signature *C. D. R.*



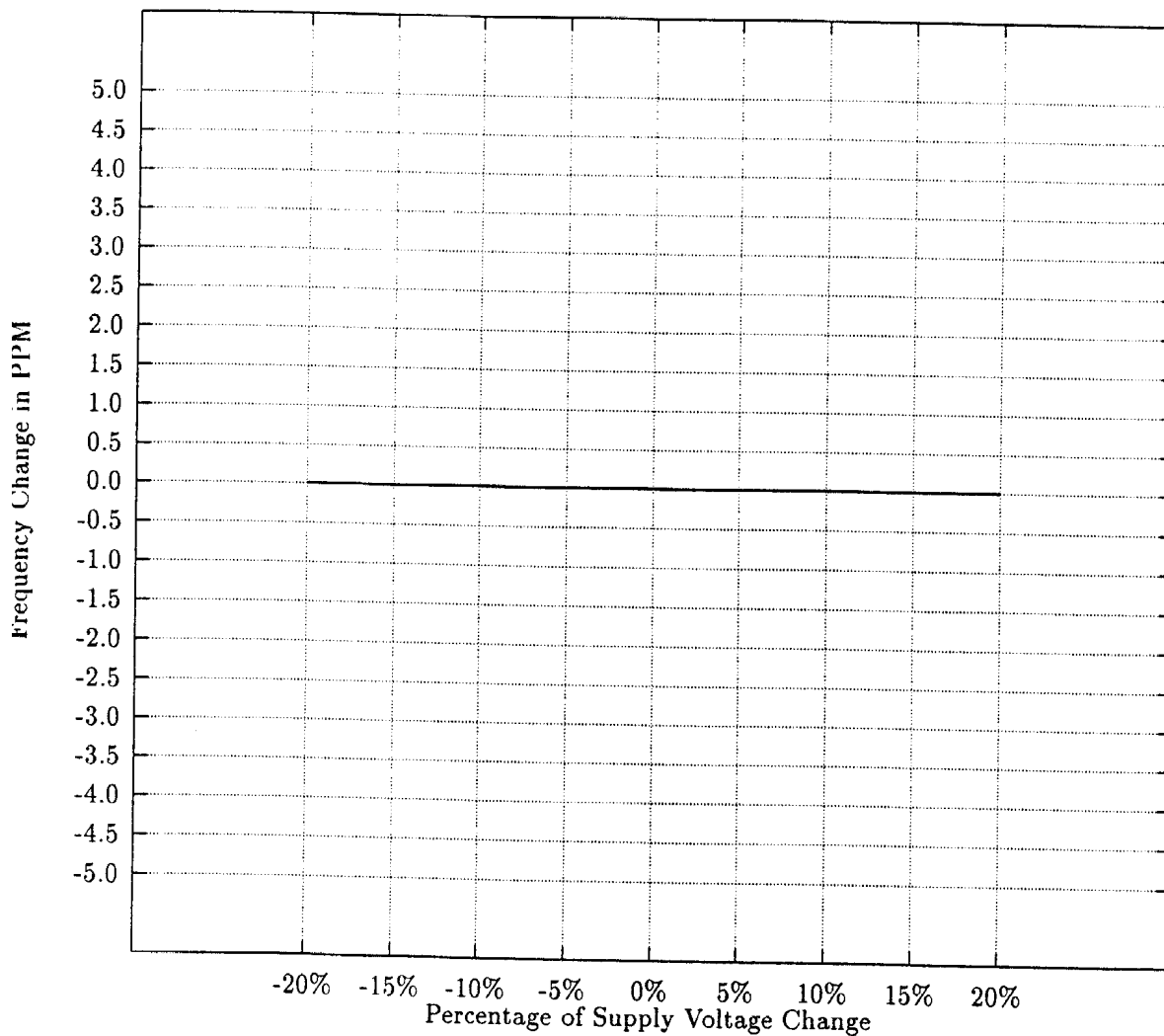


Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

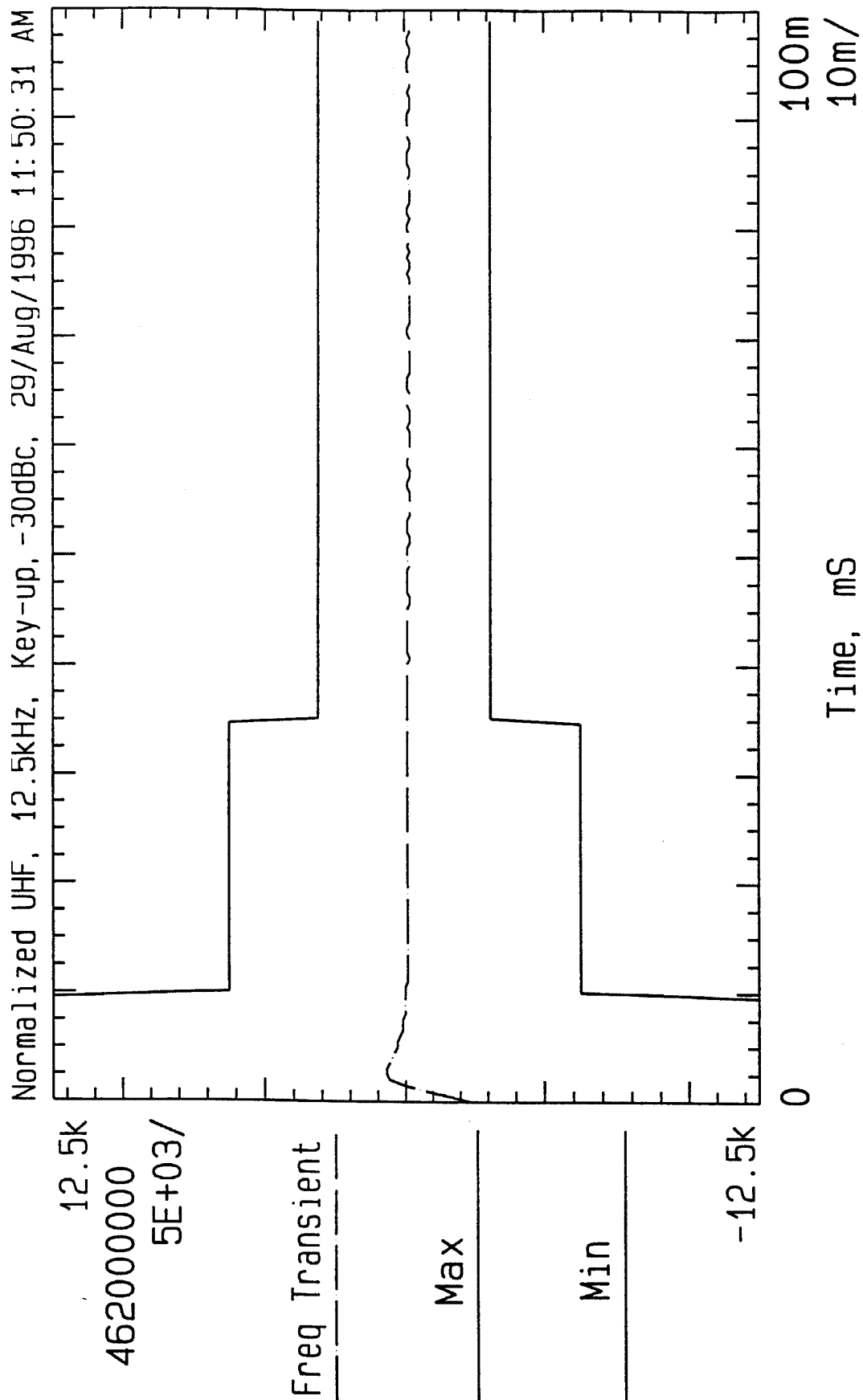
**MOTOROLA INC.**  
STABILITY CHARACTERISTIC  
FREQUENCY vs. VOLTAGE

Reference ABZ99FT 4044  
Method SEE EXHIBIT 9M  
Date 3 SEPT 1994  
Signature Cy D Rj



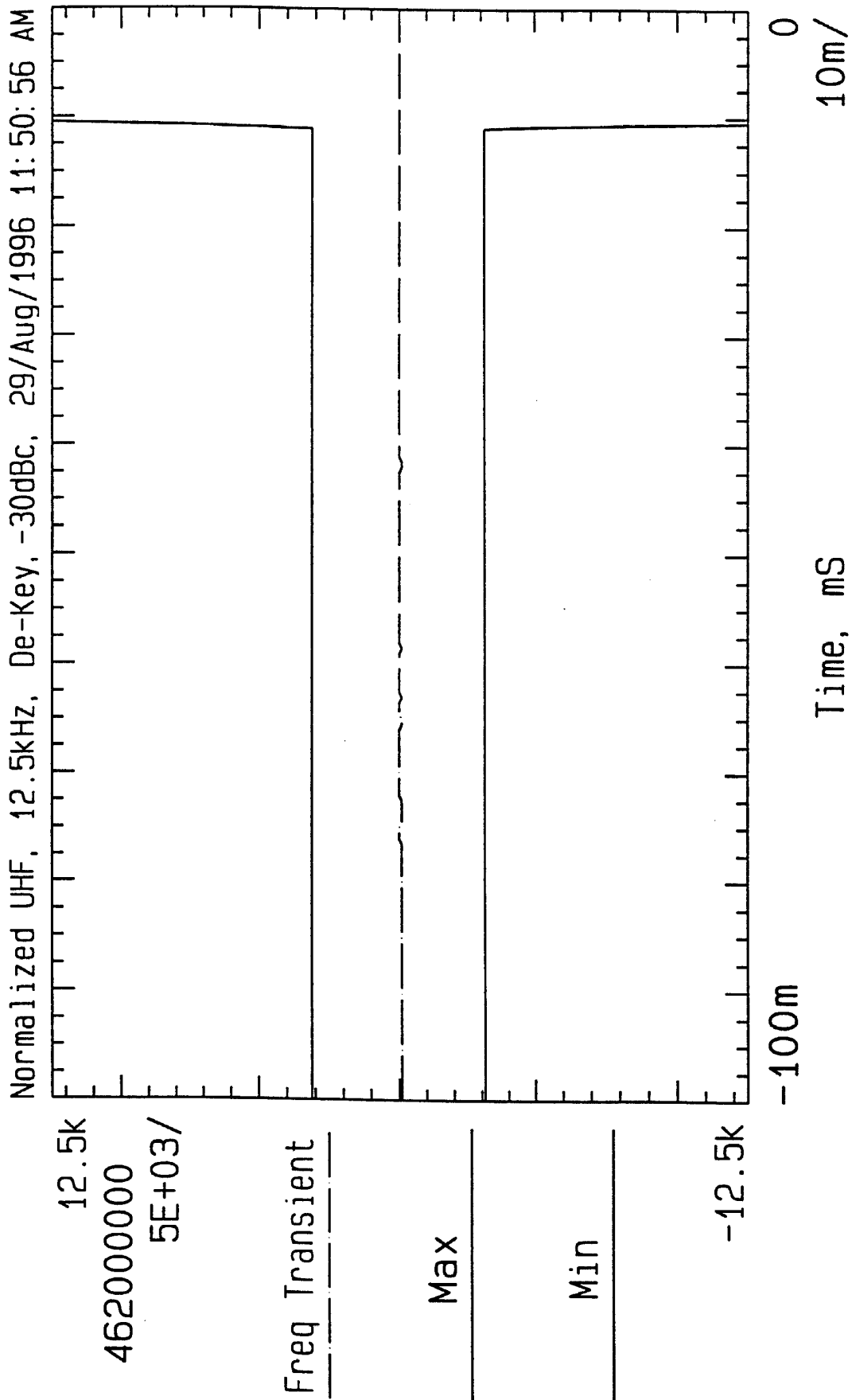
Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046



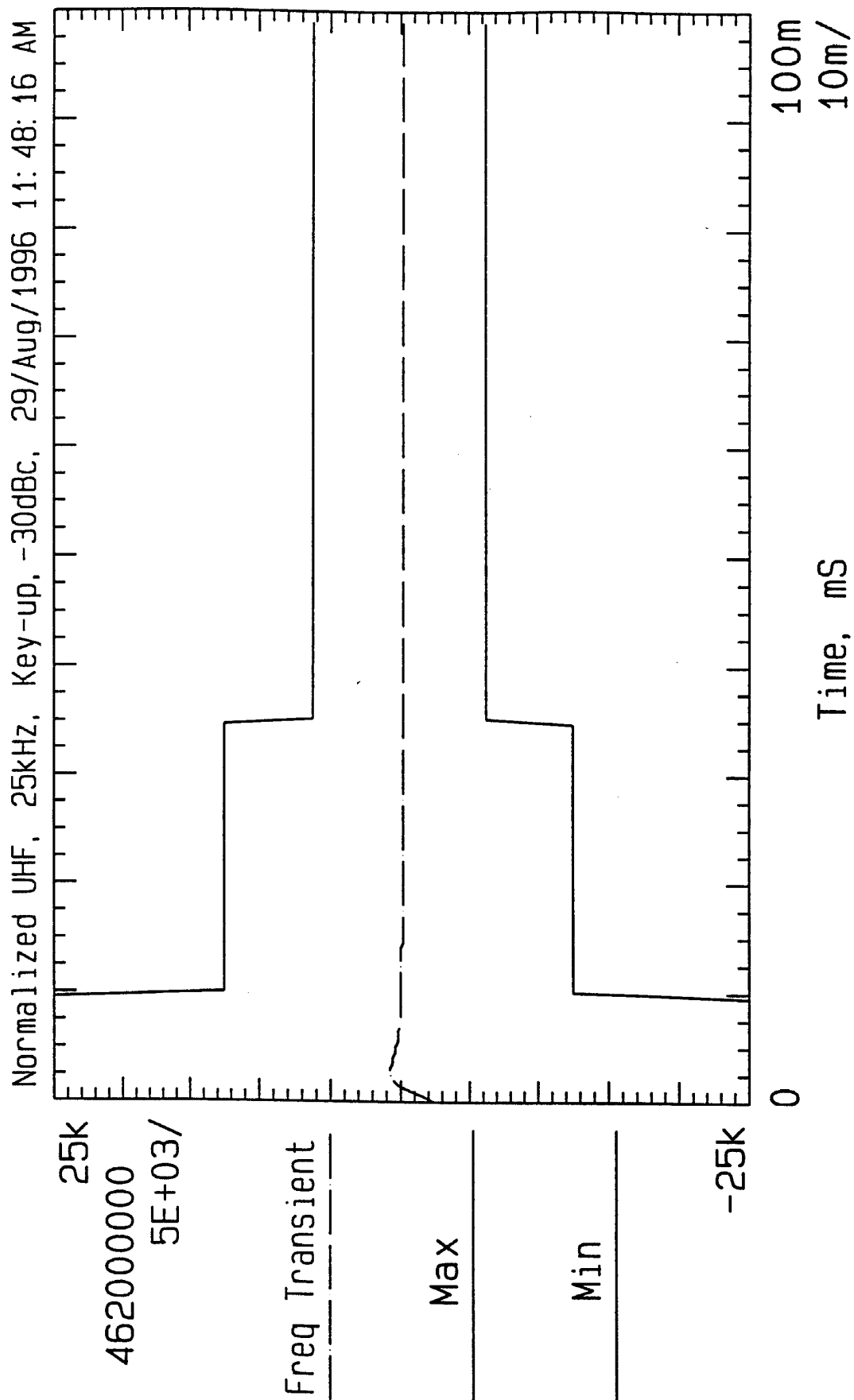
Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046



Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046



Applicant: Motorola, Inc.

Equipment Type: ABZ99FT4046

