



Test Report

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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.

1.0 Watt

Frequency	464.5500 MHz
Measured Conducted RF output*	1.0 Watts
Normal DC Voltage	7.80 Volts
Normal DC Current	428 milli amps
Primary Supply Voltage	7.80 Volts

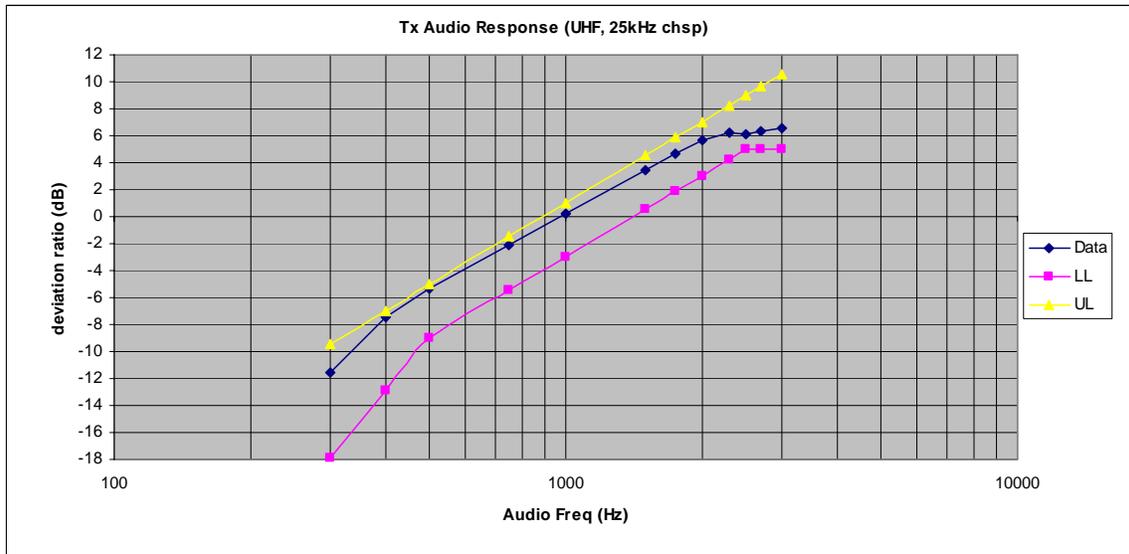
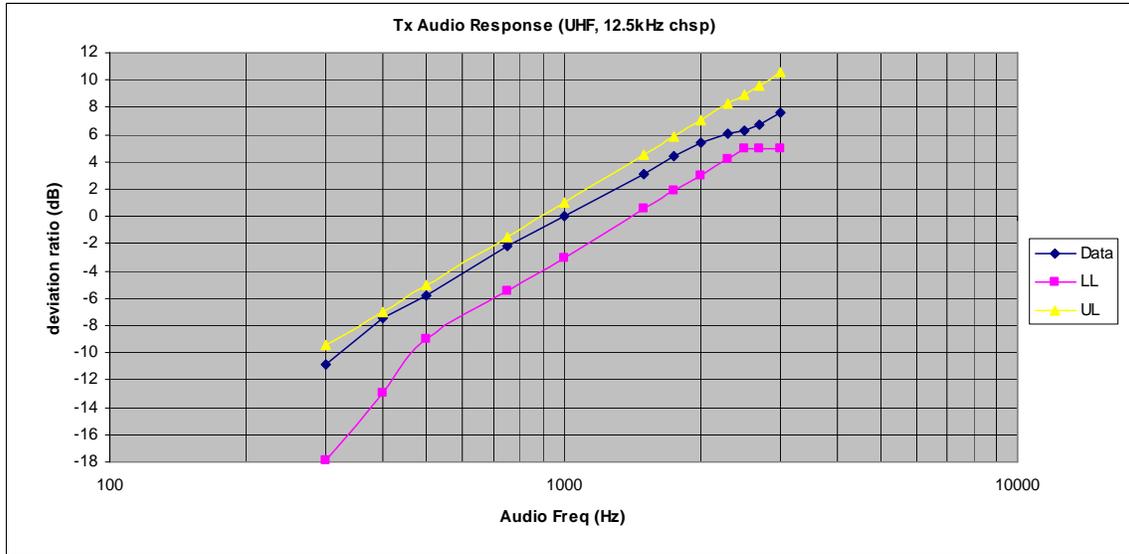
2.0 Watt

Frequency	464.5500 MHz
Measured Conducted RF output*	2.30 Watts
Normal DC Voltage	7.80 Volts
Normal DC Current	745 milli amps
Primary Supply Voltage	7.80 Volts

*Note: RF Conducted output power measured at 7.80Volts

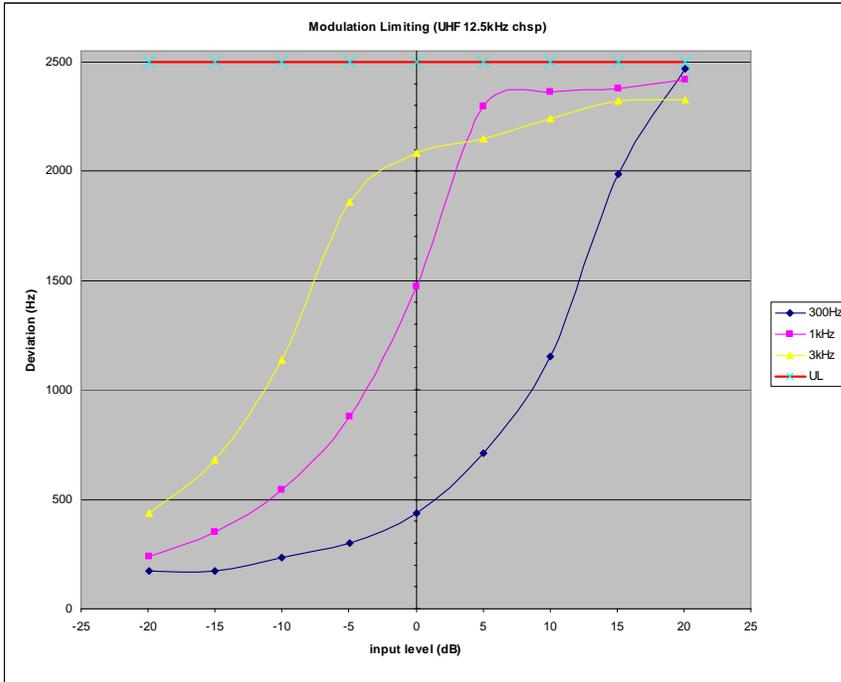
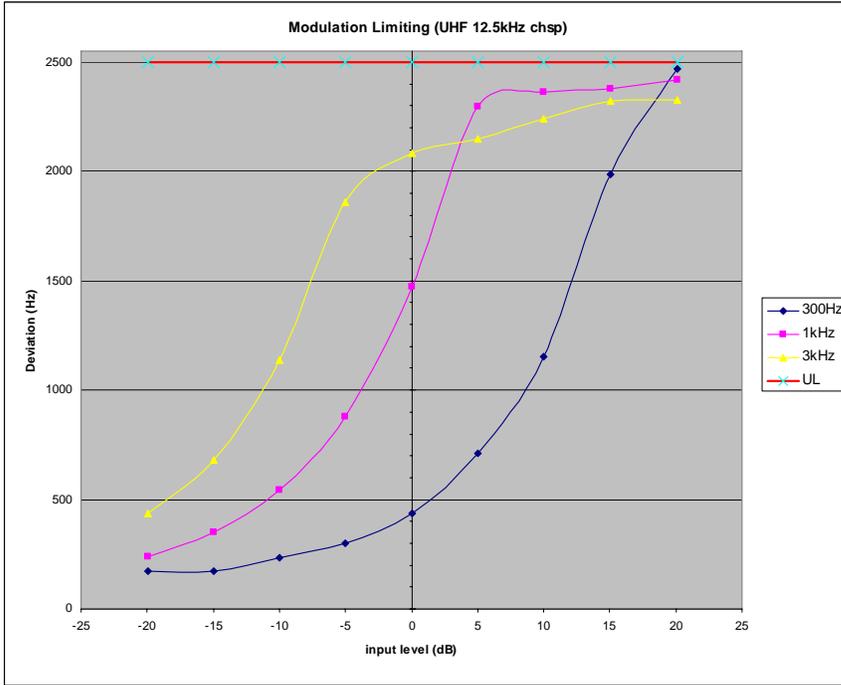


Audio Response





MODULATION LIMITING





MOTOROLA

FCC ID: AZ489FT4880

OCCUPIED BANDWIDTH DATA

2 Watt

12.5 / 2kHzkHz 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

FCC ID: AZ489FT4880

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

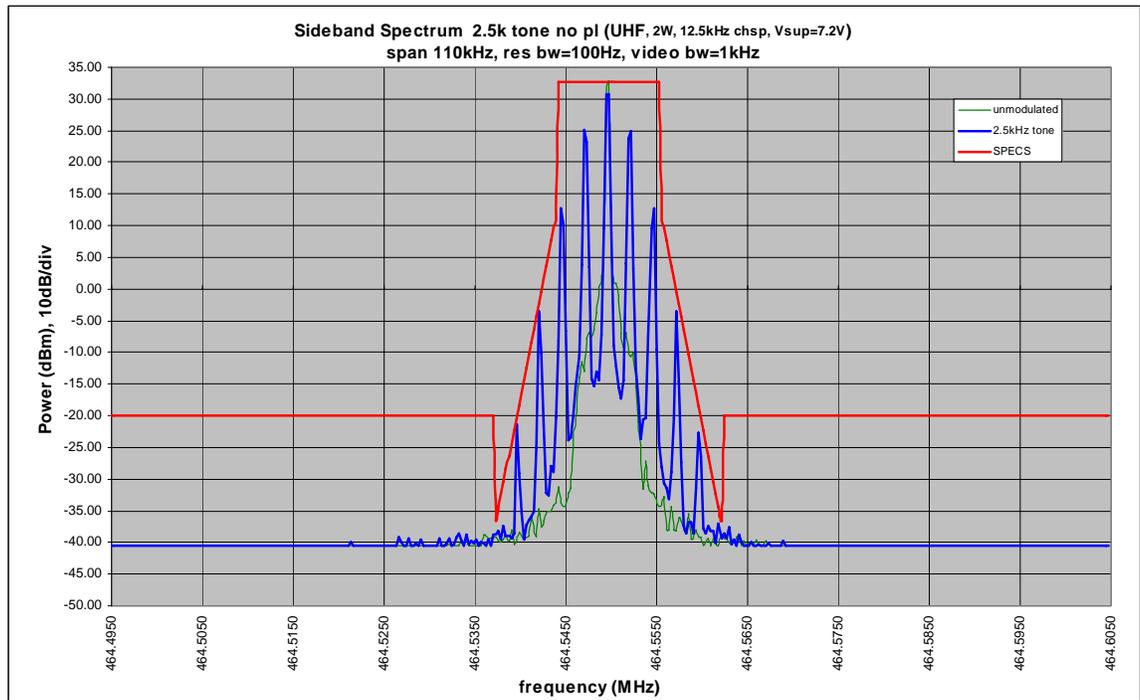


EXHIBIT 6D-1



MOTOROLA

FCC ID: AZ489FT4880

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

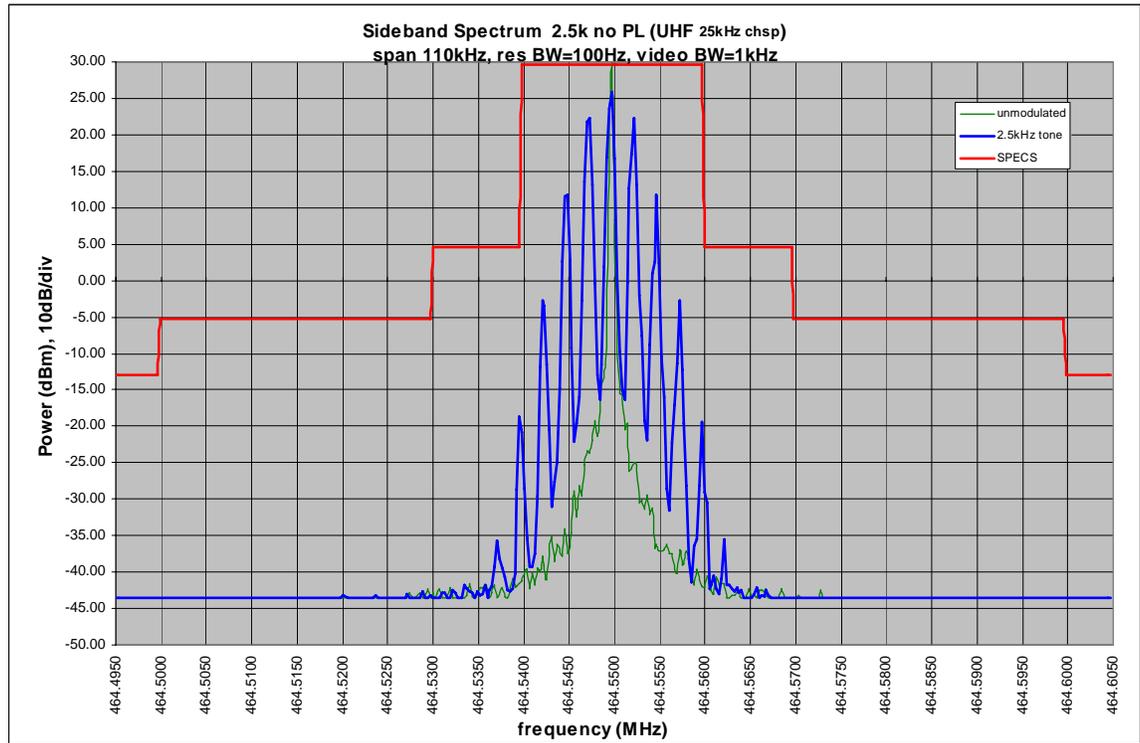


EXHIBIT 6D-2



MOTOROLA

FCC ID: AZ489FT4880

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

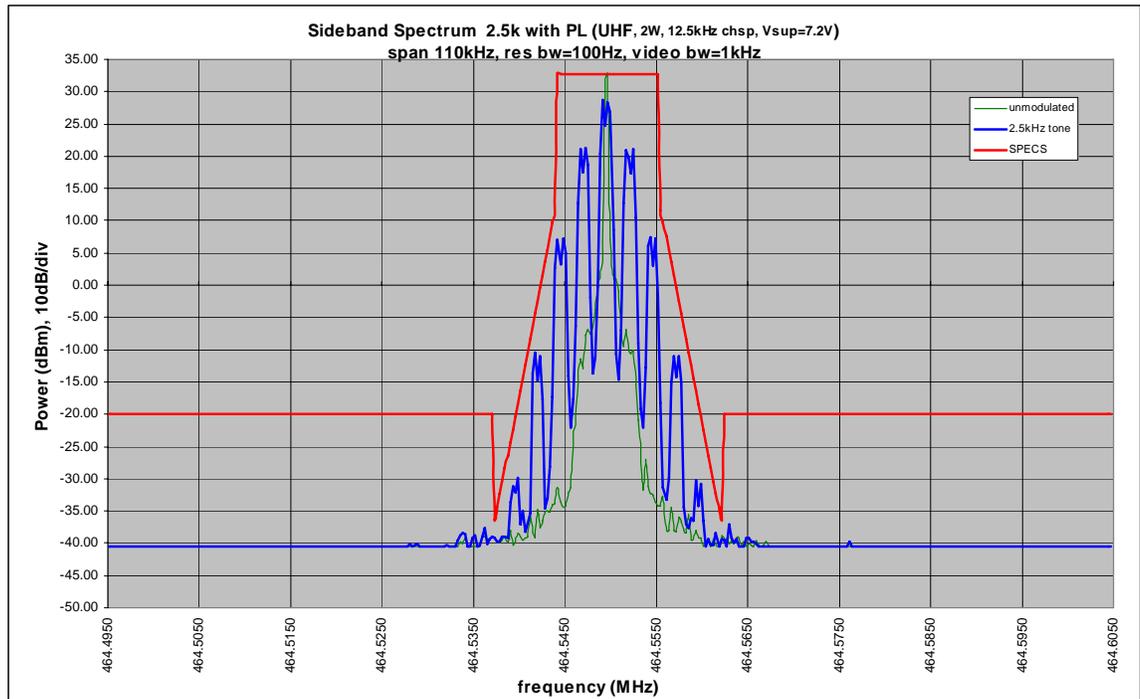


EXHIBIT 6D-3



MOTOROLA

FCC ID: AZ489FT4880

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

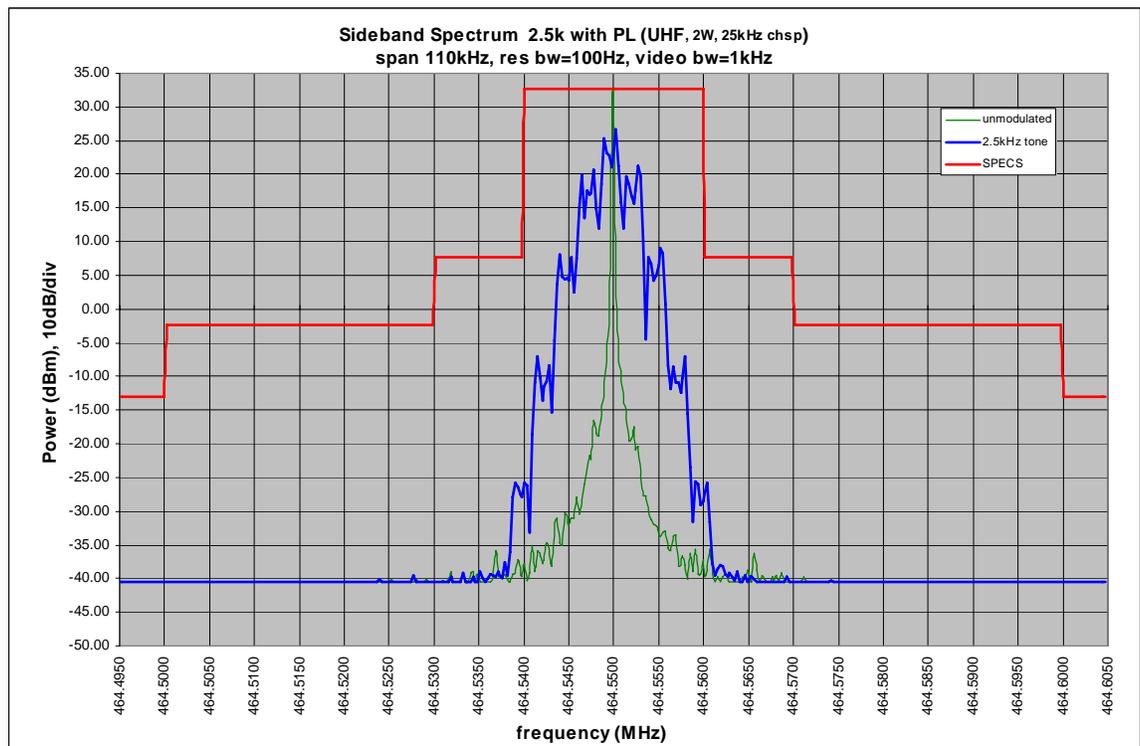


EXHIBIT 6D-4



2 Watt

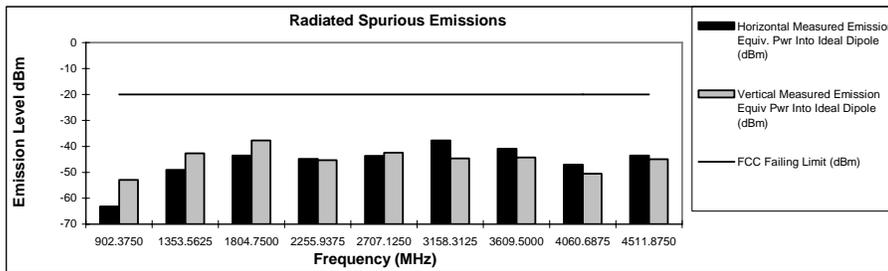
Motorola Inc.

FCC ID:AZ489FT4880

Transmit Radiated Spurious Emissions: RDX-UHF Removable Antenna
Tx Power: 2 Watts

451.1875 MHz Channel Spacing 12.5kHz | S/N 6

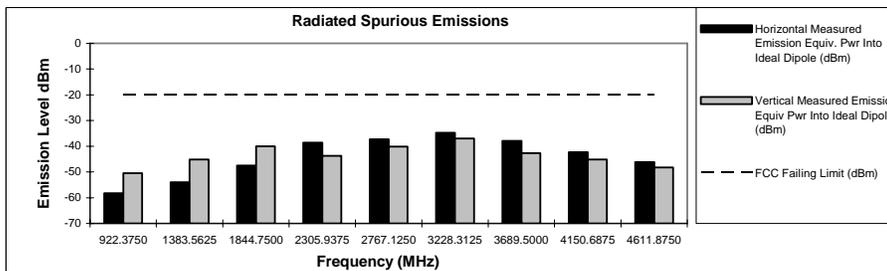
Table with 4 columns: Frequency (MHz), FCC Failing Limit (dBm), Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm), Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm). Rows include frequencies from 902.3750 to 4511.8750.



Transmit Radiated Spurious Emissions: RDX-UHF Removable Antenna
Tx Power: 2 Watts

461.1875 MHz Channel Spacing 12.5kHz | S/N 6

Table with 4 columns: Frequency (MHz), FCC Failing Limit (dBm), Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm), Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm). Rows include frequencies from 922.3750 to 4611.8750.



* 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

FCC ID: AZ489FT4880

2 Watt

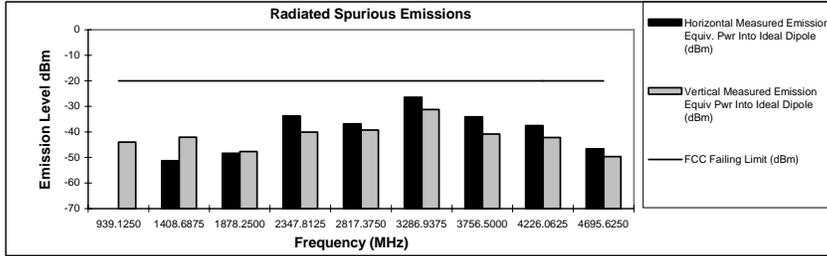
Motorola Inc.

FCC ID:AZ489FT4880

**Transmit Radiated Spurious Emissions: RDX-UHF Removable Antenna
Tx Power: 2 Watts**

469.5625 MHz Channel Spacing 12.5kHz | S/N 6

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
939.1250	-20	*	-43.99
1408.6875	-20	-51.27	-42.10
1878.2500	-20	-48.36	-47.67
2347.8125	-20	-33.76	-40.09
2817.3750	-20	-36.85	-39.27
3286.9375	-20	-26.40	-31.22
3756.5000	-20	-34.08	-40.86
4226.0625	-20	-37.54	-42.14
4695.6250	-20	-46.58	-49.71



* 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: Frank Baader
FCC Registration: 91932 / Industry Canada: IC3679

November 3, 2006

EXHIBIT 6E-2



MOTOROLA

FCC ID: AZ489FT4880

2 Watt

Motorola Inc.

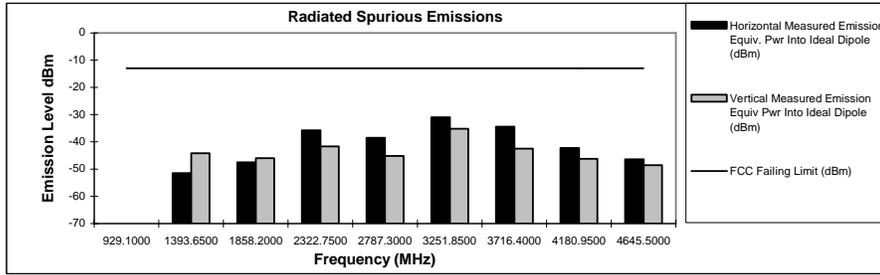
FCC ID:AZ489FT4880

**Transmit Radiated Spurious Emissions: RDX-UHF Removable Antenna
Tx Power: 2 Watts**

464.55 MHz

Channel Spacing 25kHz | S/N 6

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
929.1000	-13	*	*
1393.6500	-13	-51.46	-44.18
1858.2000	-13	-47.48	-46.01
2322.7500	-13	-35.79	-41.66
2787.3000	-13	-38.53	-45.13
3251.8500	-13	-30.99	-35.20
3716.4000	-13	-34.38	-42.47
4180.9500	-13	-42.22	-46.26
4645.5000	-13	-46.41	-48.58



* 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: Frank Baader
FCC Registration: 91932 / Industry Canada: IC3679

November 3, 2006



MOTOROLA

FCC ID: AZ489FT4880

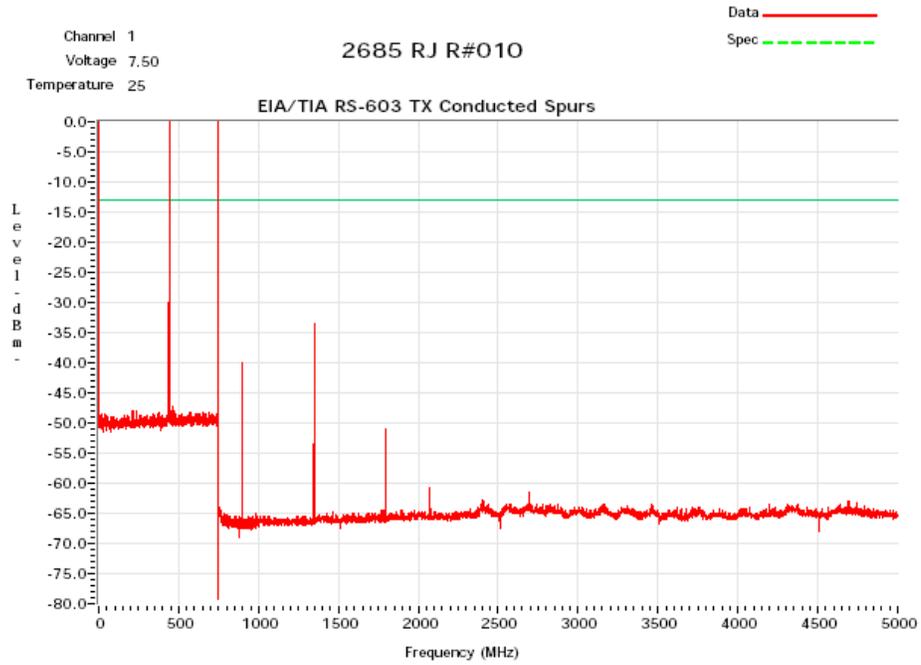


EXHIBIT 6E-4



MOTOROLA

FCC ID: AZ489FT4880

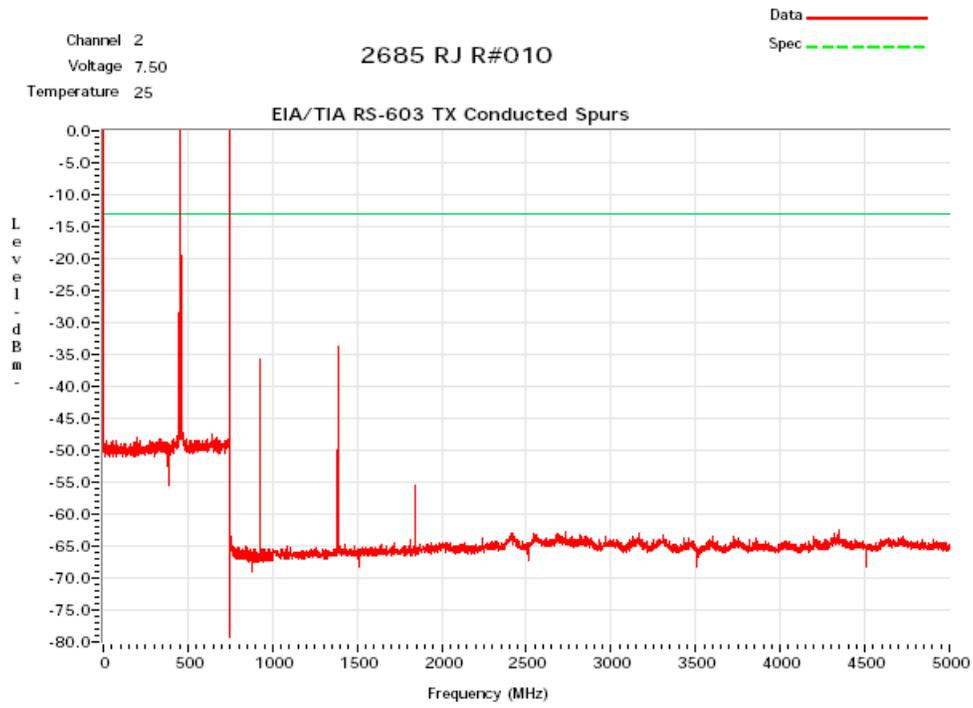


EXHIBIT 6E-5



MOTOROLA

FCC ID: AZ489FT4880

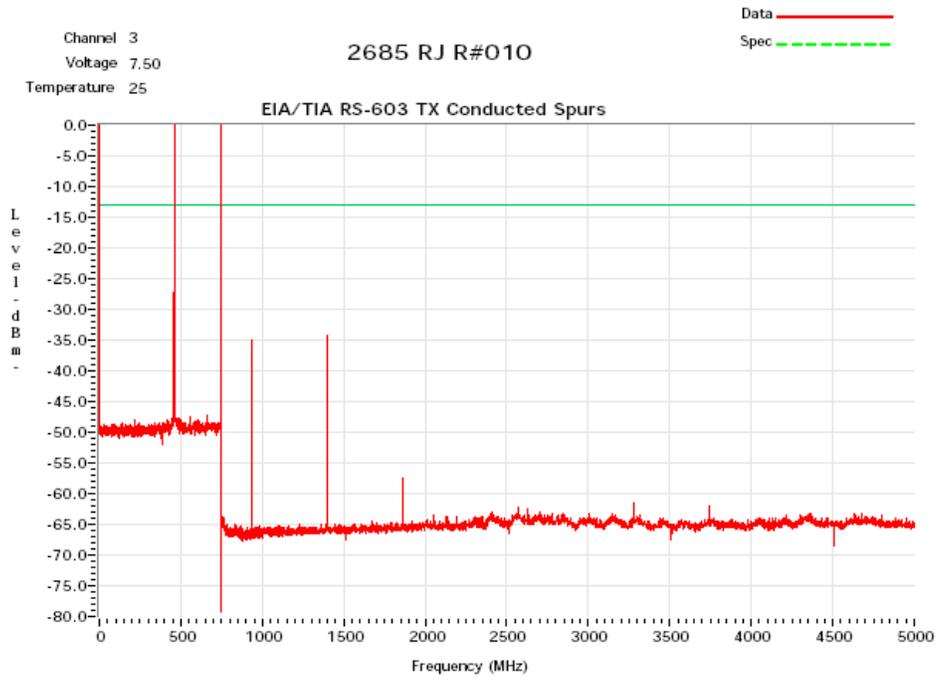


EXHIBIT 6E-6



MOTOROLA

FCC ID: AZ489FT4880

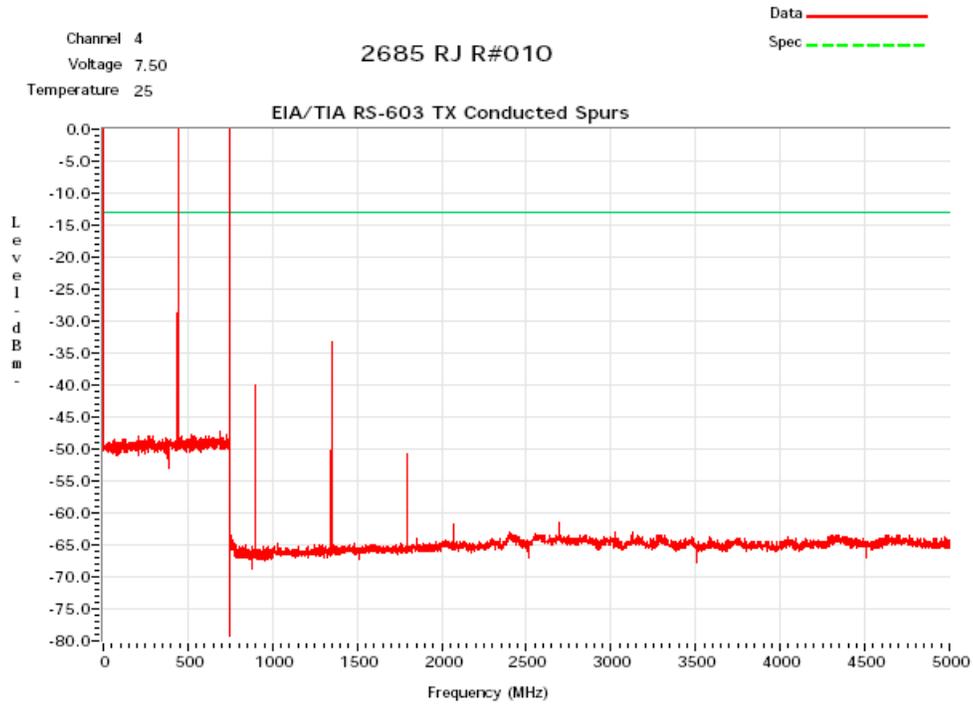
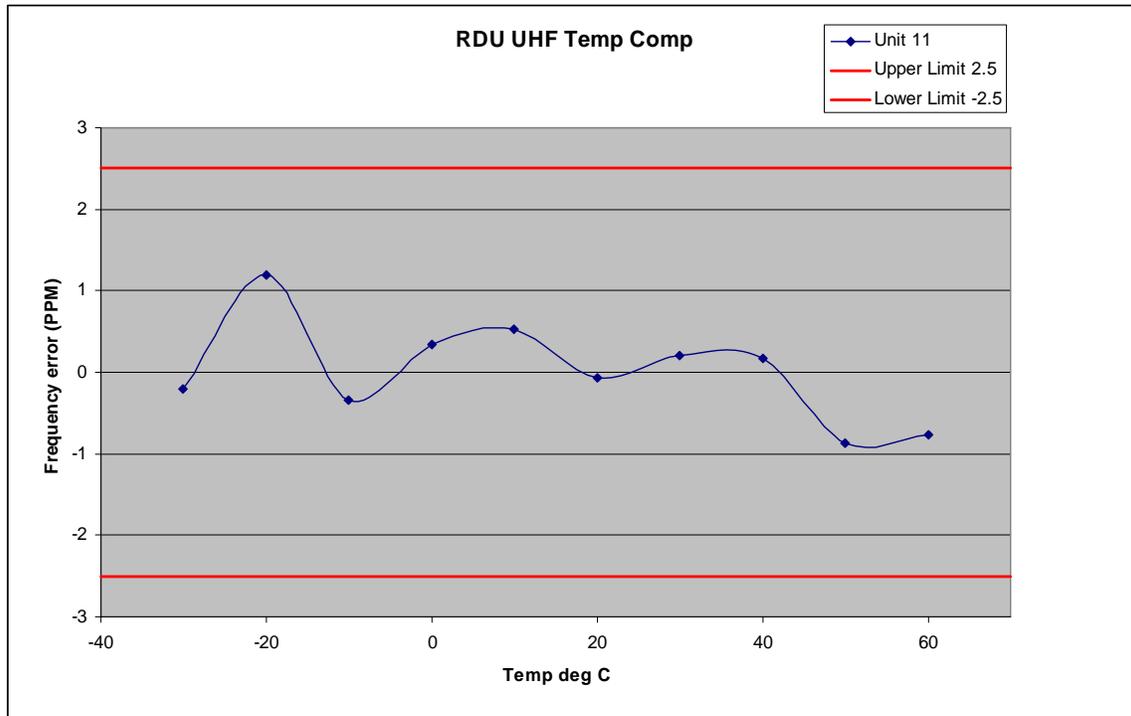


EXHIBIT 6E-7

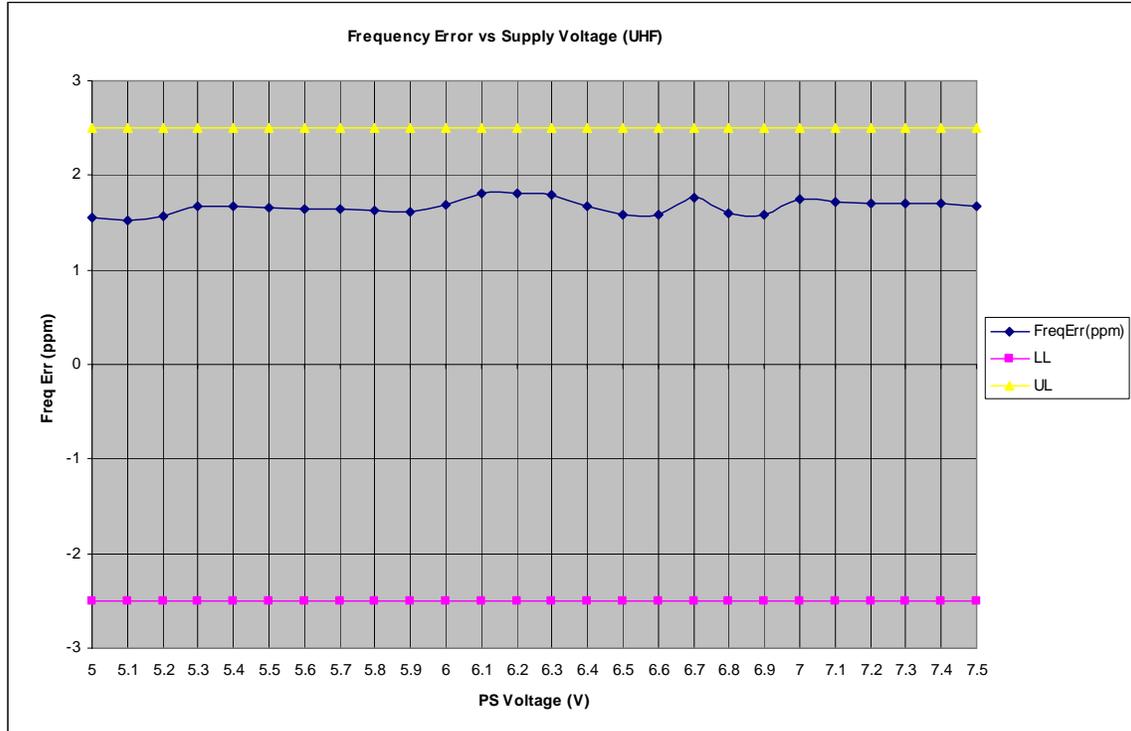


Frequency Stability over Temperature





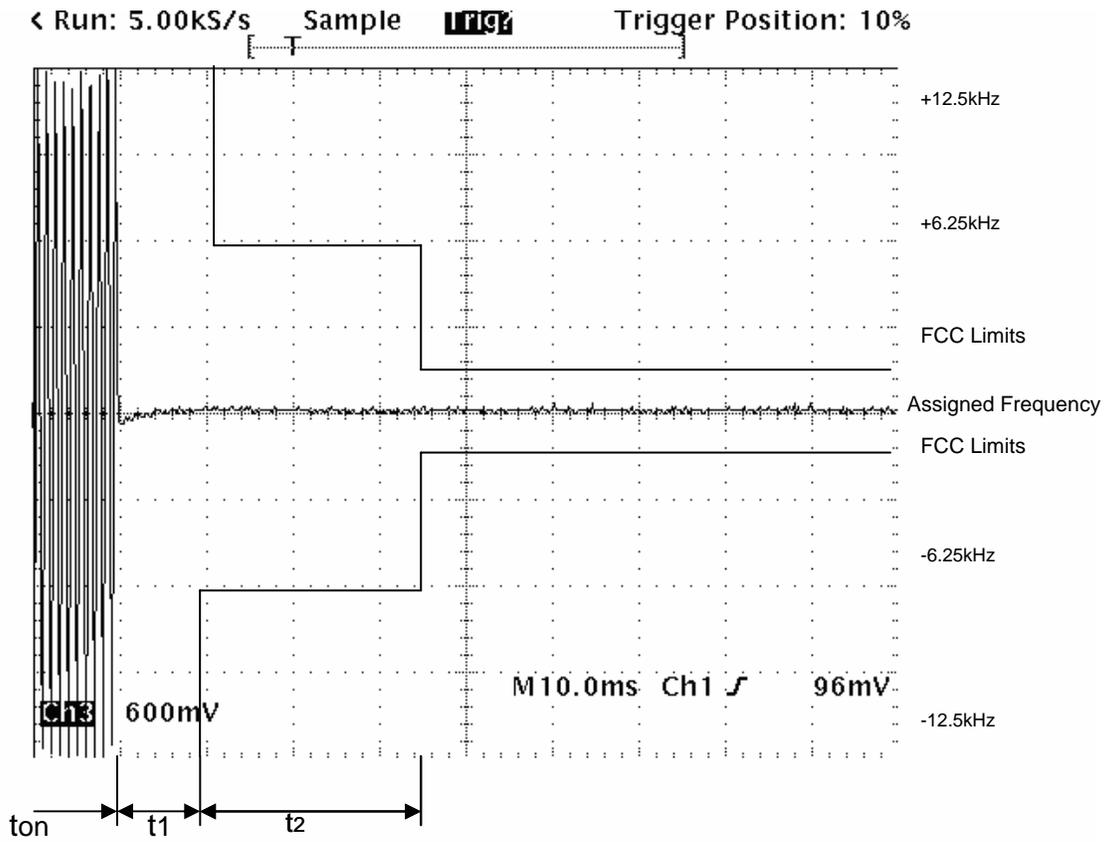
Frequency Error over Voltage



Reset Voltage 4.8Volts



Transient Frequency Response TX on 2 Watt 12.5 kHz



$$\frac{(\text{Freq}) * (\text{PPM}) * (\pm 4)}{\text{BW}}$$

$$\frac{(264\text{MHz}) * (2.5\text{PPM}) * (\pm 4)}{12.5 \text{ kHz}}$$

$$= \pm 0.3712 \text{ div}$$



MOTOROLA

FCC ID: AZ489FT4880

Transient Frequency Response TX off 2 Watt 12.5 kHz

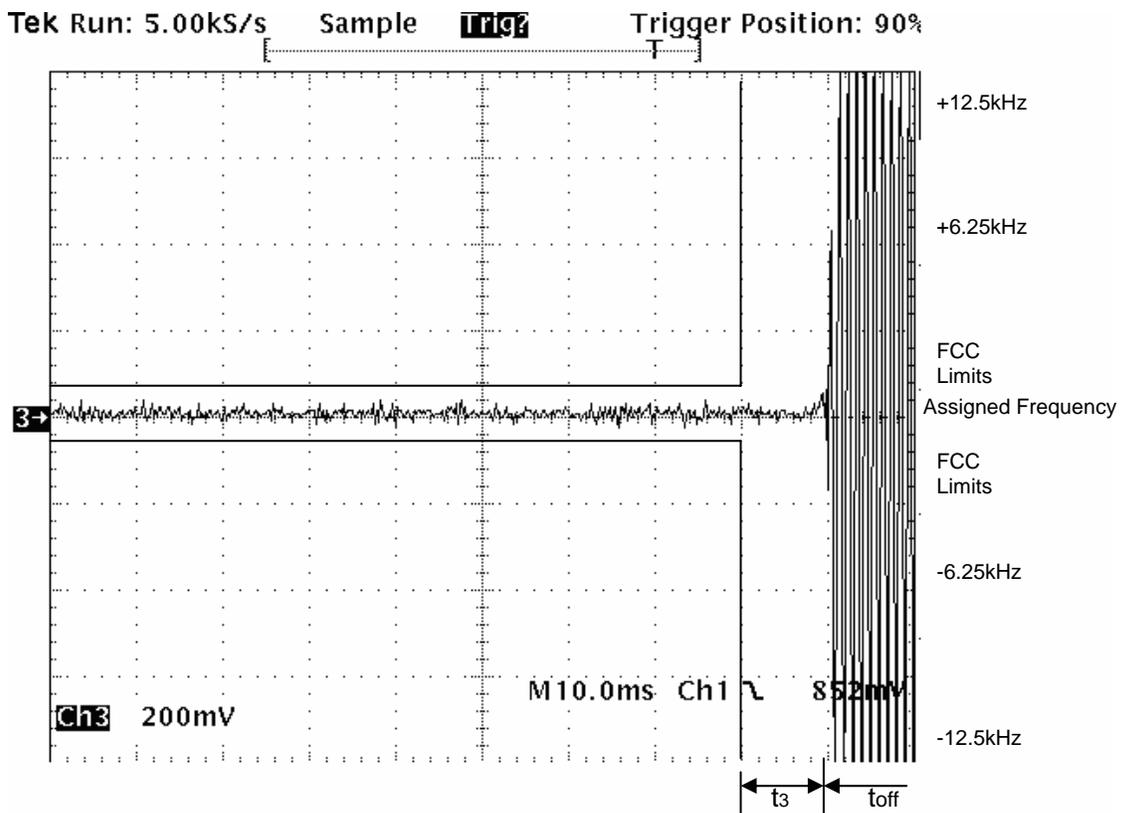
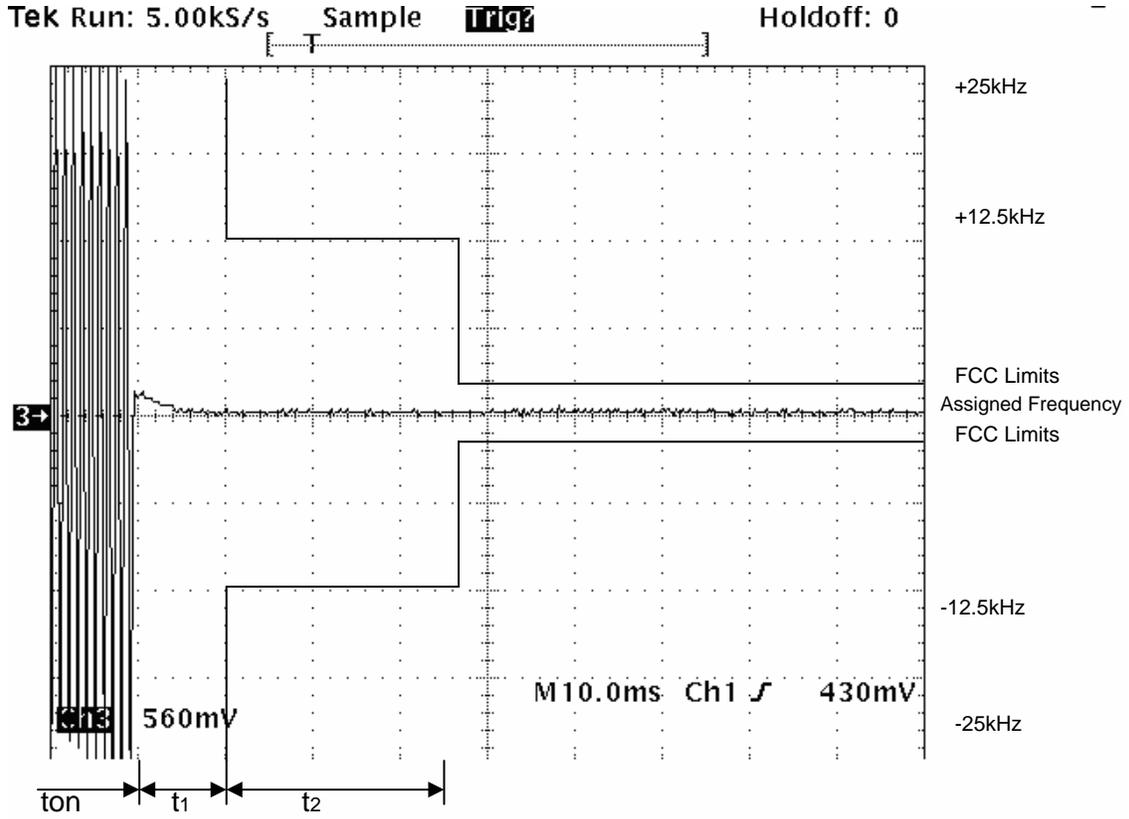


EXHIBIT 6G-2



Transient Frequency Response TX on 2 Watt 25 kHz



$$\frac{(\text{Freq}) * (\text{PPM}) * (\pm 4)}{\text{BW}}$$

$$\frac{(264\text{MHz}) * (5\text{PPM}) * (\pm 4)}{25 \text{ kHz}}$$

$$= \pm 0.3712 \text{ div}$$



MOTOROLA

FCC ID: AZ489FT4880

Transient Frequency Response TX off 2 Watt 25 kHz

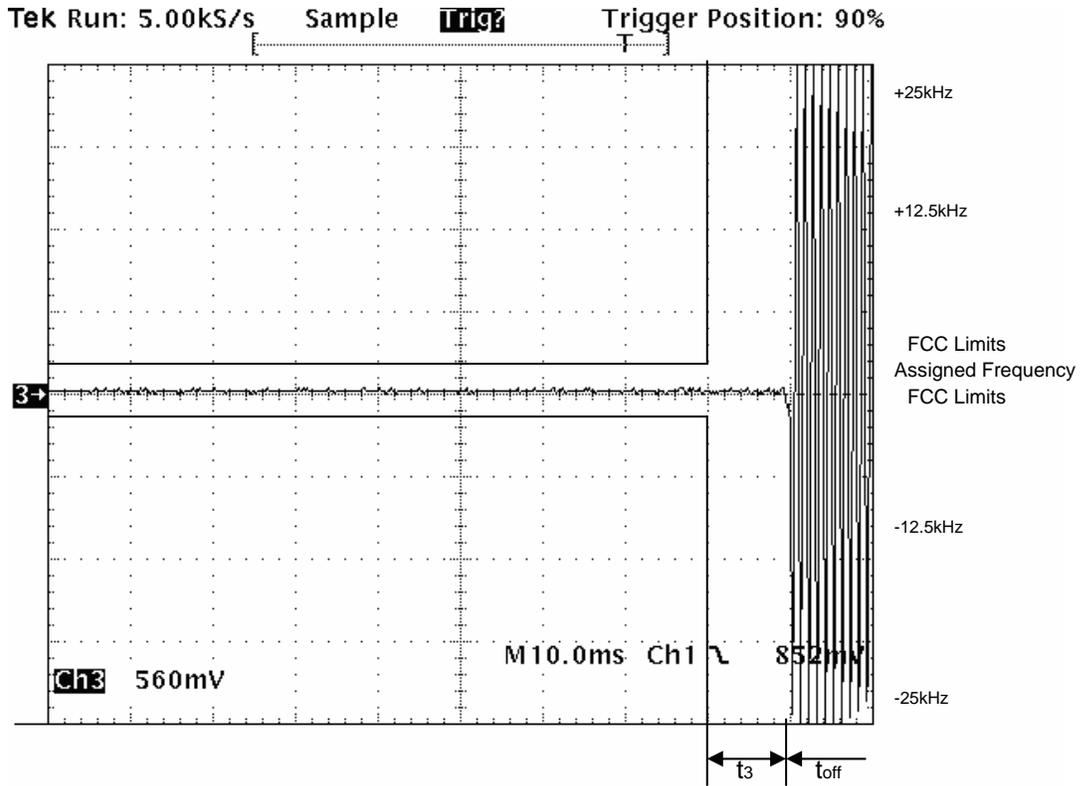


EXHIBIT 6G-4