

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

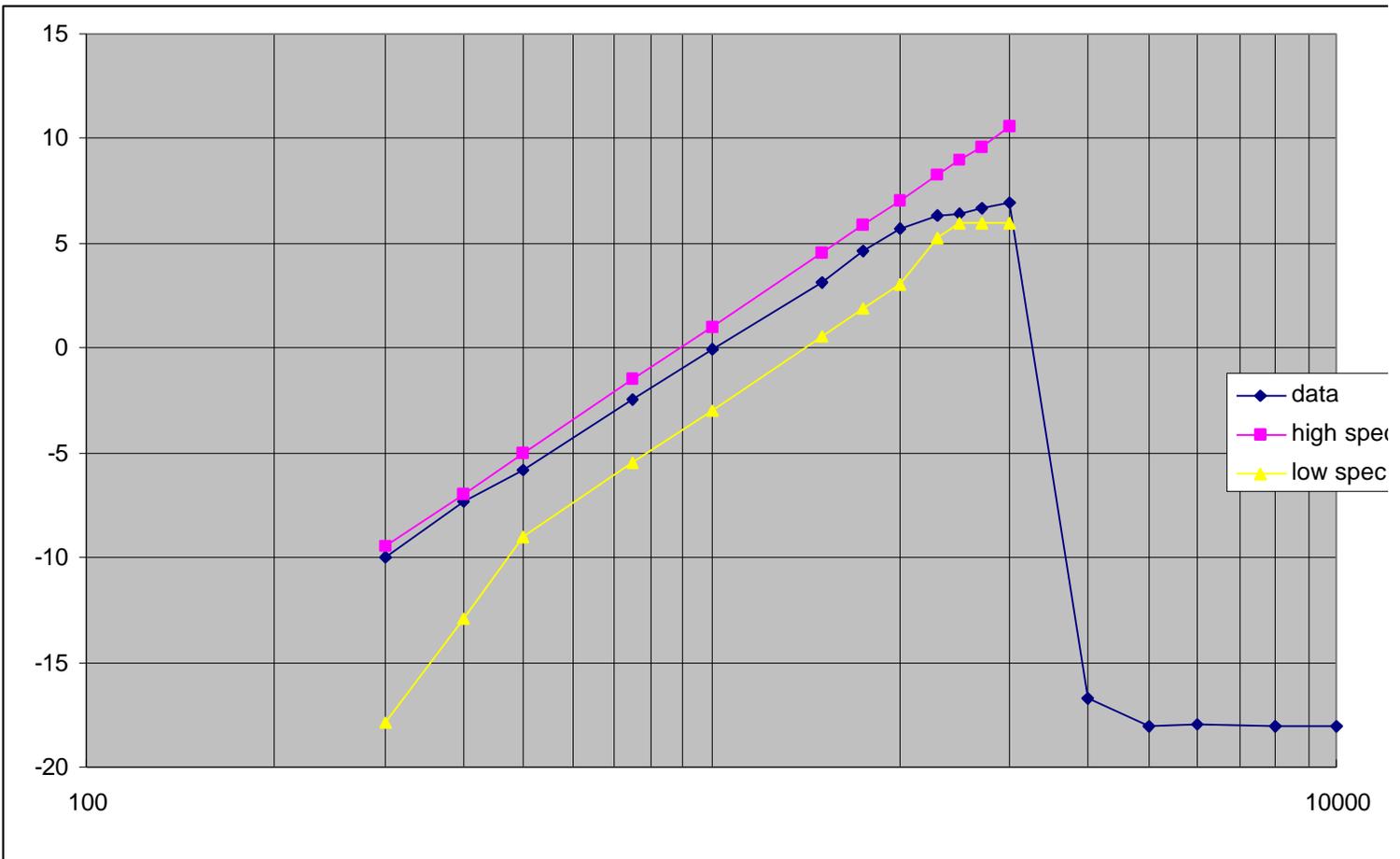
| | | |
|------------------------|------|-------|
| Measured RF output | .580 | Watt |
| Normal DC Voltage | 4.20 | Volts |
| Normal DC Current | 650 | ma |
| Primary Supply Voltage | 4.50 | Volts |

RF output measured at 4.5v

EXHIBIT: 6A

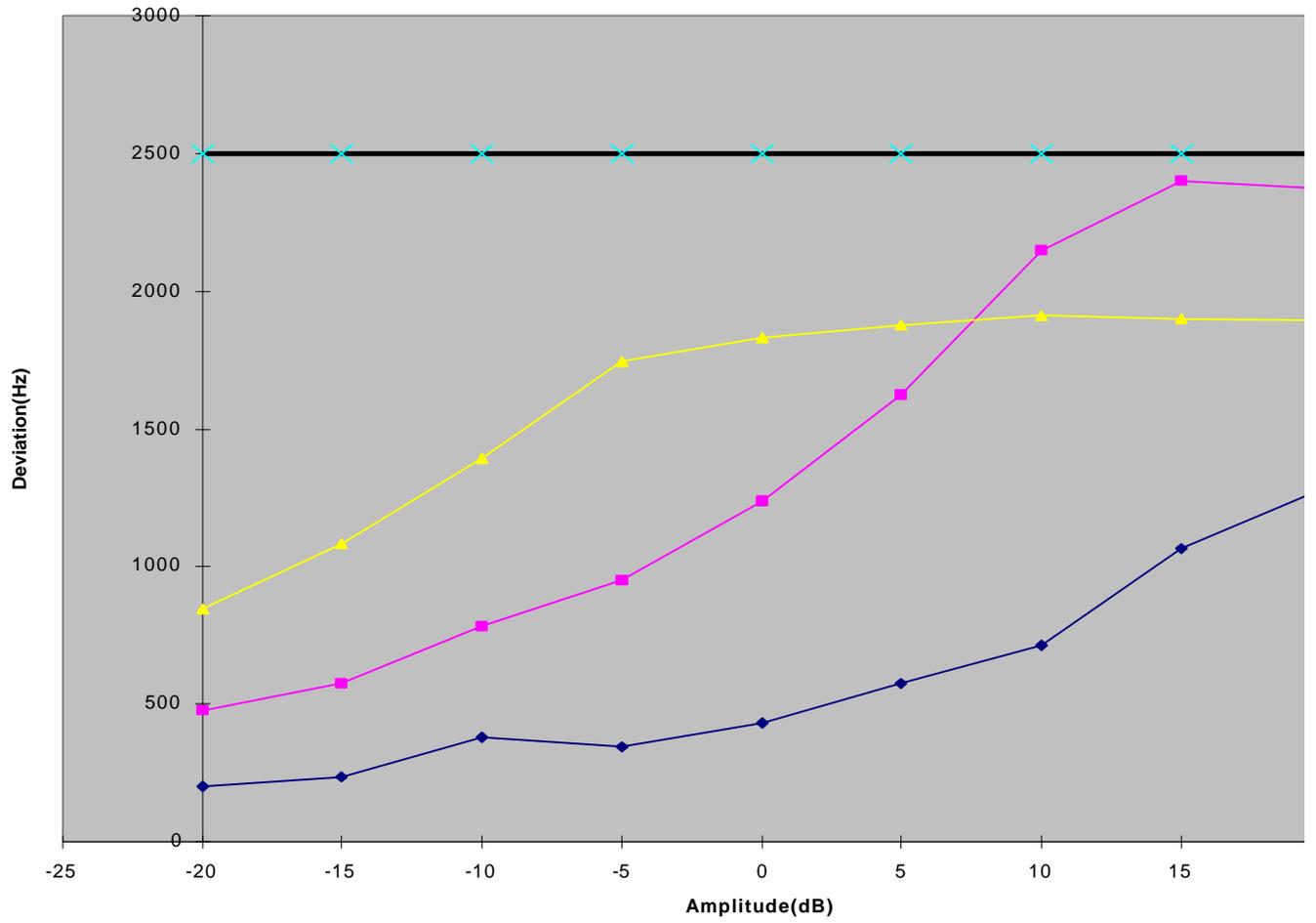
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AUDIO RESPONSE



EXH

Modlimiting Vs. Amplitude



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OCCUPIED BANDWIDTH DATA

12.5 kHz Channel Spacing

EXHIBIT 6E-1

2500 Hz Audio Modulation
Emission Type: 11K0F3E
Horizontal: 5 kHz/Div.
Vertical: 10 dB/Div.
Carrier Ref: 0 dB
Specification Mask D, 90.210

EXHIBIT 6E-2

2500 Hz & 77 Hz Tone "PL" Modulation
Emission Type: 11K0F3E
Horizontal: 5 kHz/Div.
Vertical: 10 dB/Div.
Carrier Ref: 0 dB
Specification Mask D, 90.210

CARSON'S RULE

11K0F3E:

$$BW = 2(M + D)$$

$$BW = 2 (3 \text{ kHz maximum modulation frequency} + 2.5 \text{ kHz deviation})$$

$$BW = 2 (5.5)$$

$$BW = 11 \text{ kHz}$$

16K0F3E:

$$BW=2(3+5)=16 \text{ kHz}$$

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11:49:15 APR 13, 2000

REF 23.0 dBm

AT 40 dB

MKR Δ -12.5 KHz
-66.31 dB

PEAK
LOG
10
dB/

MARKER Δ
-12.5 KHz
-66.31 dB

WA SB
SC FC
CORR

CENTER 462.6851 MHz
#RES BW 100 Hz

#VBW 3 KHz

SPAN 128.7 KHz
#SWP 100 sec



12:08:03 APR 13, 2000

hp

REF 21.0 dBm

AT 40 dB

MKR Δ 12.5 kHz

-67.55 dB

PEAK
LOG
10
dB/

MARKER Δ
12.5 kHz
-67.55 dB

WA SB
SC FC
CORR

CENTER 462.6851 MHz

#RES BW 100 Hz

#VBW 3 kHz

SPAN 128.7 kHz

#SWP 100

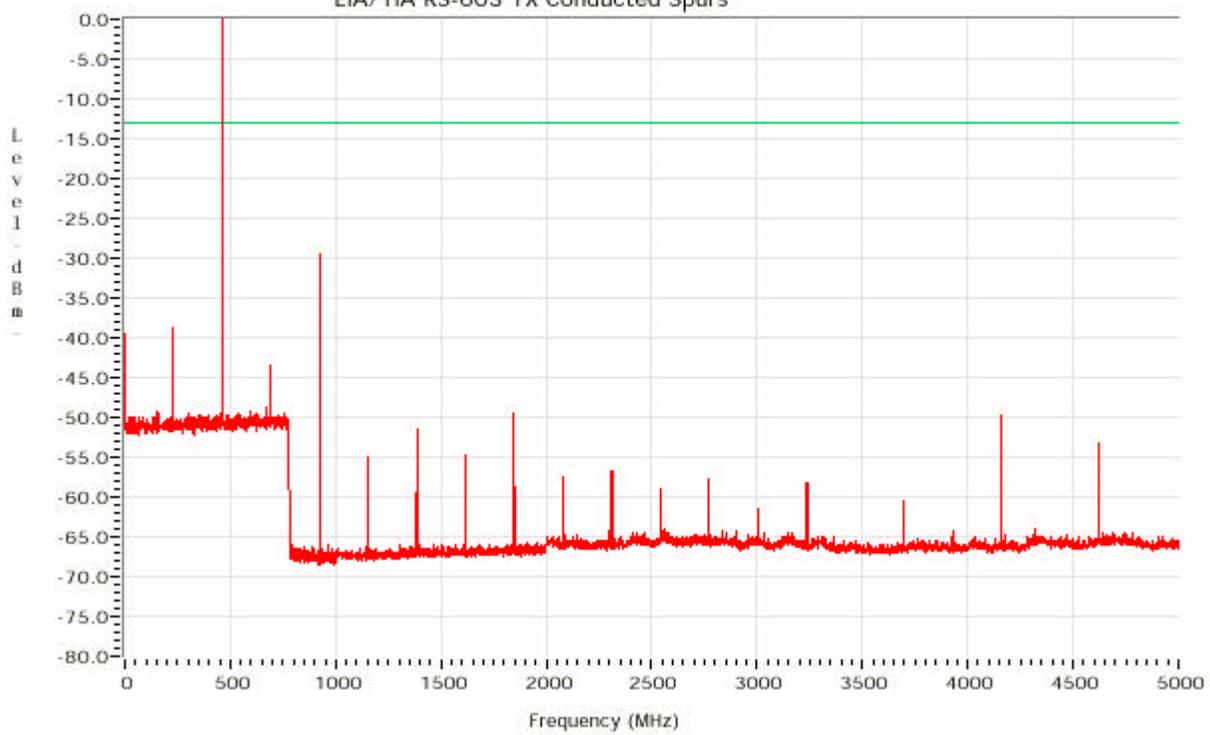
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Data 
Spec 

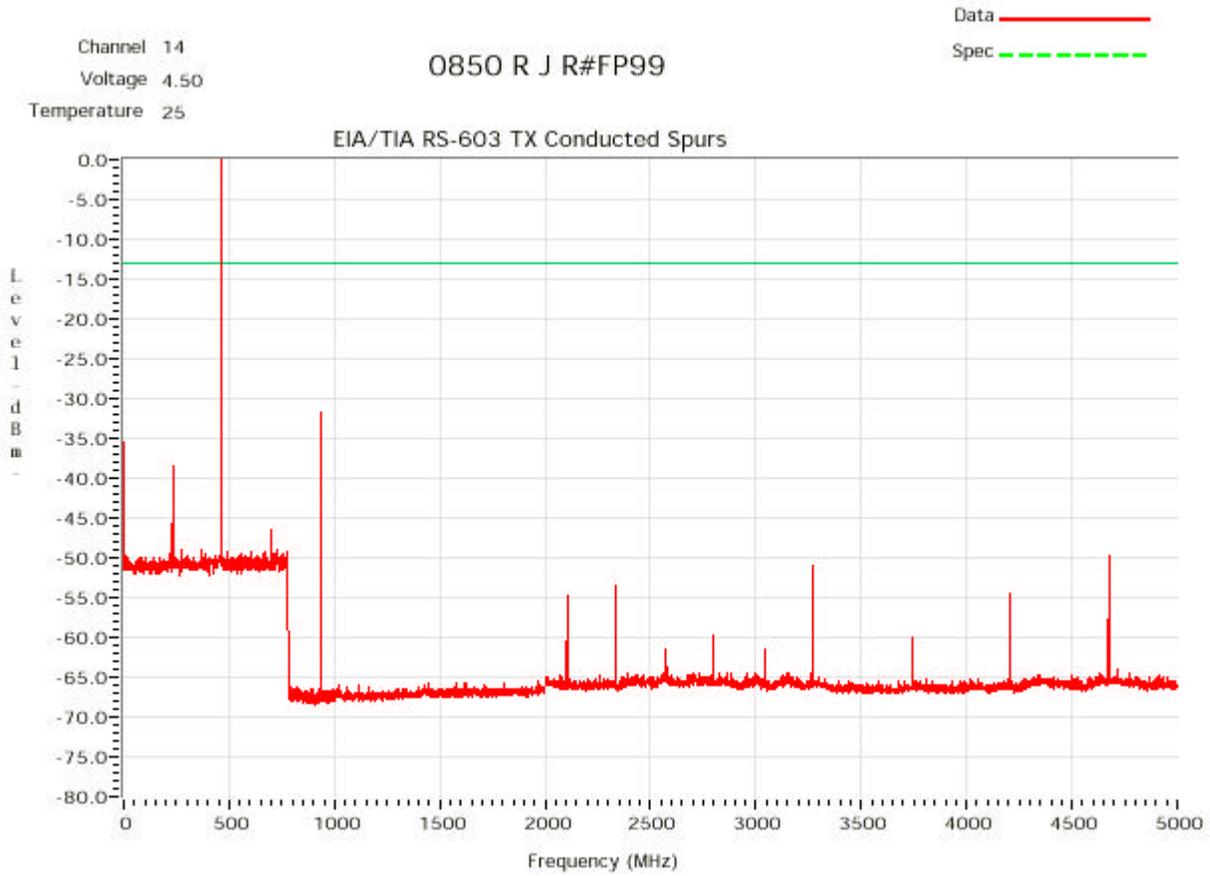
Channel 1
Voltage 4.50
Temperature 25

0850 R J R#FP99

EIA/TIA RS-603 TX Conducted Spurs



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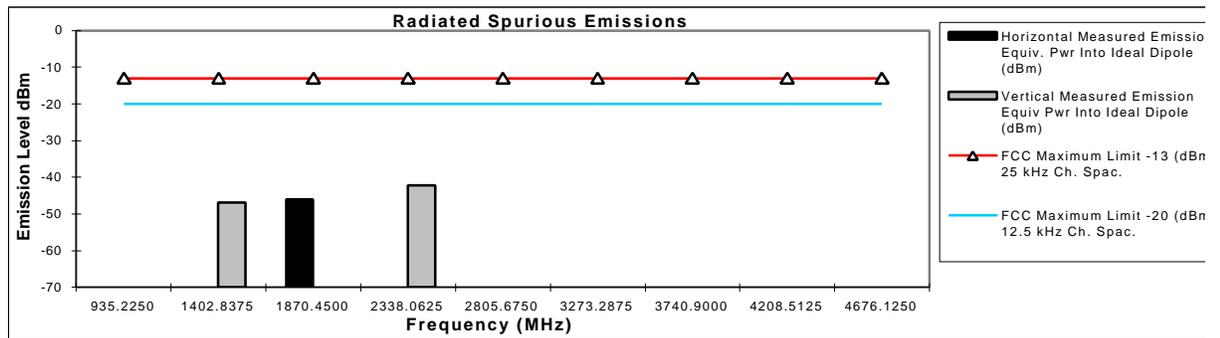
MOTOROLA

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Transmitter Radiated Spurious Emissions: FP99

467.6125 MHz - 0.5 W - 12.5 kHz CH. Spacing

| 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 In Ideal Dipole (dBm) |
|-----------------|--|--|---|--|
| 935.2250 | -13 | -20 | * | * |
| 1402.8375 | -13 | -20 | * | -46.9 |
| 1870.4500 | -13 | -20 | -46.1 | * |
| 2338.0625 | -13 | -20 | * | -42.3 |
| 2805.6750 | -13 | -20 | * | * |
| 3273.2875 | -13 | -20 | * | * |
| 3740.9000 | -13 | -20 | * | * |
| 4208.5125 | -13 | -20 | * | * |
| 4676.1250 | -13 | -20 | * | * |



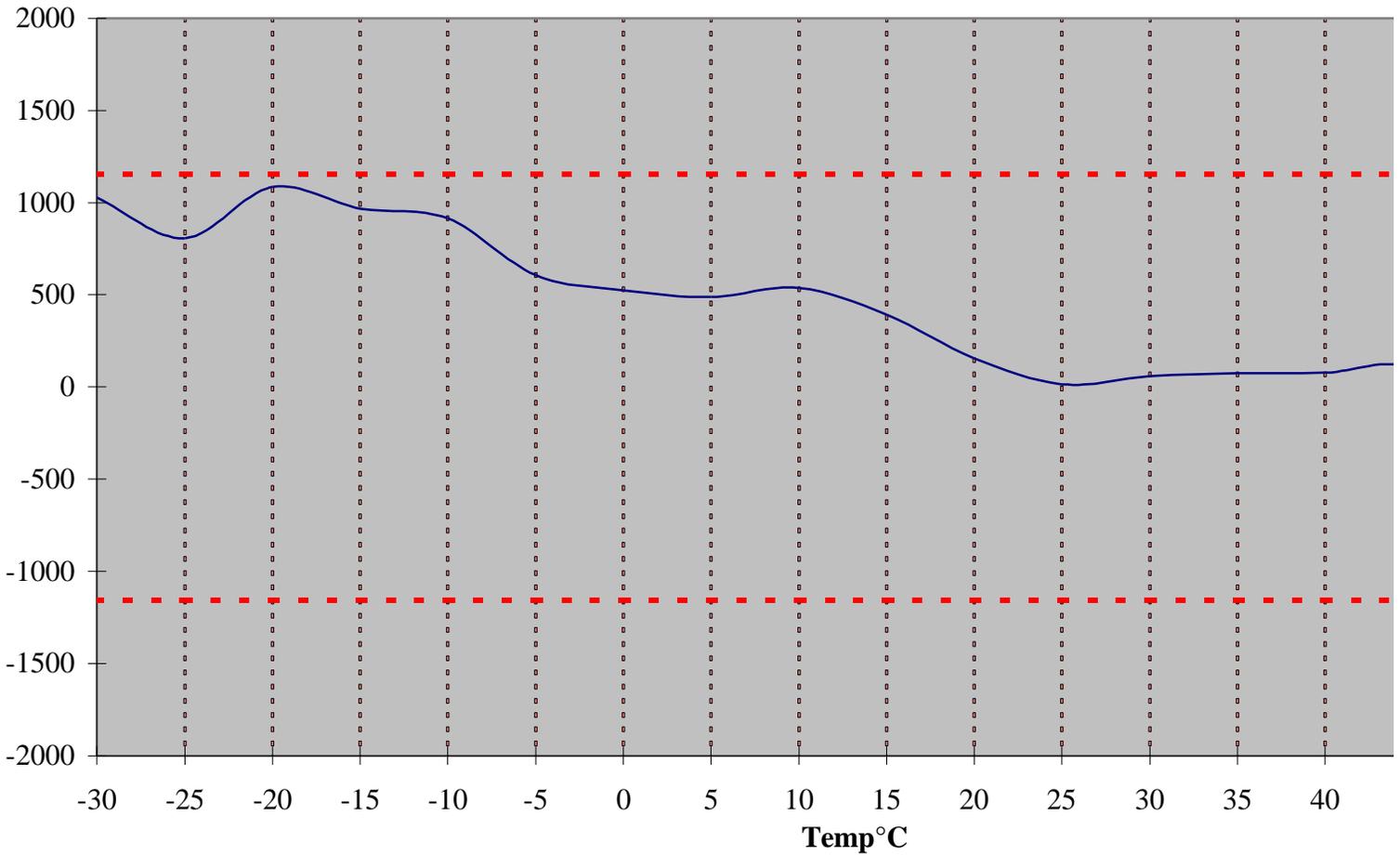
* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.



MOTOROLA

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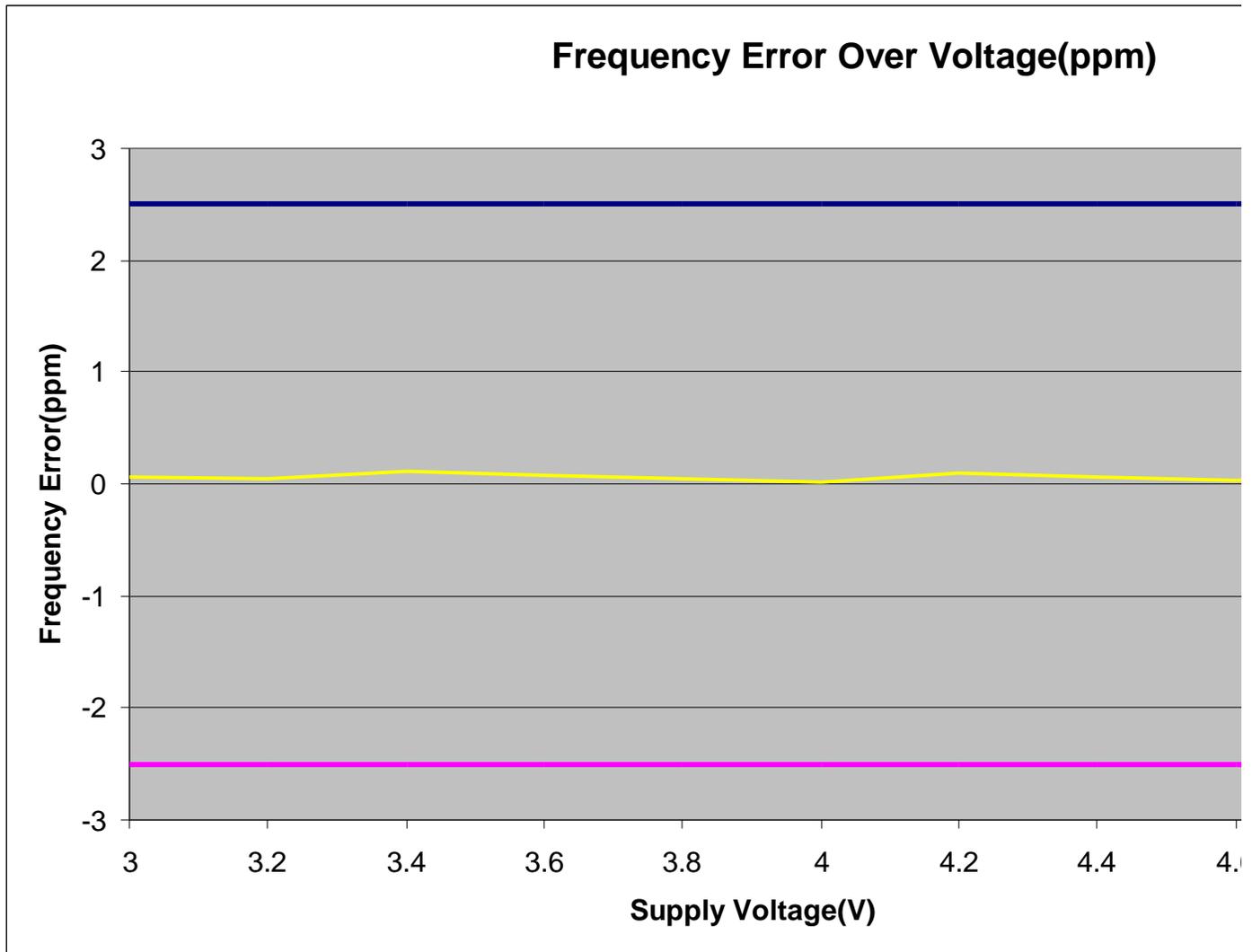
Frequency Stability over Temperature





MOTOROLA

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Radio resets at 2.75v