



MOTOROLA

FCC ID: AZ489FT3811

Test Report

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EXHIBIT 6



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RF POWER OUTPUT DATA

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device.

1Watt

Frequency	151.70 MHz
Measured Conducted RF output	1.22 Watts
Normal DC Voltage	3.60 Volts
Normal DC Current	870 milliAmps
Primary Supply Voltage	3.80 Volts

RF Conducted output power measured at 3.80Volts

EXHIBIT 6A



MOTOROLA

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Audio Response

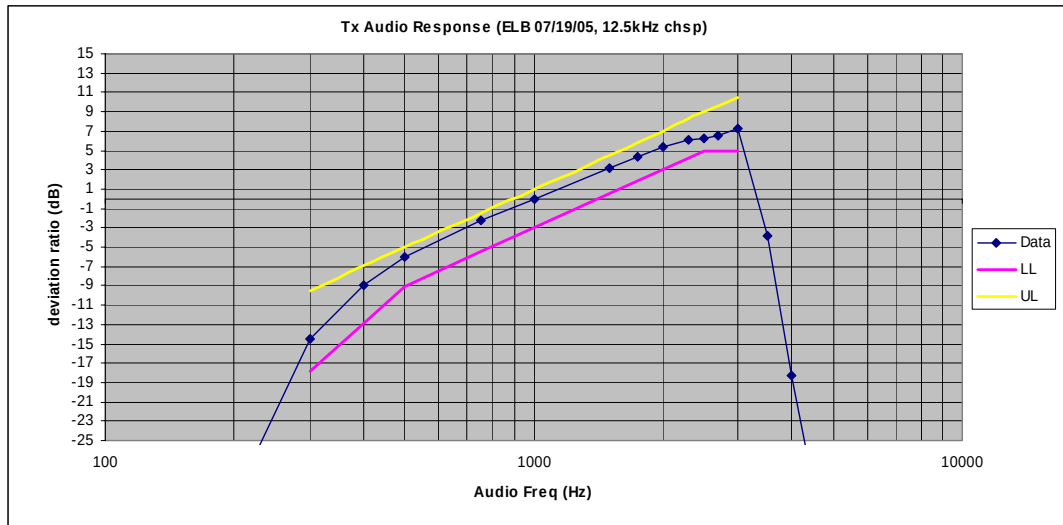


EXHIBIT 6B



MOTOROLA

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MODULATION LIMITING

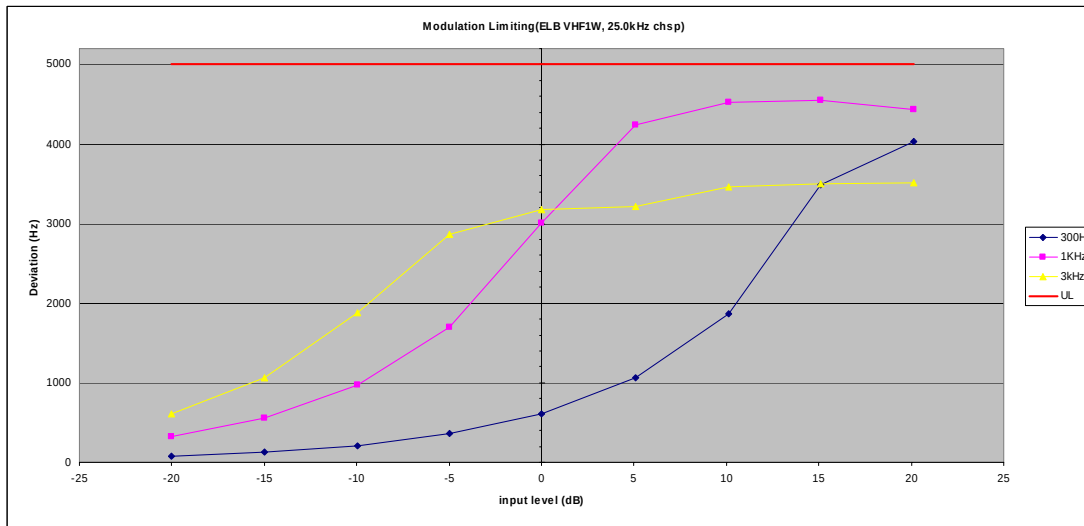
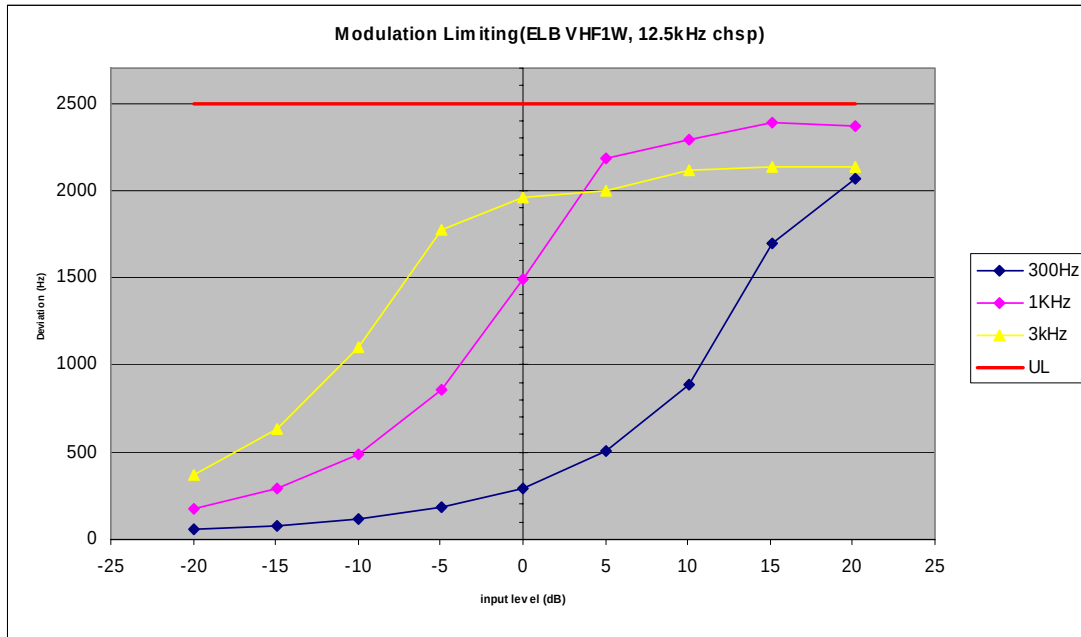


EXHIBIT 6C



MOTOROLA

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OCCUPIED BANDWIDTH DATA

1Watt

12.5 / 25.0 kHz Channel Spacing

EXHIBIT 6D-1

2500 Hz Audio Modulation

Emission Type: 11K0F3E

Specification Mask D, 90.210 – 12.5 kHz

EXHIBIT 6D-2

2500 Hz Audio Modulation

Emission Type: 16K0F3E

Specification Mask B, 90.210 – 25 kHz

EXHIBIT 6D-3

2500 Hz & 77Hz Tone "PL" Modulation

Emission Type: 11K0F3E

Specification Mask D, 90.210 – 12.5 kHz

EXHIBIT 6D-4

2500 Hz & 77Hz Tone "PL" Modulation

Emission Type: 16K0F3E

Specification Mask B, 90.210 – 25 kHz

CARSON'S RULE: 11K0F3E

$BW = 2(M+D)$

$BW = 2$ (3 kHz maximum modulation frequency + 2.5 kHz deviation)

$BW = 2$ (5.5)

$BW = 11K0$

CARSON'S RULE: 16K0F3E

$BW = 2(M+D)$

$BW = 2$ (3 kHz maximum modulation frequency + 5 kHz deviation)

$BW = 2$ (8)

$BW = 16K0$

EXHIBIT 6D



MOTOROLA

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1- Watt 12.5 kHz
Mask D, Rule Part: 90.210
Emission Type: 11K0F3E

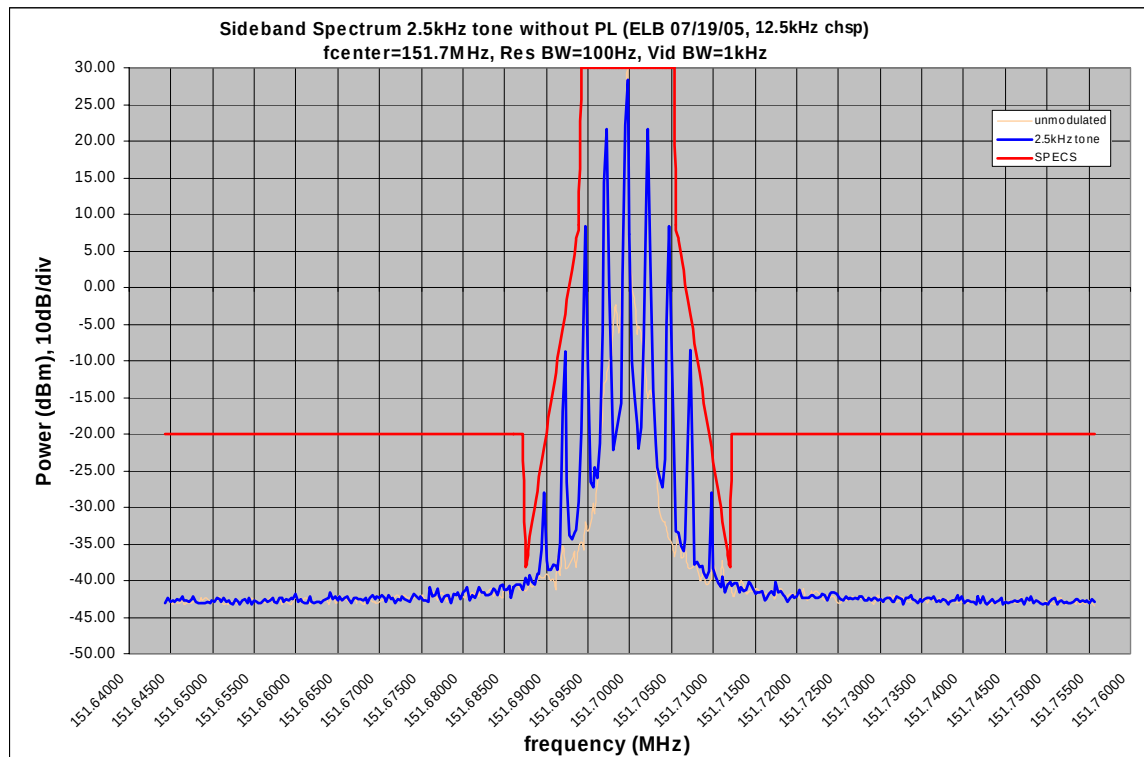


EXHIBIT 6D-1



MOTOROLA

FCC ID: AZ489FT3811

1- Watt 25 kHz
Mask B, Rule Part: 90.210
Emission Type: 16K0F3E

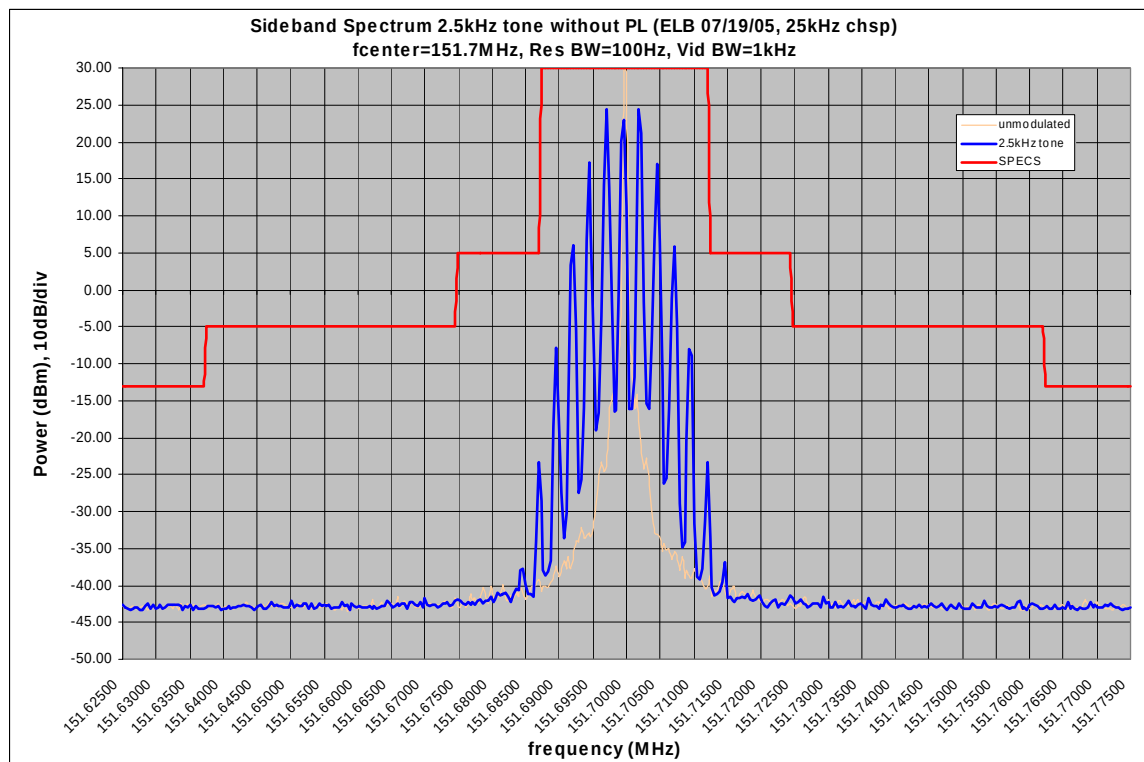


EXHIBIT 6D-2



MOTOROLA

FCC ID: AZ489FT3811

1- Watt 12.5 kHz
2500 Hz & 77Hz Tone "PL" Modulation
Mask D, Rule Part: 90.210
Emission Type: 11K0F3E

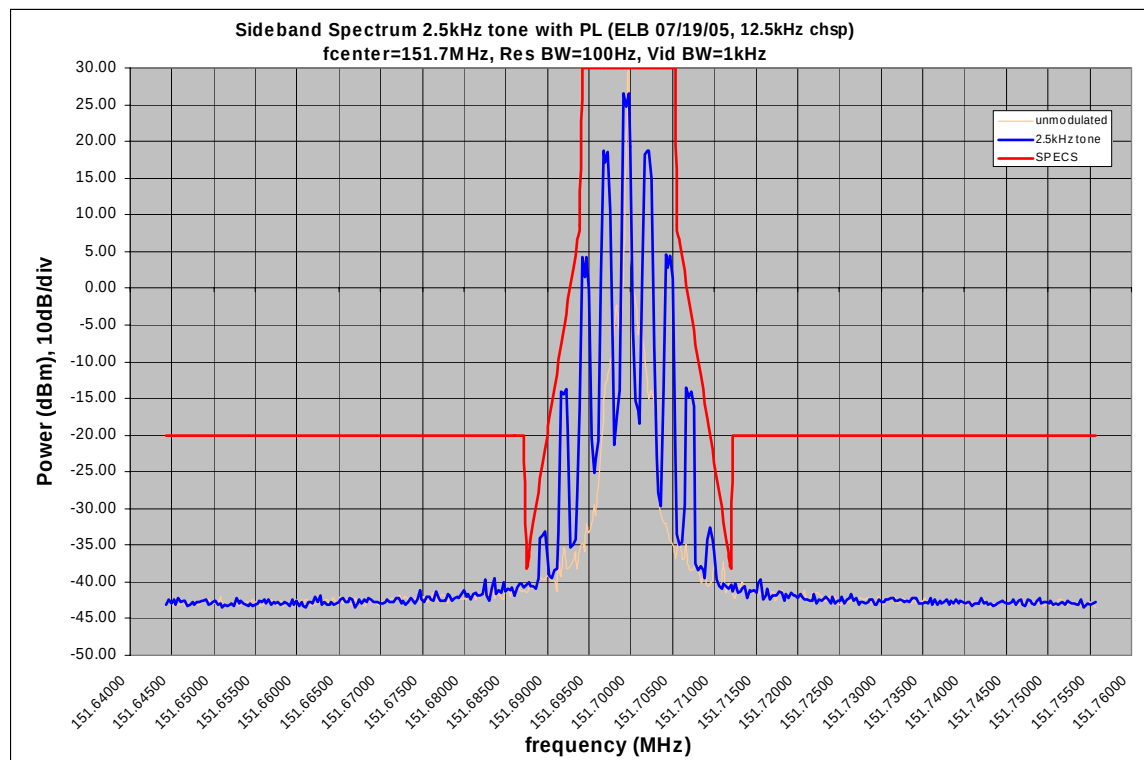


EXHIBIT 6D-3



MOTOROLA

FCC ID: AZ489FT3811

1- Watt 25 kHz
2500 Hz & 77Hz Tone "PL" Modulation
Mask B, Rule Part: 90.210
Emission Type: 16K0F3E

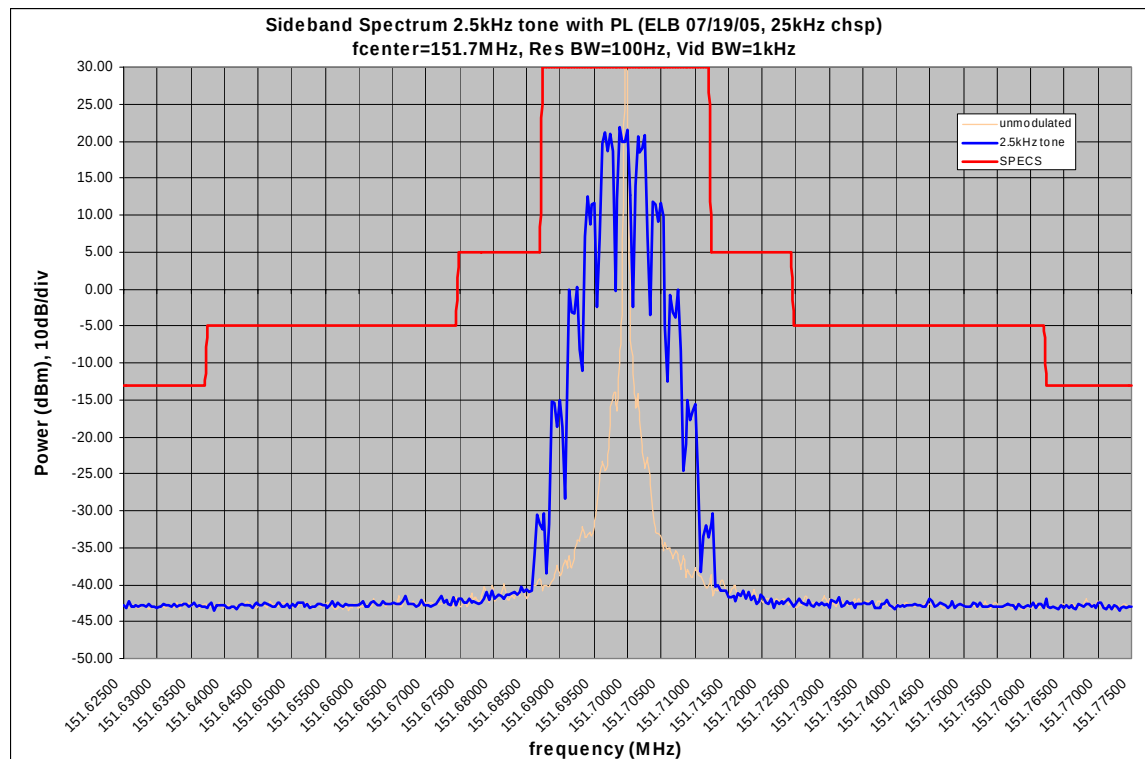


EXHIBIT 6D-4



MOTOROLA

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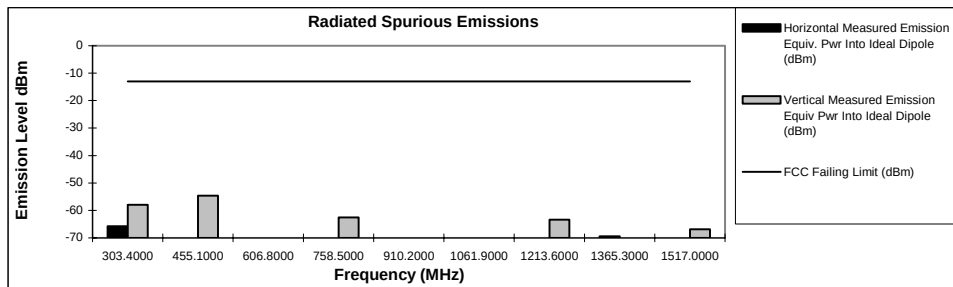
Transmit Radiated Spurious Emissions: **ELB VHF**

Tx Power: 1 Watts

151.7 MHz

Channel Spacing 25KHZ | S/N SN001

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
303.4000	-13	-65.72	-57.99
455.1000	-13	-73.22	-54.58
606.8000	-13	*	*
758.5000	-13	-74.29	-62.60
910.2000	-13	*	*
1061.9000	-13	*	*
1213.6000	-13	-70.79	-63.36
1365.3000	-13	-69.43	*
1517.0000	-13	-71.53	-66.93



* Indicates the spurious emission could not be detected due to noise limitations or ambients.

The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Motorola Plantation EMC Lab – Test Performed by: Curt Mc Lennan
FCC Registration: 91932 / Industry Canada: IC3679

August 11, 2005

EXHIBIT 6E-1



MOTOROLA

Motorola Inc.

FCC ID: AZ489FT3811

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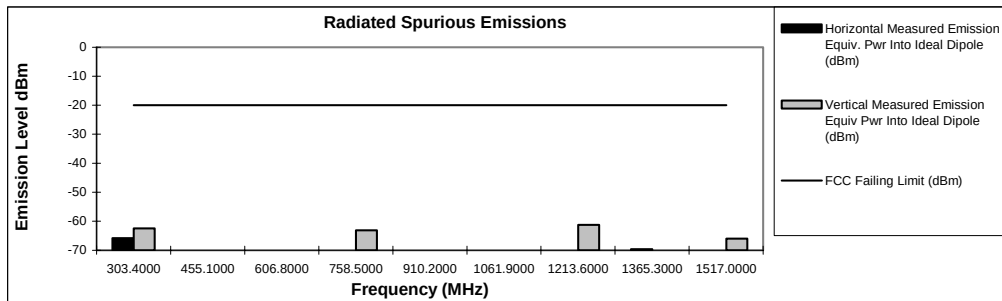
Transmit Radiated Spurious Emissions: ELB VHF

Tx Power: 1 Watts

151.7 MHz

Channel Spacing 12.5KHZ | S/N SN001

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
303.4000	-20	-65.89	-62.48
455.1000	-20	-72.48	*
606.8000	-20	*	*
758.5000	-20	-74.32	-63.10
910.2000	-20	-75.45	*
1061.9000	-20	*	*
1213.6000	-20	-70.86	-61.21
1365.3000	-20	-69.64	*
1517.0000	-20	-72.06	-66.06



* Indicates the spurious emission could not be detected due to noise limitations or ambients.

The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Motorola Plantation EMC Lab – Test Performed by: Curt Mc Lennan

August 11, 2005

FCC Registration: 91932 / Industry Canada: IC3679

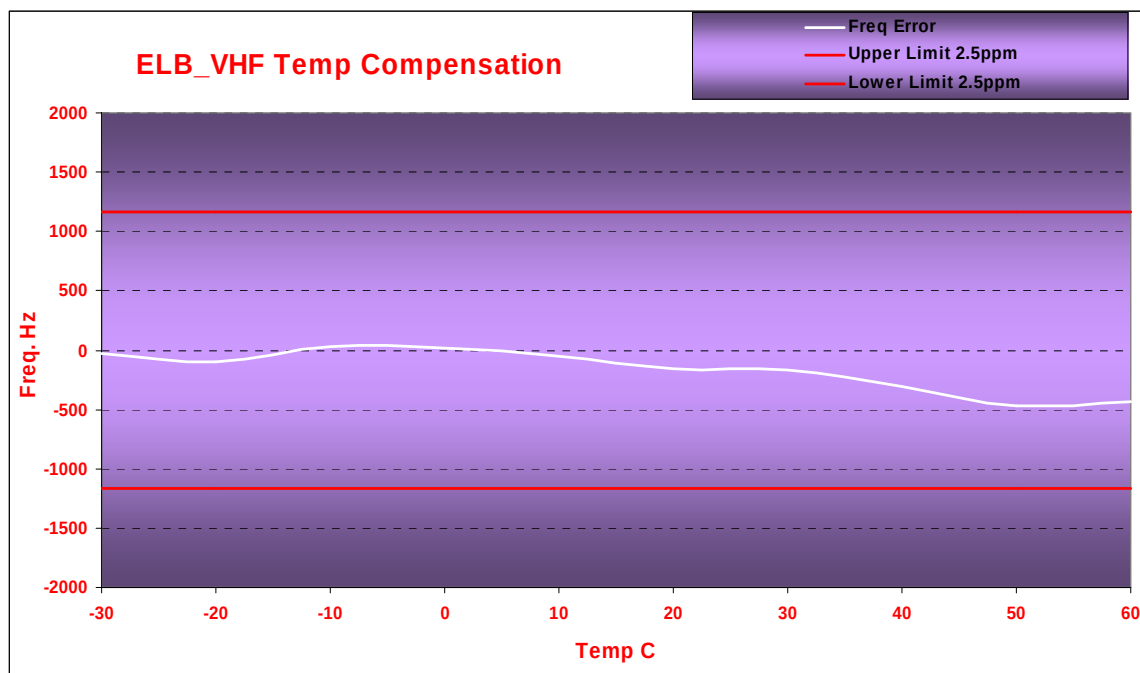
EXHIBIT 6E-2



MOTOROLA

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Frequency Stability over Temperature



Reset Voltage 3.0V

EXHIBIT 6F-1



MOTOROLA

FCC ID: AZ489FT3811

1Watt
Frequency Error over Voltage

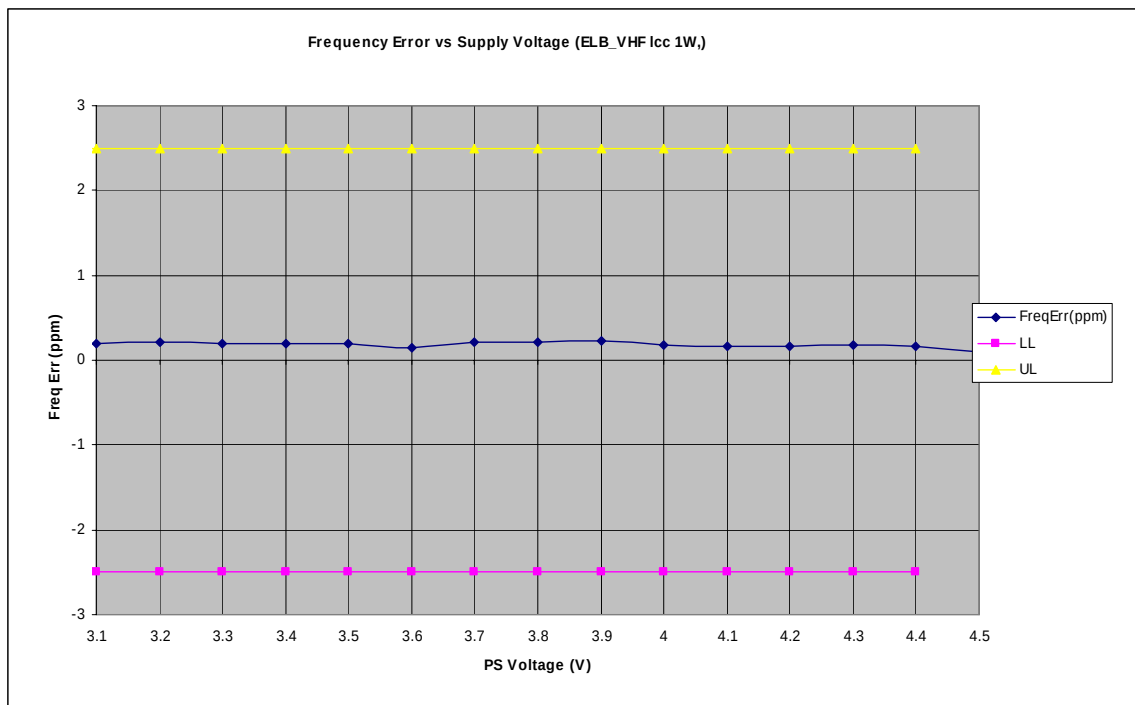


EXHIBIT 6F-2



MOTOROLA

FCC ID: AZ489FT3811

Transient Frequency Response TX on 1 Watt 12.5 kHz

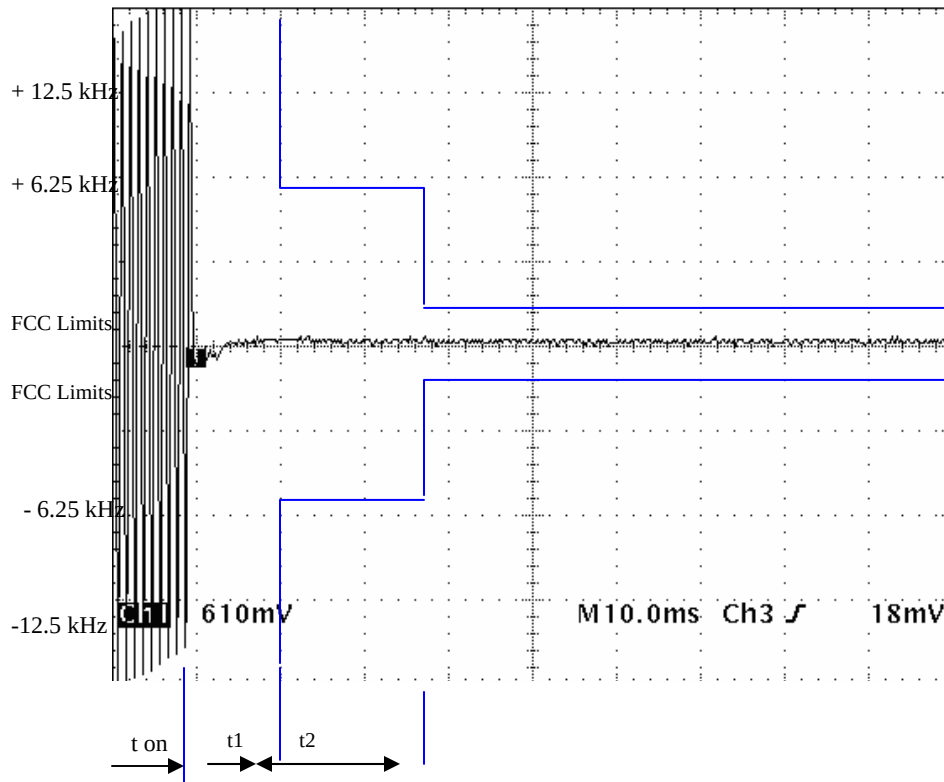


EXHIBIT 6G-1



MOTOROLA

FCC ID: AZ489FT3811

Transient Frequency Response TX off 1 Watt 12.5 kHz

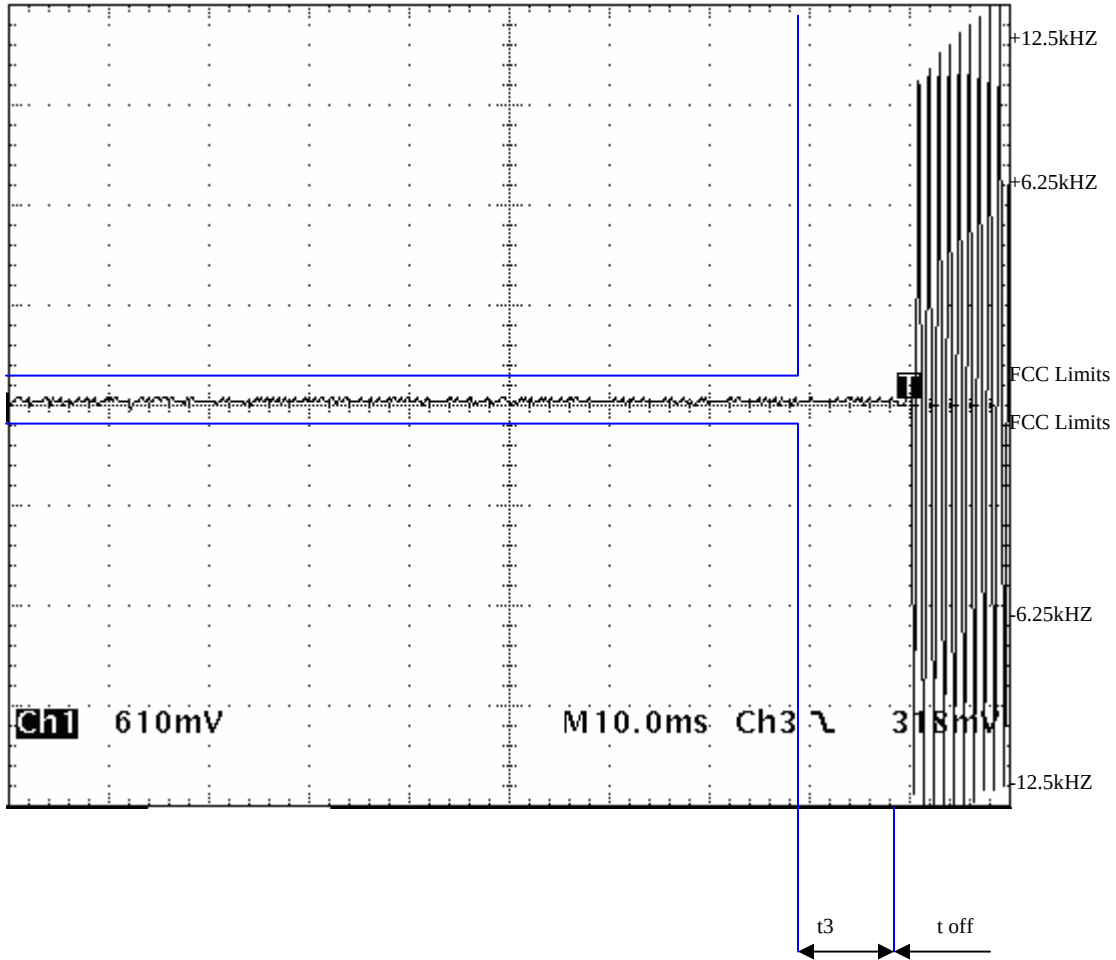


EXHIBIT 6G-2



MOTOROLA

FCC ID: AZ489FT3811

Transient Frequency Response TX on1 Watt 25 kHz

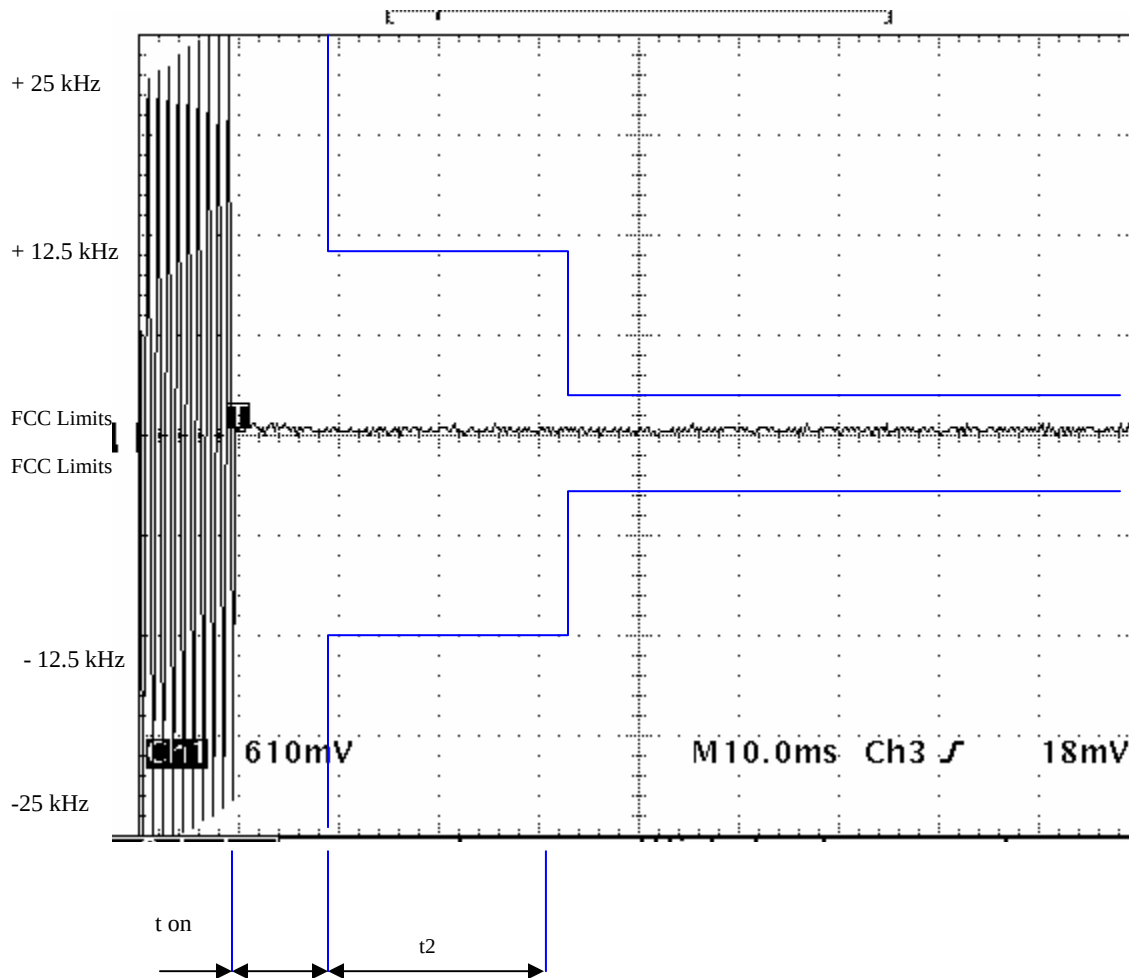


EXHIBIT 6G-3



MOTOROLA

FCC ID: AZ489FT3811

Transient Frequency Response TX off 1 Watt 25 kHz

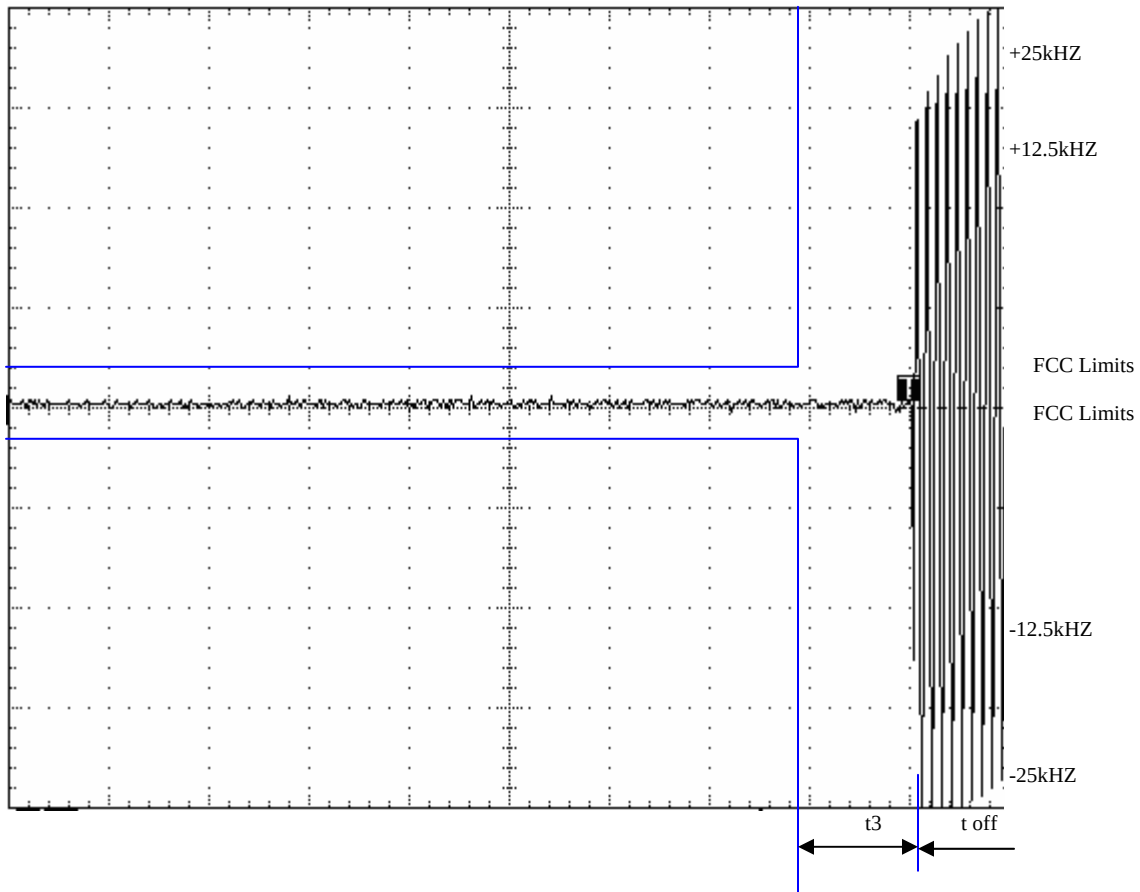


EXHIBIT 6G-4