



Test Report

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MOTOROLA

FCC ID: AZ489FT3817

RF POWER OUTPUT DATA

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

1.0Watts

Frequency	151.8800MHz
Measured Conducted RF output*	1.02 Watts
Normal DC Voltage	7.80 Volts
Normal DC Current	560 milli amps
Primary Supply Voltage	7.80 Volts

2.0Watts

Frequency	151.70MHz
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

EXHIBIT 6A



MOTOROLA

FCC ID: AZ489FT3817

Audio Response

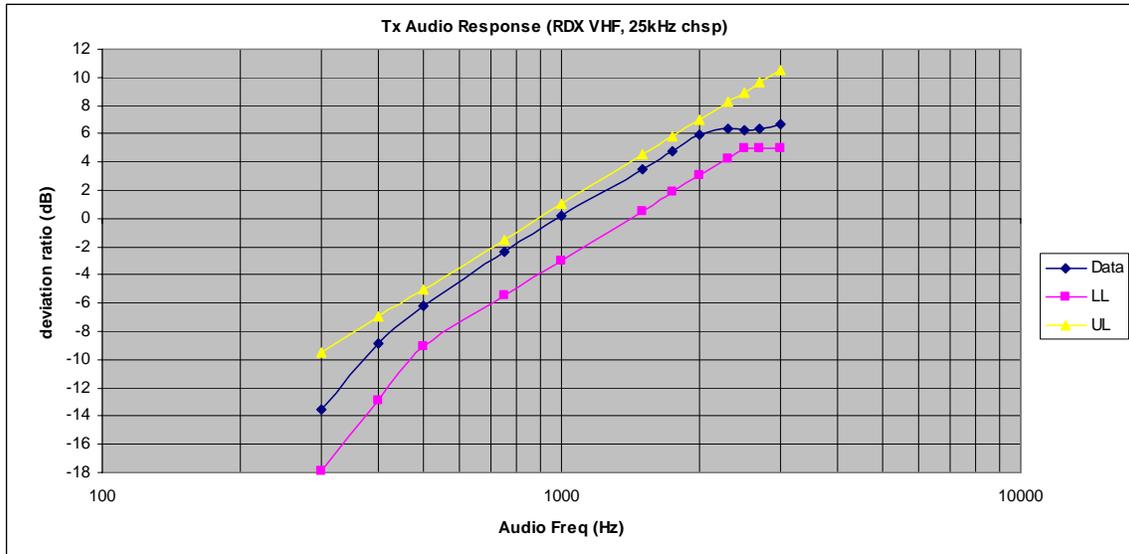
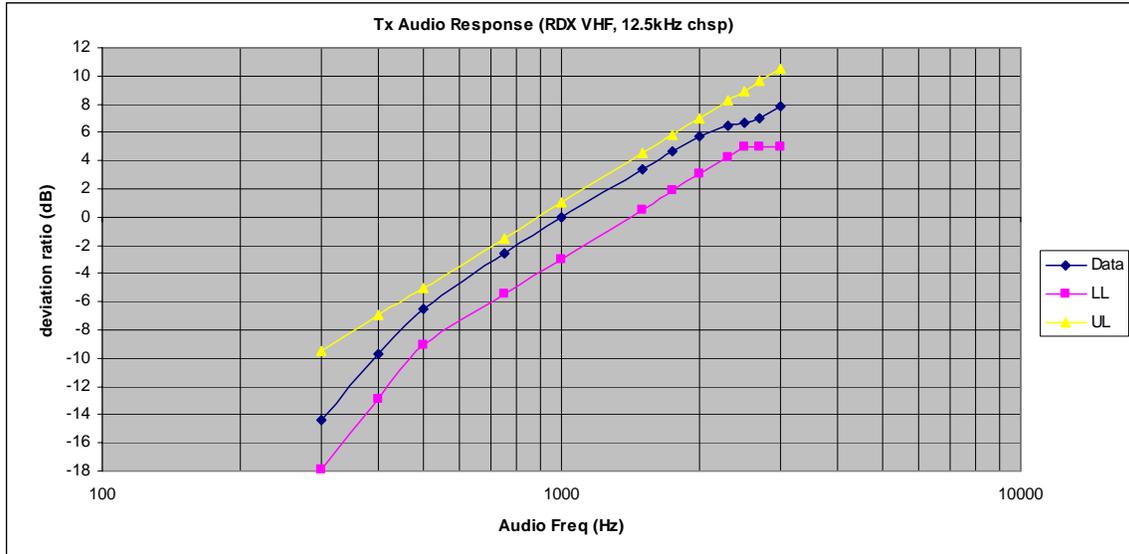


EXHIBIT 6B



MOTOROLA

FCC ID: AZ489FT3817

MODULATION LIMITING

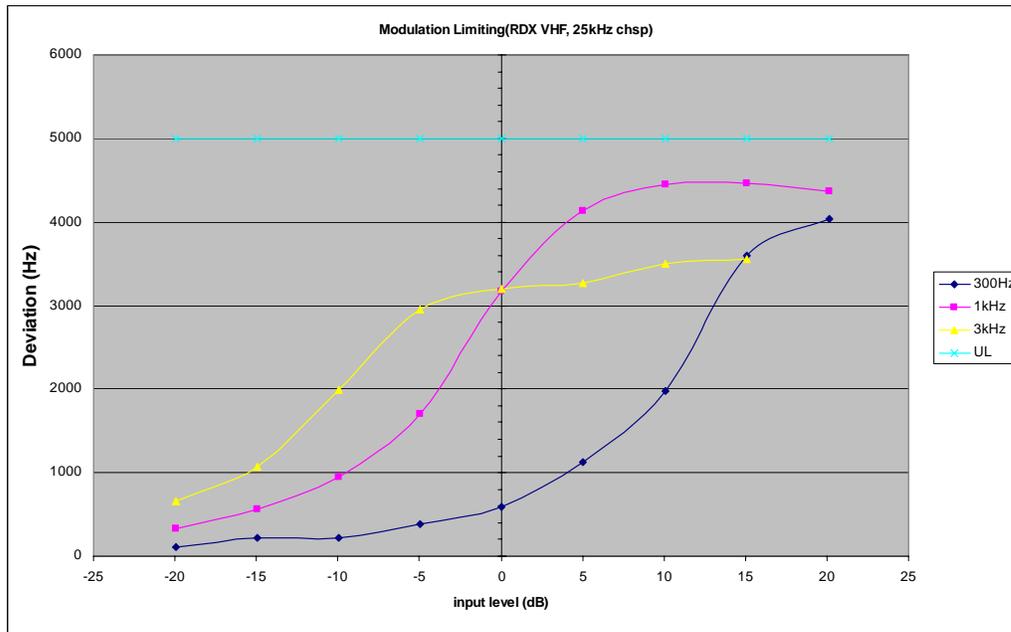
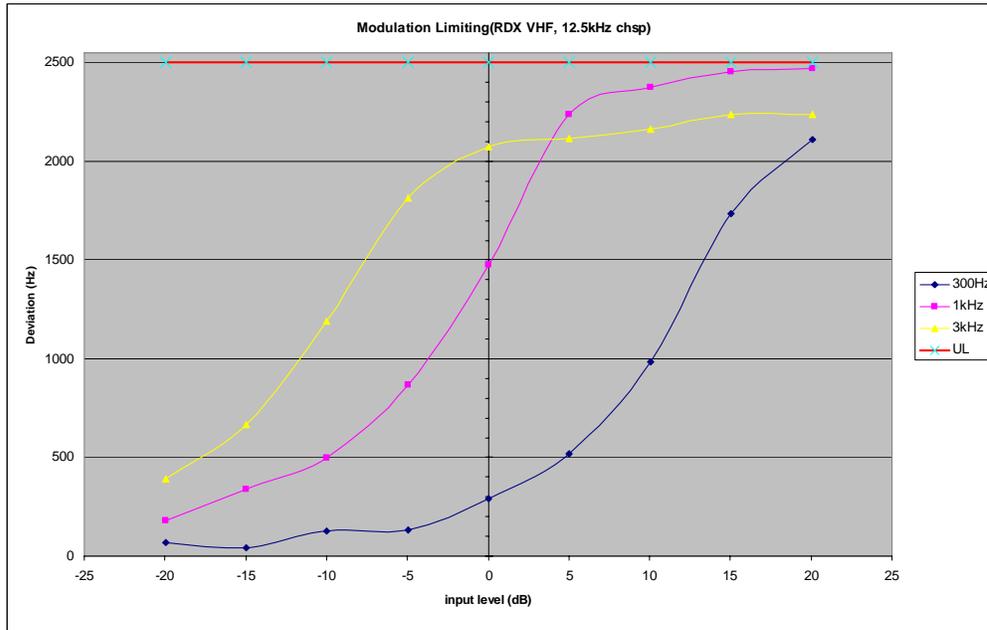


EXHIBIT 6C



MOTOROLA

FCC ID: AZ489FT3817

OCCUPIED BANDWIDTH DATA

2Watt

12.5 / 25kHz 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 (3kHz maximum modulation frequency +2.5 kHz deviation)

BW=2 (5.5)

BW= 11K0

CARSON'S RULE: **16K0F3E**

BW= 2(M+D)

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

BW=2 (8)

BW= 16K0

EXHIBIT 6D



MOTOROLA

FCC ID: AZ489FT3817

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

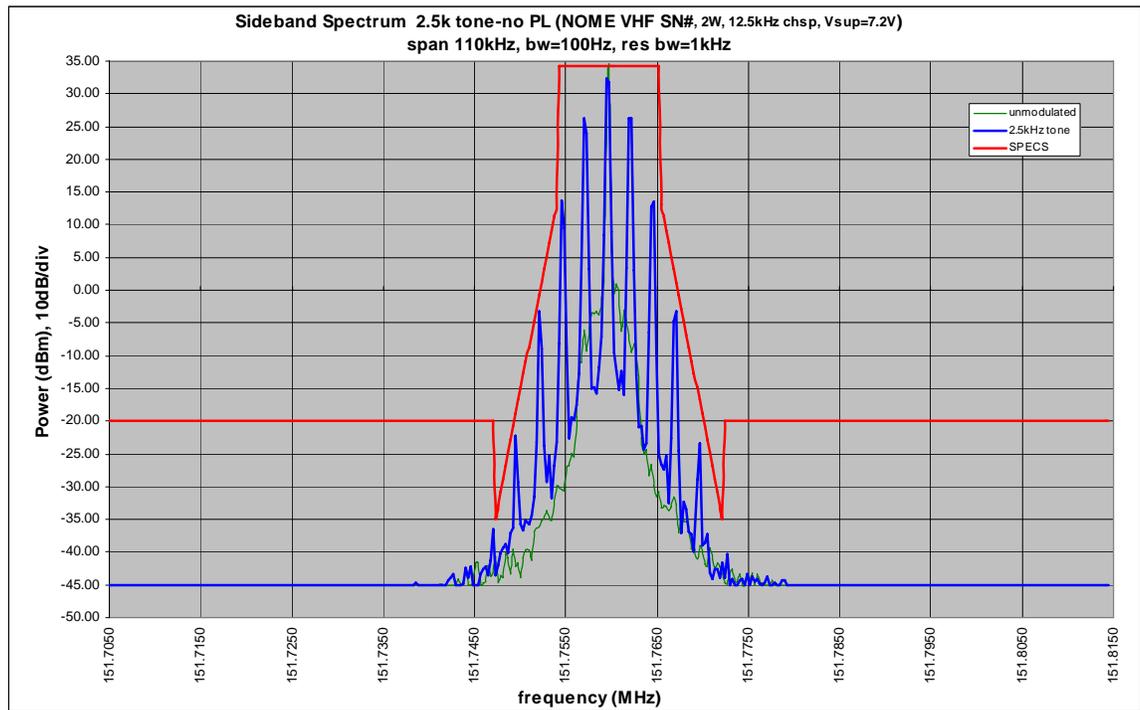


EXHIBIT 6D-1



MOTOROLA

FCC ID: AZ489FT3817

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

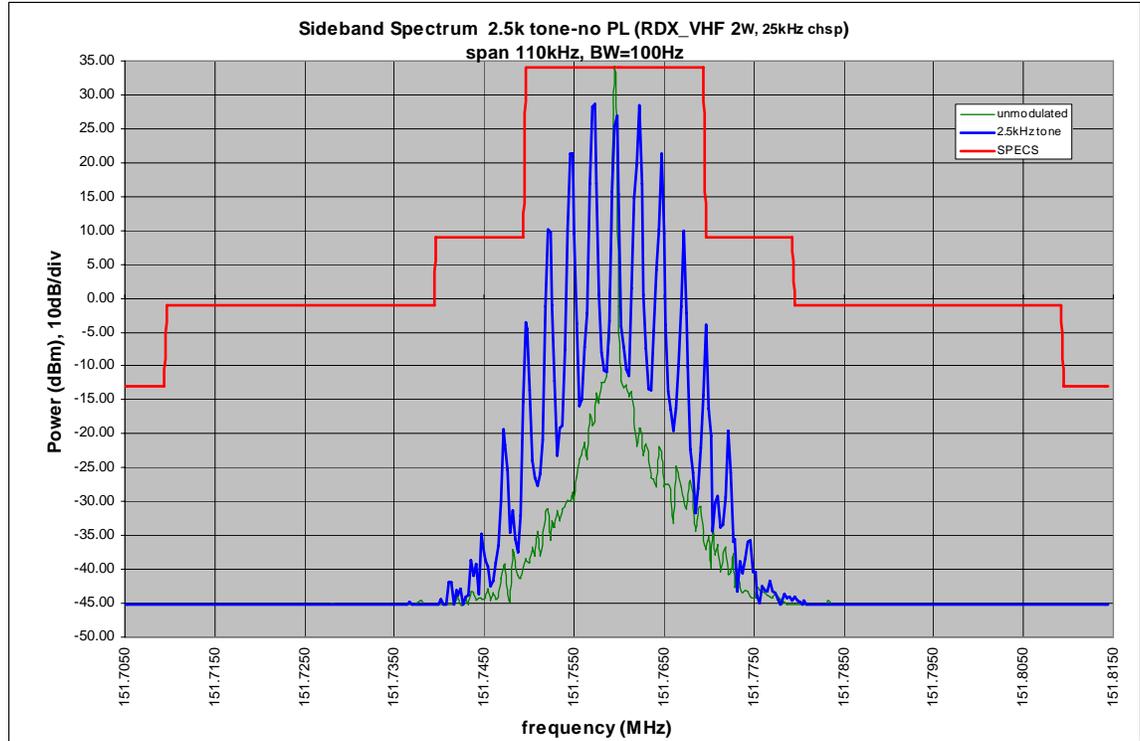


EXHIBIT 6D-2



MOTOROLA

FCC ID: AZ489FT3817

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

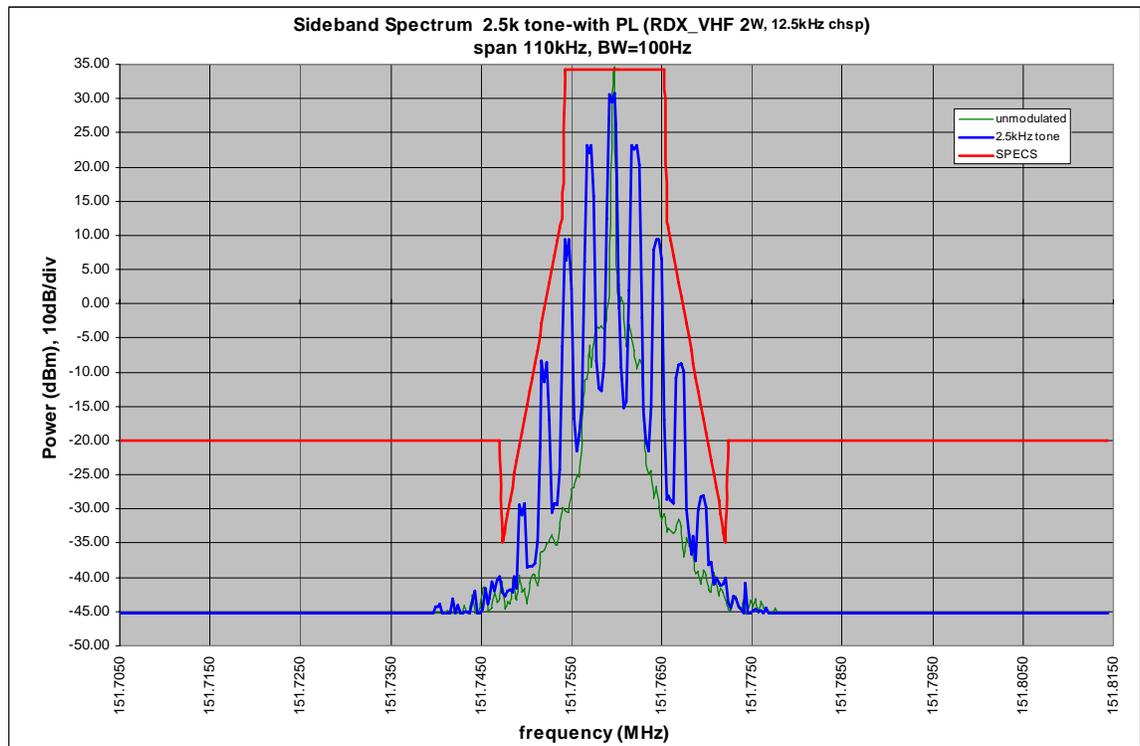


EXHIBIT 6D-3



MOTOROLA

FCC ID: AZ489FT3817

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

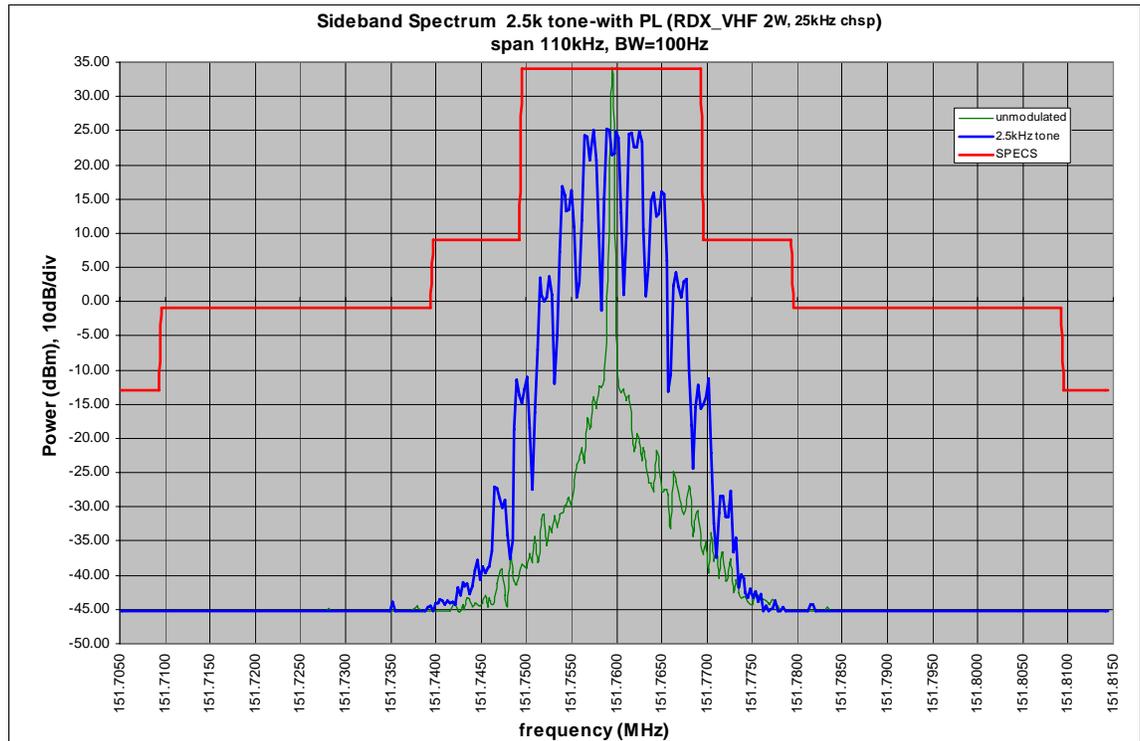


EXHIBIT 6D-4

1Watt



MOTOROLA

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FCC ID:AZ489FT3817

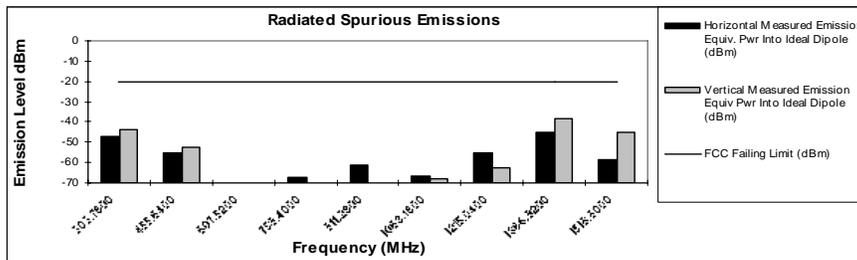
Transmit Radiated Spurious Emissions: Fixed Antenna RDV2020

Tx Power: 1 Watts

151.88 MHz

Channel Spacing 12.5KHZ | S/N #001

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
303.7600	-20	-46.83	-43.60
455.6400	-20	-54.86	-52.40
607.5200	-20	*	*
759.4000	-20	-67.35	*
911.2800	-20	-61.29	*
1063.1600	-20	-66.94	-68.00
1215.0400	-20	-55.04	-62.93
1366.9200	-20	-44.83	-38.54
1518.8000	-20	-58.72	-45.35



* 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

October 2, 2006

EXHIBIT 6E-1



MOTOROLA

FCC ID: AZ489FT3817

1Watt

Motorola Inc.

FCC ID:AZ489FT3817

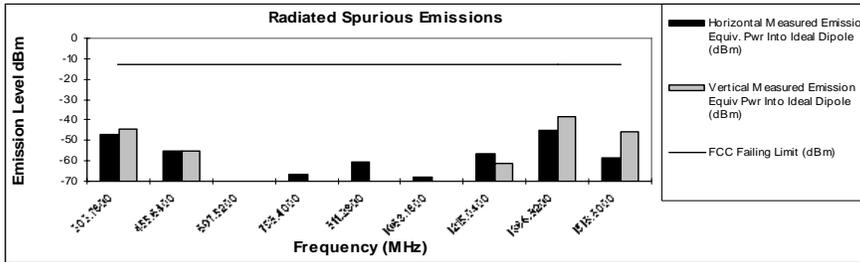
Transmit Radiated Spurious Emissions: Fixed Antenna RDV2020

Tx Power: 1 Watts

151.88 MHz

Channel Spacing 25KHZ | S/N #001

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
303.7600	-13	-47.19	-44.58
455.6400	-13	-55.18	-55.10
607.5200	-13	*	*
759.4000	-13	-66.96	*
911.2800	-13	-60.84	*
1063.1600	-13	-67.84	*
1215.0400	-13	-56.27	-61.25
1366.9200	-13	-44.84	-38.70
1518.8000	-13	-58.54	-45.54



* 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

October 2, 2006



2Watts

Motorola Inc.

FCC ID:AZ489FT3817

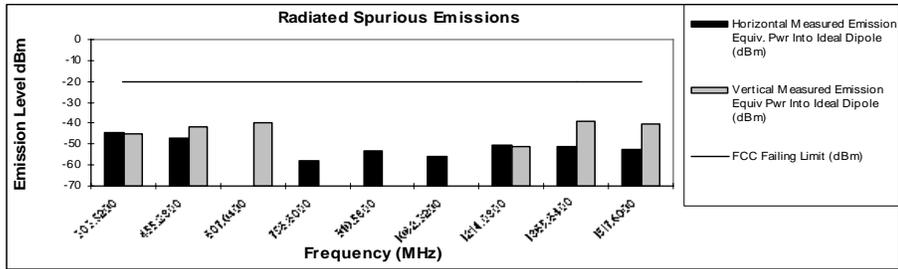
Transmit Radiated Spurious Emissions: Fixed Antenna RDV2020

Tx Power: 2.3 Watts

151.76 MHz

Channel Spacing 12.5KHZ | S/N #001

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
303.5200	-20	-44.55	-44.77
455.2800	-20	-46.84	-41.80
607.0400	-20	*	-39.79
758.8000	-20	-58.18	*
910.5600	-20	-53.46	*
1062.3200	-20	-55.72	*
1214.0800	-20	-50.39	-51.42
1365.8400	-20	-51.22	-38.95
1517.6000	-20	-52.52	-40.12



* 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

September 29, 2006



2Watts

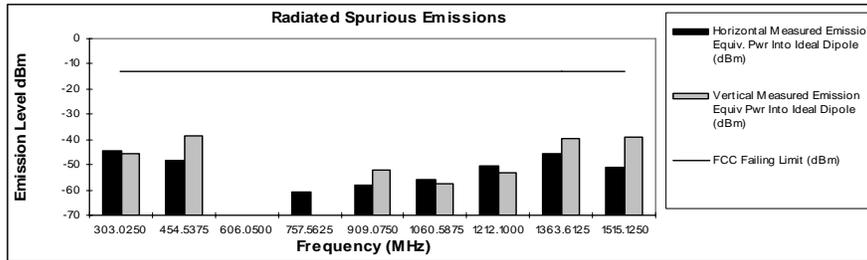
Motorola Inc.

FCC ID:AZ489FT3817

Transmit Radiated Spurious Emissions: Fixed Antenna RDV2020
Tx Power: 2.3 Watts

151.5125 MHz Channel Spacing 25KHZ | S/N #001

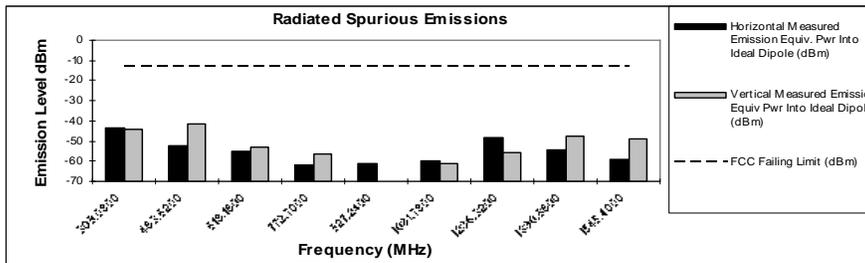
Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
303.0250	-13	-44.42	-45.41
454.5375	-13	-48.11	-38.44
606.0500	-13	*	*
757.5625	-13	-60.77	*
909.0750	-13	-58.08	-52.07
1060.5875	-13	-55.72	-57.56
1212.1000	-13	-50.23	-53.01
1363.6125	-13	-45.52	-39.87
1515.1250	-13	-50.84	-38.90



Transmit Radiated Spurious Emissions: Fixed Antenna RDV2020
Tx Power: 2.3 Watts

154.54 MHz Channel Spacing 25KHZ | S/N #001

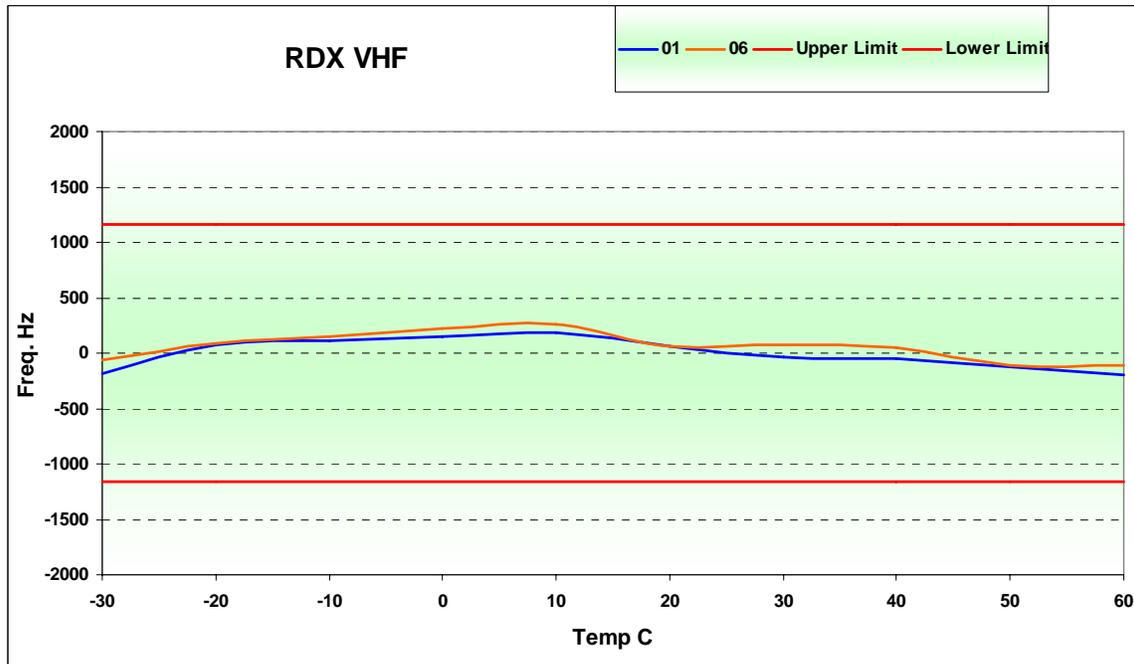
Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
309.0800	-13	-43.57	-44.40
463.6200	-13	-52.31	-41.64
618.1600	-13	-55.29	-53.34
772.7000	-13	-61.56	-56.12
927.2400	-13	-61.25	*
1081.7800	-13	-60.09	-61.31
1236.3200	-13	-48.30	-55.91
1390.8600	-13	-54.25	-47.71
1545.4000	-13	-59.07	-49.06



* 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.

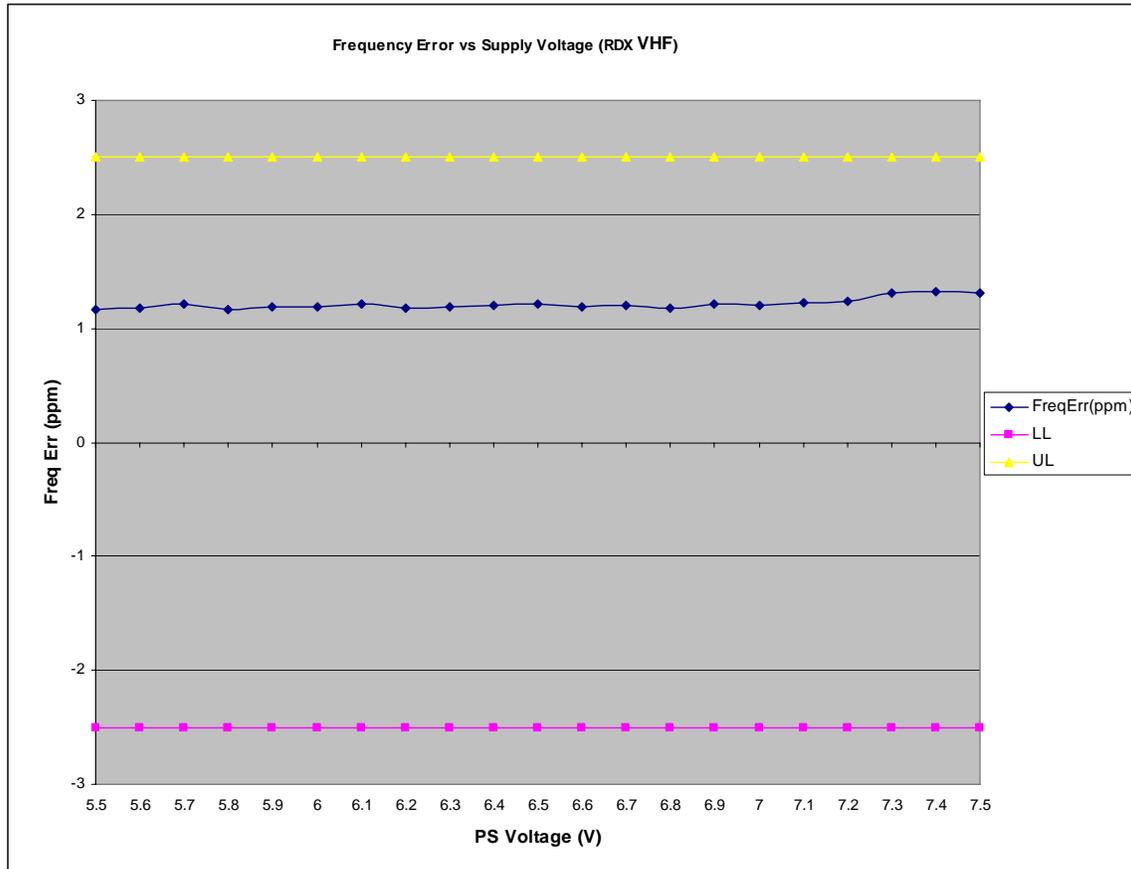


Frequency Stability over Temperature





Frequency Error over Voltage



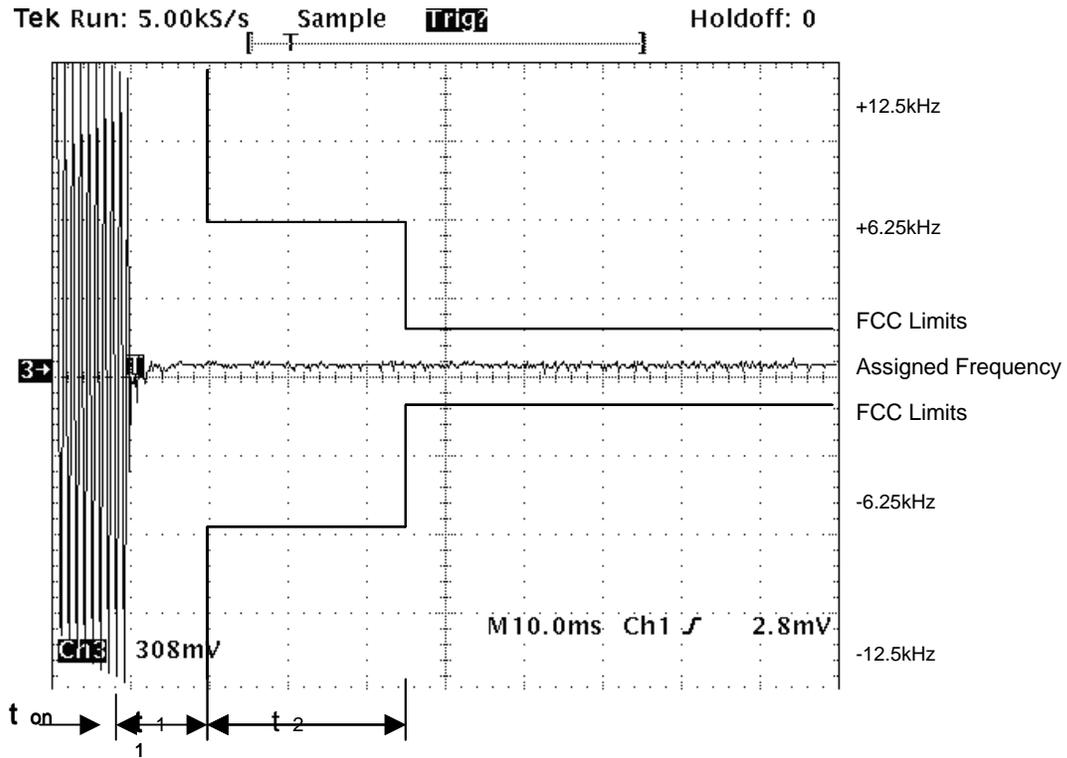
Reset voltage 5.0 Volts



MOTOROLA

FCC ID: AZ489FT3817

Transient Frequency Response TX on 2 Watt 12.5 kHz





MOTOROLA

FCC ID: AZ489FT3817

Transient Frequency Response TX off 2 Watt 12.5 kHz

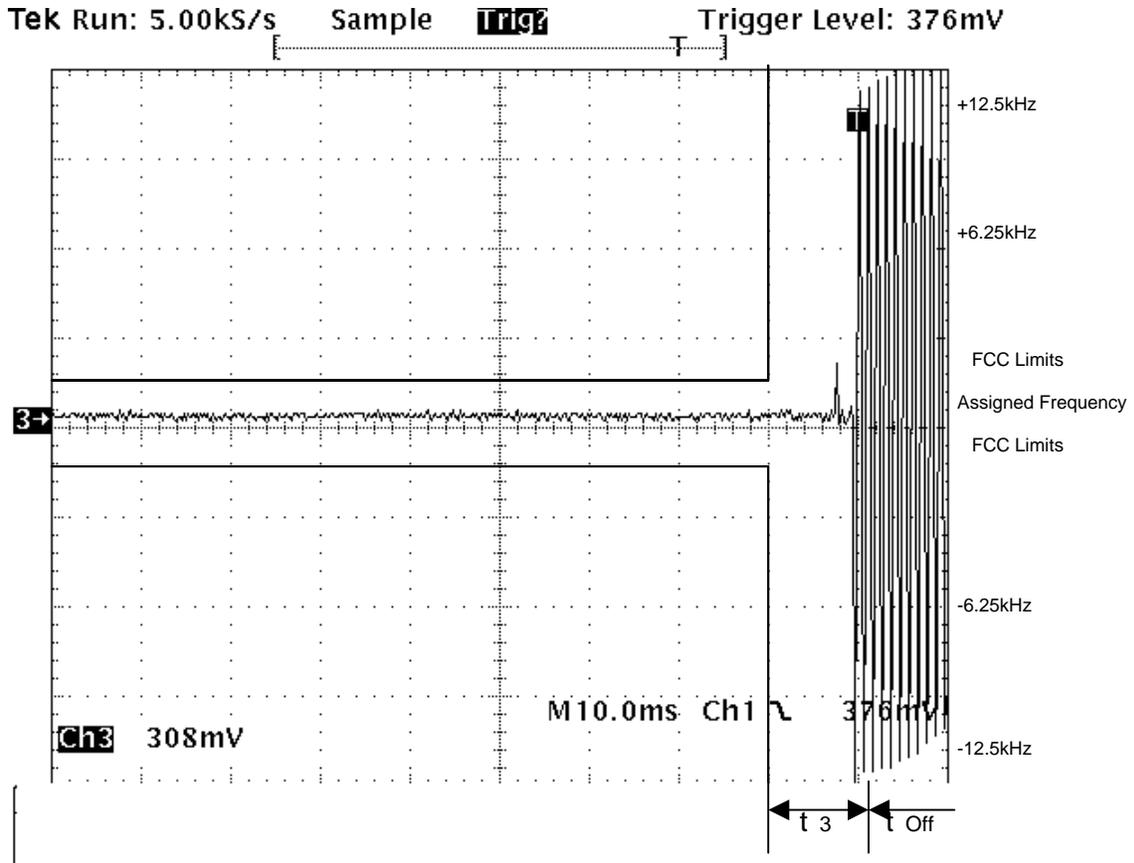


EXHIBIT 6G-2



MOTOROLA

FCC ID: AZ489FT3817

Transient Frequency Response TX on 2 Watt 25 kHz

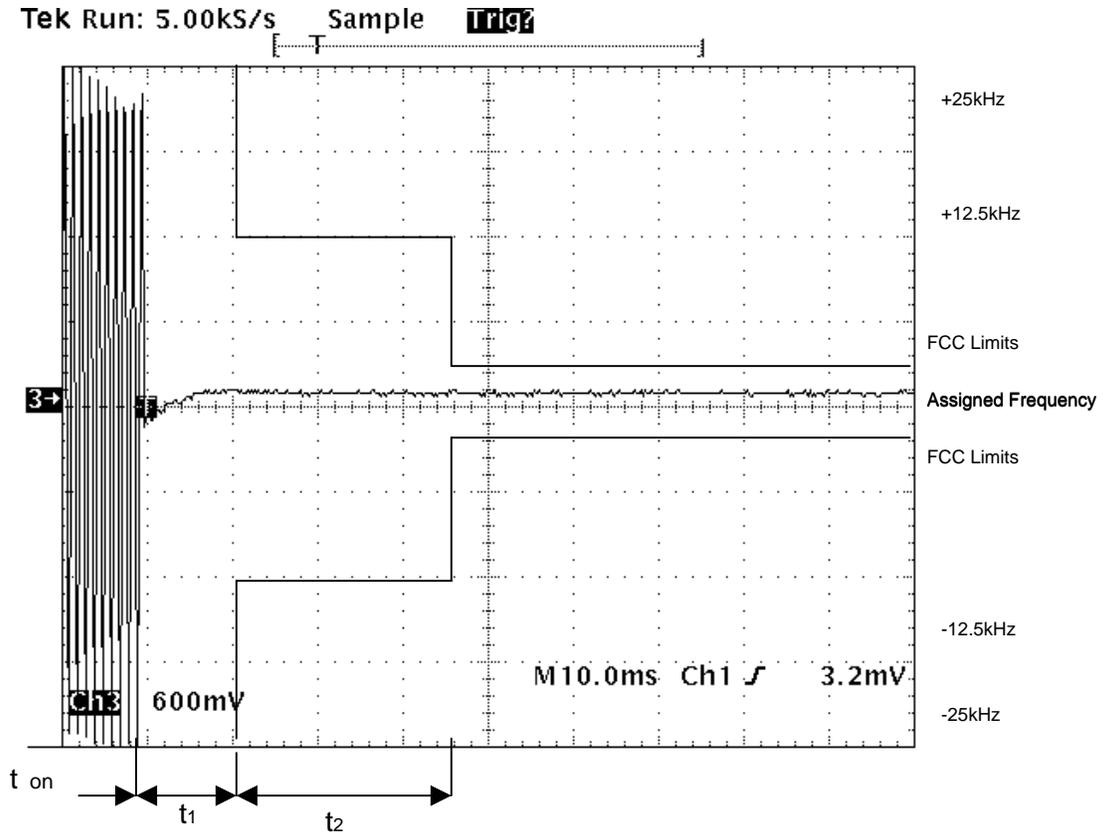


EXHIBIT 6G-3



MOTOROLA

FCC ID: AZ489FT3817

Transient Frequency Response TX off 2 Watt 25 kHz

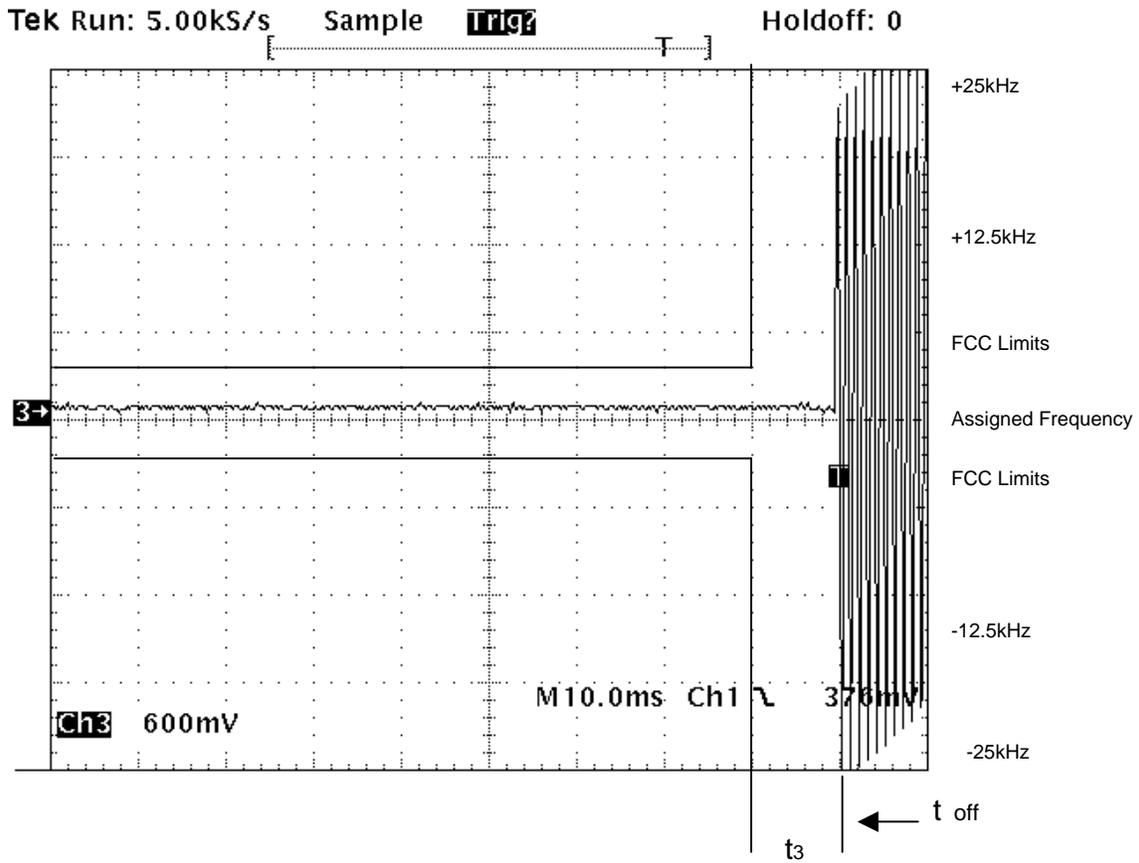


EXHIBIT 6G-4