

**TEST REPORT**

|      | <u>MEASUREMENT</u>                                                    | <u>EXHIBIT</u> | <u>NUMBER OF PAGES</u> |
|------|-----------------------------------------------------------------------|----------------|------------------------|
| I    | RF Power Output                                                       | 6A             | 1                      |
| II   | Audio Response                                                        | 6B             | 1                      |
| III  | Modulation Limiting<br>A. 12.5 kHz channel spacing case               | 6C             | 1                      |
| IV   | Occupied Bandwidth                                                    | 6D 1-2         | 4                      |
| V    | Conducted Spurious Emissions                                          | 6E 1-2         | 2                      |
| VI   | Radiated Spurious Emissions<br>A. Tx Vertical -<br>B. Tx Horizontal - | 6F<br>6F       | 2                      |
| VIII | Frequency Stability                                                   |                |                        |
|      | A. Temperature                                                        | 6G-1           | 1                      |
|      | B. Supply Voltage                                                     | 6G-2           | 1                      |

**RF POWER OUTPUT DATA**

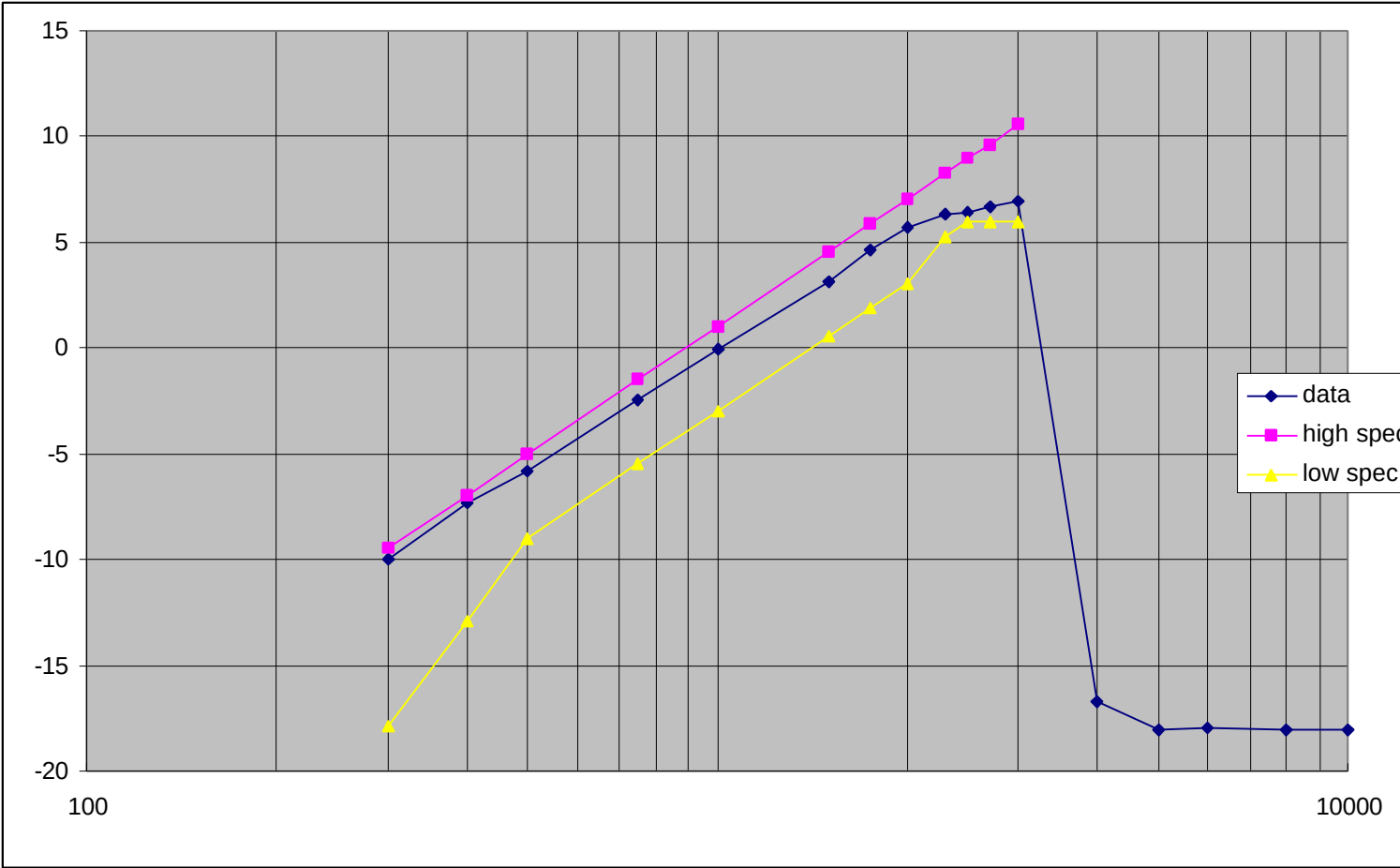
The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying

|                        |      |       |
|------------------------|------|-------|
| 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

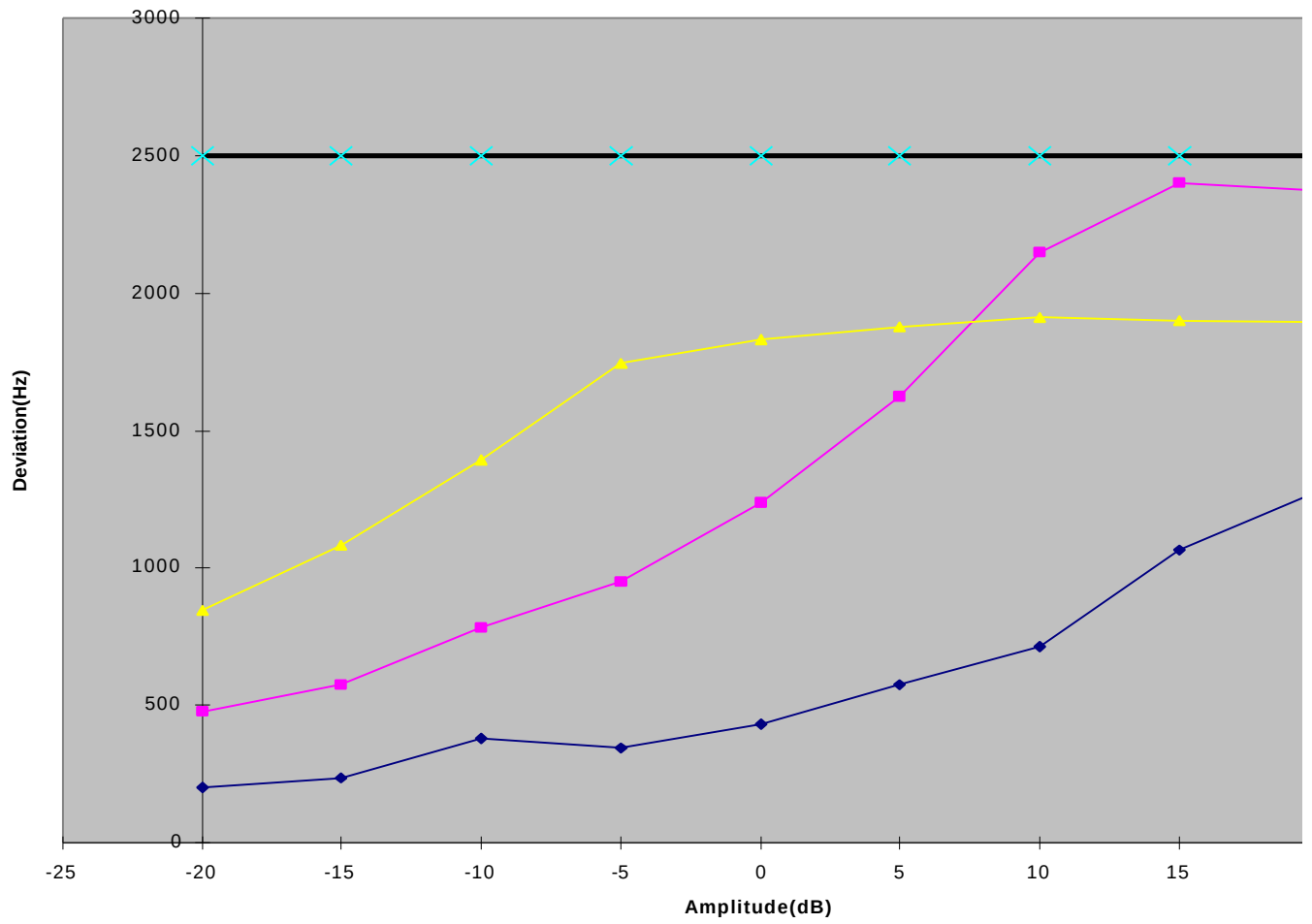
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AUDIO RESPONSE



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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FCC ID AZ489FT

11:49:15 APR 13, 2000

170

REF 23.0 dBm

AT 40 dB

MKR  $\Delta$  -12.5 KHz  
-66.31 dB

PEAK  
LOG  
10  
dB/

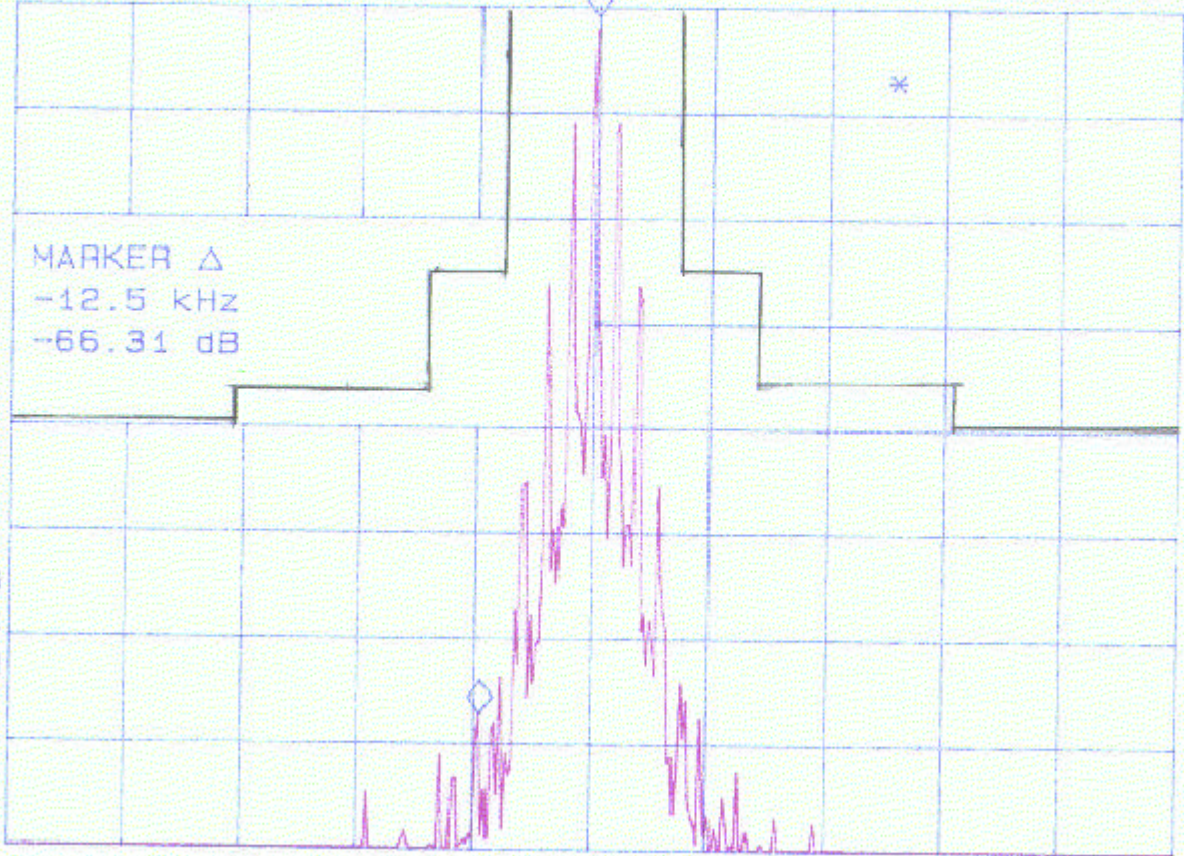
MARKER  $\Delta$   
-12.5 KHz  
-66.31 dB

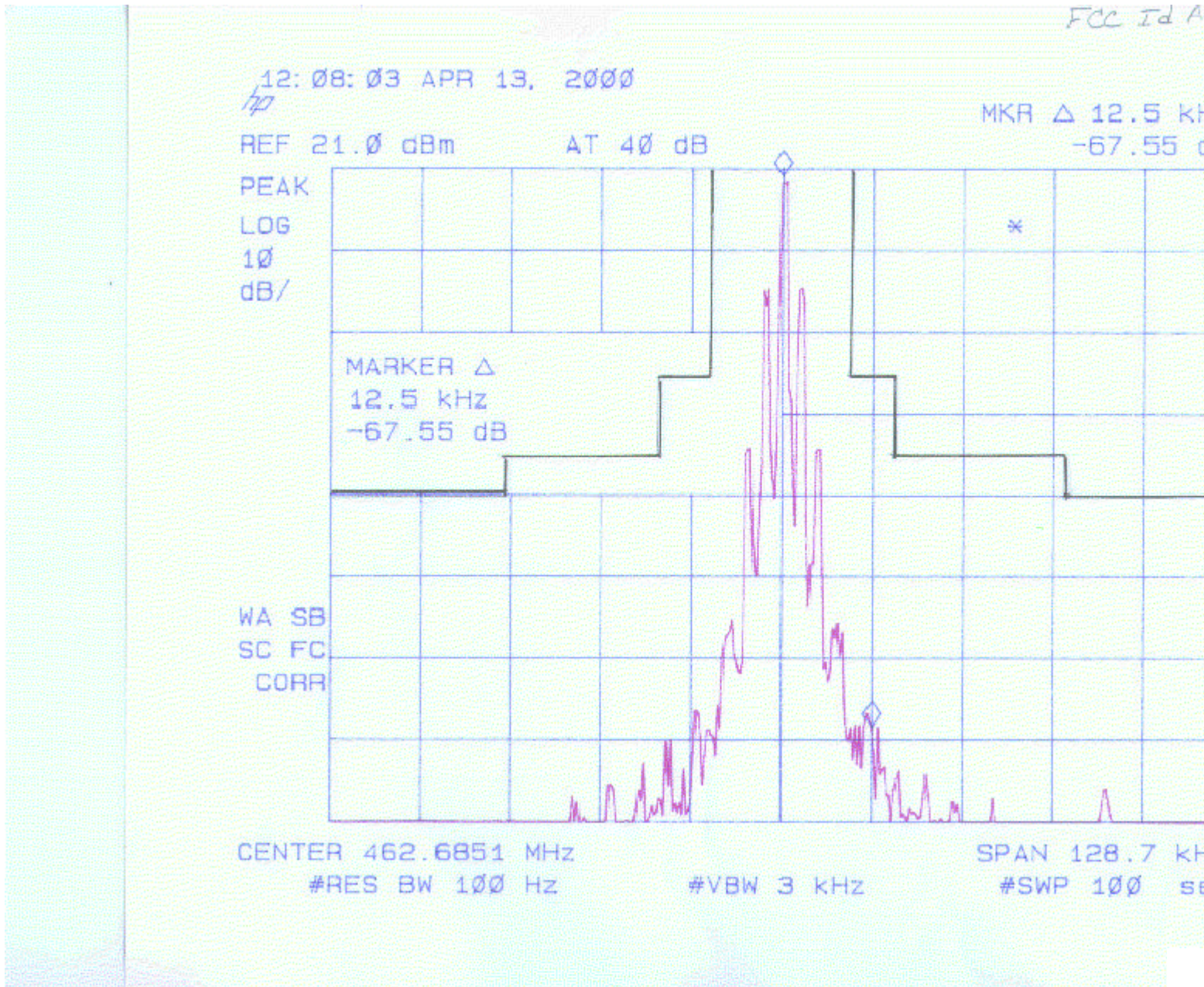
WA SB  
SC FC  
CORR

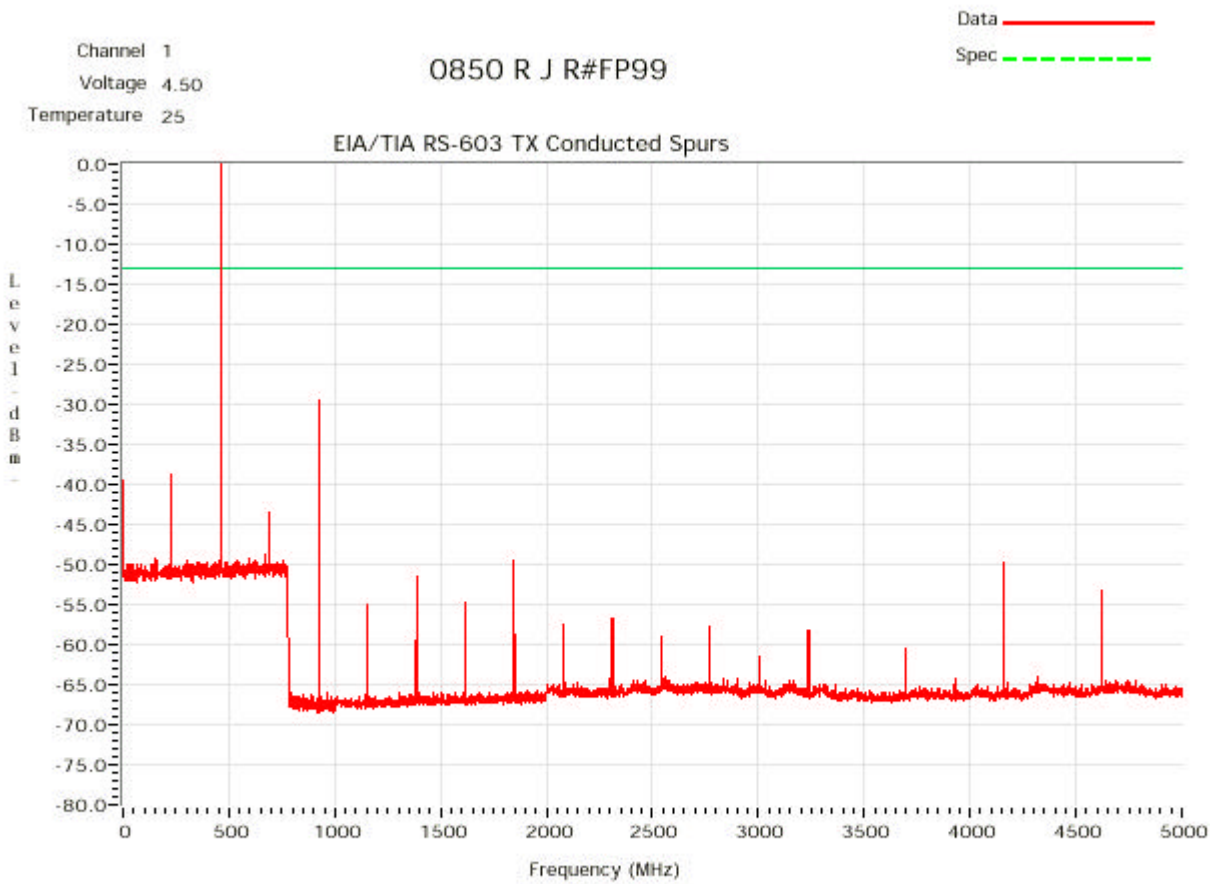
CENTER 462.6851 MHz  
#RES BW 100 Hz

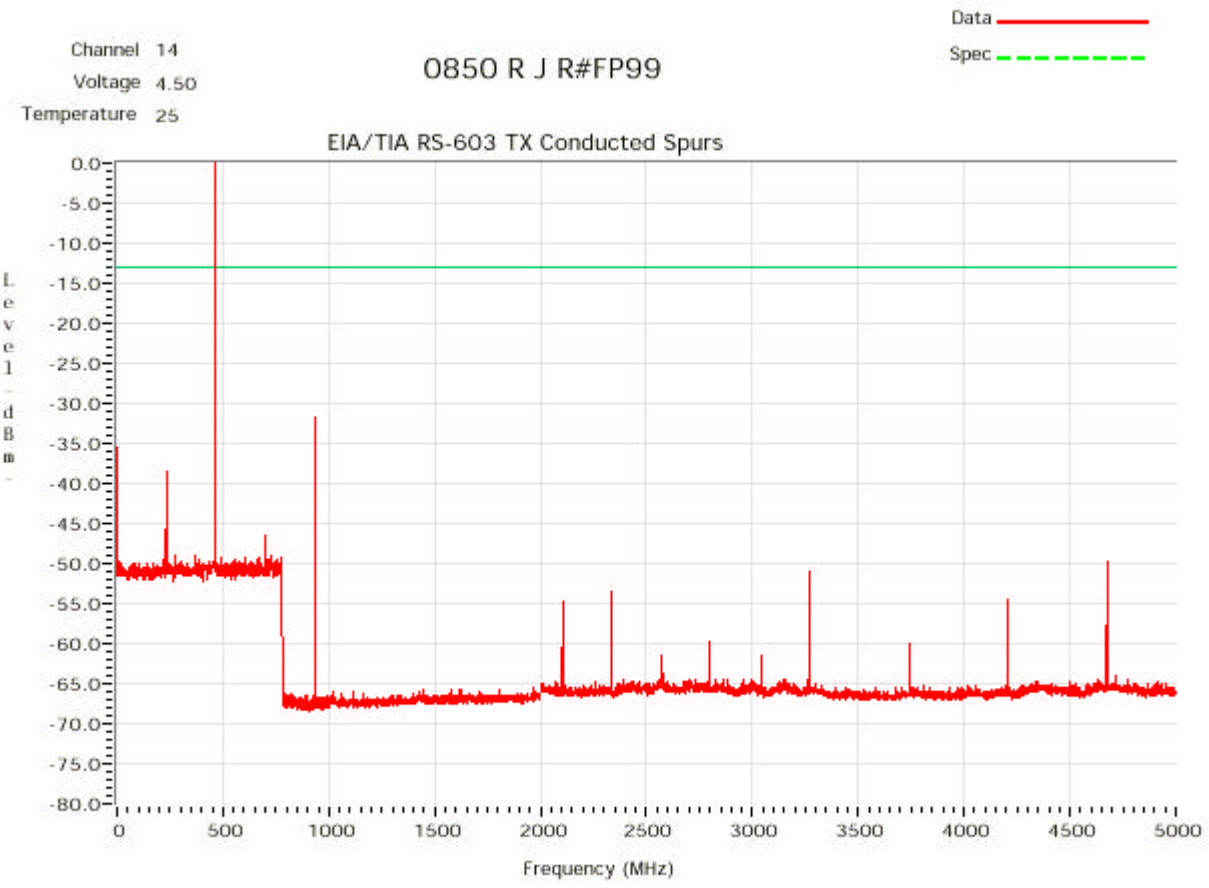
#VBW 3 KHz

SPAN 128.7 KHz  
#SWP 100 sec











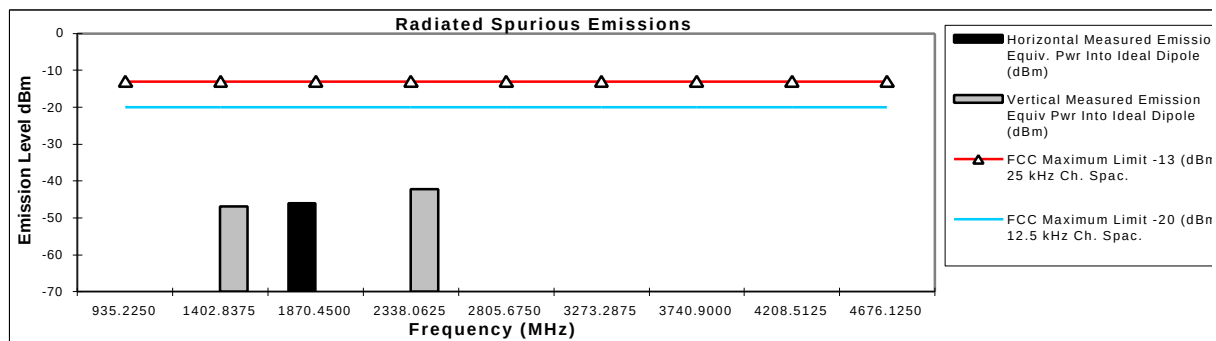
**MOTOROLA**

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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                                            | *                                                               | *                                                          |



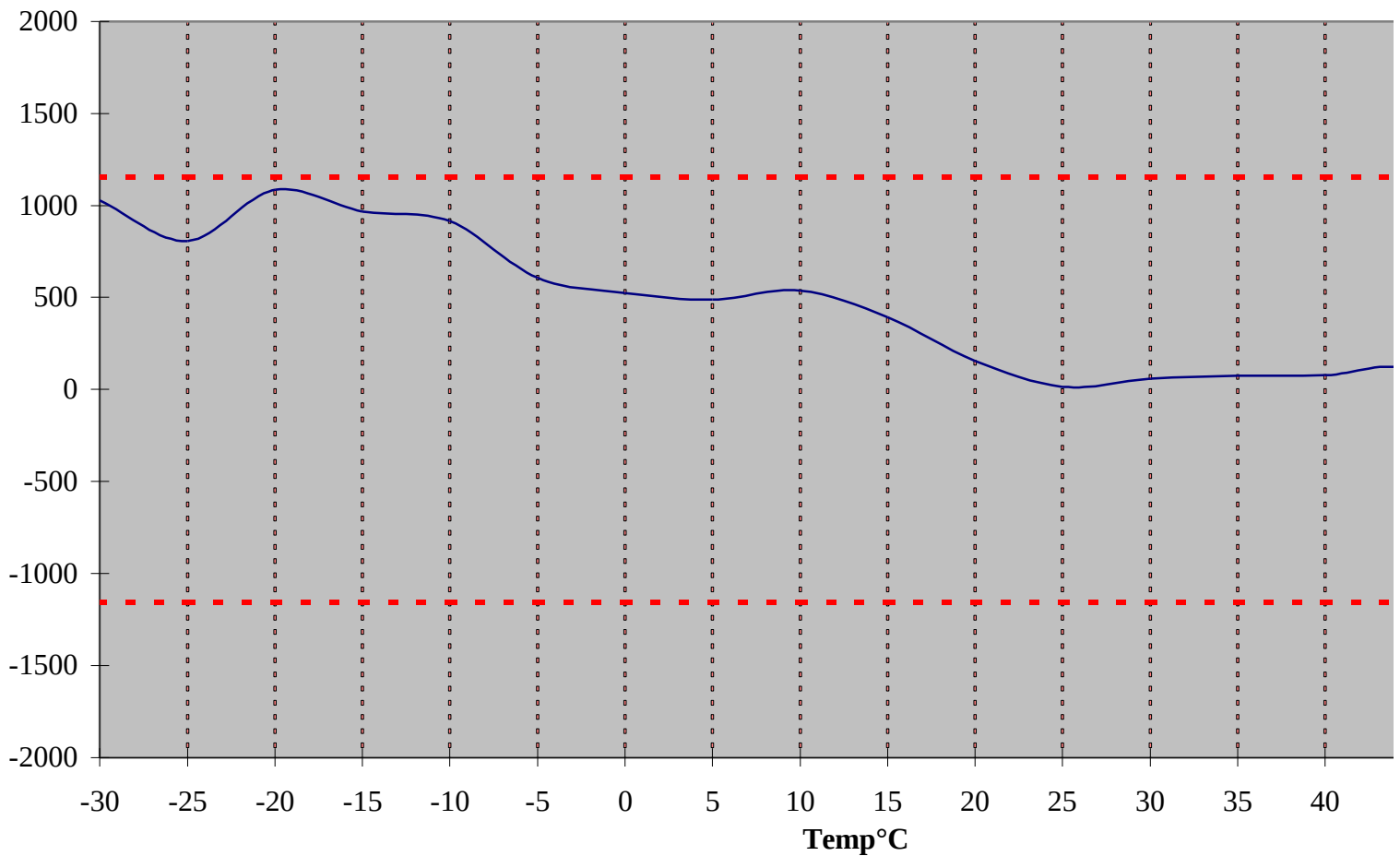
\* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.



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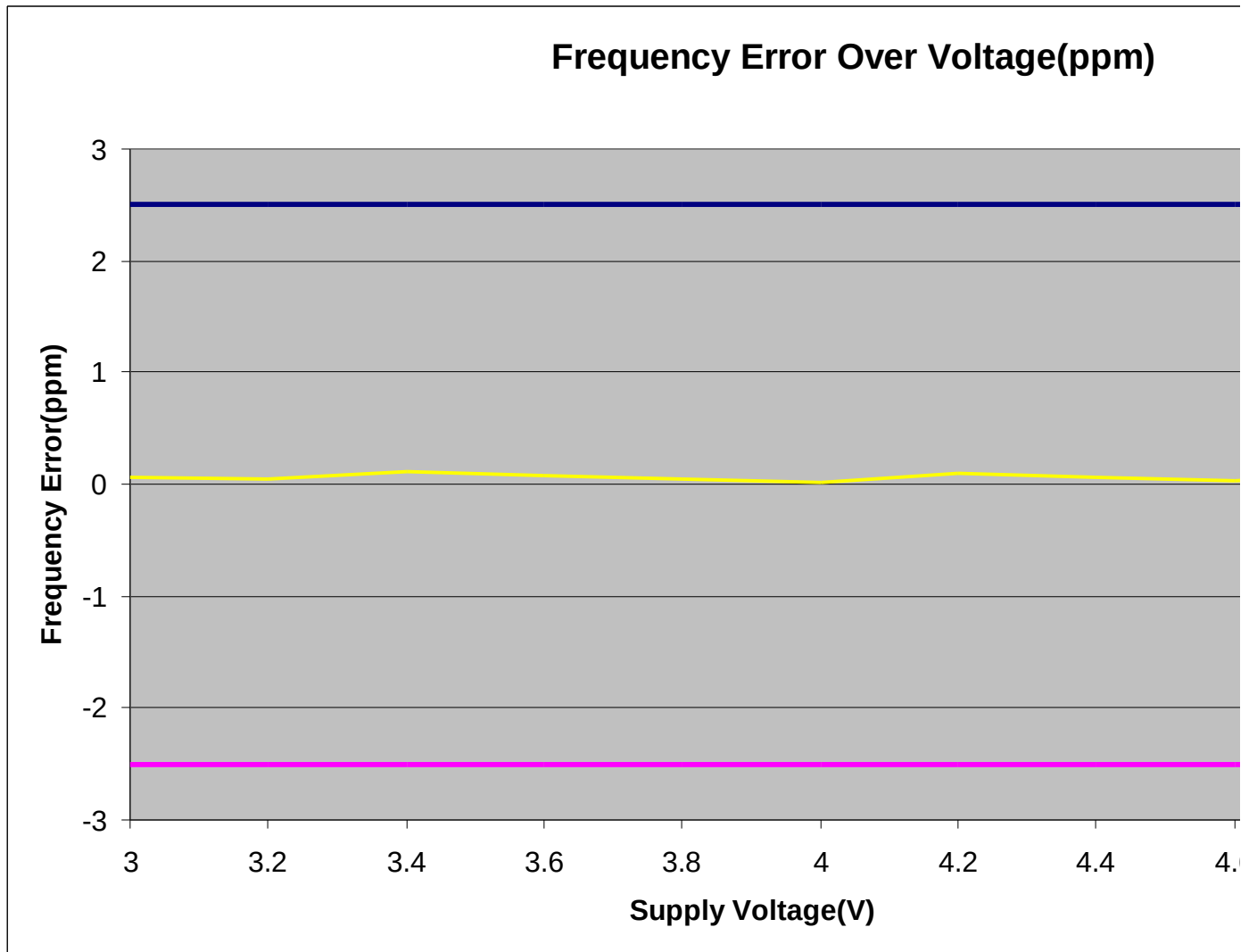
## Frequency Stability over Temperature





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**Radio resets at 2.75v**