Applicant: Motorola Inc
FCC ID: AZ489FT4833

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

1 Watt

Measured RF output	1.06	Watts
Normal DC Voltage	3.60	Volts
Normal DC Current	550	mA
Primary Supply Voltage	3.60	Volts

EXHIBIT: 6A

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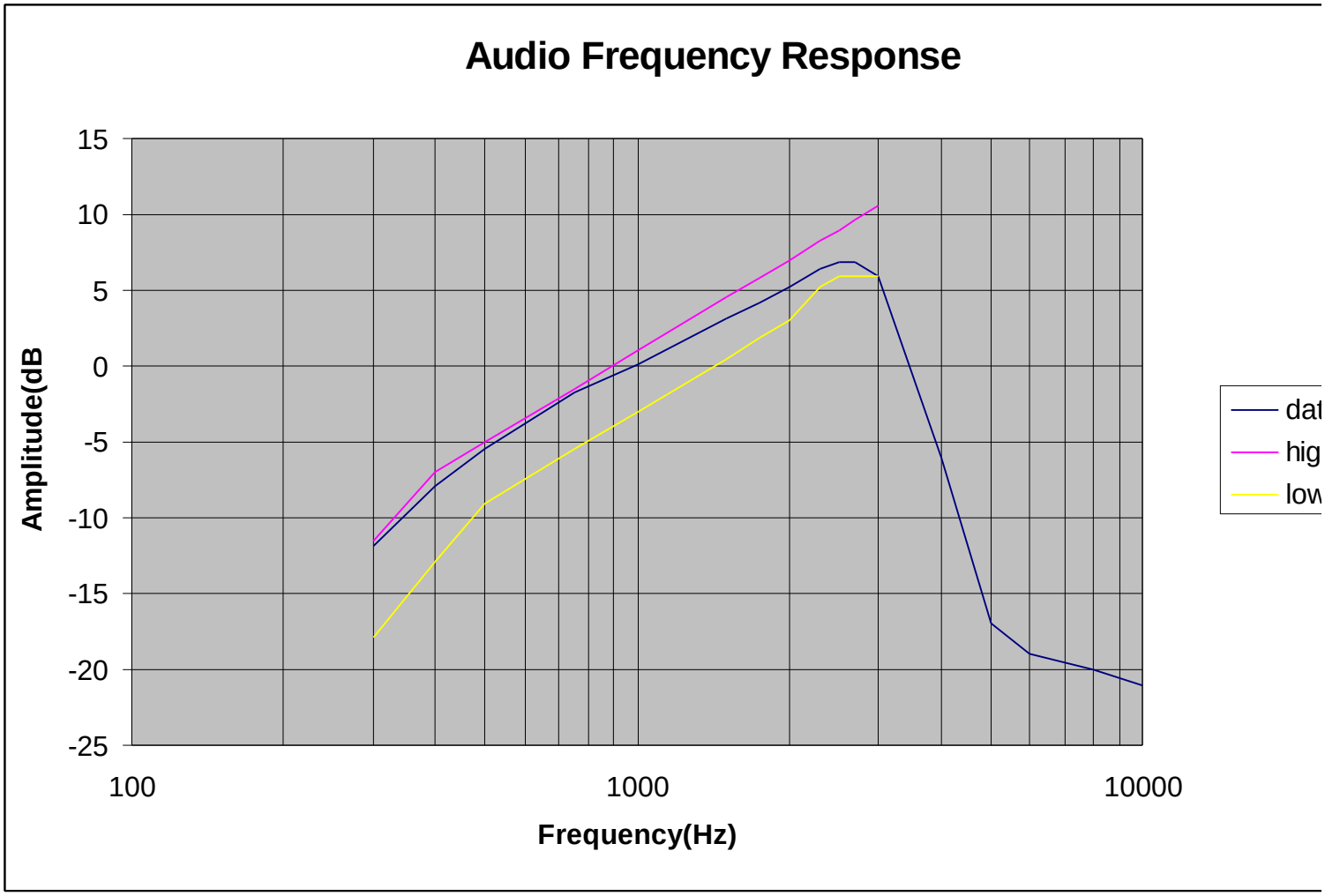
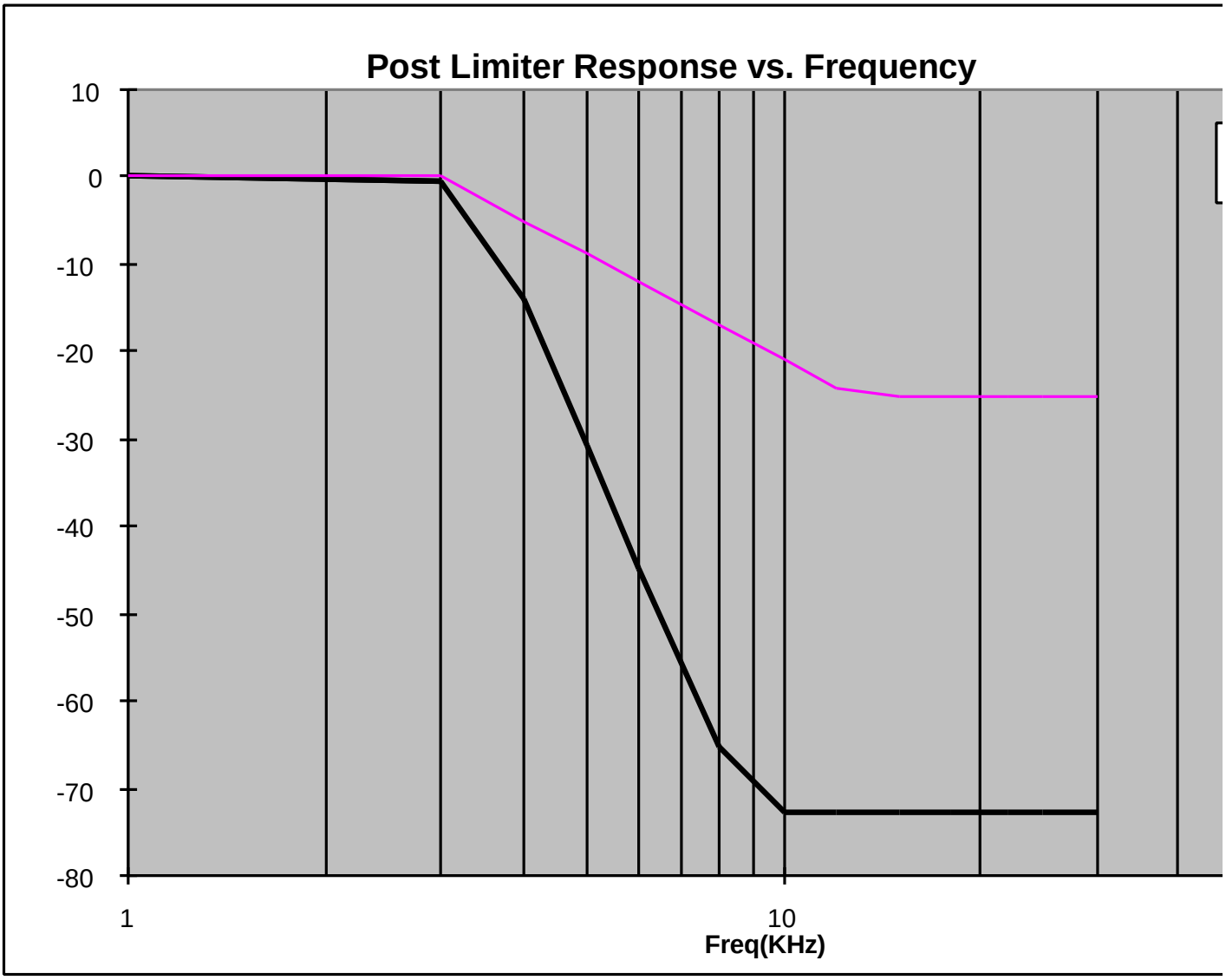
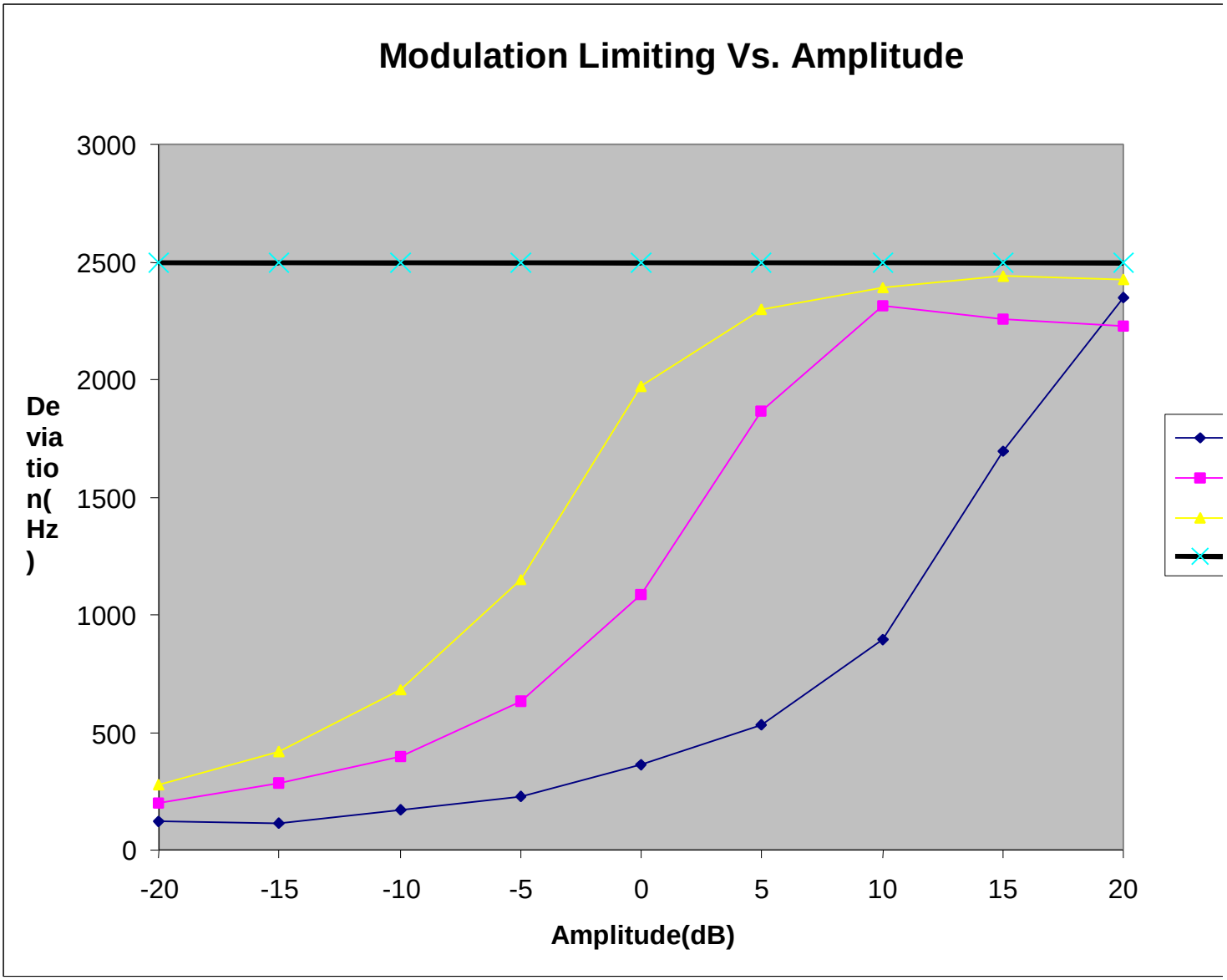

Audio Frequency Response
15
10
5
0
-5
-10
-15
-20
-25
Amplitude(dB
100
1000
10000
Frequency(Hz)
dat
hig
low



From 10 kHz to 30 kHz was in the noise floor of instrument.


Modulation Limiting Vs. Amplitude
Deviation(Hz)
3000
2500
2000
1500
1000
500
0
-20
-15
-10
-5
0
5
10
15
20
Amplitude(dB)

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 kHz maximum modulation frequency + 2.5 kHz deviation)

BW = 2 (5.5)

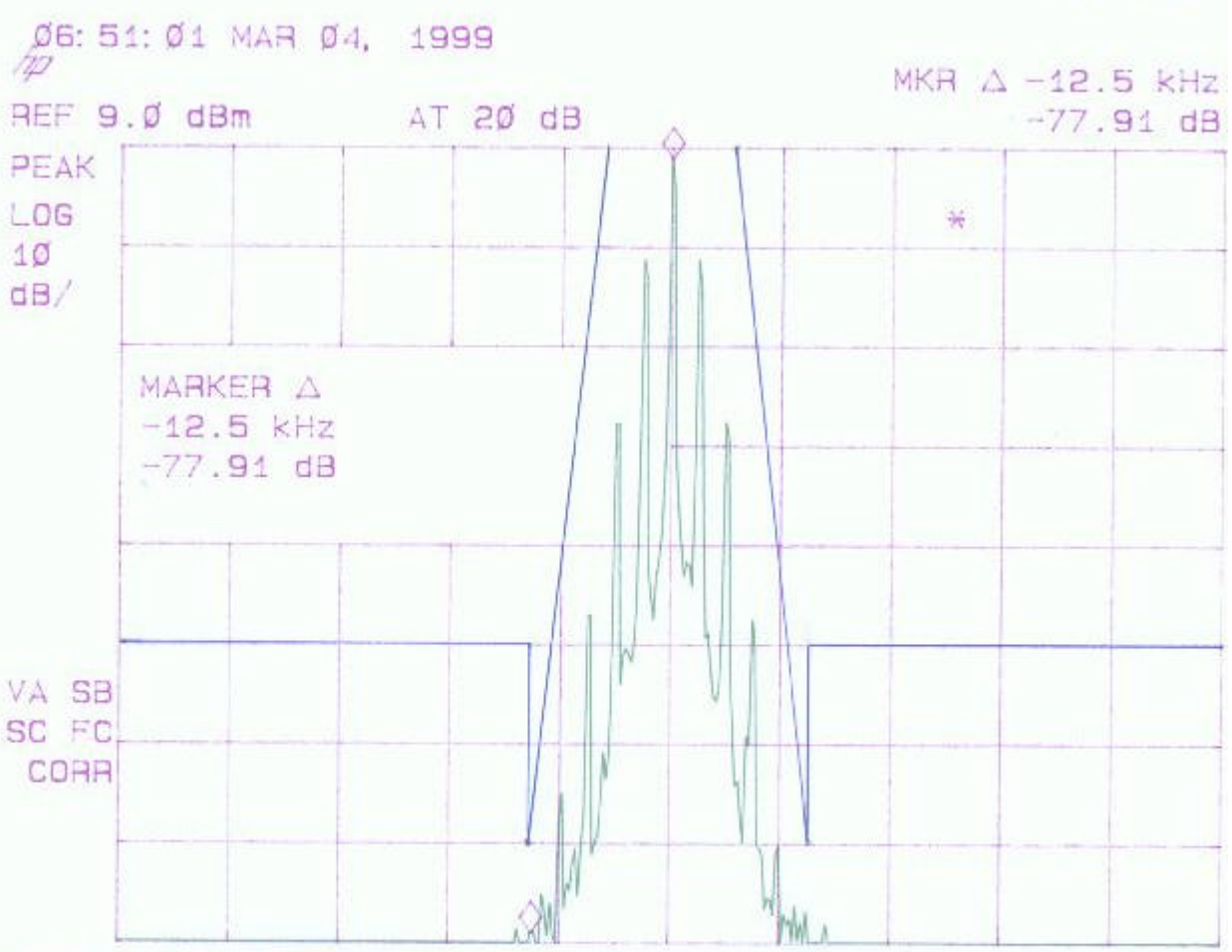
BW = 11 kHz

16K0F3E:

BW=2(3+5)=16 kHz

EXHIB

FCC ID: AZ



EXN10

FCC-15.247

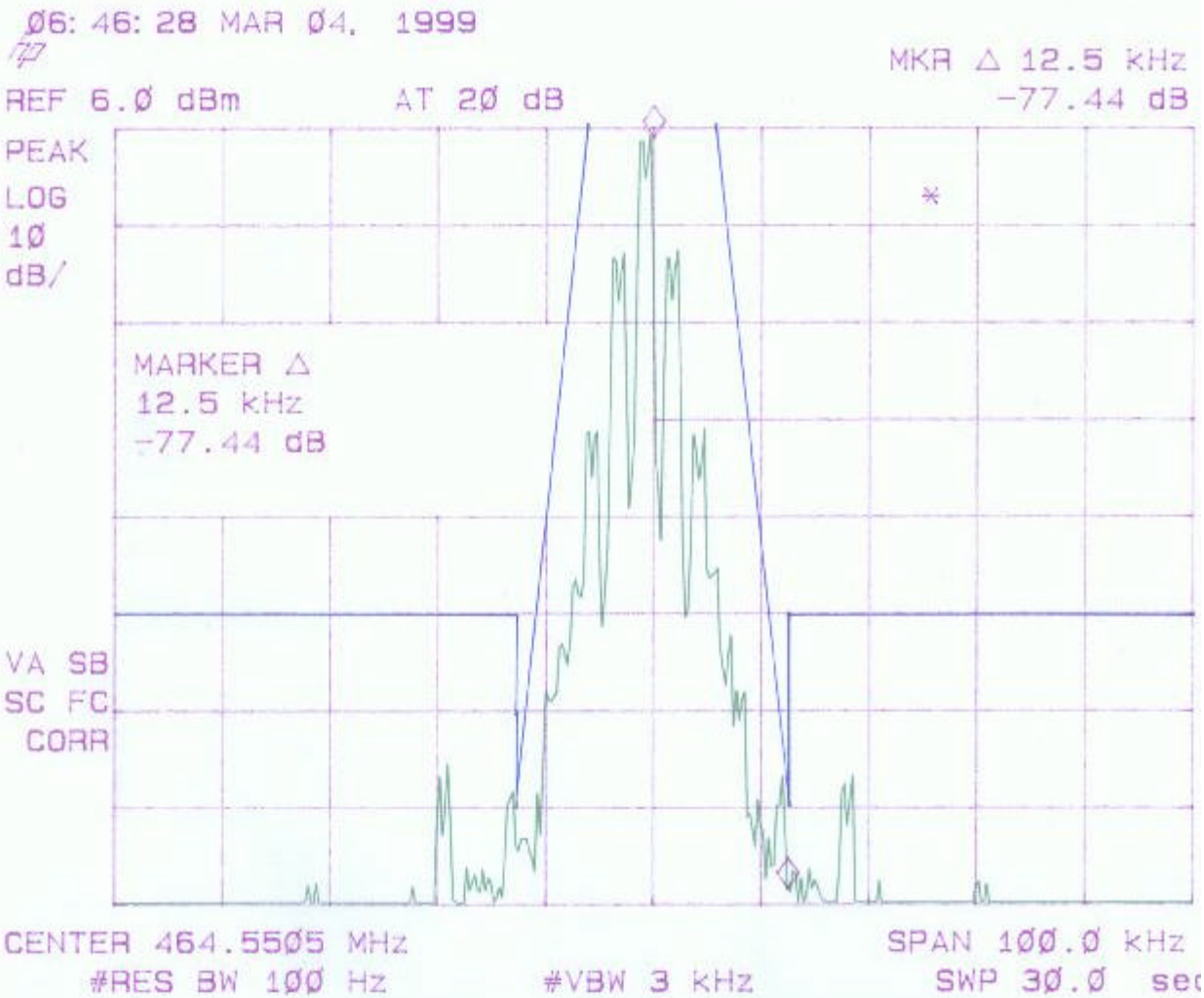


EXHIBIT 6 (6)

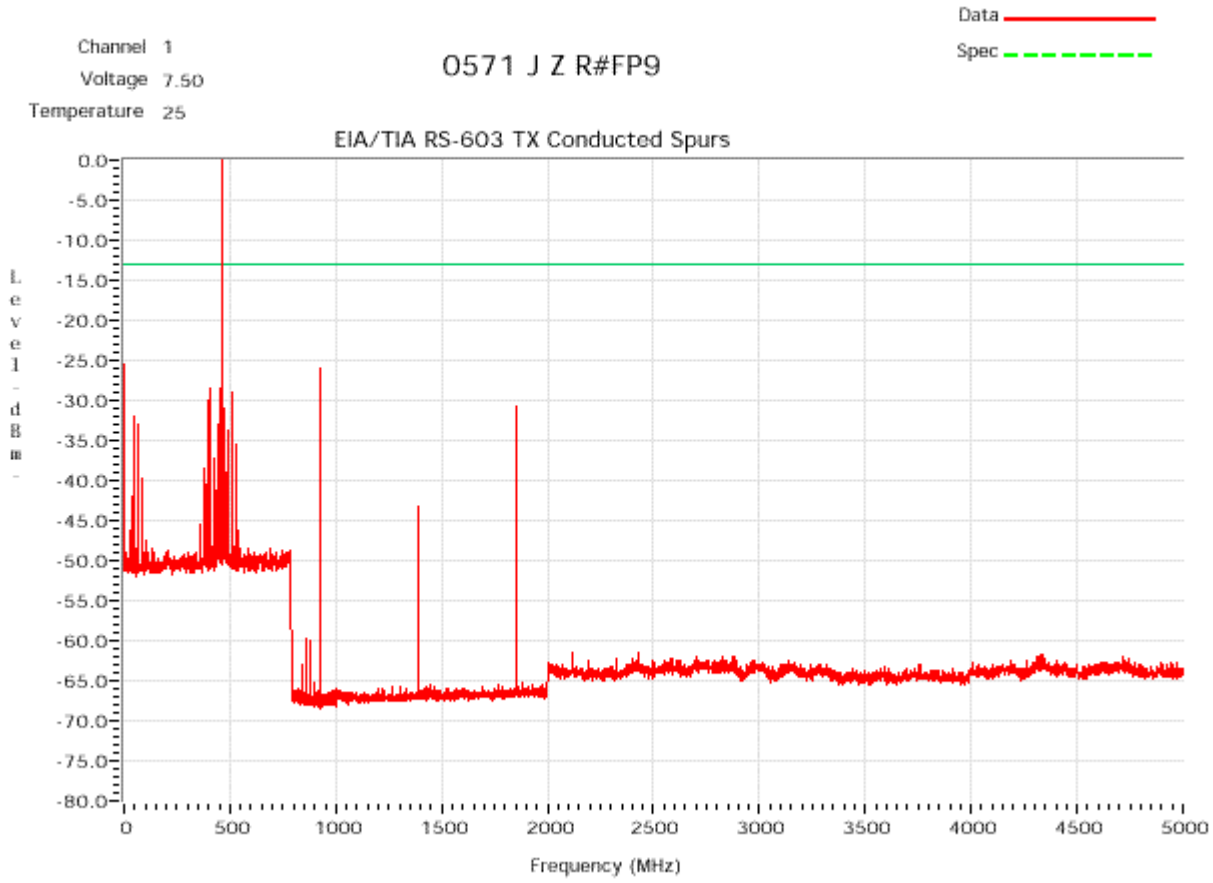
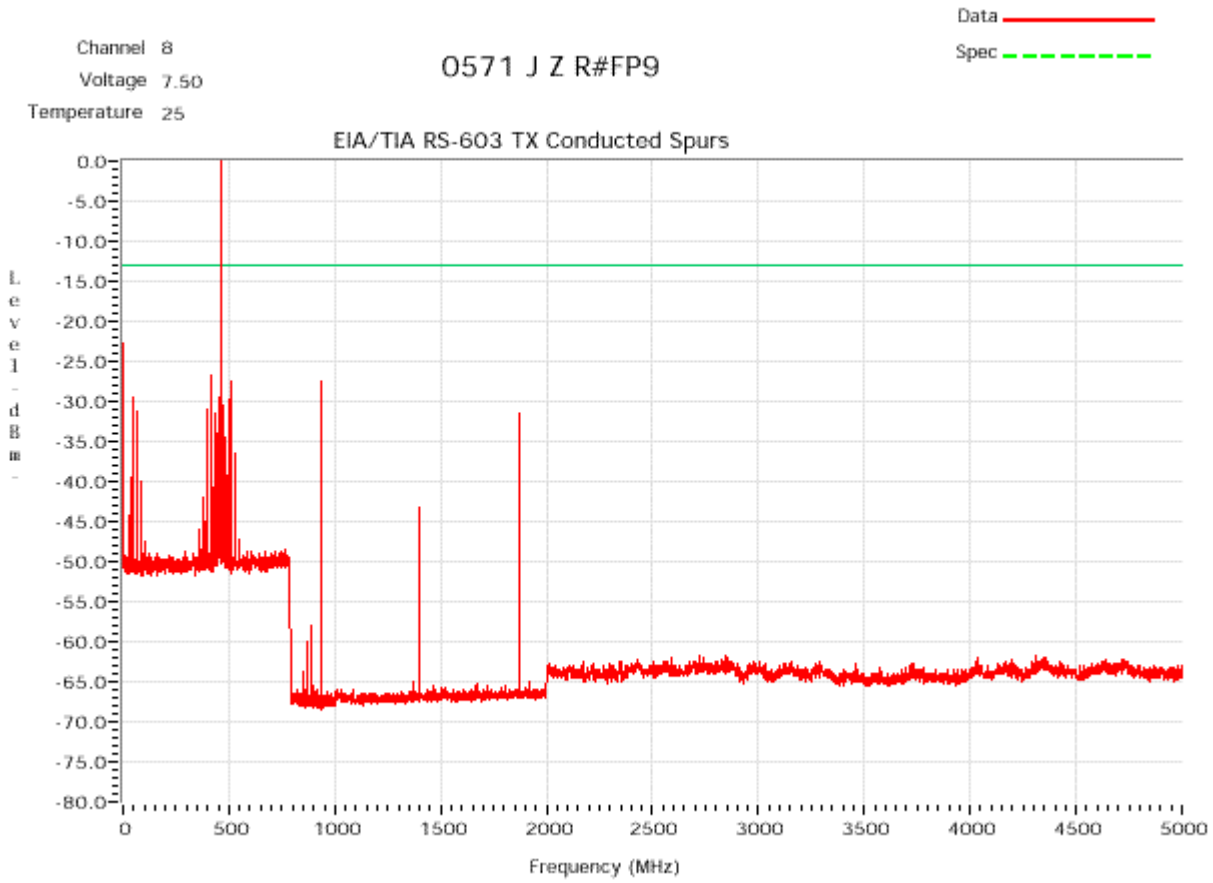

Data
Spec
Channel 1
Voltage 7.50
Temperature 25
0571 J Z R#FP9
EIA/TIA RS-603 TX Conducted Spurs
Level - dBm
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
-55.0
-60.0
-65.0
-70.0
-75.0
-80.0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Frequency (MHz)

EXHIBIT 6F-2

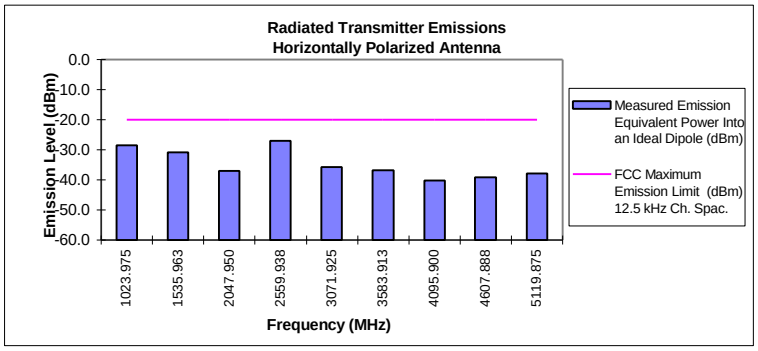

Data
Spec
Channel 8
Voltage 7.50
Temperature 25
0571 J Z R#FP9
EIA/TIA RS-603 TX Conducted Spurs
Level - dBm
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
-55.0
-60.0
-65.0
-70.0
-75.0
-80.0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Frequency (MHz)

FCC ID: AZ489FT4833

Transmitter Radiated Spurious Emissions : FP9 Radio
464.55 MHz - 12.5 kHz CH. Spacing

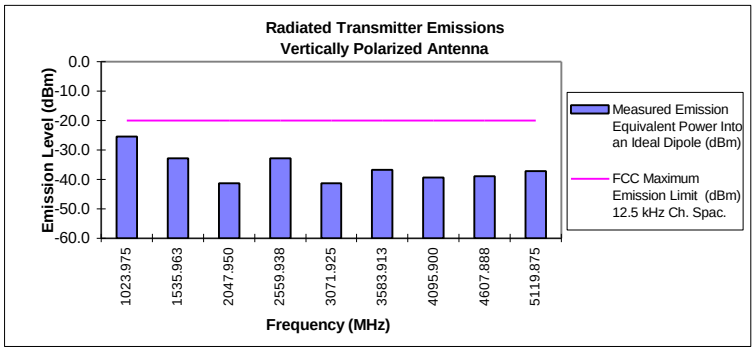
Horizontally Polarized

	Frequency (MHz)	FCC Maximum Emission Limit (dBm) 12.5 kHz Ch. Spac.	Measured Emission Equivalent Power Into an Ideal Dipole (dBm)
2X FUND	1023.975	-20	-28.6
3X FUND	1535.963	-20	-30.9
4X FUND	2047.950	-20	-37.0
5X FUND	2559.938	-20	-26.9
6X FUND	3071.925	-20	-35.7
7X FUND	3583.913	-20	-37.0
8X FUND	4095.900	-20	-40.3
9X FUND	4607.888	-20	-39.2
10XFUND	5119.875	-20	-38.0



Vertically polarized

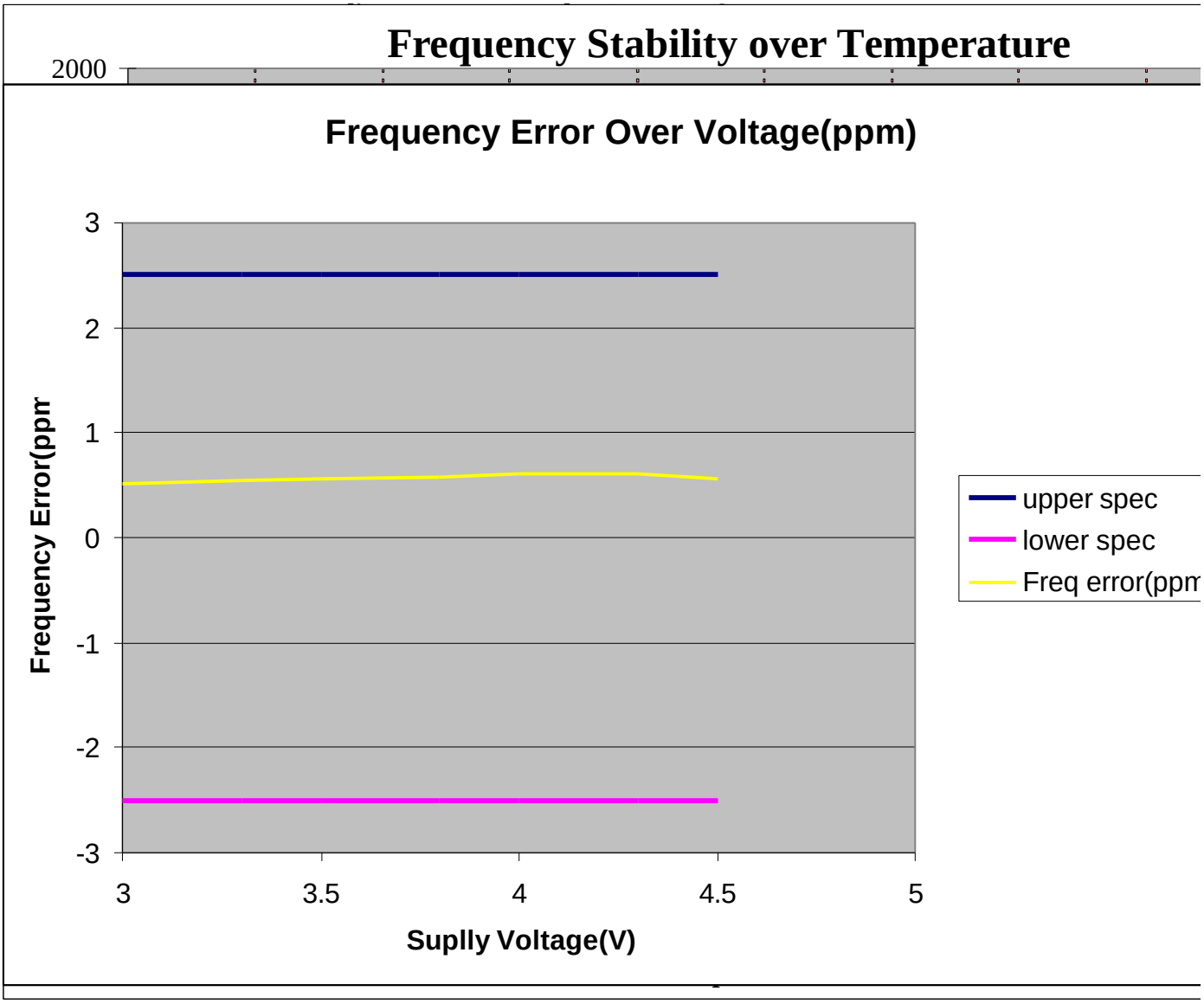
	Frequency (MHz)	FCC Maximum Emission Limit (dBm) 12.5 kHz Ch. Spac.	Measured Emission Equivalent Power Into an Ideal Dipole (dBm)
2X FUND	1023.975	-20	-25.4
3X FUND	1535.963	-20	-32.9
4X FUND	2047.950	-20	-41.4
5X FUND	2559.938	-20	-32.8
6X FUND	3071.925	-20	-41.2
7X FUND	3583.913	-20	-36.8
8X FUND	4095.900	-20	-39.4
9X FUND	4607.888	-20	-39.0
10XFUND	5119.875	-20	-37.3



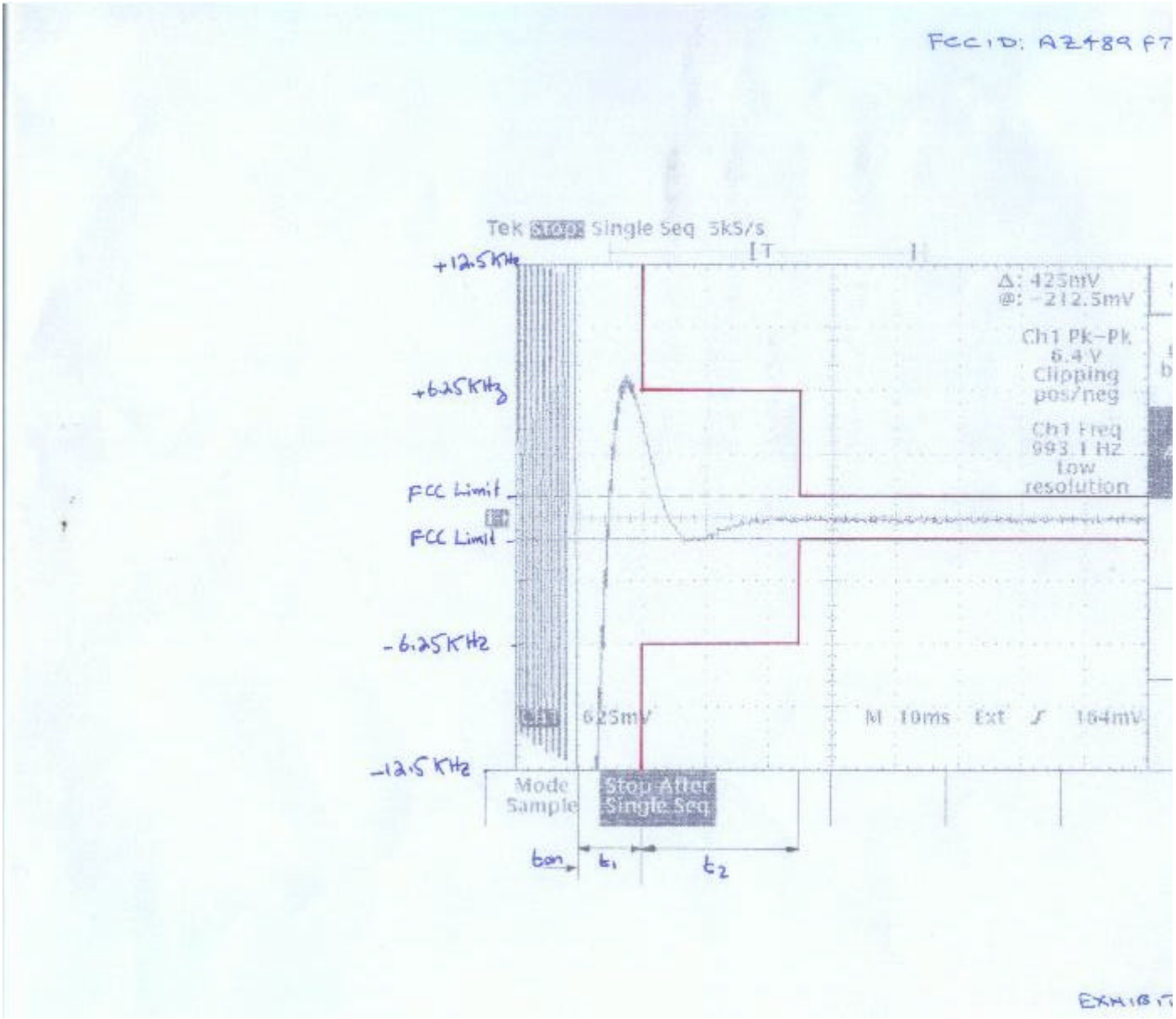
* Indicates the spurious emission was less than -60dBm or could not be detected due to noise limitations or ambients.

EX

6G-1


Frequency Stability over Temperature
2000
Frequency Error Over Voltage(ppm)
Frequency Error(ppm
3
2
1
0
-1
-2
-3
3
3.5
4
4.5
5
Suplly Voltage(V)
upper spec
lower spec
Freq error(ppm

FCC ID: AZ489FT4833



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