

RF Power Output - Measured Data

The supply voltage to the transmitter was set to 7.5 volts DC. The RF output power was measured with the indicated voltage and current applied into the final RF amplifying device.

RF POWER OUTPUT 4.8W, FREQUENCY 403.05 MHz.

Measured RF Output Power: 4.53 WATTS
Measured DC Voltage: 7.31 VOLTS
Measured DC Current: 1.17 AMP
Measured DC Input Power: 8.55 WATTS

RF POWER OUTPUT 4.8W, FREQUENCY 436.05 MHz.

Measured RF Output Power: 4.60 WATTS
Measured DC Voltage: 7.29 VOLTS
Measured DC Current: 1.16 AMP
Measured DC Input Power: 8.46 WATTS

RF POWER OUTPUT 4.8W, FREQUENCY 469.95 MHz.

Measured RF Output Power: 4.65 WATTS
Measured DC Voltage: 7.26 VOLTS
Measured DC Current: 1.18 AMP
Measured DC Input Power: 8.57 WATTS

RF POWER OUTPUT 1.2W, FREQUENCY 403.05 MHz.

Measured RF Output Power: 1.10 WATTS
Measured DC Voltage: 7.36 VOLTS
Measured DC Current: 0.91 AMP
Measured DC Input Power: 6.70 WATTS

RF POWER OUTPUT 1.2W, FREQUENCY 436.05 MHz.

Measured RF Output Power: 1.12 WATTS
Measured DC Voltage: 7.36 VOLTS
Measured DC Current: 0.83 AMP
Measured DC Input Power: 6.11 WATTS

RF POWER OUTPUT 1,2W, FREQUENCY 469.95 MHz.

Measured RF Output Power: 1.10 WATTS
Measured DC Voltage: 7.36 VOLTS
Measured DC Current: 0.80 AMP
Measured DC Input Power: 5.89 WATTS

MOTOROLA INC.

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

FCC ID : AZ489FT4826

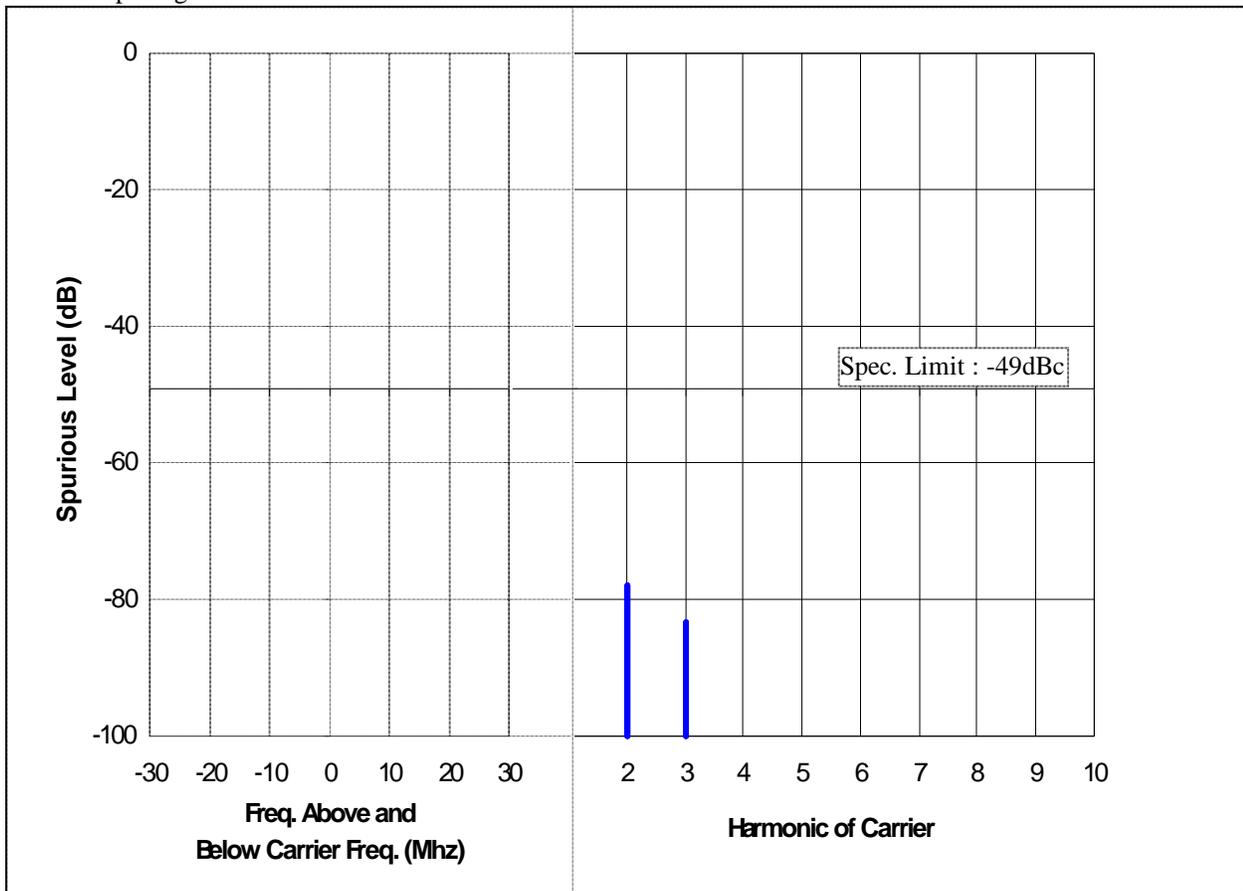
Log Page : ---

Date : 9th May 2000

Signature : SF Ooi

Power Output : 4W at 403.985 MHz.

Channel Spacing : 25KHz.



Note: Other emissions not reported were more than 30dB below the limit

MOTOROLA INC.

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

Xmtr Type : AZ489FT4826

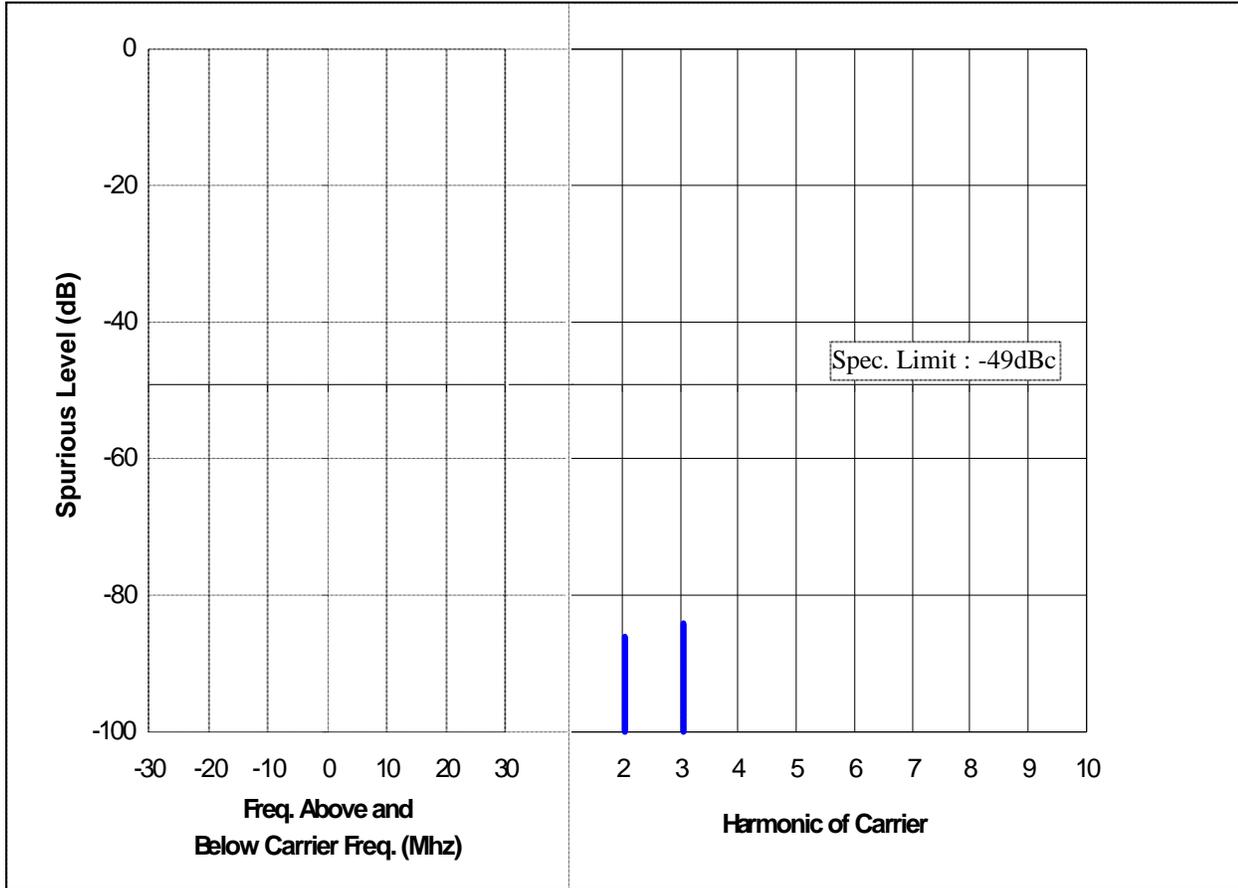
Log Page : ---

Date : 9th May 2000

Signature : SF Ooi

Power Output : 4W at 436.985 MHz.

Channel Spacing : 25KHz.



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MOTOROLA INC.

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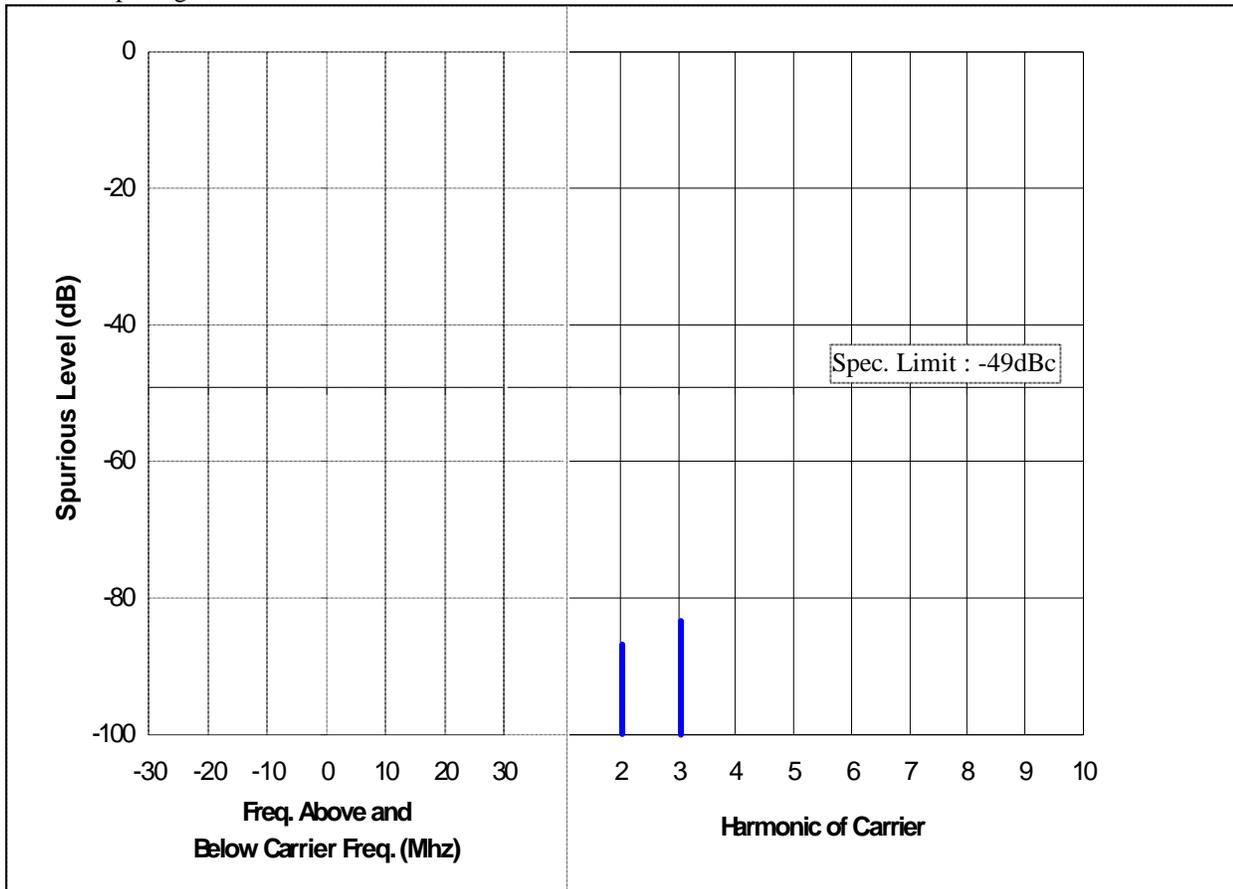
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Date : 9th May 2000

Signature : SF Ooi

Power Output : 4W at 469.985 MHz.

Channel Spacing : 25KHz.



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MOTOROLA INC.

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

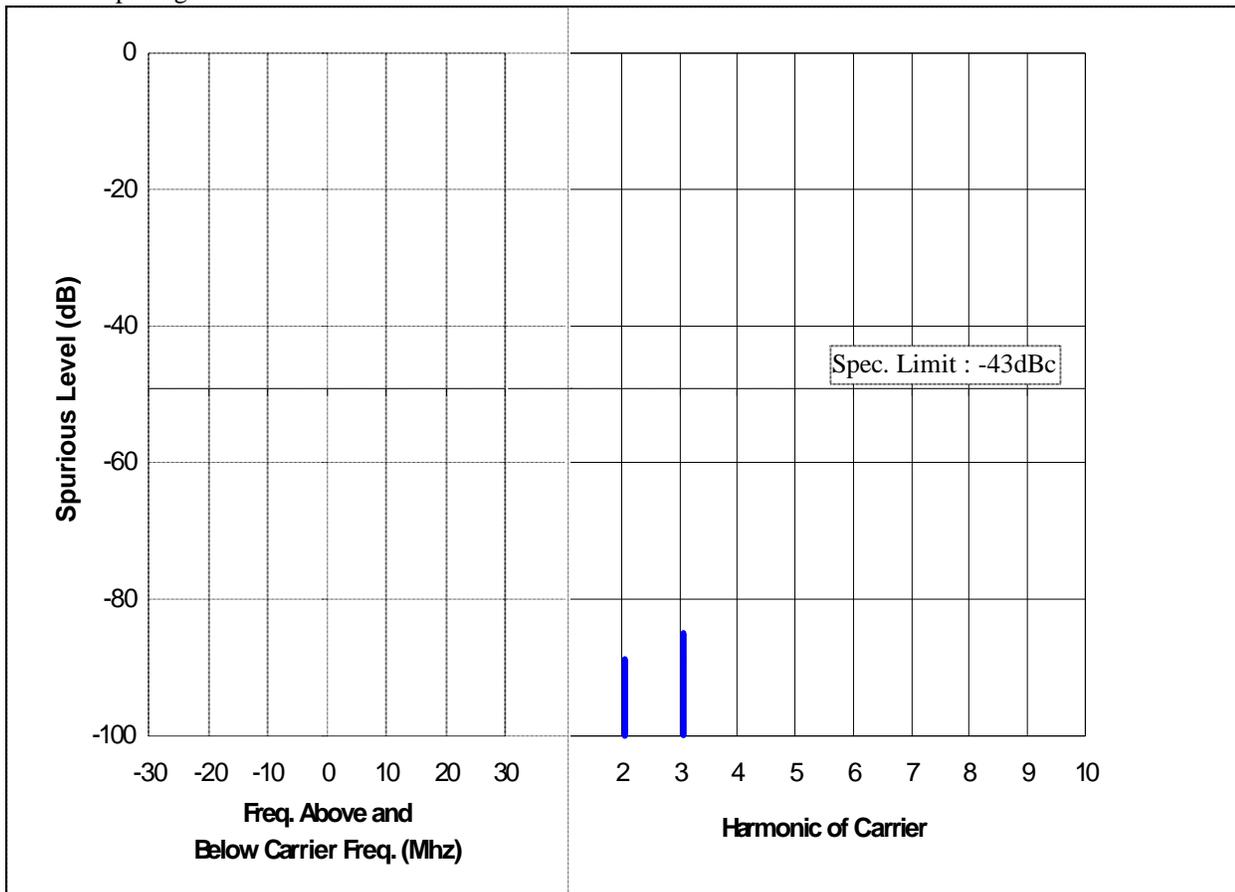
Xmtr Type : AZ489FT4826

Log Page : ---

Date : 9th May 2000

Signature : SF Ooi

Power Output : 1W at 403.985 MHz.
Channel Spacing : 25KHz.



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MOTOROLA INC.

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

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Xmtr Type : AZ489FT4826

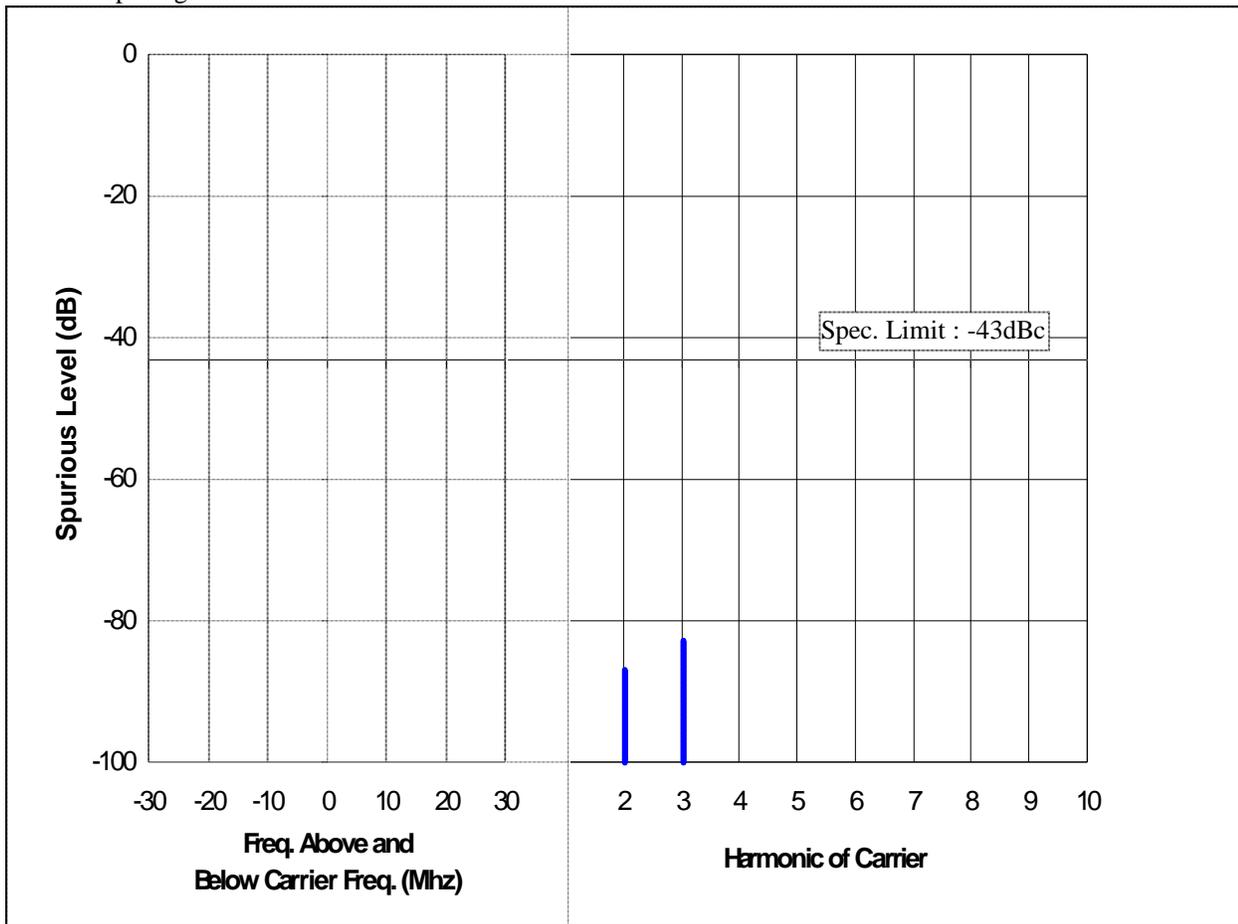
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Power Output : 1W at 436.985 MHz.

Channel Spacing : 25KHz.



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

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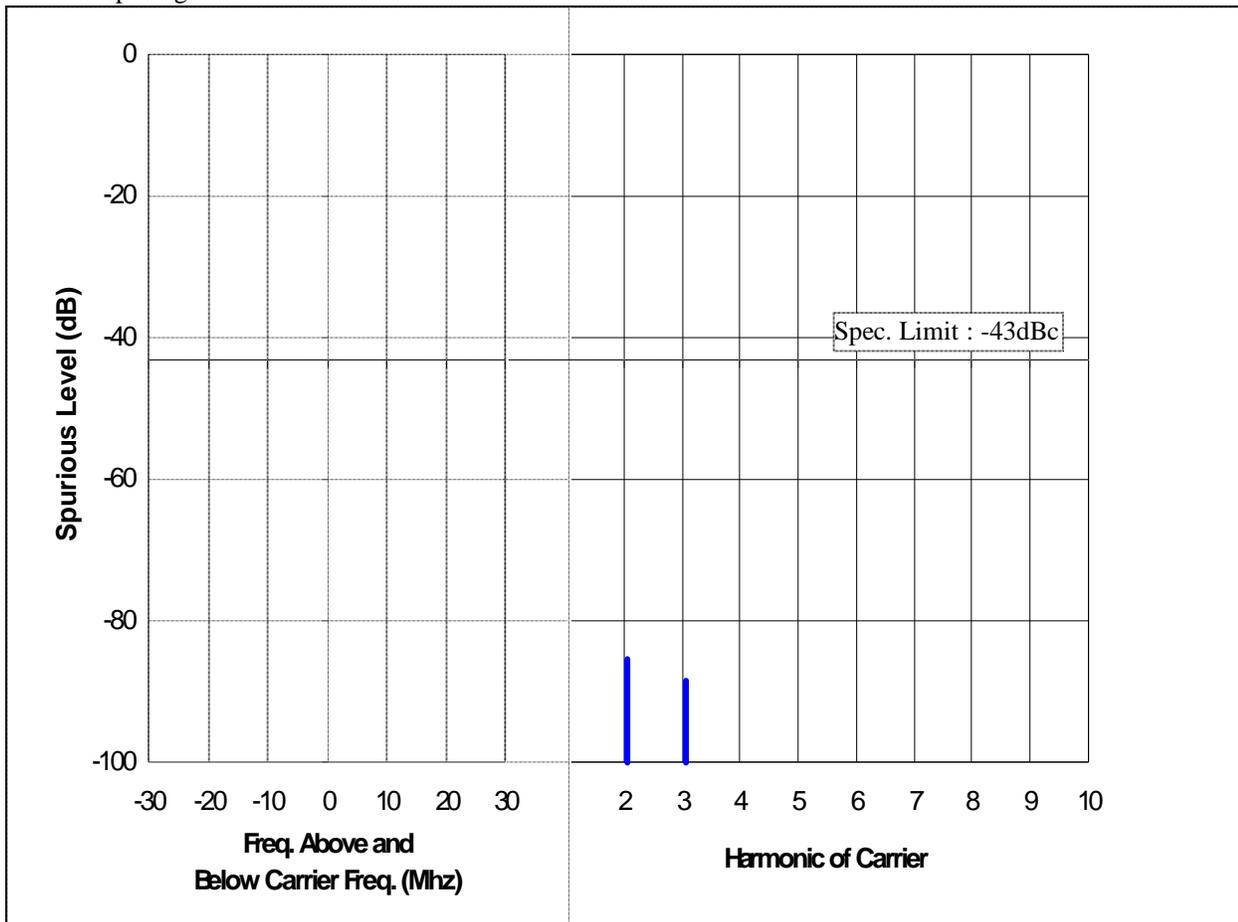
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Signature : SF Ooi

Power Output : 1W at 469.985 MHz.

Channel Spacing : 25KHz.



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**TRANSMITTER SPURIOUS EMISSION CHARACTERISTIC
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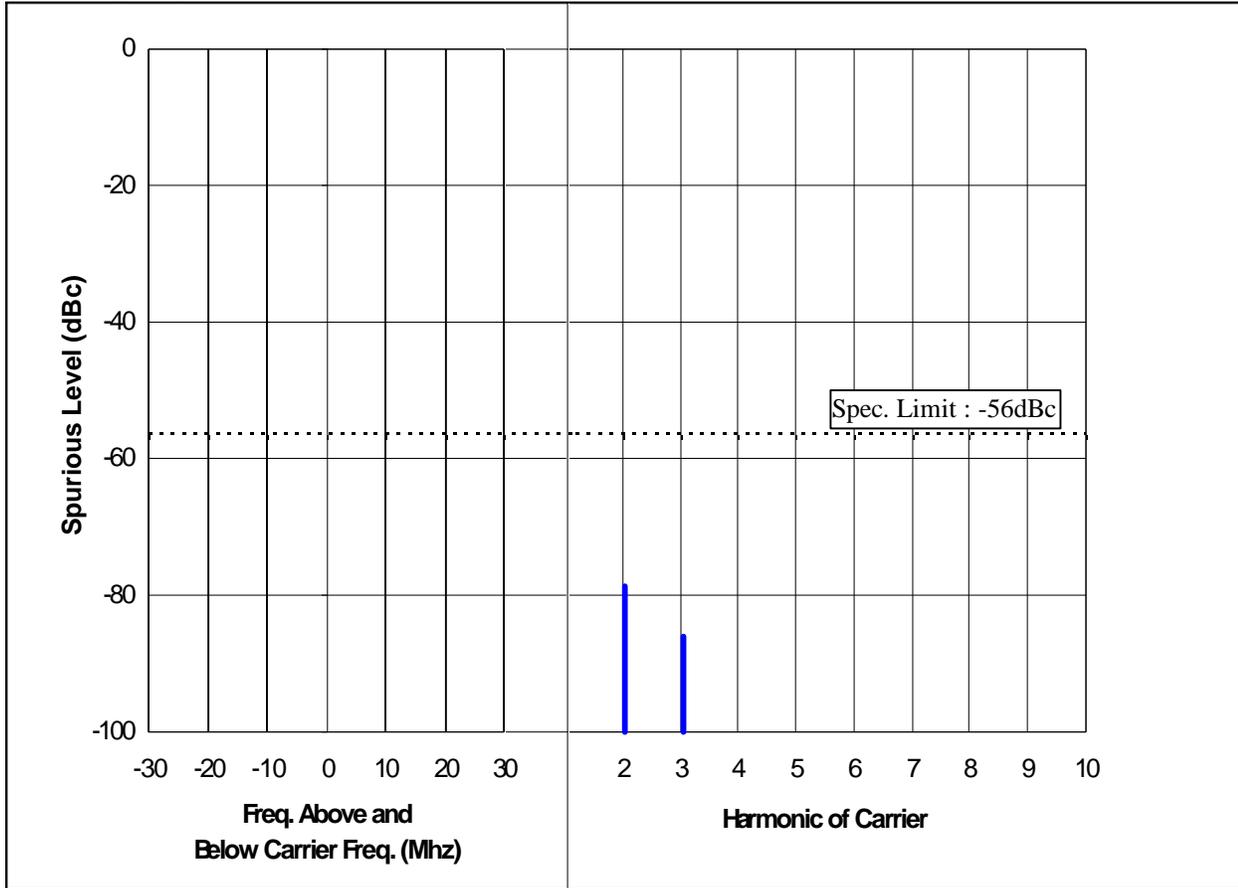
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Date : 9th May 2000

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Power Output : 4W at 403.985 MHz.

Channel Spacing : 12.5KHz.



Note: Other emissions not reported were more than 30dB below the limit

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

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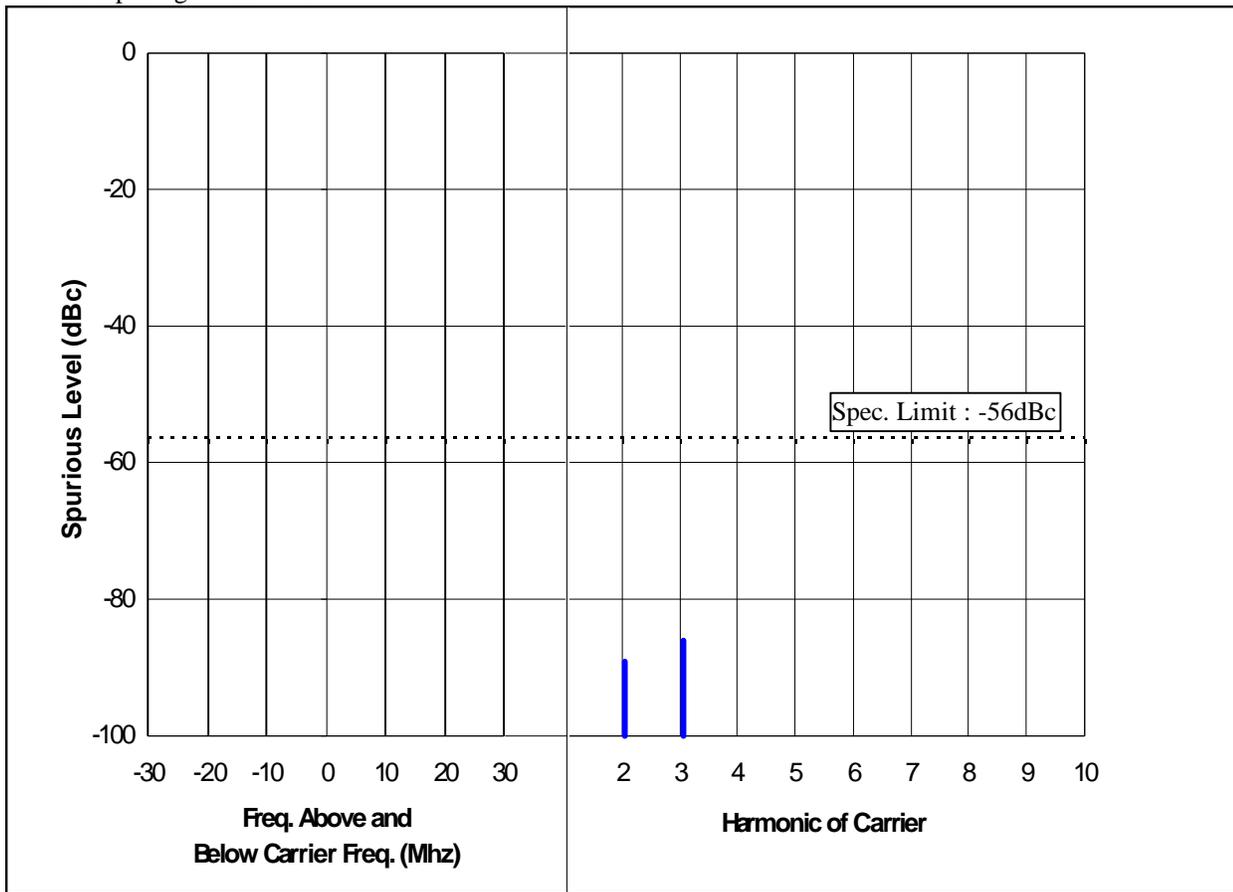
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CONDUCTED SPURIOUS AND HARMONIC EMISSIONS**

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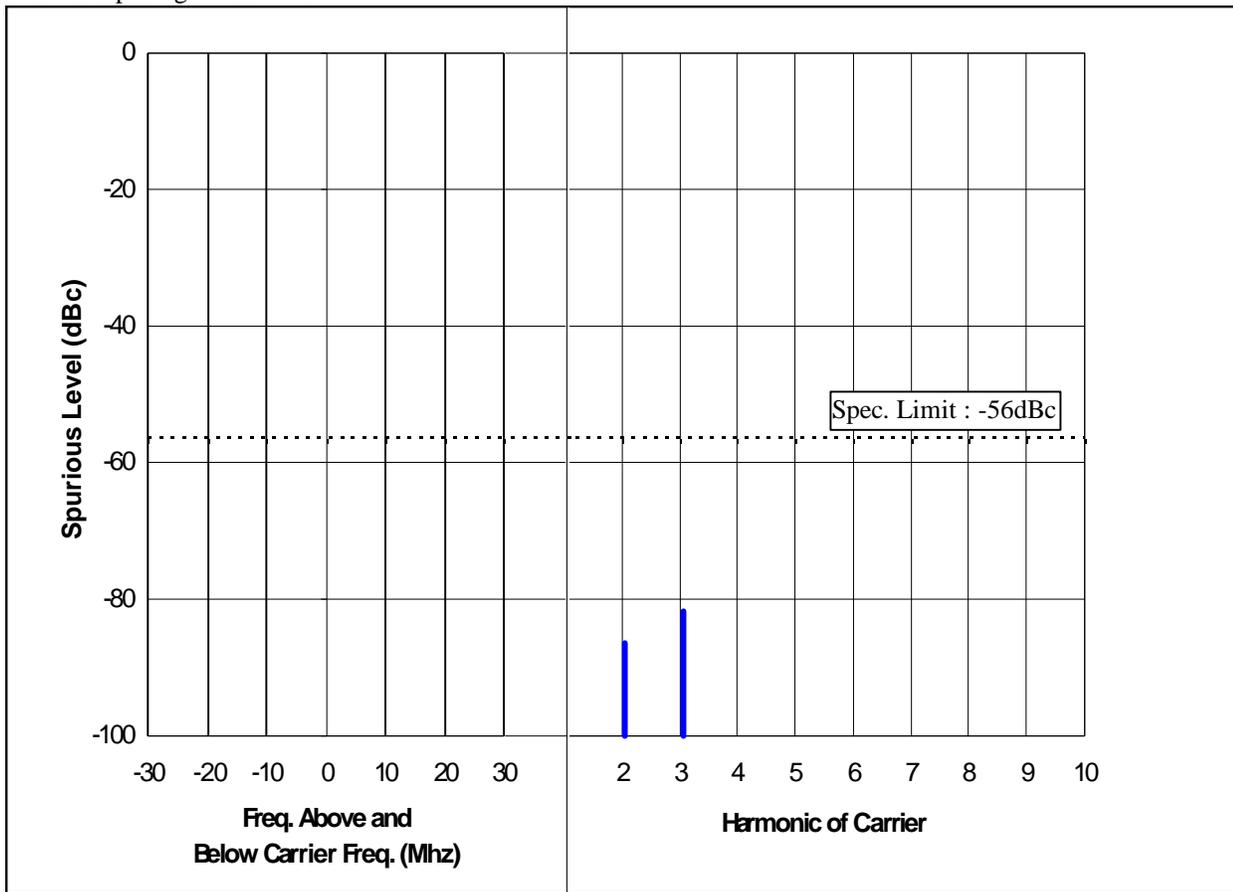
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Power Output : 4W at 469.985 MHz.

Channel Spacing : 12.5KHz.



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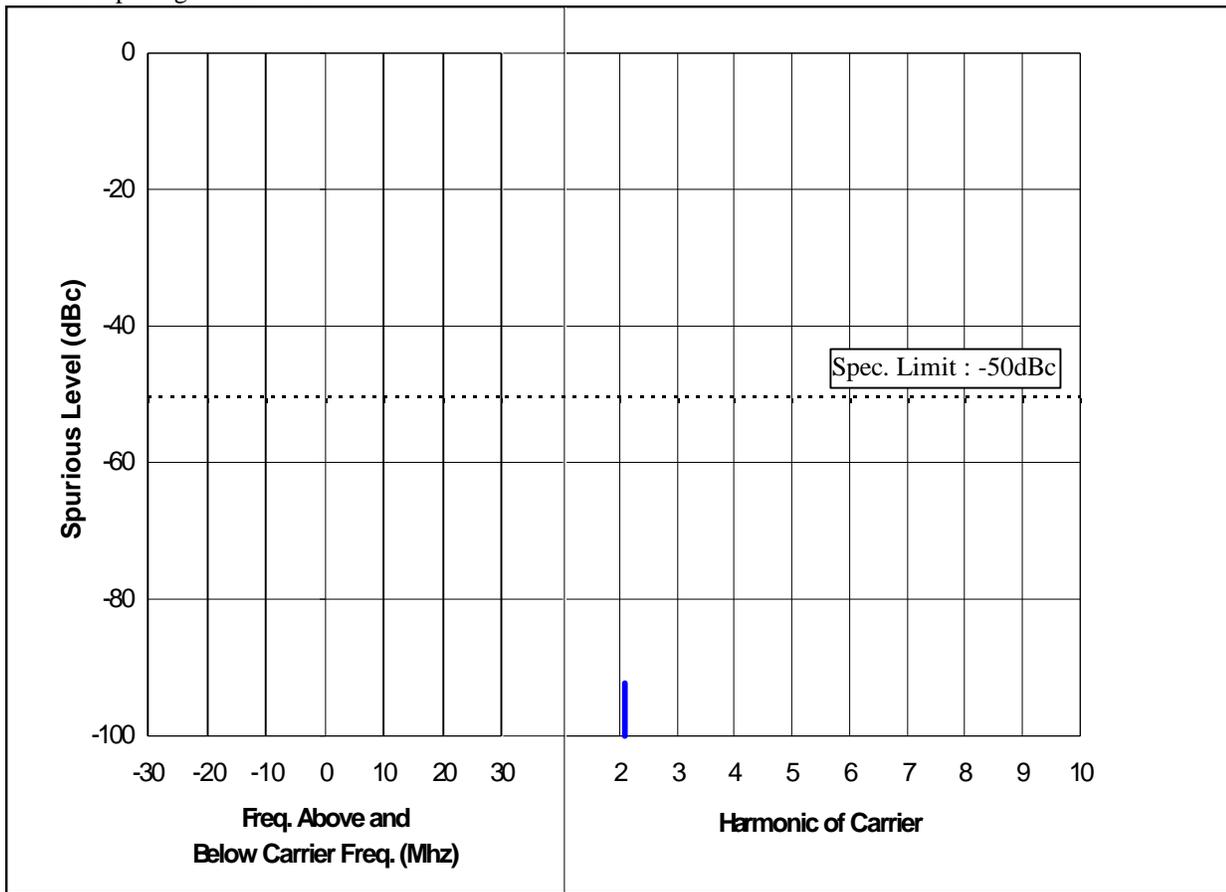
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Signature : SF Ooi

Power Output : 1W at 403.985 MHz.

Channel Spacing : 12.5KHz.



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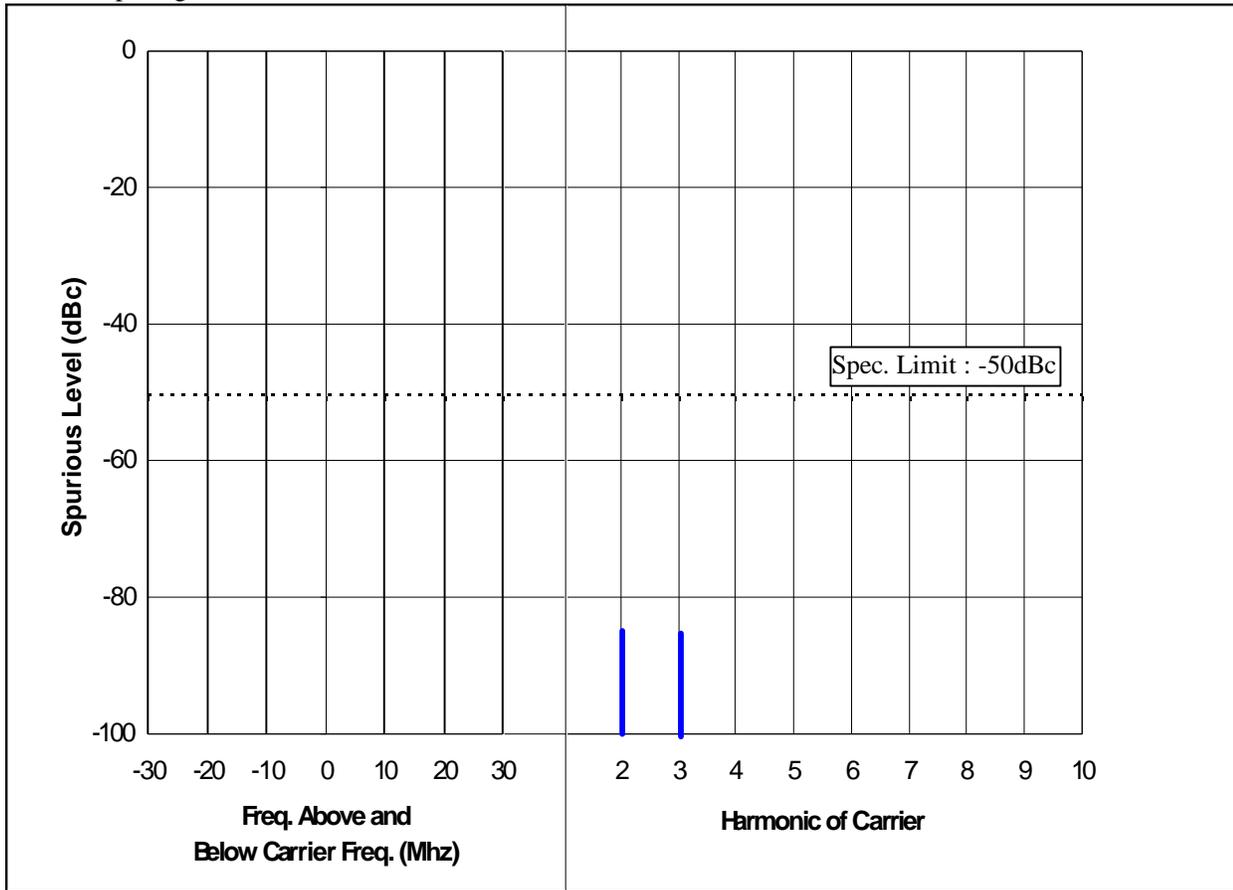
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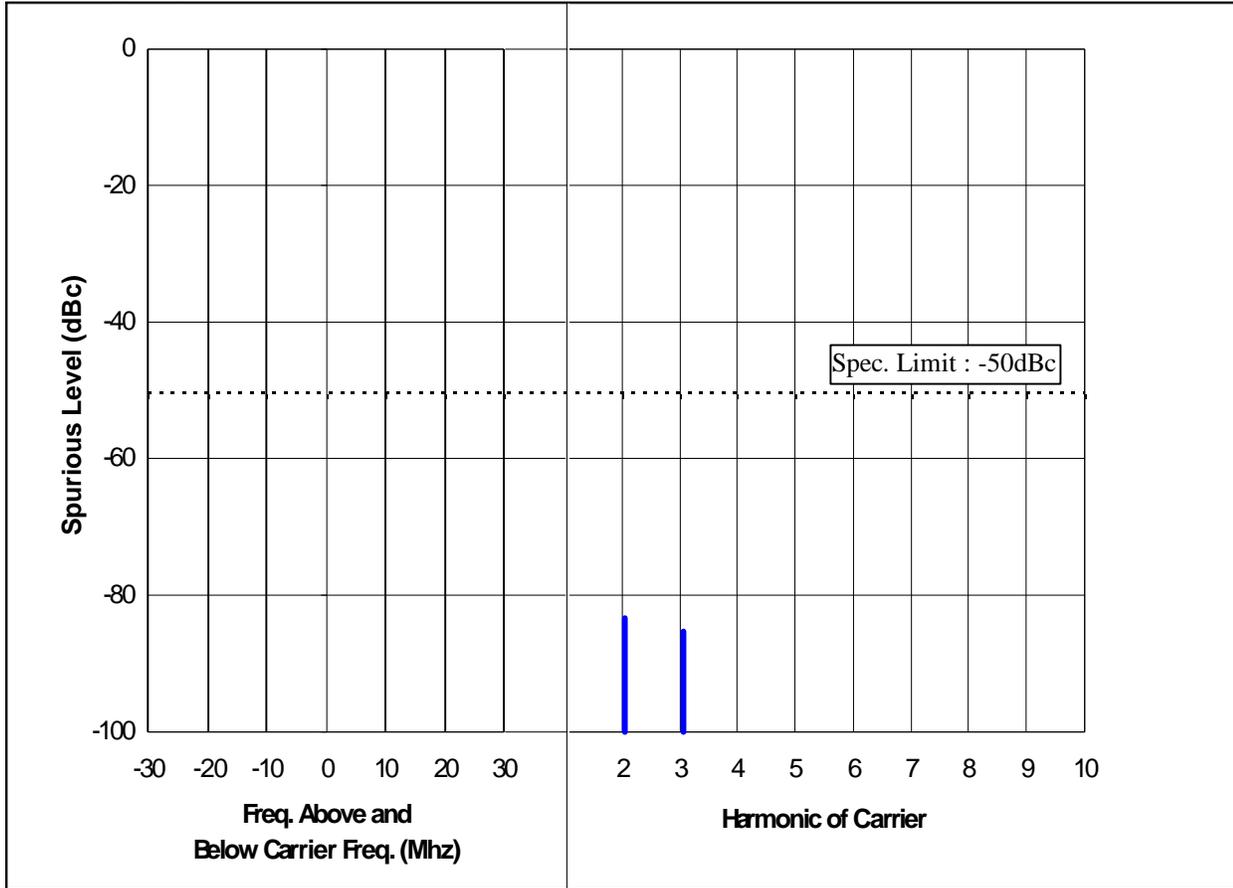
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Date : 9th May 2000

Signature : SF Ooi

Power Output : 1W at 469.985 MHz.

Channel Spacing : 12.5 kHz.



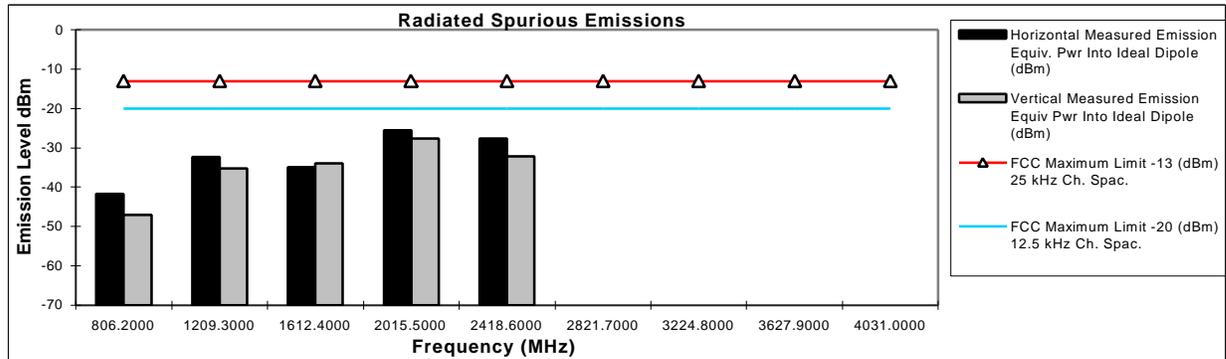
Note: Other emissions not reported were more than 30dB below the limit

MOTOROLA INC.

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

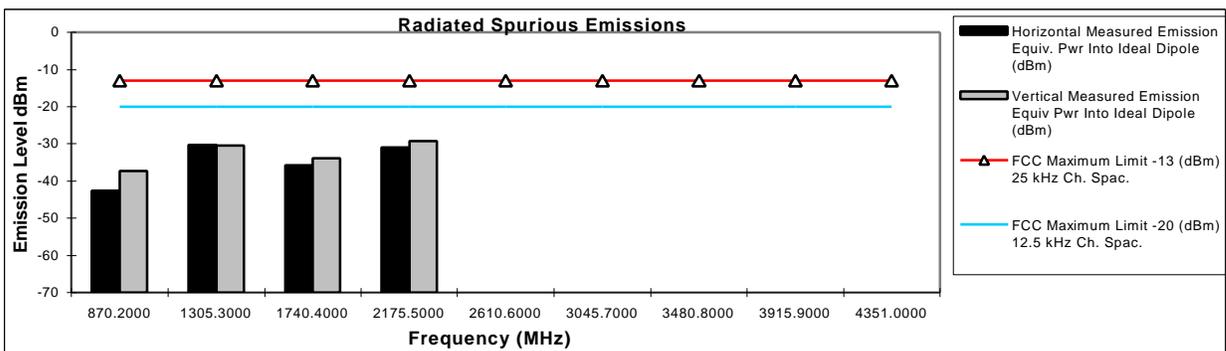
**Transmitter Radiated Spurious Emissions FCC ID: 489FT4826
High Power 25kHz Channel Spacing
403.1 MHz**

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)
806.2000	-13	-20	-41.7	-47.1
1209.3000	-13	-20	-32.3	-35.2
1612.4000	-13	-20	-35.0	-33.9
2015.5000	-13	-20	-25.5	-27.7
2418.6000	-13	-20	-27.6	-32.1
2821.7000	-13	-20	*	*
3224.8000	-13	-20	*	*
3627.9000	-13	-20	*	*
4031.0000	-13	-20	*	*



**Transmitter Radiated Spurious Emissions FCC ID: 489FT4826
435.1 MHz**

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)
870.2000	-13	-20	-42.6	-37.3
1305.3000	-13	-20	-30.3	-30.4
1740.4000	-13	-20	-35.7	-33.9
2175.5000	-13	-20	-31.0	-29.2
2610.6000	-13	-20	*	*
3045.7000	-13	-20	*	*
3480.8000	-13	-20	*	*
3915.9000	-13	-20	*	*
4351.0000	-13	-20	*	*



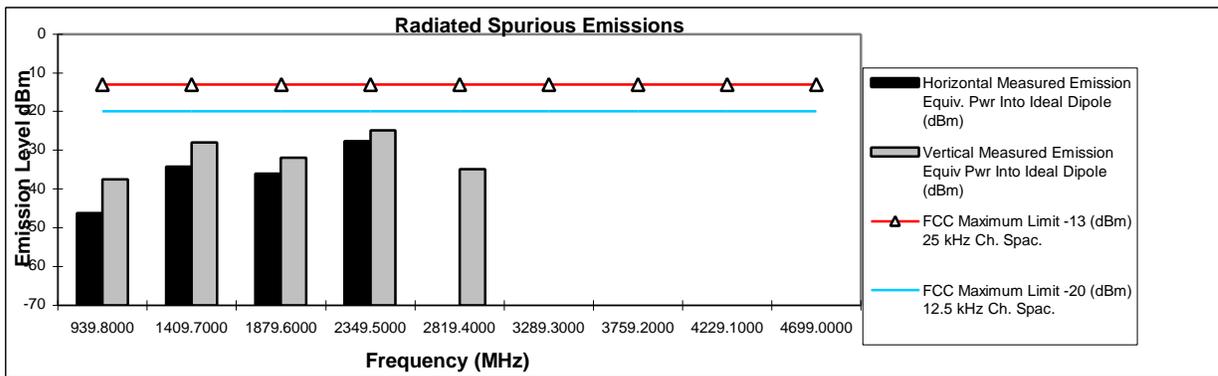
* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

MOTOROLA INC.

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

**Transmitter Radiated Spurious Emissions FCC ID:489FT4826
High Power 25kHz Channel Spacing
469.9 MHz**

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)
939.8000	-13	-20	-46.2	-37.4
1409.7000	-13	-20	-34.1	-27.9
1879.6000	-13	-20	-35.9	-31.9
2349.5000	-13	-20	-27.6	-24.8
2819.4000	-13	-20	*	-34.9
3289.3000	-13	-20	*	*
3759.2000	-13	-20	*	*
4229.1000	-13	-20	*	*
4699.0000	-13	-20	*	*

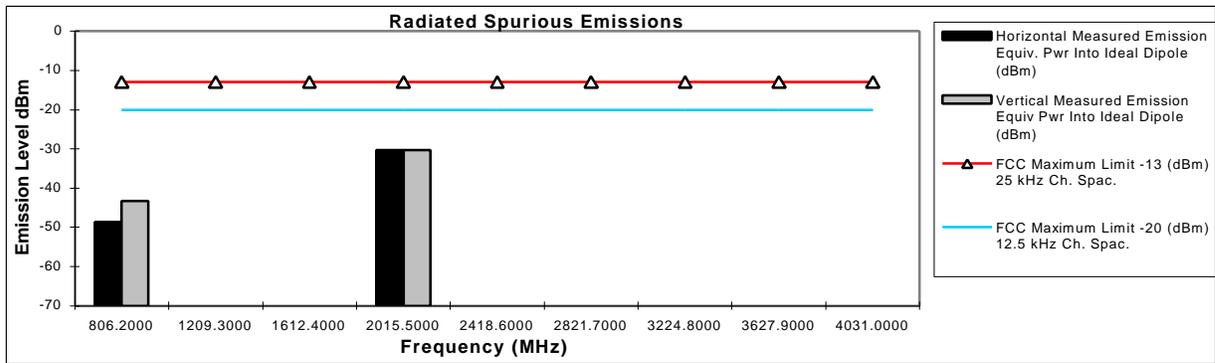


MOTOROLA INC.

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

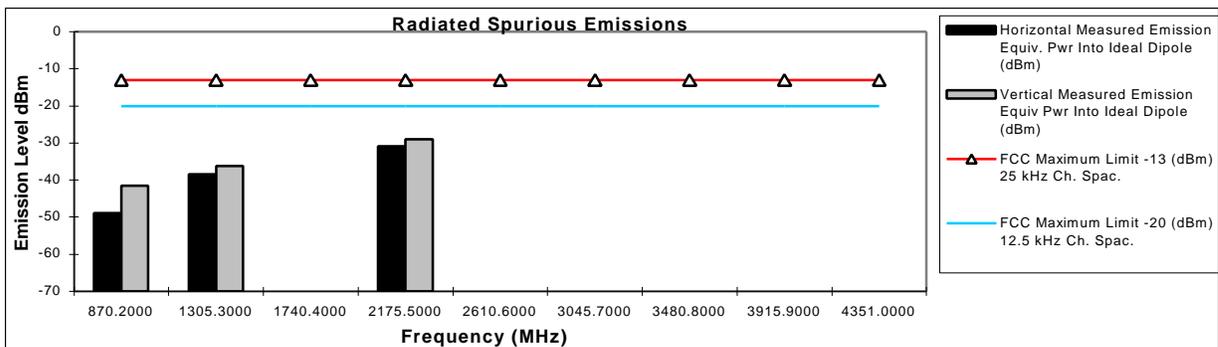
**Transmitter Radiated Spurious Emissions FCC ID: 489FT4826
Low Power 25kHz Channel Spacing
403.1 MHz**

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)
806.2000	-13	-20	-48.6	-43.3
1209.3000	-13	-20	*	*
1612.4000	-13	-20	*	*
2015.5000	-13	-20	-30.4	-30.3
2418.6000	-13	-20	*	*
2821.7000	-13	-20	*	*
3224.8000	-13	-20	*	*
3627.9000	-13	-20	*	*
4031.0000	-13	-20	*	*



**Transmitter Radiated Spurious Emissions FCC ID: 489FT4826
435.1 MHz**

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870.2000	-13	-20	-48.9	-41.5
1305.3000	-13	-20	-38.5	-36.3
1740.4000	-13	-20	*	*
2175.5000	-13	-20	-30.9	-28.9
2610.6000	-13	-20	*	*
3045.7000	-13	-20	*	*
3480.8000	-13	-20	*	*
3915.9000	-13	-20	*	*
4351.0000	-13	-20	*	*



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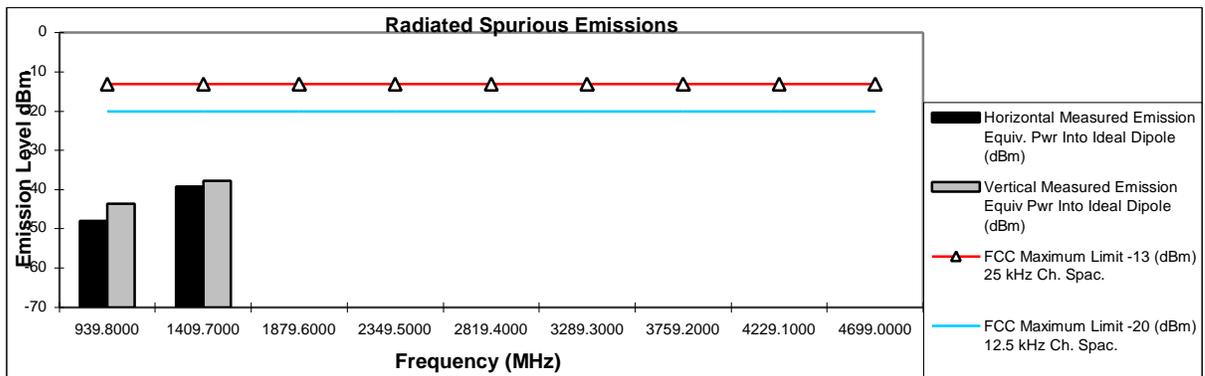
MOTOROLA INC.

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

**Transmitter Radiated Spurious Emissions FCC ID: 489FT4826
Low Power 25kHz Channel Spacing**

469.9 MHz

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)
939.8000	-13	-20	-48.0	-43.6
1409.7000	-13	-20	-39.2	-37.7
1879.6000	-13	-20	*	*
2349.5000	-13	-20	*	*
2819.4000	-13	-20	*	*
3289.3000	-13	-20	*	*
3759.2000	-13	-20	*	*
4229.1000	-13	-20	*	*
4699.0000	-13	-20	*	*



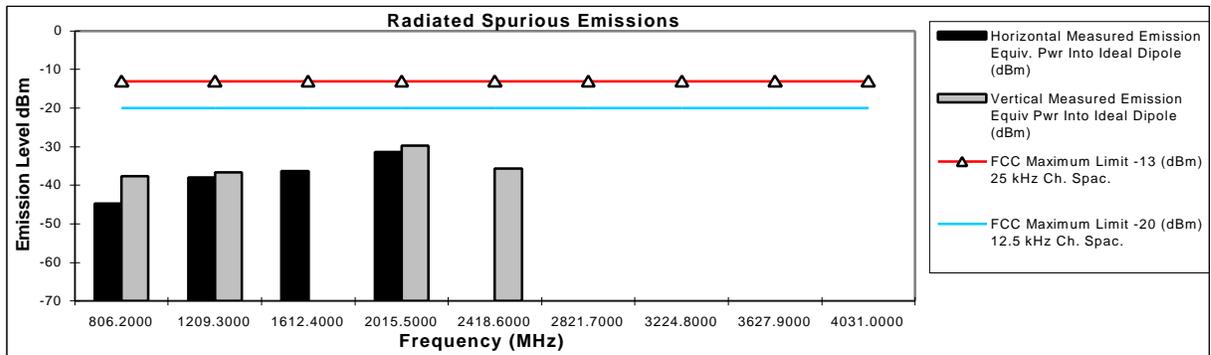
MOTOROLA INC.

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

**Transmitter Radiated Spurious Emissions FCC ID: 489FT4826
Low Power 12.5kHz Channel Spacing**

403.1 MHz

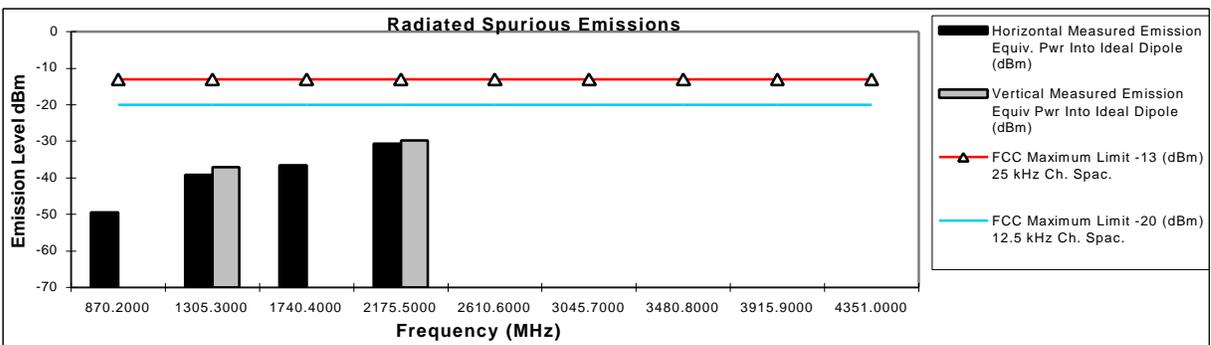
Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
806.2000	-13	-20	-44.7	-37.6
1209.3000	-13	-20	-37.9	-36.6
1612.4000	-13	-20	-36.3	*
2015.5000	-13	-20	-31.4	-29.7
2418.6000	-13	-20	*	-35.6
2821.7000	-13	-20	*	*
3224.8000	-13	-20	*	*
3627.9000	-13	-20	*	*
4031.0000	-13	-20	*	*



Transmitter Radiated Spurious Emissions FCC ID: 489FT4826

435.1 MHz

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870.2000	-13	-20	-49.4	*
1305.3000	-13	-20	-39.2	-37.1
1740.4000	-13	-20	-36.4	*
2175.5000	-13	-20	-30.6	-29.8
2610.6000	-13	-20	*	*
3045.7000	-13	-20	*	*
3480.8000	-13	-20	*	*
3915.9000	-13	-20	*	*
4351.0000	-13	-20	*	*



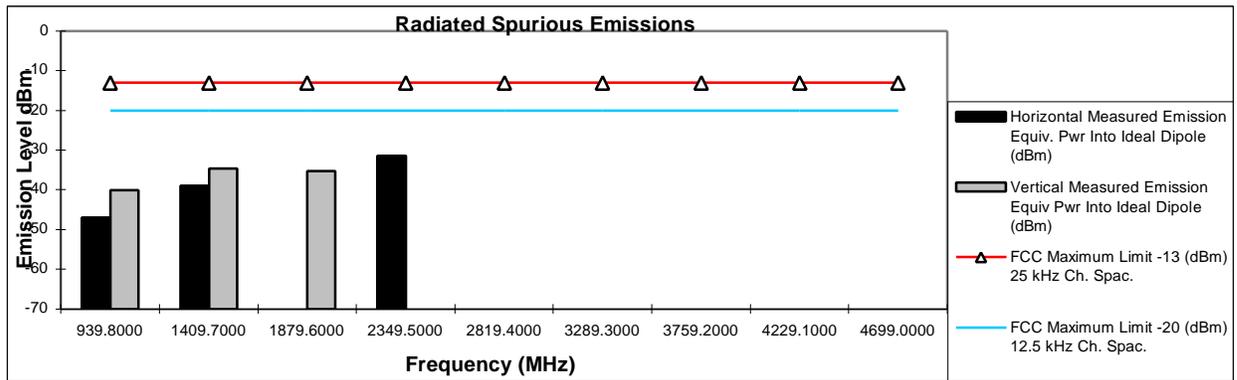
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MOTOROLA INC.

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

**Transmitter Radiated Spurious Emissions FCC ID: 489FT4826
Low Power 12.5kHz Channel Spacing
469.9 MHz**

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)
939.8000	-13	-20	-47.0	-40.2
1409.7000	-13	-20	-38.9	-34.7
1879.6000	-13	-20	*	-35.3
2349.5000	-13	-20	-31.5	*
2819.4000	-13	-20	*	*
3289.3000	-13	-20	*	*
3759.2000	-13	-20	*	*
4229.1000	-13	-20	*	*
4699.0000	-13	-20	*	*



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MOTOROLA INC.

TRANSIENT FREQUENCY BEHAVIOR

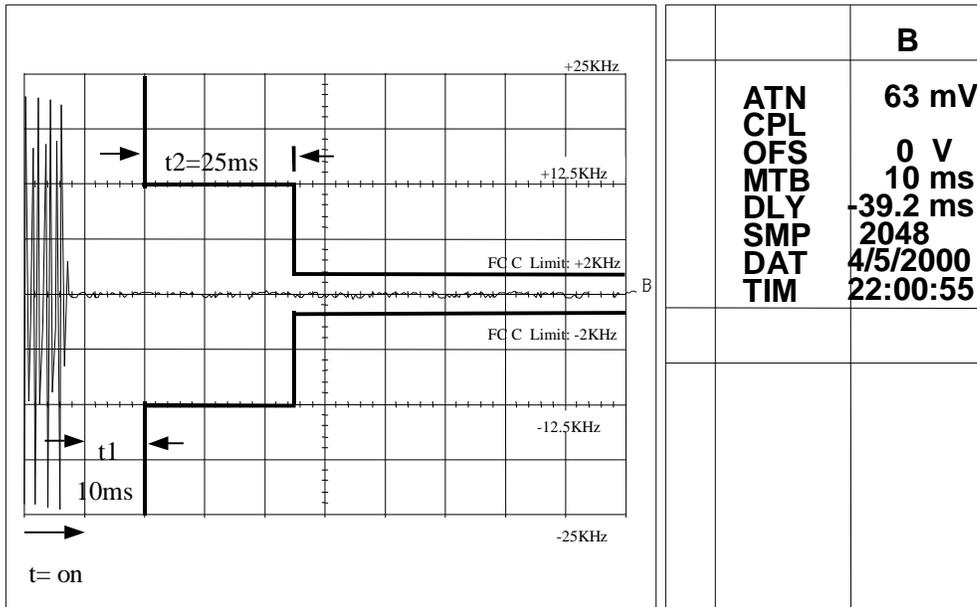
Xmtr Type : AZ489FT4826

Log Page : ---

Date : 9th May 2000

Signature : SF Ooi

Power : 1 & 4W at 436.985 MHz.
 Channel Spacing : 25 kHz.
 Switch - On Condition



MOTOROLA INC.

TRANSIENT FREQUENCY BEHAVIOR

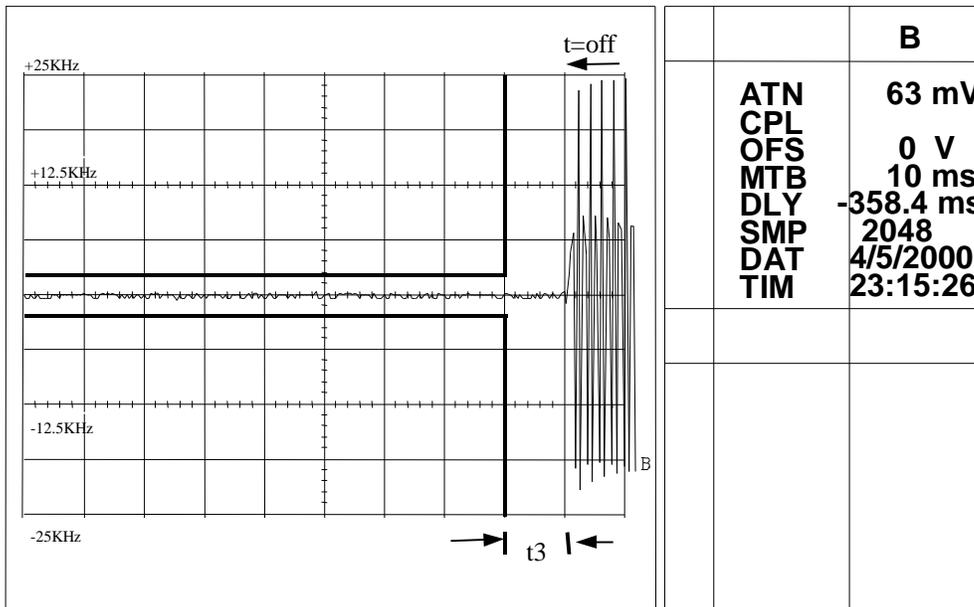
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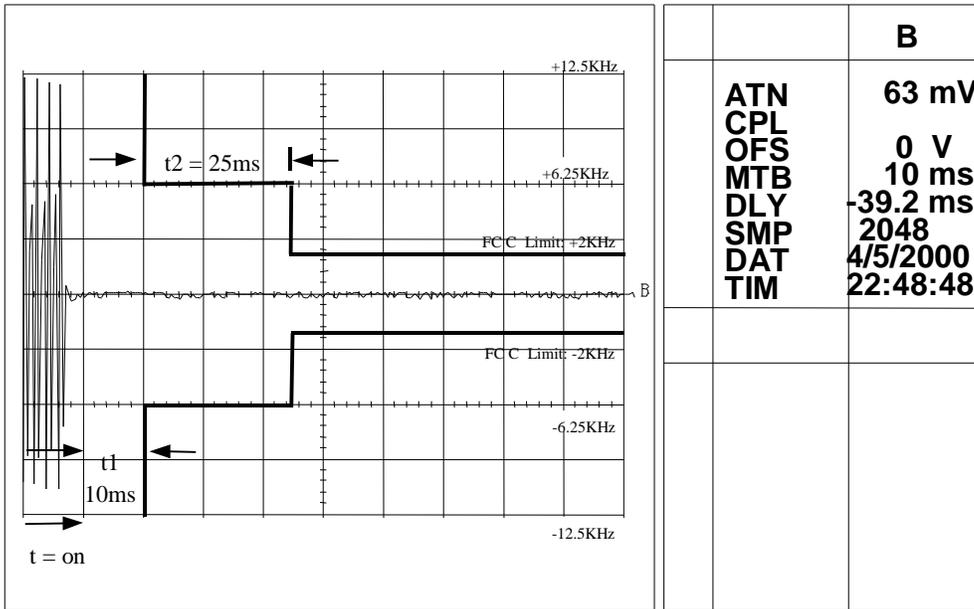
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