

**MOTOROLA**

FCC ID: AZ489FT3803

Test Report

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EXHIBIT 6



MOTOROLA

FCC ID: AZ489FT3803

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	151.70MHz
Measured Conducted RF output	1.21 Watts
Normal DC Voltage	4.80 Volts
Normal DC Current	760 milli amps
Primary Supply Voltage	4.80 Volts
RF Conducted output power measured at 4.80Volts	

2 Watt

Frequency	151.70MHz
Measured Conducted RF output	2.34 Watts
Normal DC Voltage	4.80 Volts
Normal DC Current	1.15 Amps
Primary Supply Voltage	4.80 Volts
RF Conducted output power measured at 4.80Volts	

EXHIBIT 6A



MOTOROLA

FCC ID: AZ489FT3803

AUDIO RESPONSE

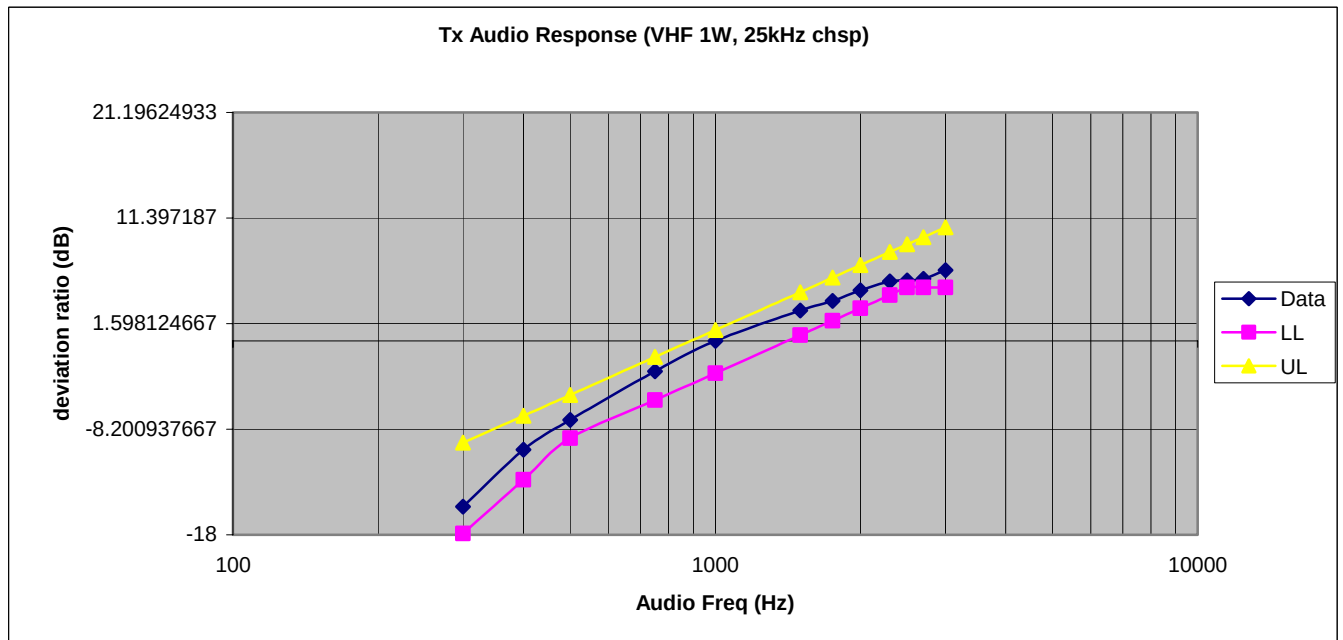
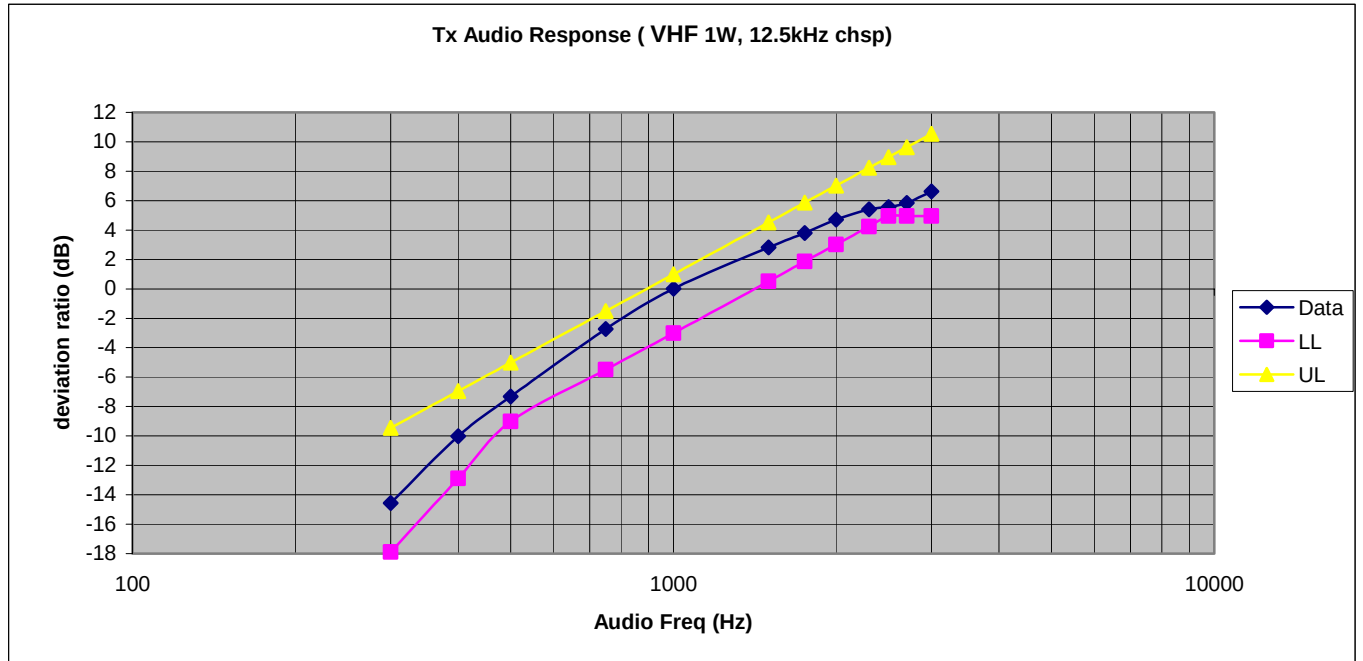


EXHIBIT 6B-1



MOTOROLA

FCC ID: AZ489FT3803

AUDIO RESPONSE

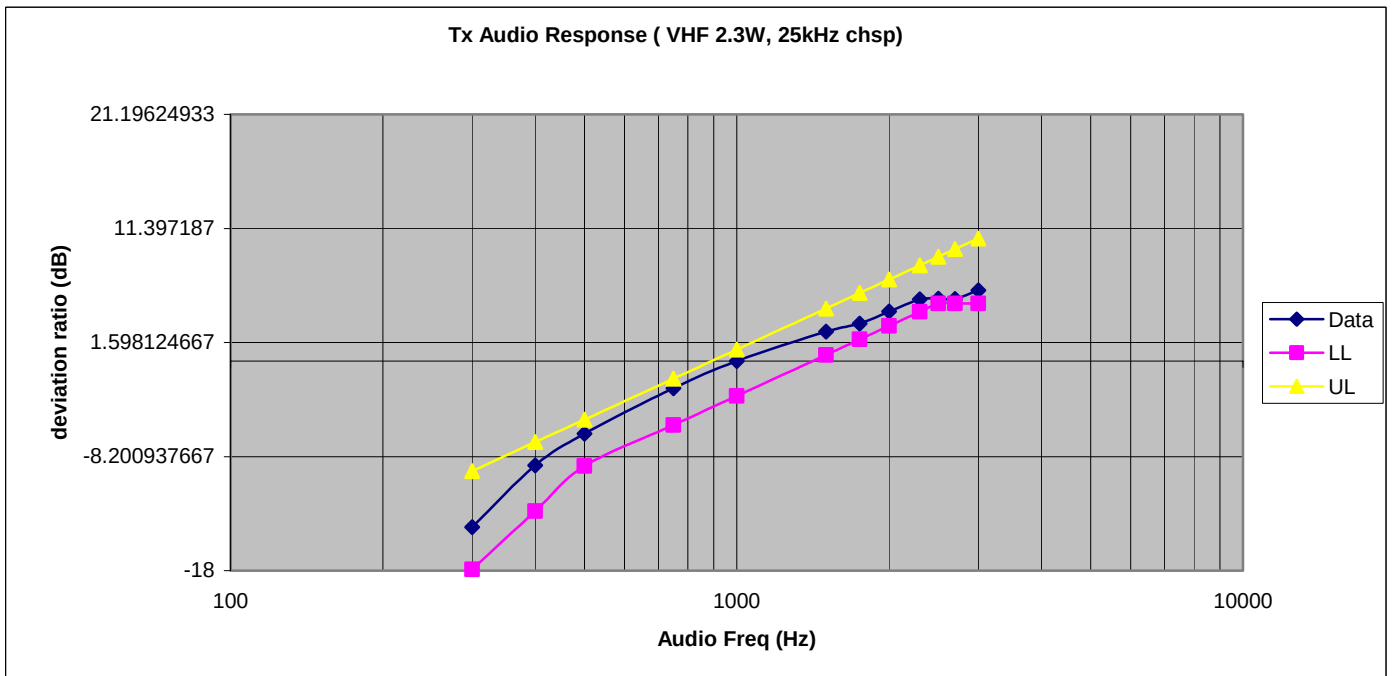
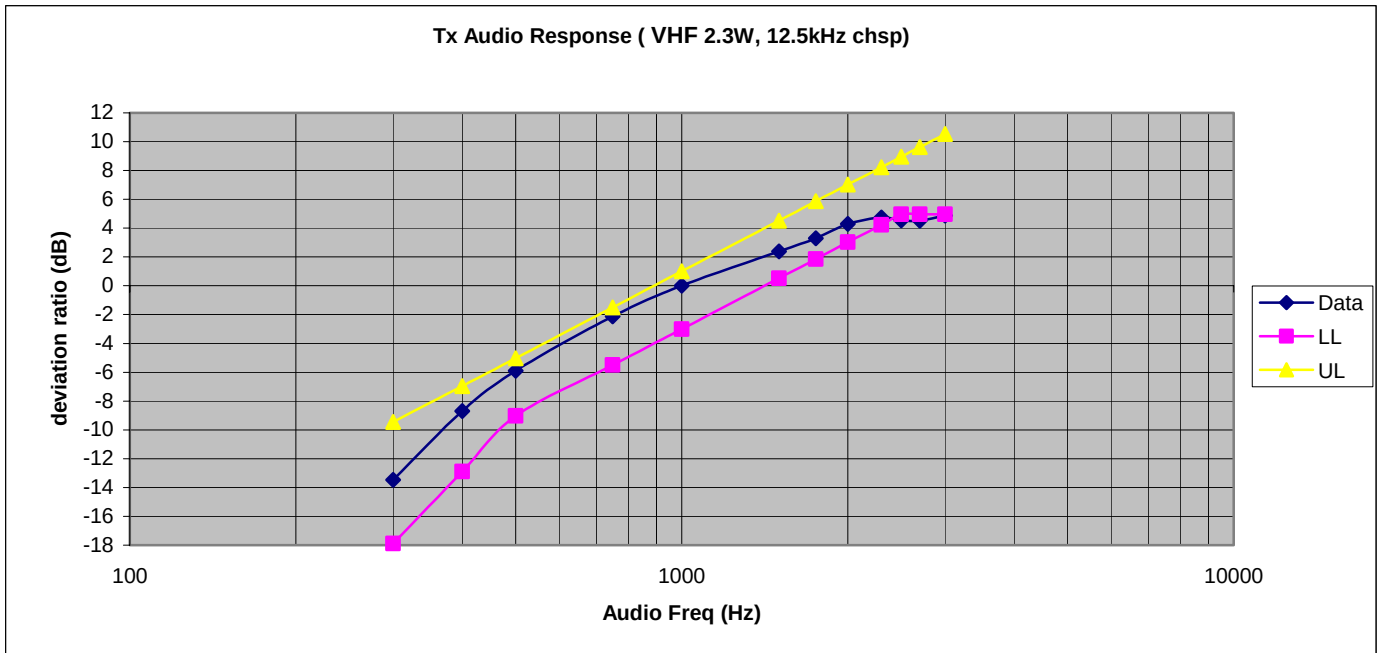


EXHIBIT 6B-2



MOTOROLA

FCC ID: AZ489FT3803

MODULATION LIMITING

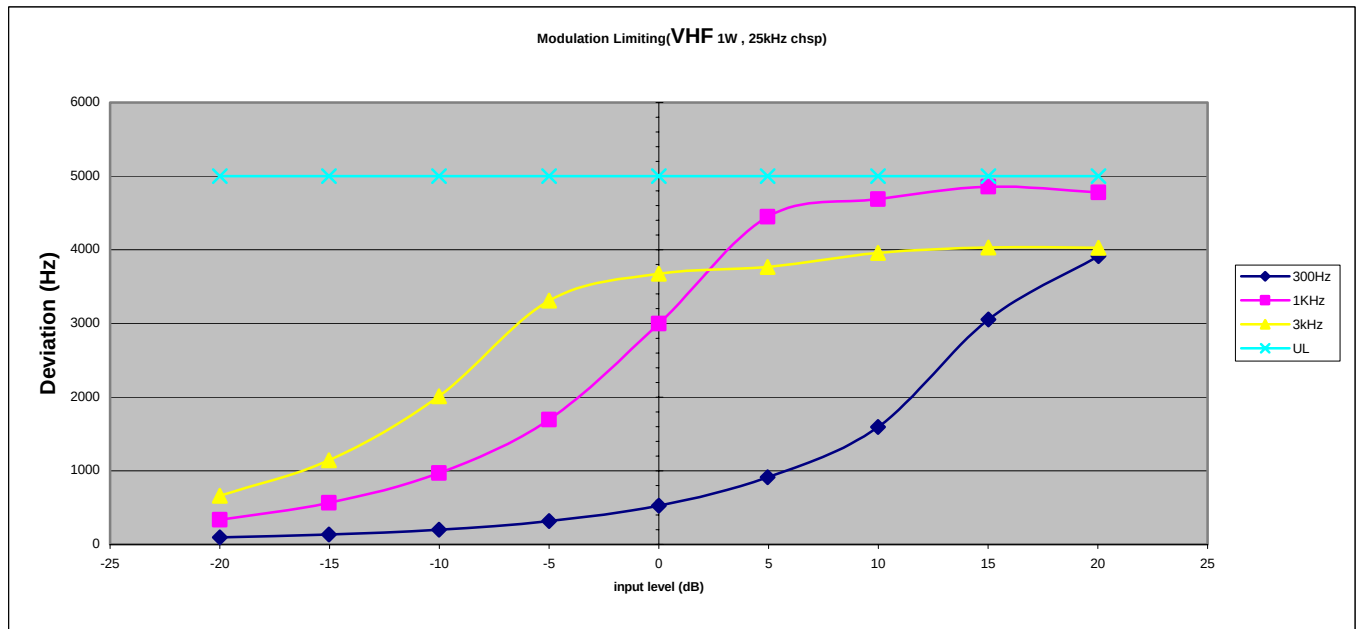
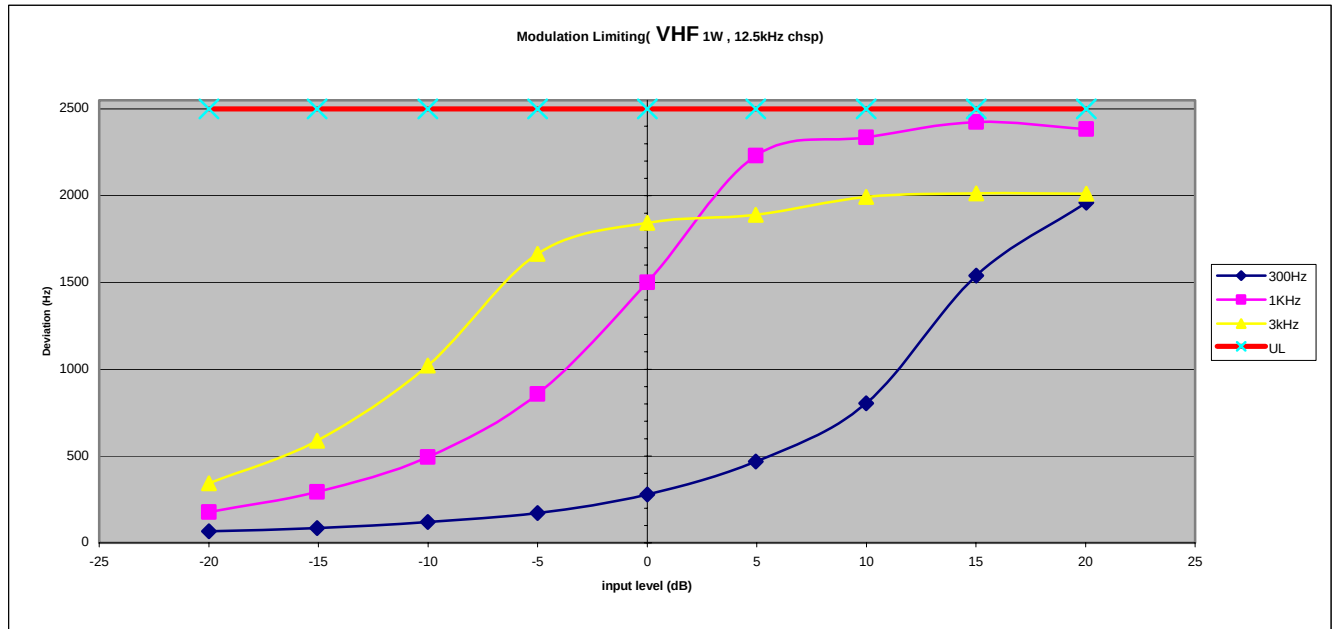


EXHIBIT 6C-1



MOTOROLA

FCC ID: AZ489FT3803

MODULATION LIMITING

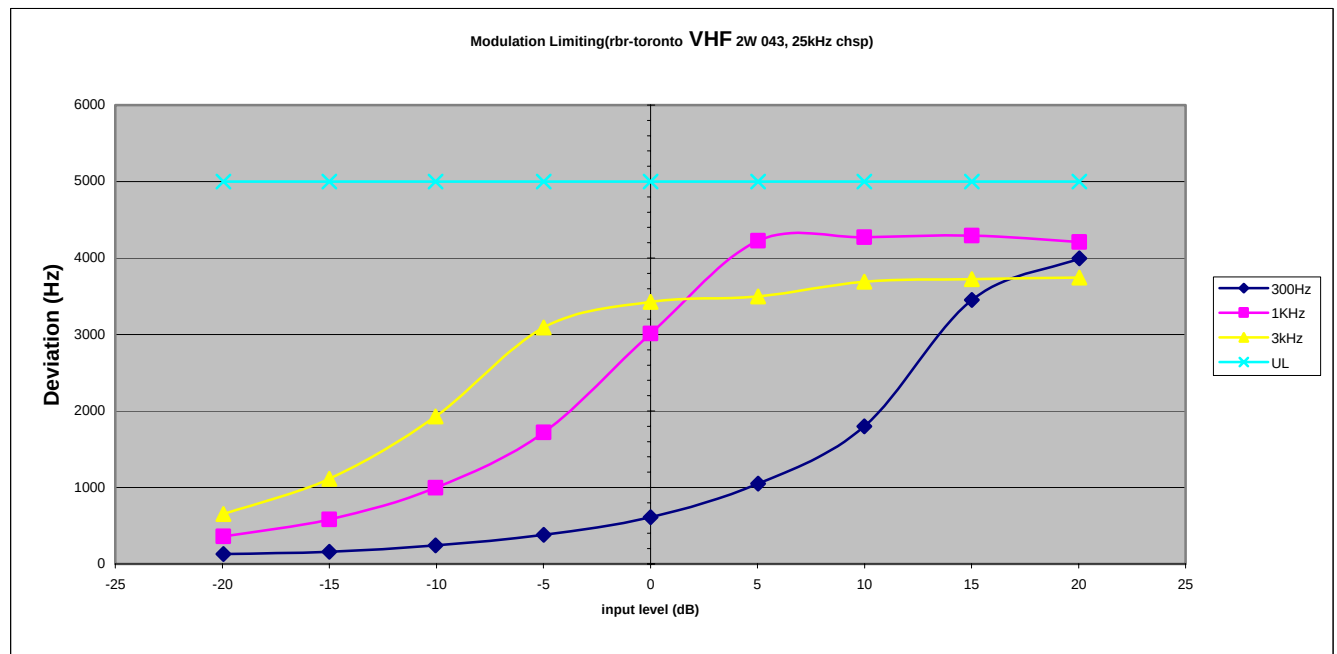
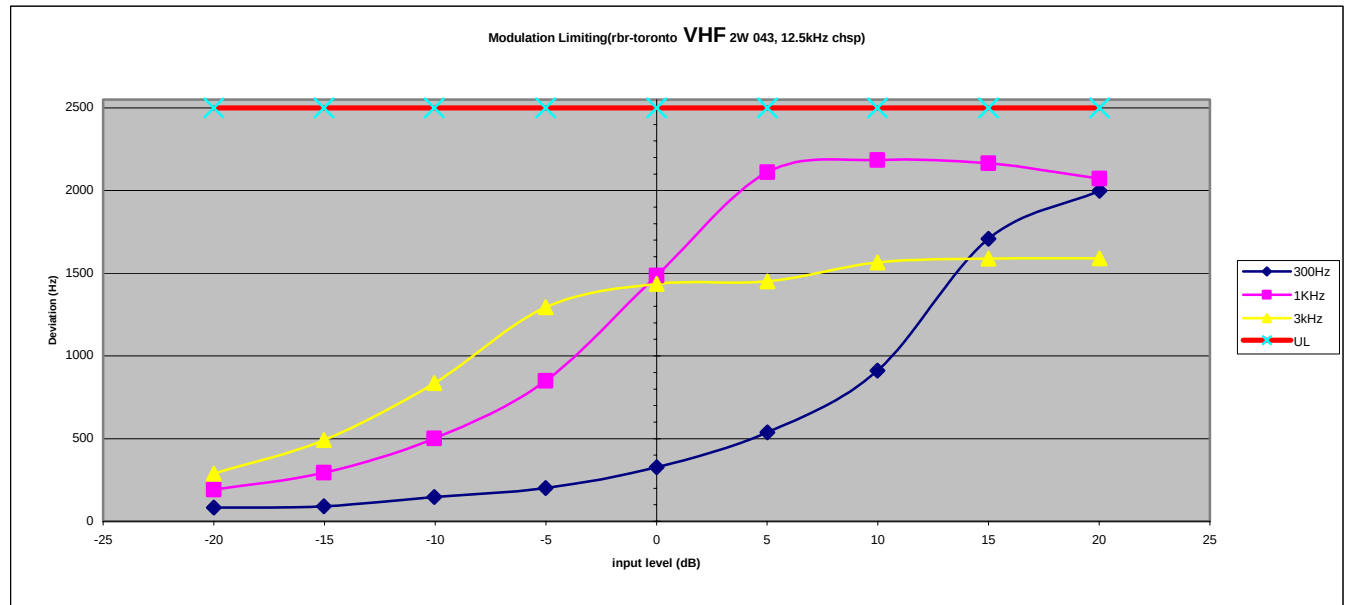


EXHIBIT 6C-2



MOTOROLA

FCC ID: AZ489FT3803

OCCUPIED BANDWIDTH DATA

12.5 kHz / 25 kHz Channel Spacing

1 Watt

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

2 Watt

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



MOTOROLA

FCC ID: AZ489FT3803

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

FCC ID: AZ489FT3803

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

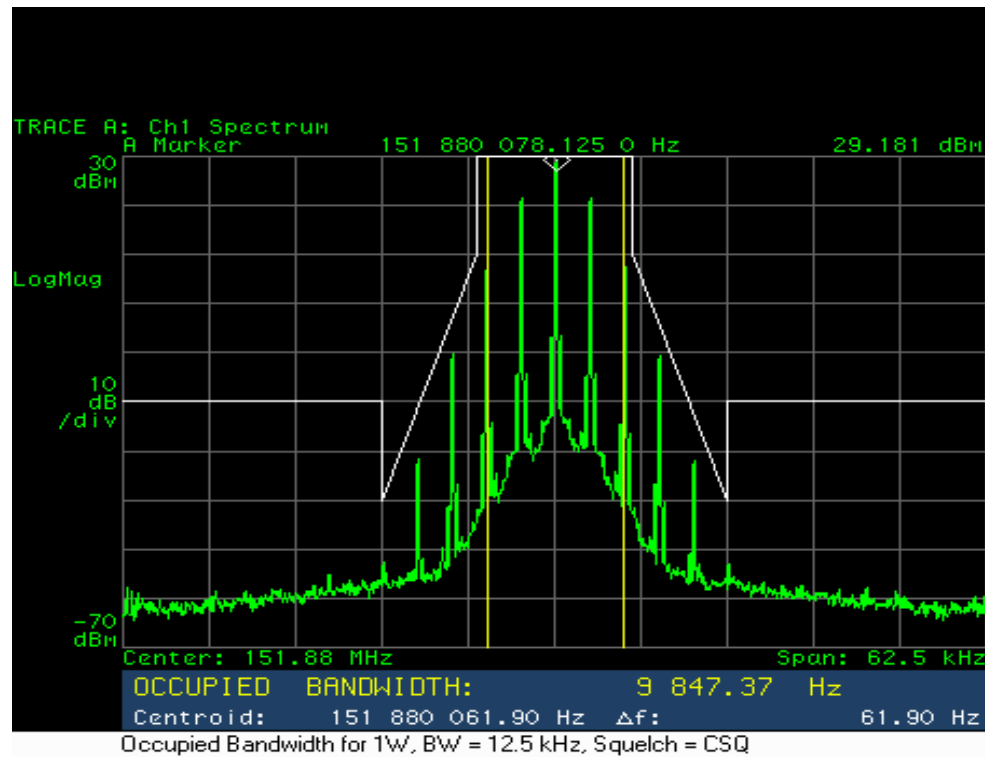


EXHIBIT 6D-1



MOTOROLA

FCC ID: AZ489FT3803

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

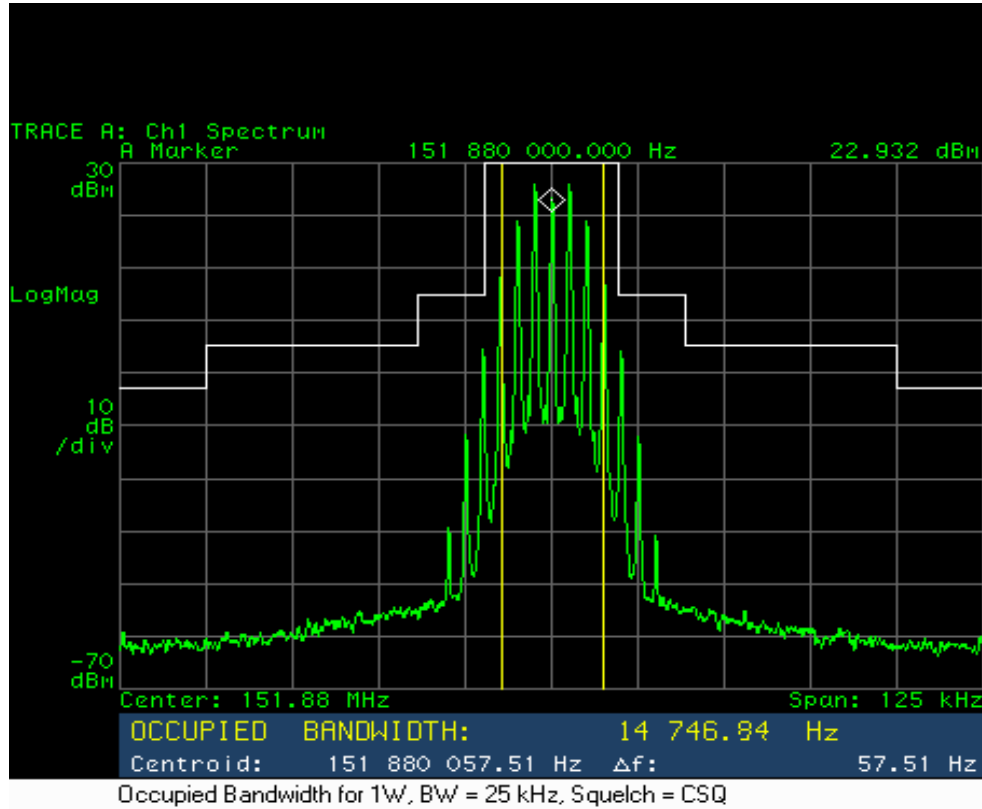


EXHIBIT 6D-2



MOTOROLA

FCC ID: AZ489FT3803

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

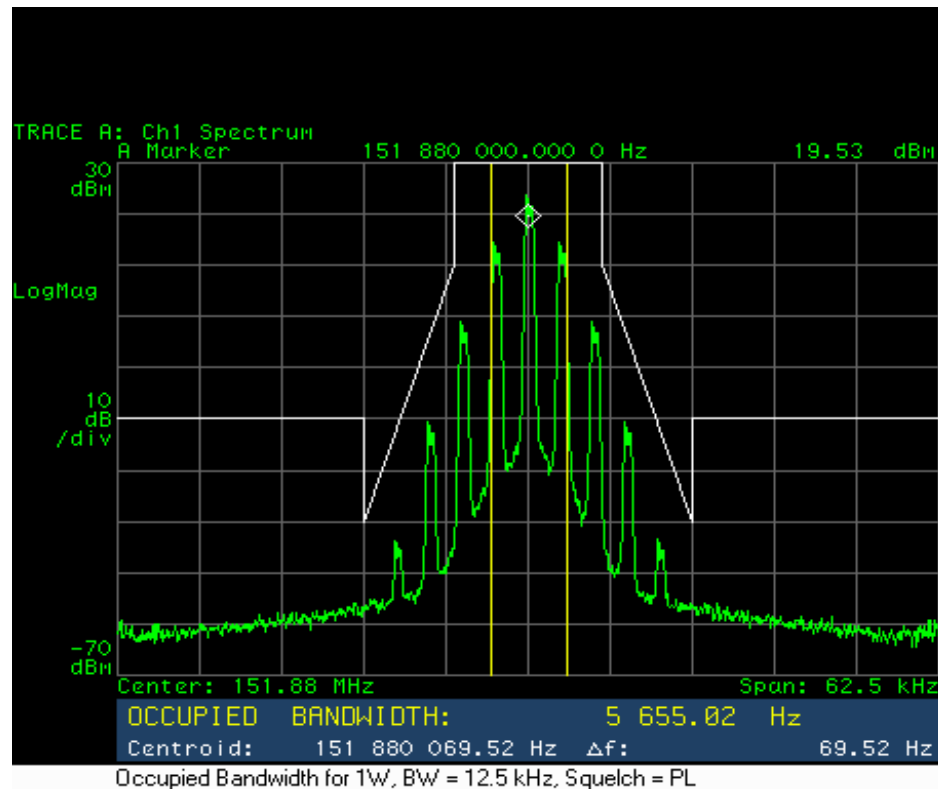


EXHIBIT 6D-3



MOTOROLA

FCC ID: AZ489FT3803

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

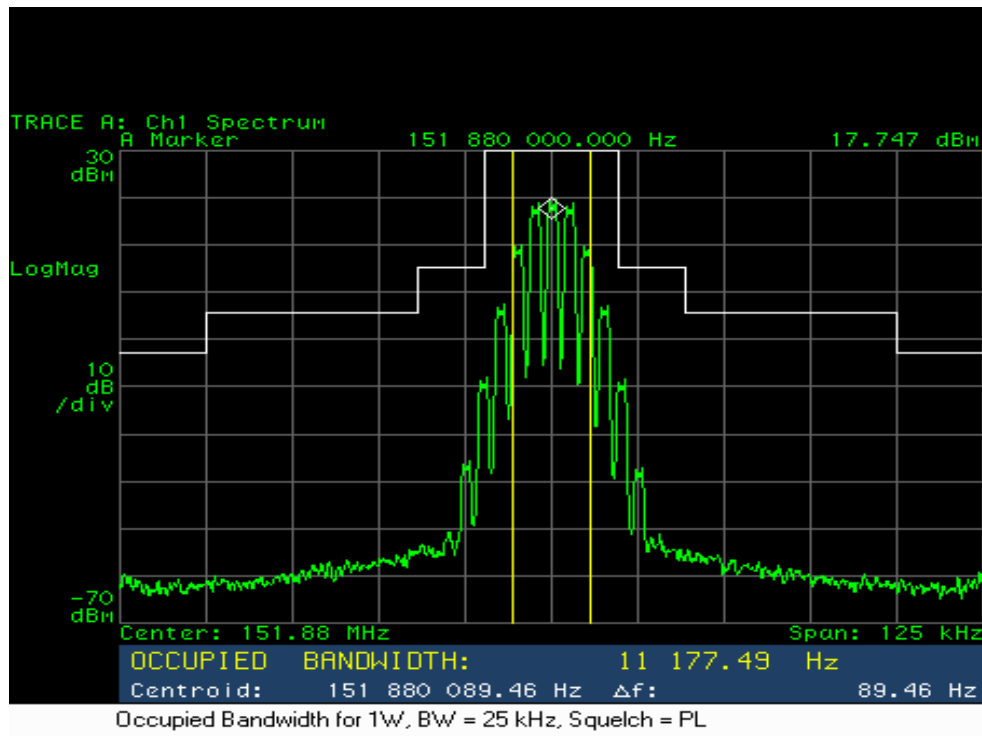


EXHIBIT 6D-4



MOTOROLA

FCC ID: AZ489FT3803

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

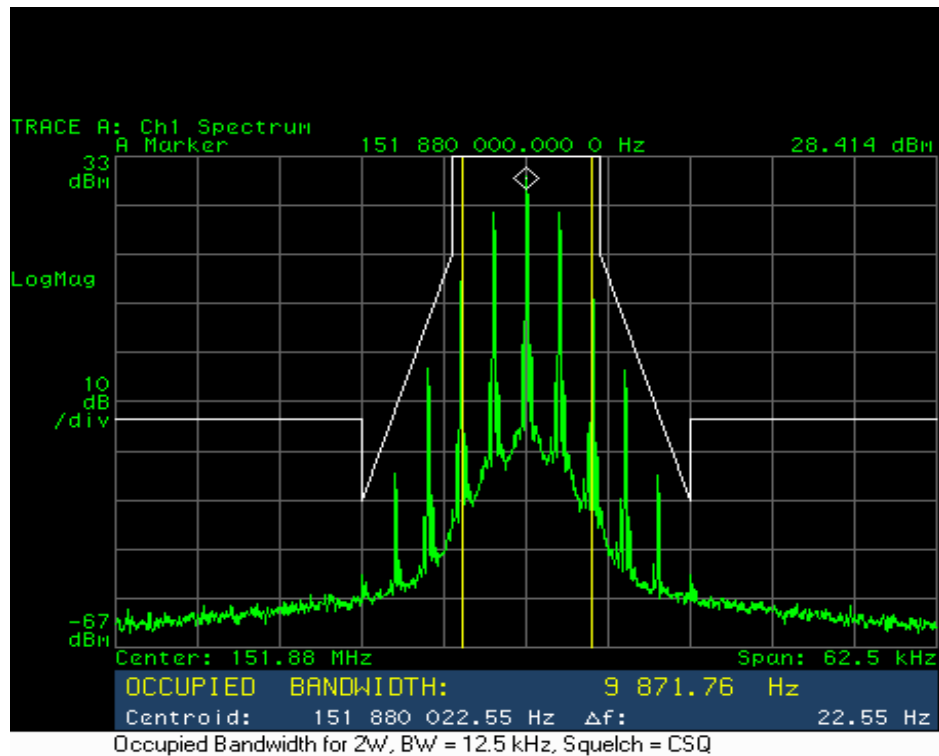


EXHIBIT 6D-5



MOTOROLA

FCC ID: AZ489FT3803

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

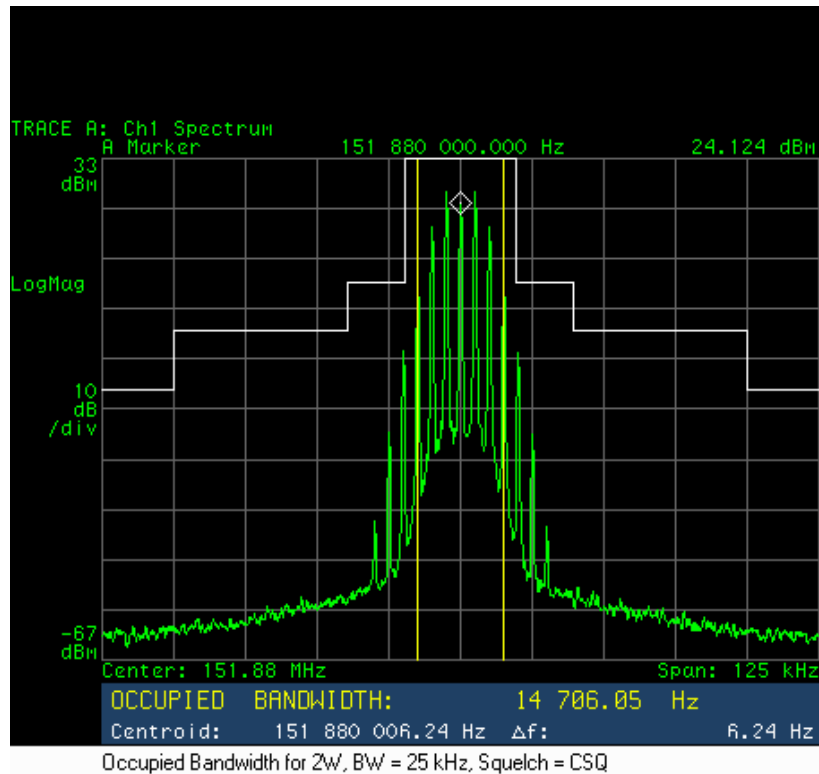


EXHIBIT 6D-6



MOTOROLA

FCC ID: AZ489FT3803

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

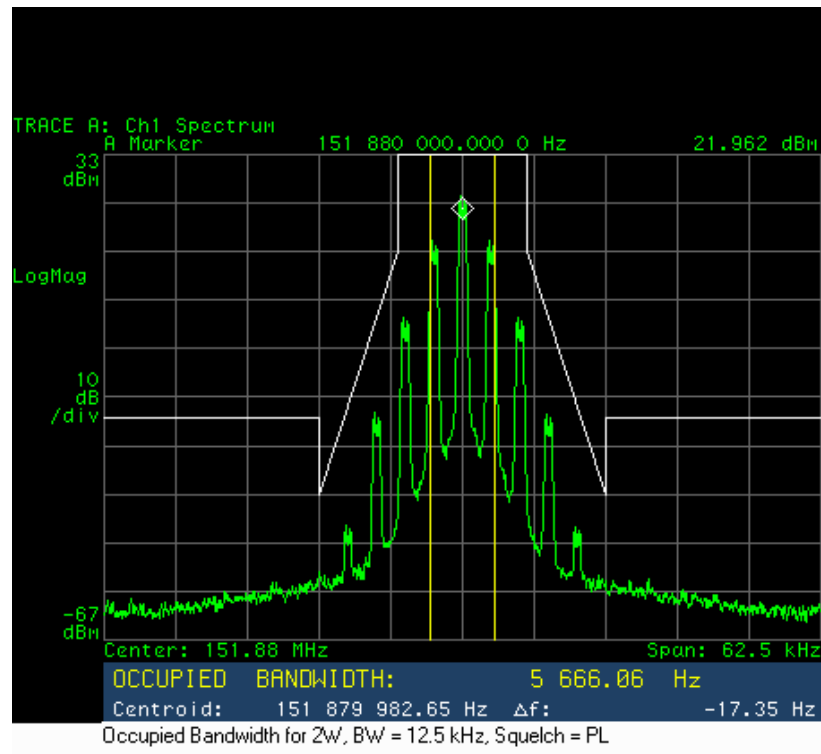


EXHIBIT 6D-7



MOTOROLA

FCC ID: AZ489FT3803

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

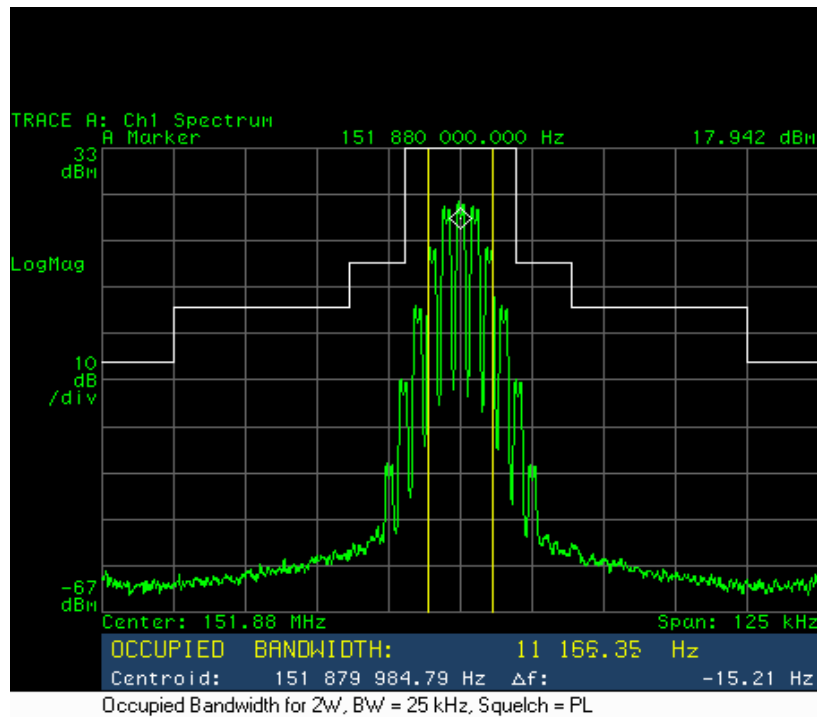


EXHIBIT6D-8



MOTOROLA

Motorola Inc.

FCC ID: AZ489FT3803

FCC ID:AZ489FT3803

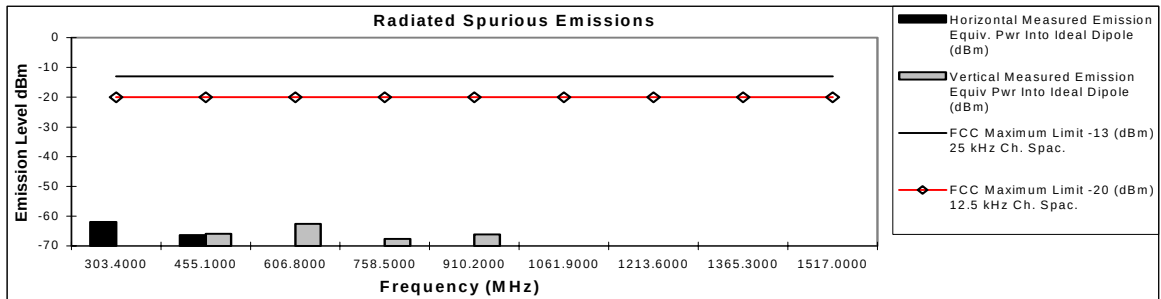
Transmitter Radiated Spurious Emissions:

151.7 MHz

1 Watts

Channel Spacing 12.5kHz | S/N 567AAB0010

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
303.4000	-13	-20	-61.85	-74.85
455.1000	-13	-20	-66.37	-65.96
606.8000	-13	-20	-70.18	-62.62
758.5000	-13	-20	-73.51	-67.68
910.2000	-13	-20	-71.07	-66.07
1061.9000	-13	-20	*	*
1213.6000	-13	-20	*	*
1365.3000	-13	-20	*	*
1517.0000	-13	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

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

July 31, 2001

EXHIBIT 6E-1



MOTOROLA

Motorola Inc.

FCC ID: AZ489FT3803

FCC ID:AZ489FT3808

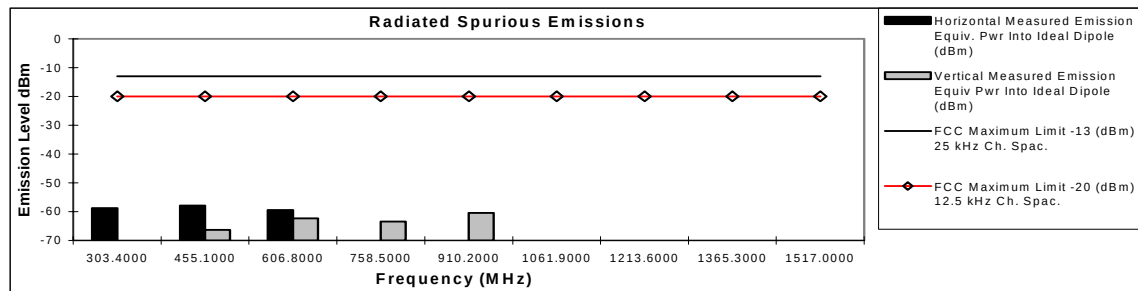
Transmitter Radiated Spurious Emissions:

151.7 MHz

1 Watts

Channel Spacing 25kHz | S/N 567AAB0010

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
303.4000	-13	-20	-58.85	-73.81
455.1000	-13	-20	-57.96	-66.30
606.8000	-13	-20	-59.41	-62.34
758.5000	-13	-20	-72.49	-63.43
910.2000	-13	-20	-70.50	-60.49
1061.9000	-13	-20	*	*
1213.6000	-13	-20	*	*
1365.3000	-13	-20	*	*
1517.0000	-13	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

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

July 31, 2001

EXHIBIT 6E-2



MOTOROLA

Motorola Inc.

FCC ID: AZ489FT3803

FCC ID:AZ489FT3803

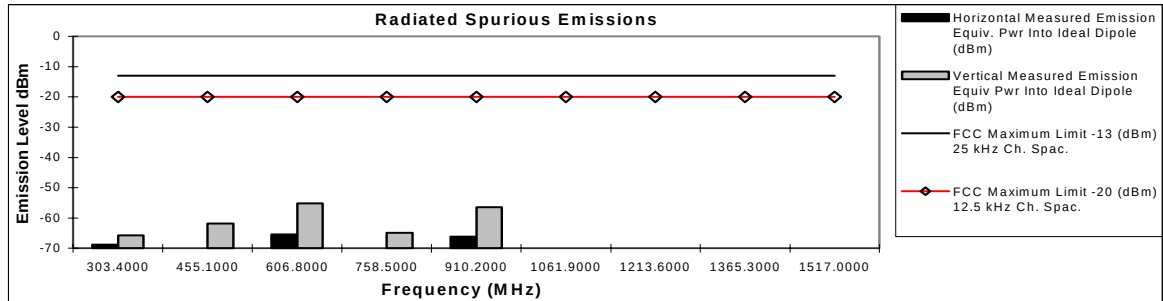
Transmitter Radiated Spurious Emissions:

151.7 MHz

2 Watts

Channel Spacing 12.5kHz | S/N 567AAB0010

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
303.4000	-13	-20	-68.82	-65.77
455.1000	-13	-20	-71.83	-61.77
606.8000	-13	-20	-65.40	-55.10
758.5000	-13	-20	-74.20	-64.89
910.2000	-13	-20	-66.15	-56.42
1061.9000	-13	-20	*	*
1213.6000	-13	-20	*	*
1365.3000	-13	-20	*	*
1517.0000	-13	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

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

July 31, 2001

EXHIBIT 6E-3



MOTOROLA

Motorola Inc.

FCC ID: AZ489FT3803

FCC ID: AZ489FT3803

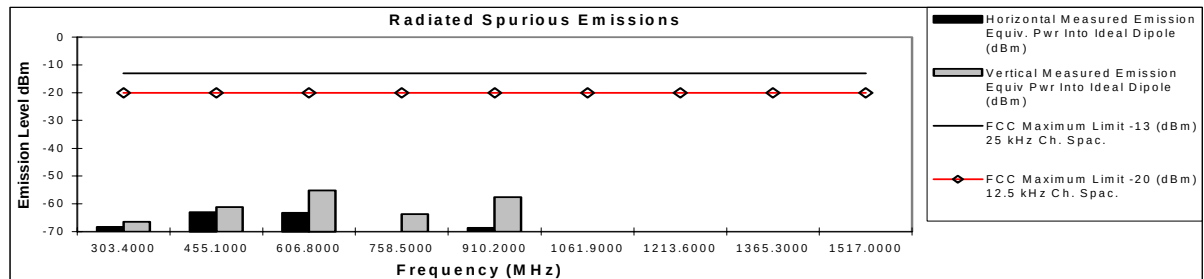
Transmitter Radiated Spurious Emissions:

151.7 MHz

2 Watts

Channel Spacing 25kHz | S/N 567AAB0010

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
303.4000	-13	-20	-68.28	-66.37
455.1000	-13	-20	-63.09	-61.14
606.8000	-13	-20	-63.23	-55.22
758.5000	-13	-20	-73.08	-63.69
910.2000	-13	-20	-68.60	-57.56
1061.9000	-13	-20	*	*
1213.6000	-13	-20	*	*
1365.3000	-13	-20	*	*
1517.0000	-13	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

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

July 31, 2001

EXHIBIT 6E-4



MOTOROLA

FCC ID: AZ489FT3803

1 Watt 12.5 kHz bandwidth

Transmitter Conducted Spurious Emissions

FCC ID: AZ489FT3803

151.70000 MHz

Power 1.0W

Spur Frequency	FCC Limit	Measured Value (dBm)
76.10000	-13.0	-14.3
112.60000	-13.0	-37.8
113.10000	-13.0	-37.4
113.60000	-13.0	-37.5
114.10000	-13.0	-38.0
115.10000	-13.0	-35.8
116.10000	-13.0	-36.9
190.00000	-13.0	-36.2
228.00000	-13.0	-33.5
303.30000	-13.0	-32.0

Transmitter Conducted Spurious Emissions

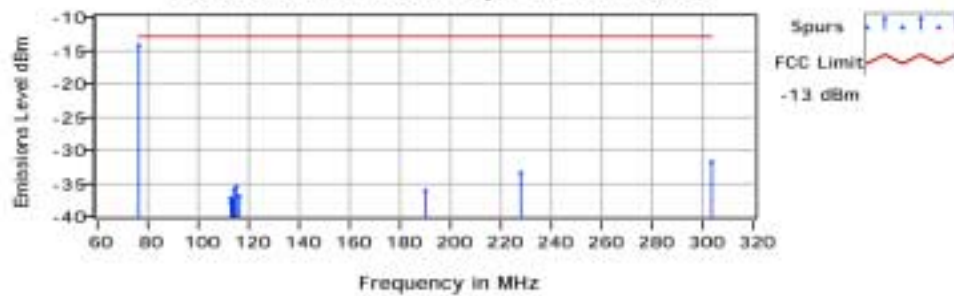


EXHIBIT 6F-1



MOTOROLA

FCC ID: AZ489FT3803

1 Watt 25 kHz bandwidth

Transmitter Conducted Spurious Emissions

FCC ID: AZ489FT3803

151.70000 MHz

Power 1.0W

Spur Frequency	FCC Limit	Measured Value (dBm)
79.30000	-13.0	-20.0
118.60000	-13.0	-41.8
119.10000	-13.0	-41.3
119.60000	-13.0	-40.7
160.50000	-13.0	-35.0
198.50000	-13.0	-41.7
316.80000	-13.0	-31.5
475.00000	-13.0	-50.6

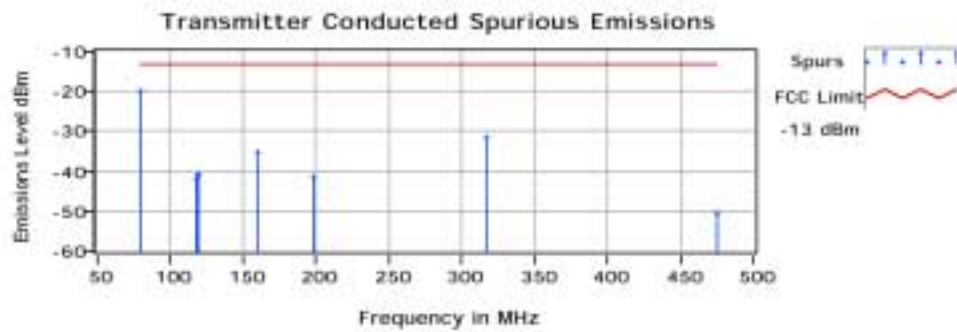


EXHIBIT 6F-2



MOTOROLA

FCC ID: AZ489FT3803

2.3Watts 12.5kHz bandwidth

Transmitter Conducted Spurious Emissions

FCC ID: AZ489FT3803

151.70000 MHz

Power 2.0W

Spur Frequency	FCC Limit	Measured Value (dBm)
71.60000	-13.0	-35.7
72.60000	-13.0	-35.5
73.10000	-13.0	-34.6
74.10000	-13.0	-32.0
76.10000	-13.0	-29.1
76.60000	-13.0	-29.9
77.60000	-13.0	-31.6
78.60000	-13.0	-32.0
79.10000	-13.0	-35.2
303.30000	-13.0	-33.3

Transmitter Conducted Spurious Emissions

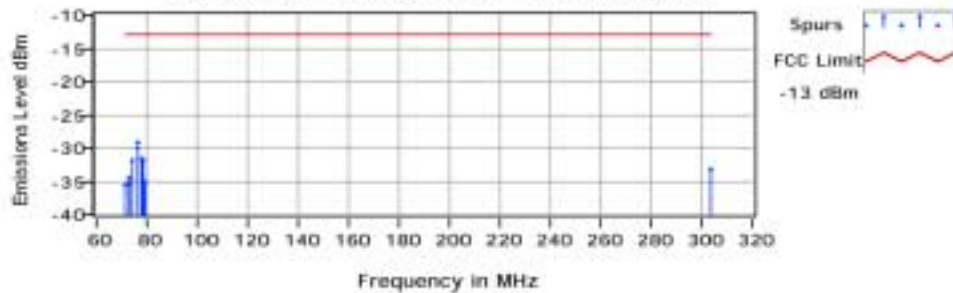


EXHIBIT 6F-3



MOTOROLA

FCC ID: AZ489FT3803

2.3Watts 25 kHz bandwidth

Transmitter Conducted Spurious Emissions

FCC ID: AZ489FT3803

158.40750 MHz

Power 2.0W

Spur Frequency	FCC Limit	Measured Value (dBm)
79.10000	-13.0	-28.6
79.60000	-13.0	-27.5
80.60000	-13.0	-41.4
130.50000	-13.0	-42.0
178.50000	-13.0	-40.6
238.00000	-13.0	-41.1
316.80000	-13.0	-31.9
475.00000	-13.0	-47.2

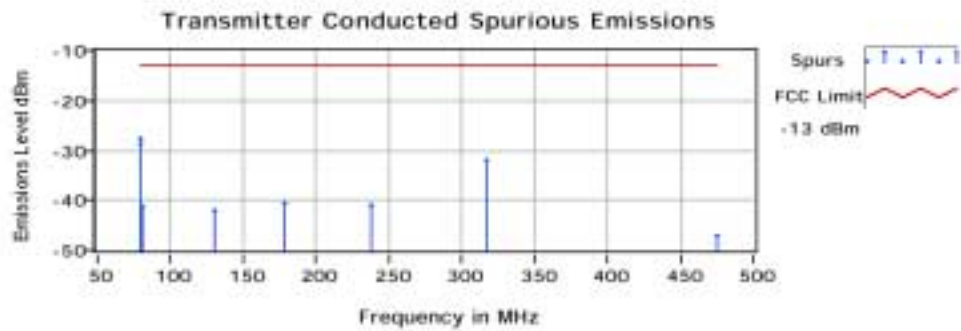


EXHIBIT 6F-4



MOTOROLA

FCC ID: AZ489FT3803

Frequency Stability over Temperature

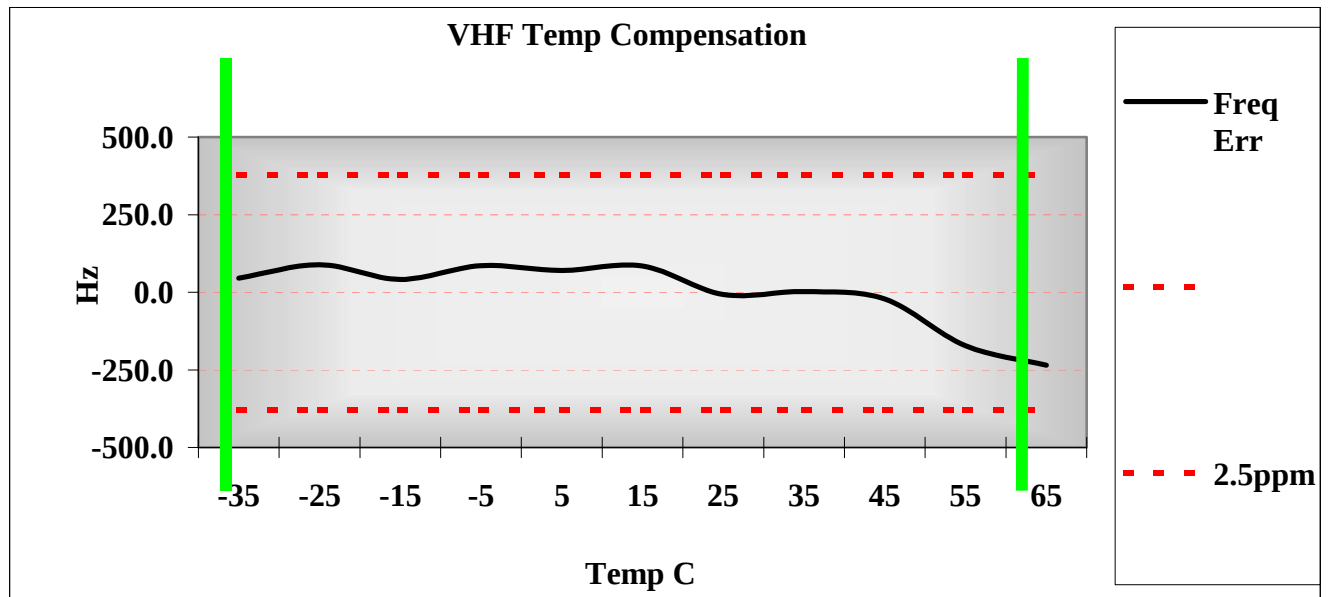


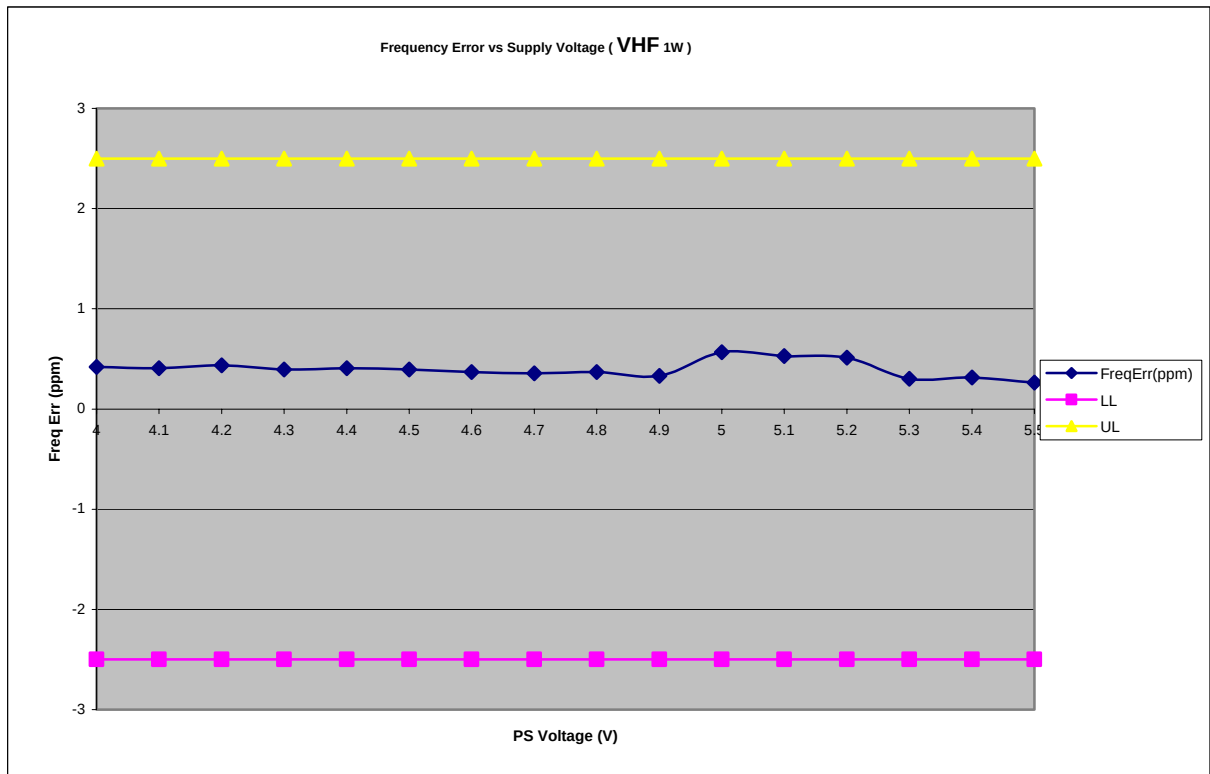
EXHIBIT 6G-1



MOTOROLA

FCC ID: AZ489FT3803

**1Watt
Frequency Error over Voltage**



Radio resets at 2.7Volts

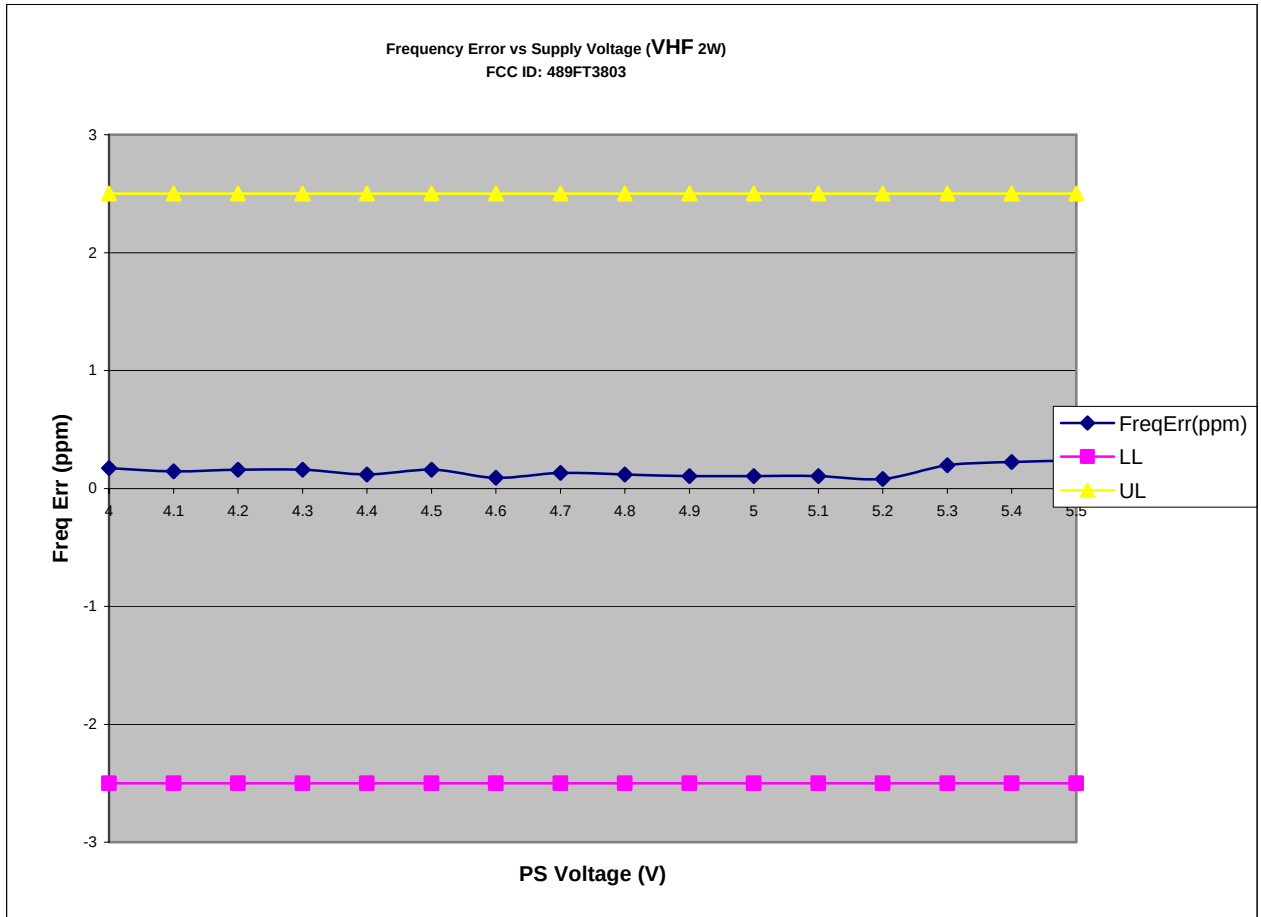
EXHIBIT 6G-2



MOTOROLA

FCC ID: AZ489FT3803

**2 Watt
Frequency Error over Voltage**



Radio resets at 2.7Volts

EXHIBIT 6G-3



MOTOROLA

FCC ID: AZ489FT3803

Transient Frequency Response TX on 1 Watt 12.5 kHz

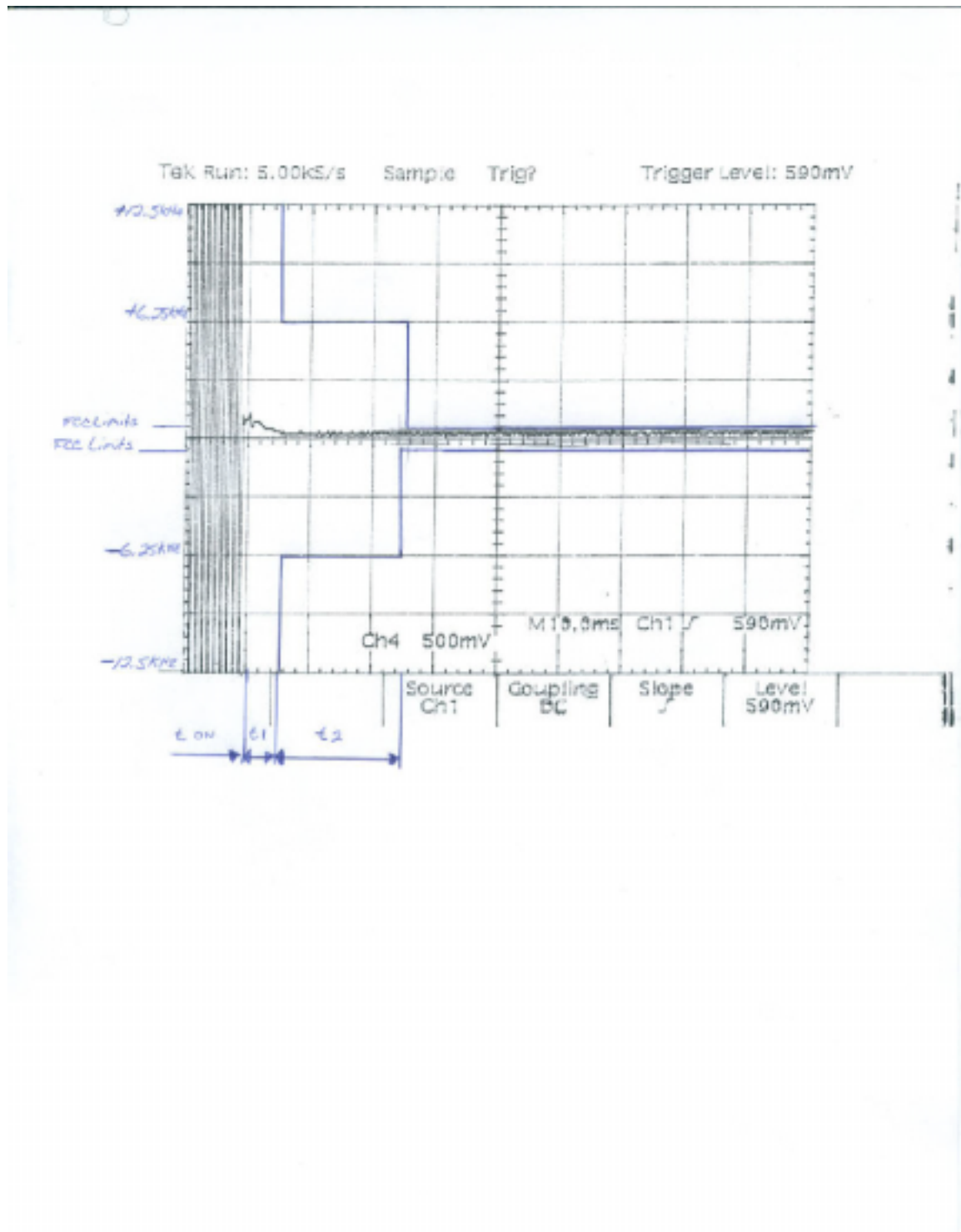


EXHIBIT 6H-1



MOTOROLA

FCC ID: AZ489FT3803

Transient Frequency Response TX off 1 Watt 12.5 kHz

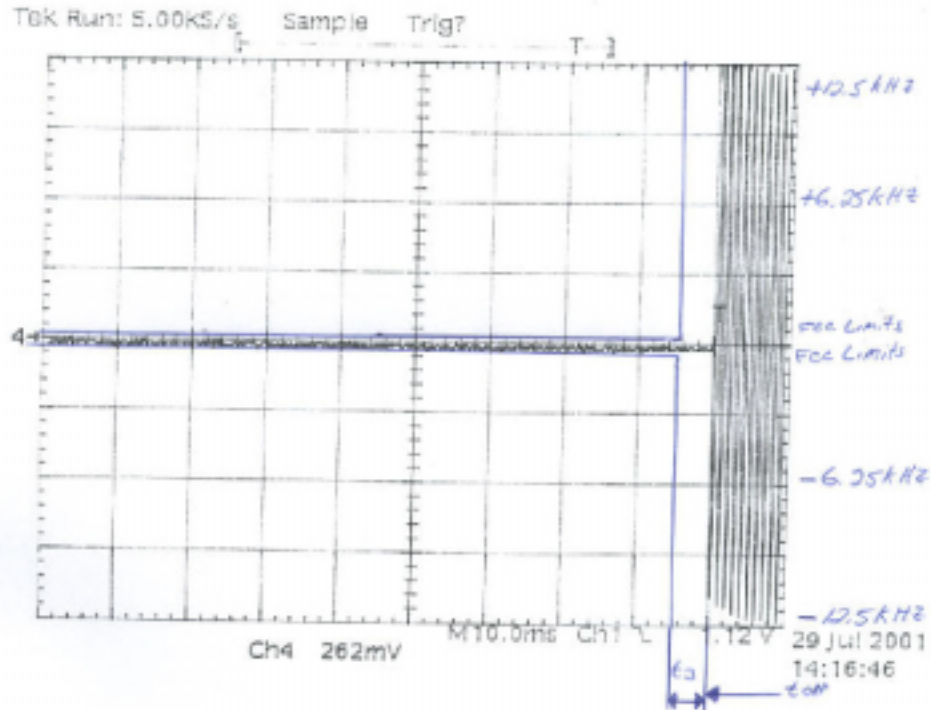


EXHIBIT 6H-2



MOTOROLA

FCC ID: AZ489FT3803

Transient Frequency Response TX on1 Watt 25 kHz

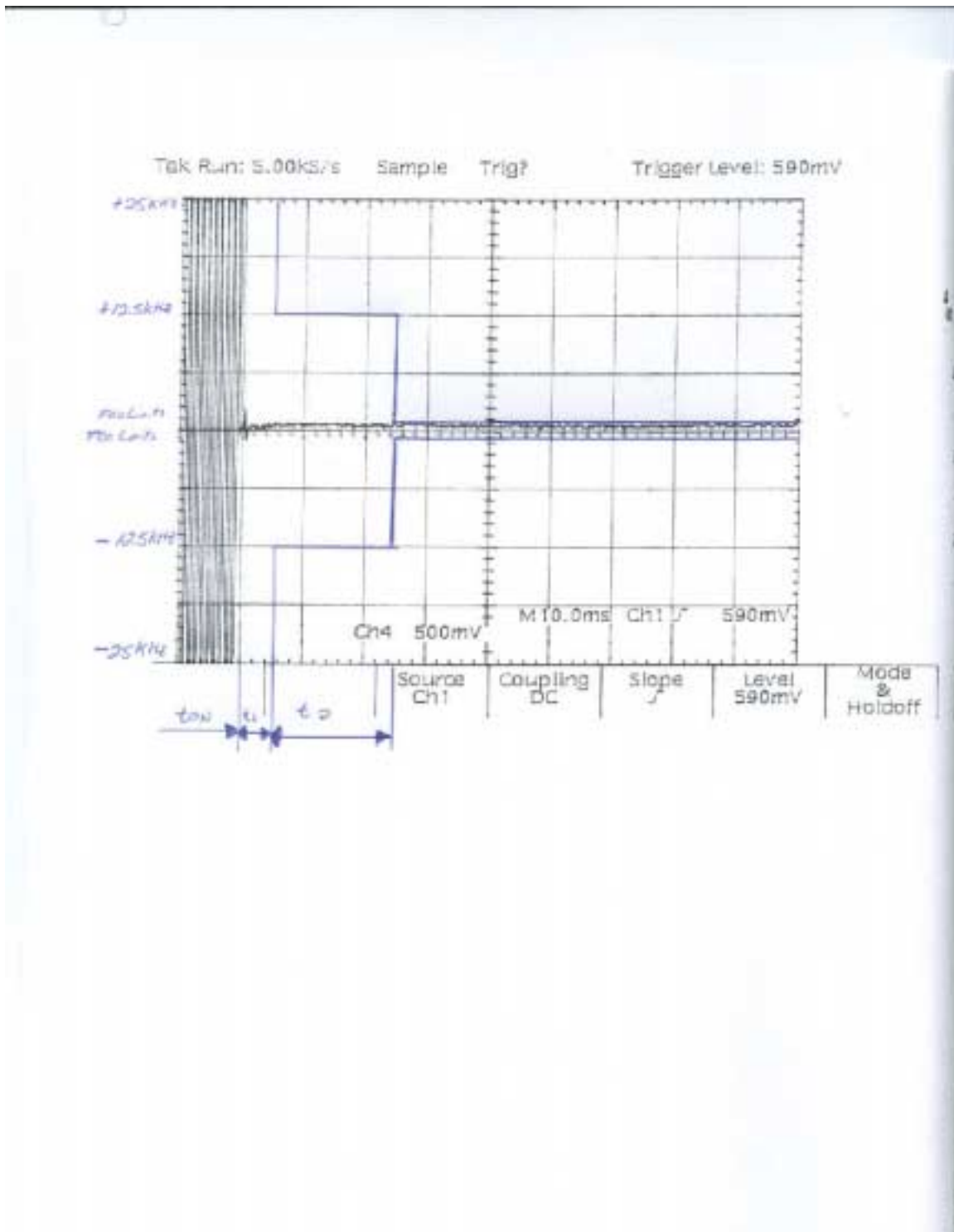


EXHIBIT 6H-3



MOTOROLA

FCC ID: AZ489FT3803

Transient Frequency Response TX off 1 Watt 25 kHz

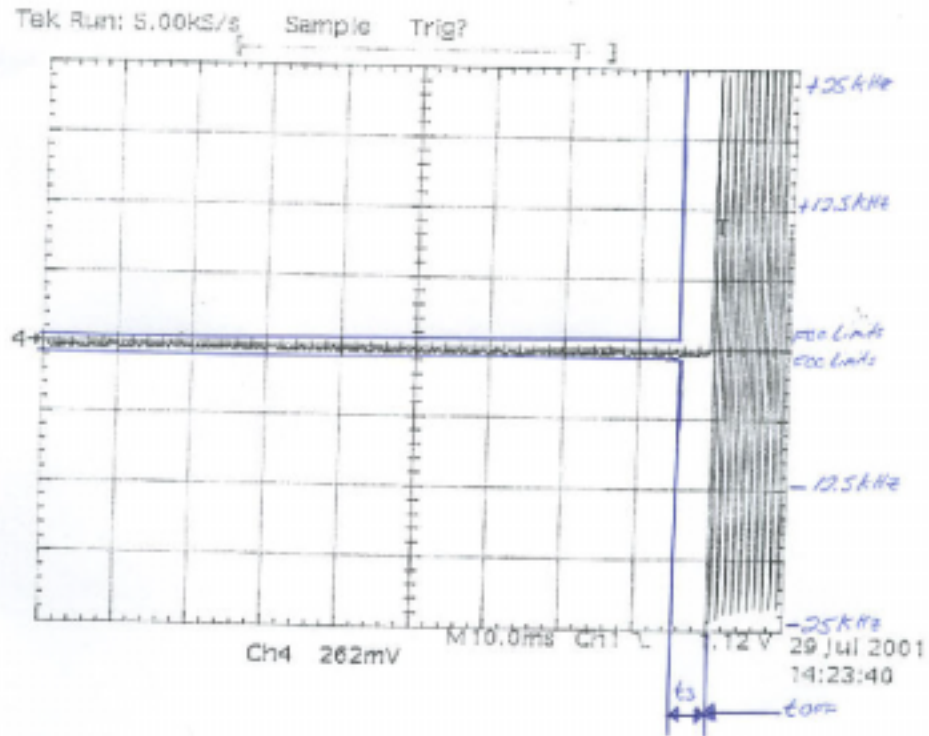


EXHIBIT 6H-4



MOTOROLA

FCC ID: AZ489FT3803

Transient Frequency Response TX on 2 Watt 12.5 kHz

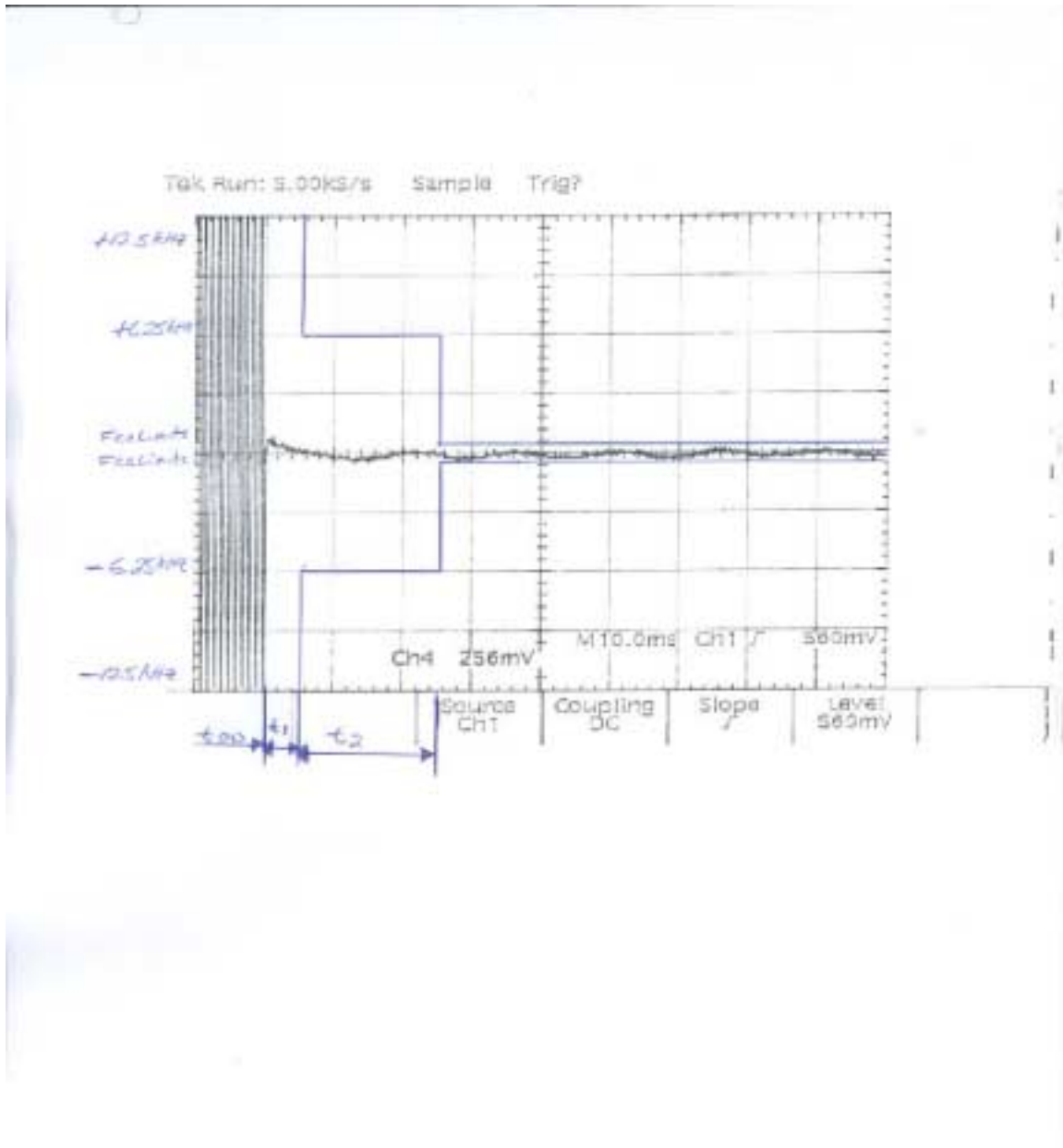


EXHIBIT 6H-5



MOTOROLA

FCC ID: AZ489FT3803

Transient Frequency Response TX off 2 Watt 12.5 kHz

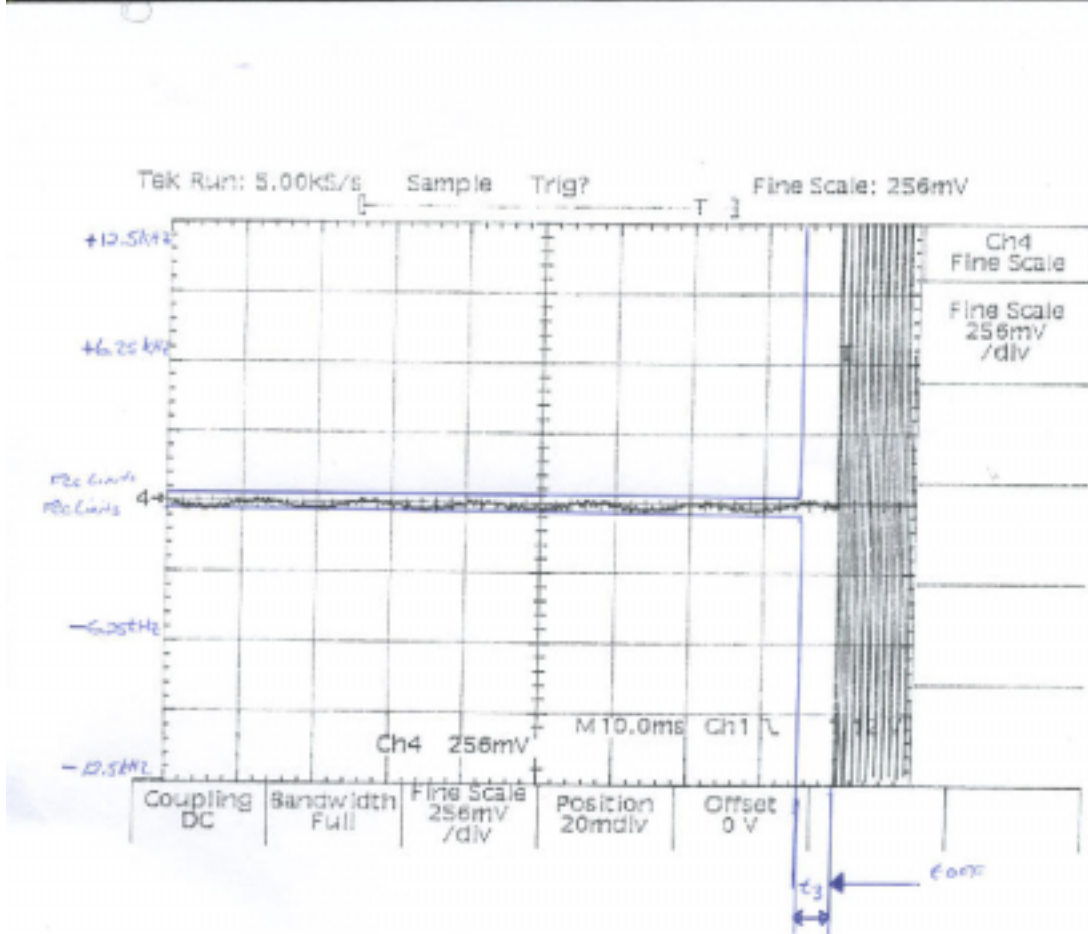


EXHIBIT 6H-6



MOTOROLA

FCC ID: AZ489FT3803

Transient Frequency Response TX on 2 Watt 25 kHz

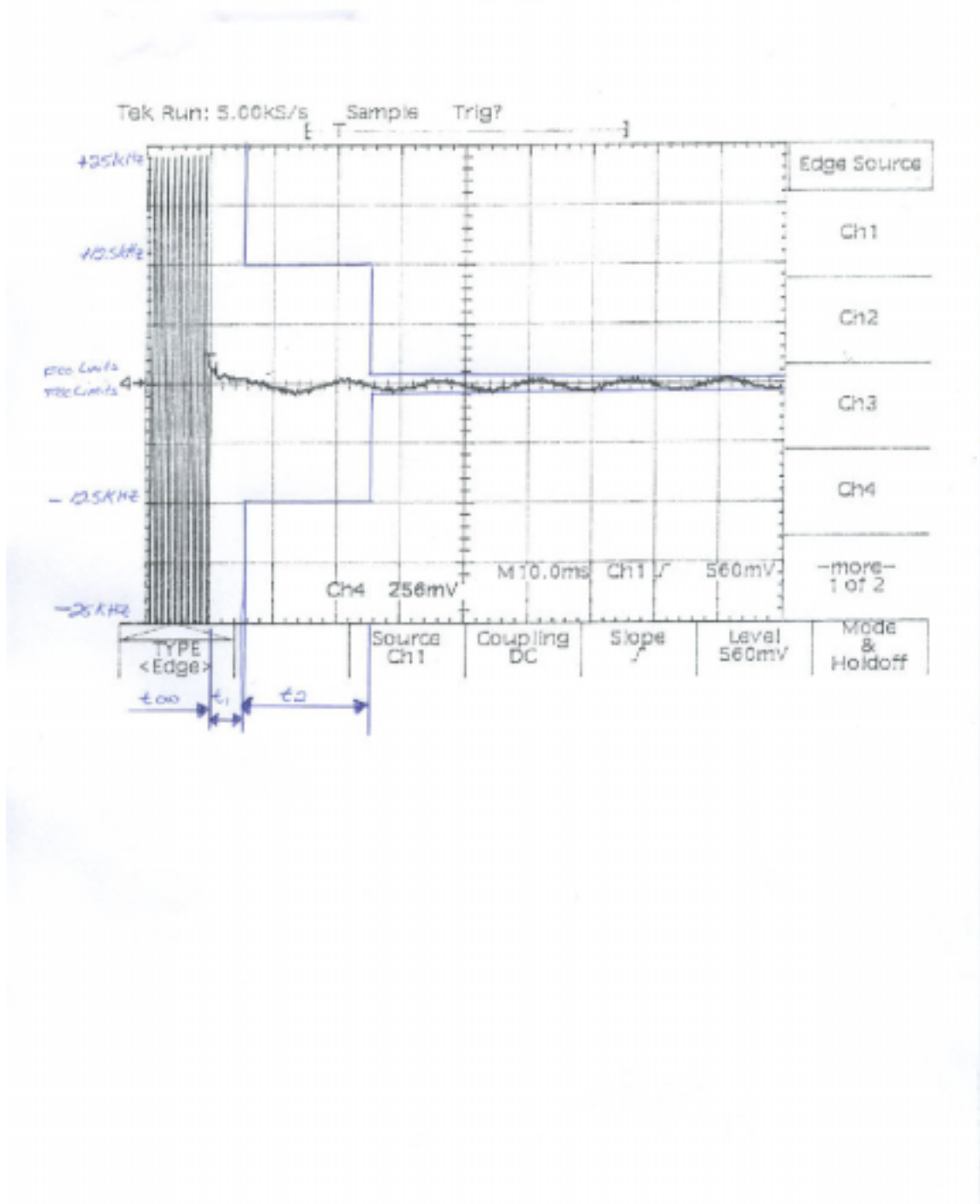


EXHIBIT 6H-7



MOTOROLA

FCC ID: AZ489FT3803

Transient Frequency Response TX off 2 Watt 25 kHz

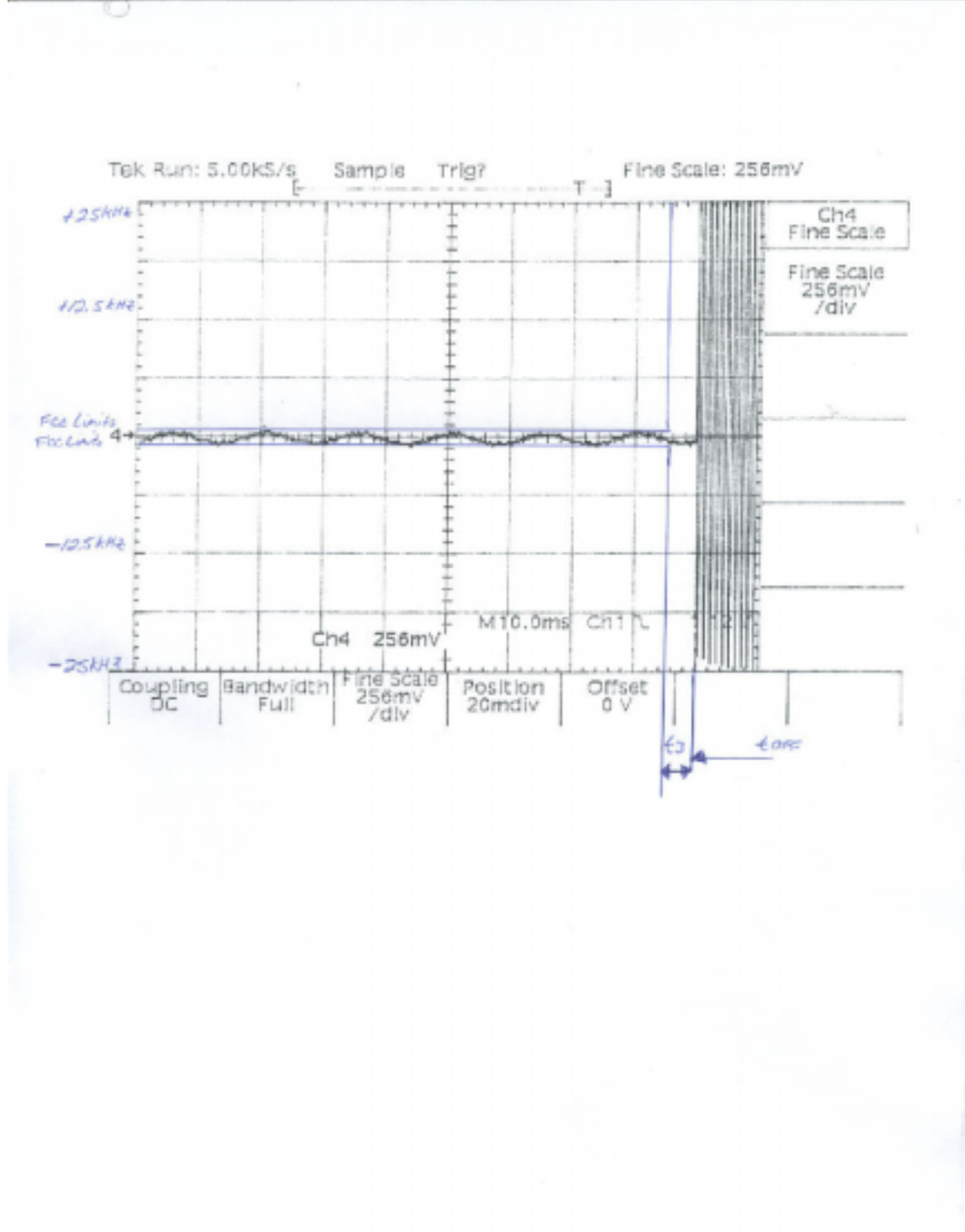


EXHIBIT 6H-8