

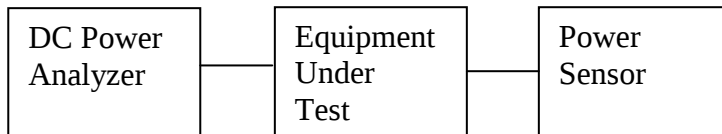
Measured Data

Measurement

1. RF Output Power

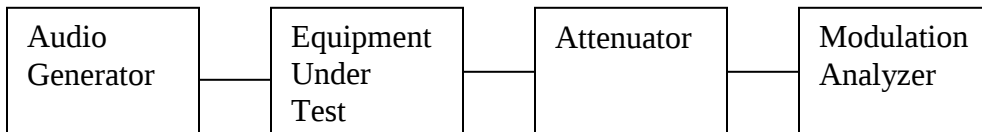
Test Method: TIA/EIA-603-A 2.2.1

Equipment Used: Rohde & Schwarz NRP-Z22 Power Sensor (9-07-09), Agilent N6705A DC Power Analyzer (3-12-09)

**2. Audio Frequency Response**

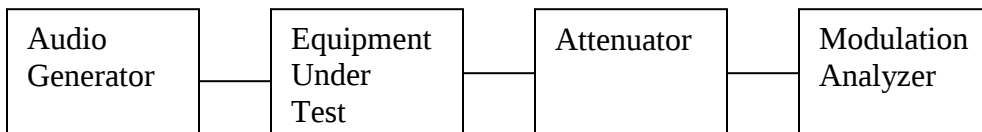
Test Method: TIA/EIA-603-A 2.2.6

Equipment Used: Agilent 8901B Modulation Analyzer (1-18-09), Audio Precision ATS-1 Audio Generator (1-23-09). No filters were used on the modulation analyzer.

**3. Low Pass Filter Response**

Test Method: TIA/EIA-603-A 2.2.15

Equipment Used: Agilent 8901B Modulation Analyzer (1-18-09), Audio Precision ATS-1 Audio Generator (1-23-09). No filters were used on the modulation analyzer.



4. Occupied Bandwidth /Emission Mask

No Modulation

16K0F3E

11K0F3E

8K10F1E

8K10F1D

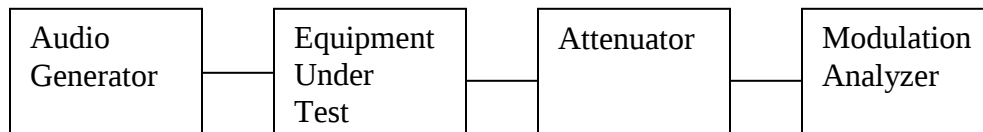
Test Method: TIA/EIA-603-A 2.2.11

Equipment Used: Rohde & Schwarz FSU Spectrum Analyzer (12-28-08)

**5. Modulation Limiting**

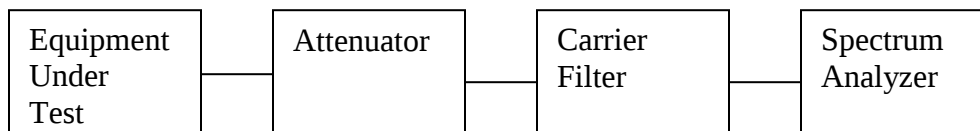
Test Method: TIA/EIA-603-A 2.2.3

Equipment Used: Agilent 8901B Modulation Analyzer (1-18-09), Audio Precision ATS-1 Audio Generator (1-23-09).

**6. Conducted Spurious Emissions**

Test Method: TIA/EIA-603-A 2.2.13

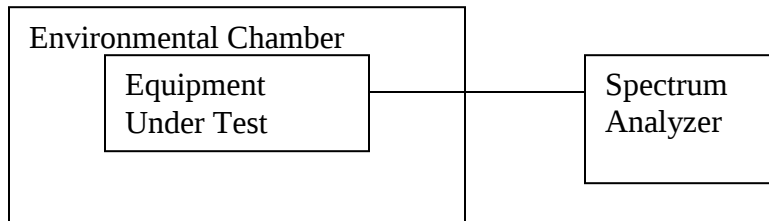
Equipment Used: Rohde & Schwarz FSU Spectrum Analyzer (12-28-08)



7. Frequency Stability

Test Method: TIA/EIA-603-A 2.2.2

Equipment Used: Agilent 8653EC Spectrum Analyzer (6-05-09)

**8. Transient Frequency Behavior**

Test Method: TIA/EIA-603-A 2.2.19.3

Equipment Used: HP53310A Modulation Domain Analyzer (10-02-09)



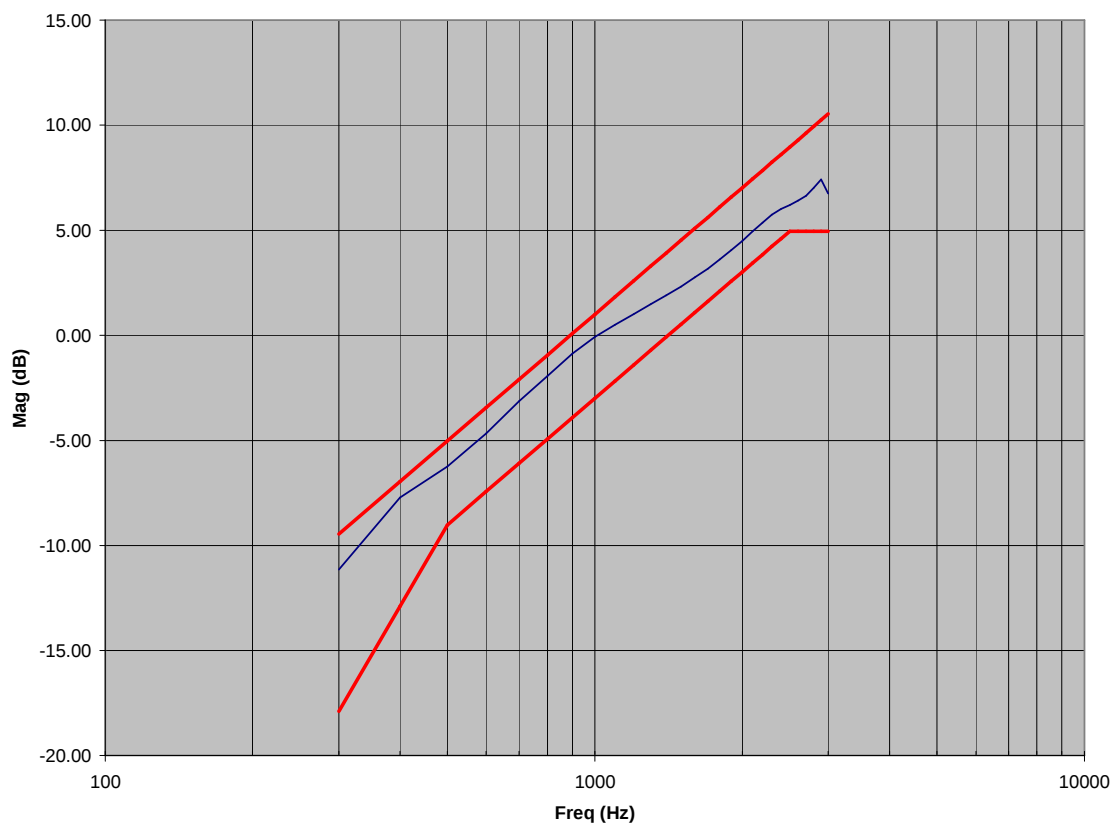
#1 RF Output Power

Freq (MHz)	Power (dBm)	Power (W)	Voltage (V)	Current (A)
763	33.9	2.45	10.8	1.6
777	33.8	2.40	10.8	1.39
793	33.9	2.45	10.8	1.23
806	33.9	2.45	10.8	1.11
824	34.5	2.82	10.8	1.09
851	34.6	2.88	10.8	1.11
870	34.4	2.75	10.8	1.59

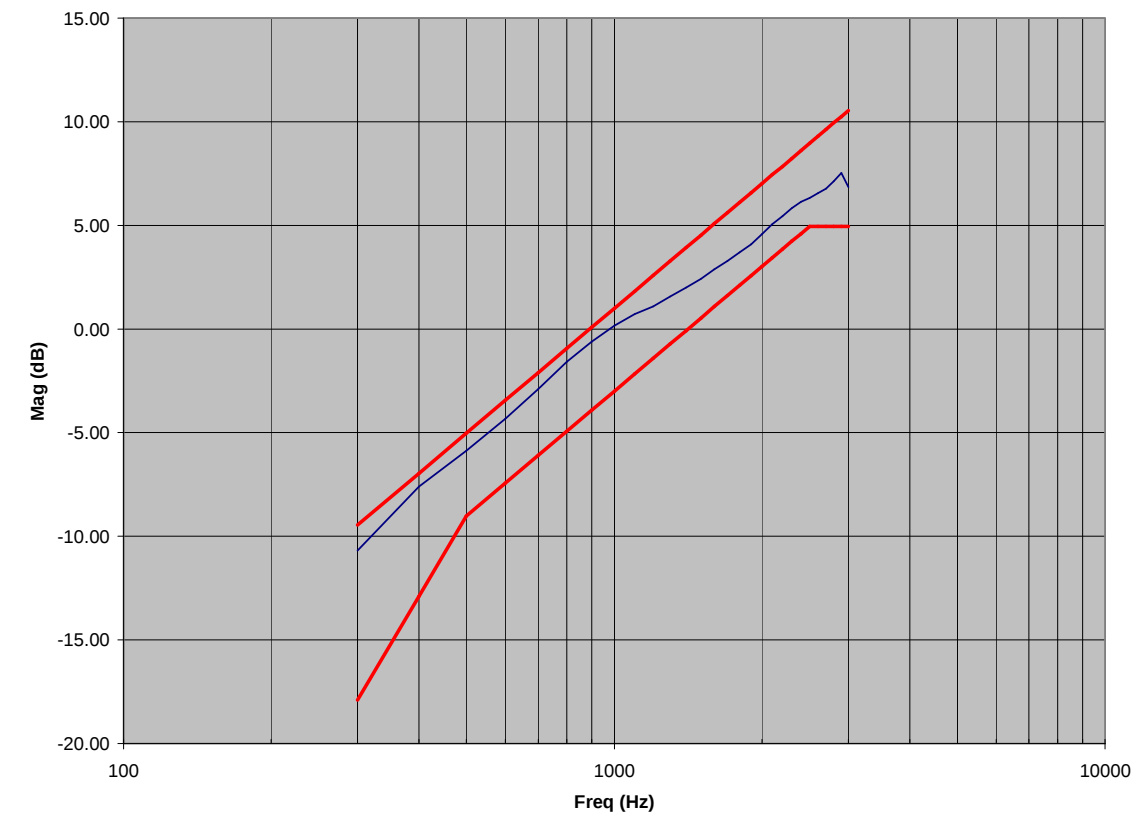
Freq (MHz)	Power (dBm)	Power (W)	Voltage (V)	Current (A)
763	33.9	2.45	12	1.59
777	33.9	2.45	12	1.4
793	33.9	2.45	12	1.22
806	33.9	2.45	12	1.1
824	34.5	2.82	12	1.07
851	34.5	2.82	12	1.03
870	34.5	2.82	12	1.26

#2 Audio Frequency Response

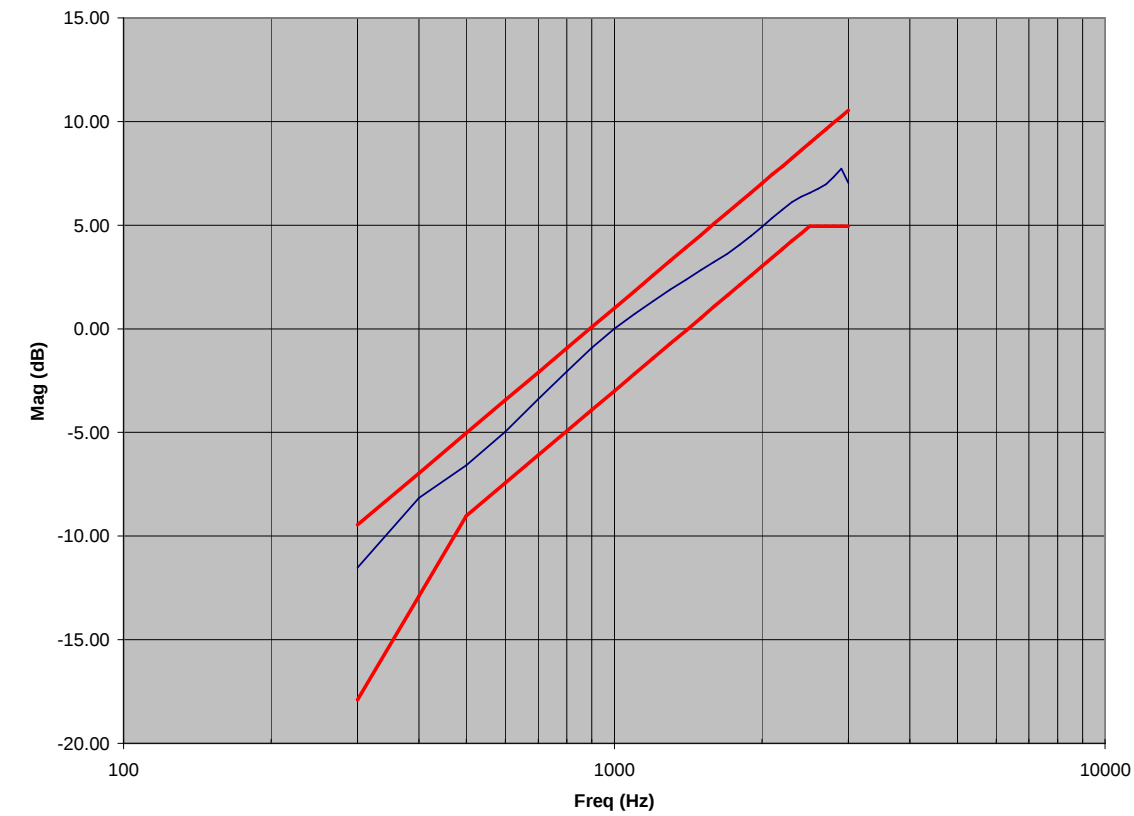
25KHz TX Audio Response 793MHz



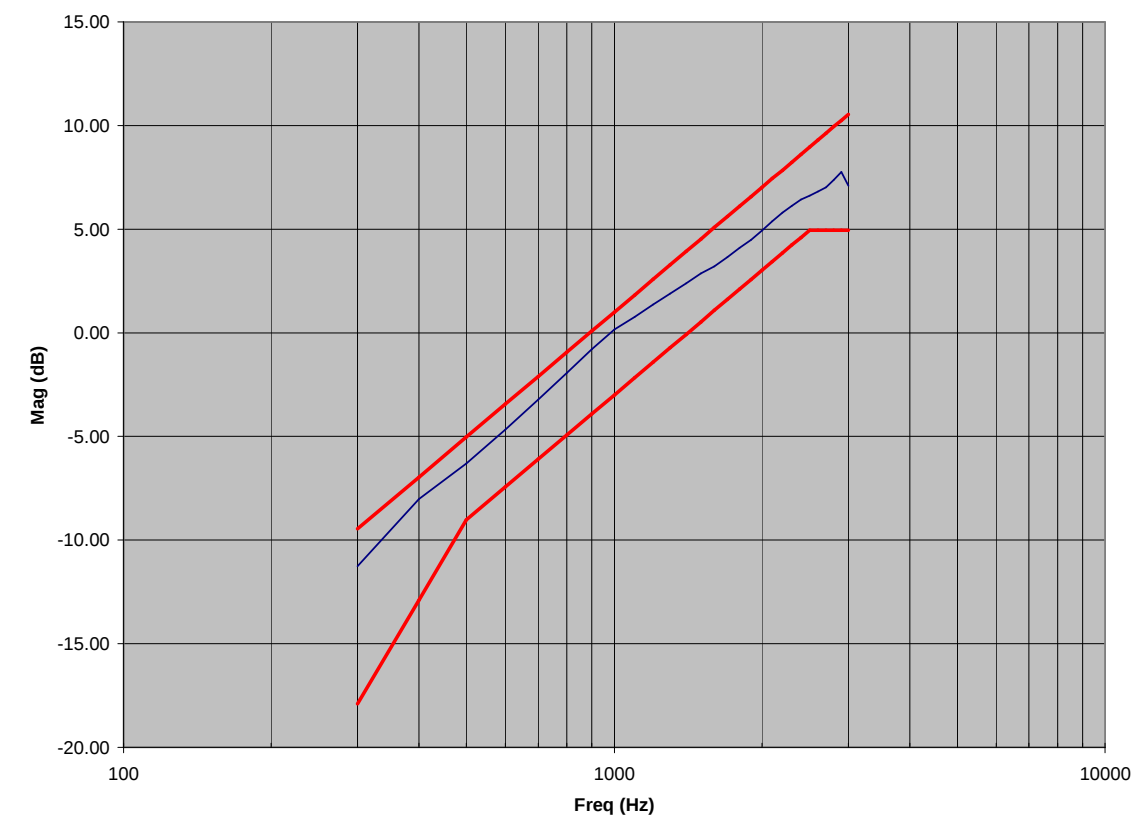
12.5KHz TX Audio Response 793MHz



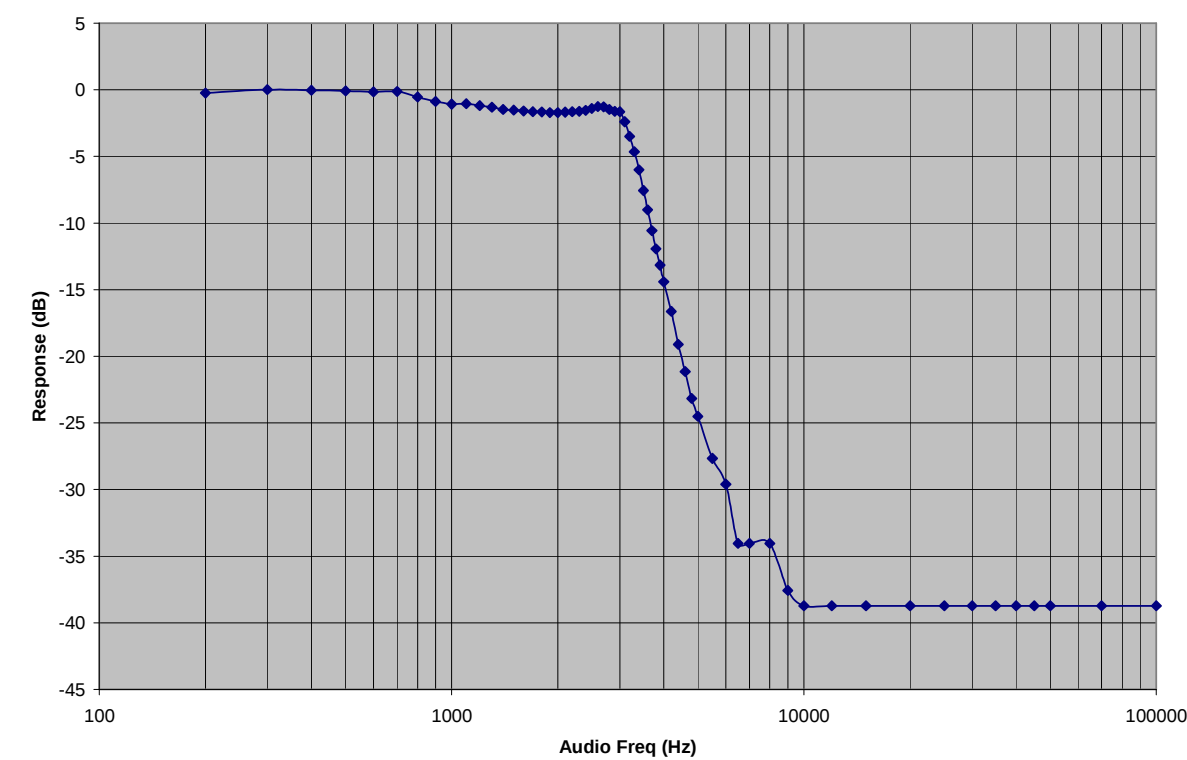
25KHz TX Audio Response 824MHz



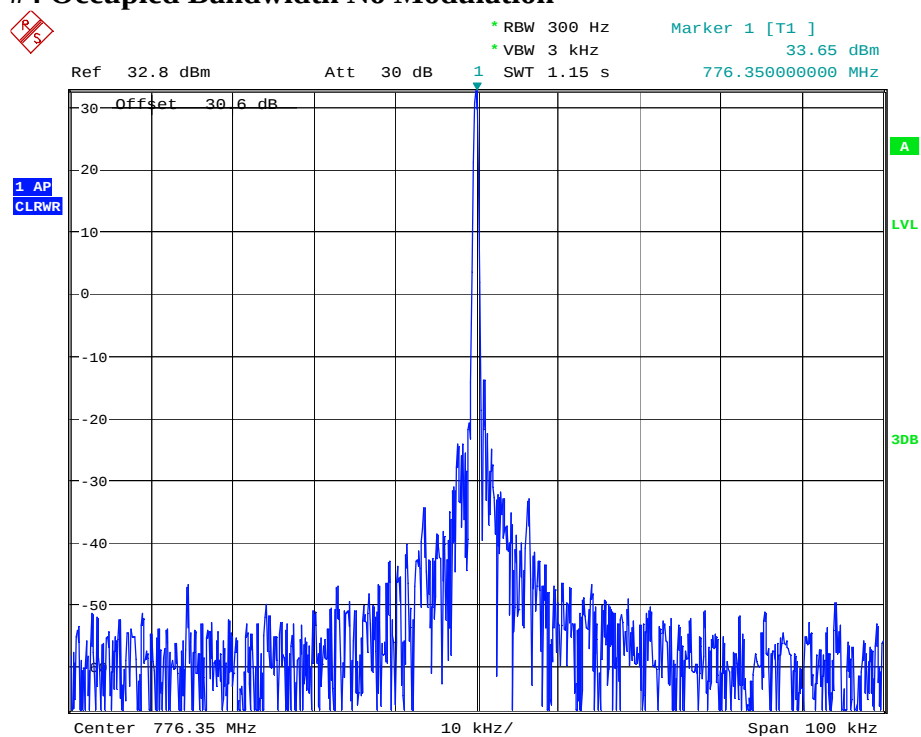
12.5KHz TX Audio Response 824MHz



#3 Low Pass Filter Response

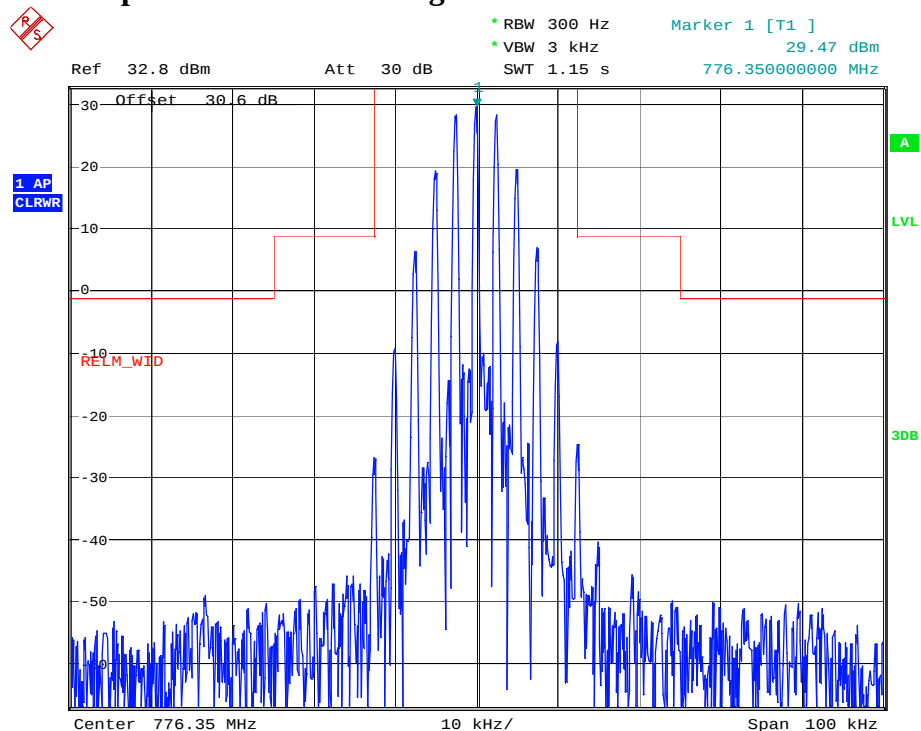


#4 Occupied Bandwidth No Modulation



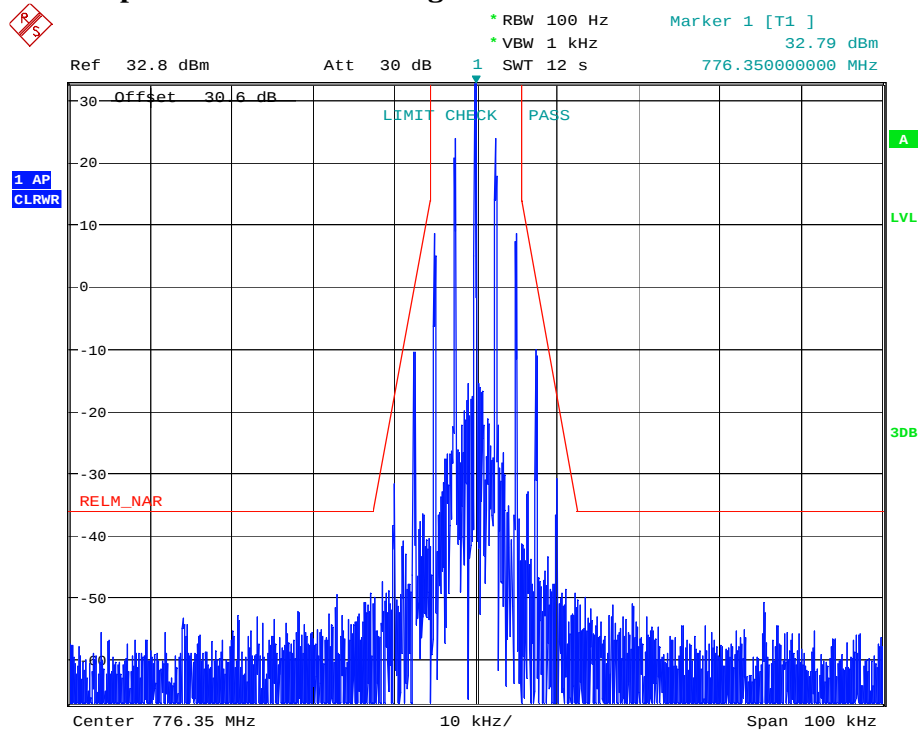
Date: 8.OCT.2008 13:49:35

#4 Occupied Bandwidth Analog Voice 16K0F3E Mask B



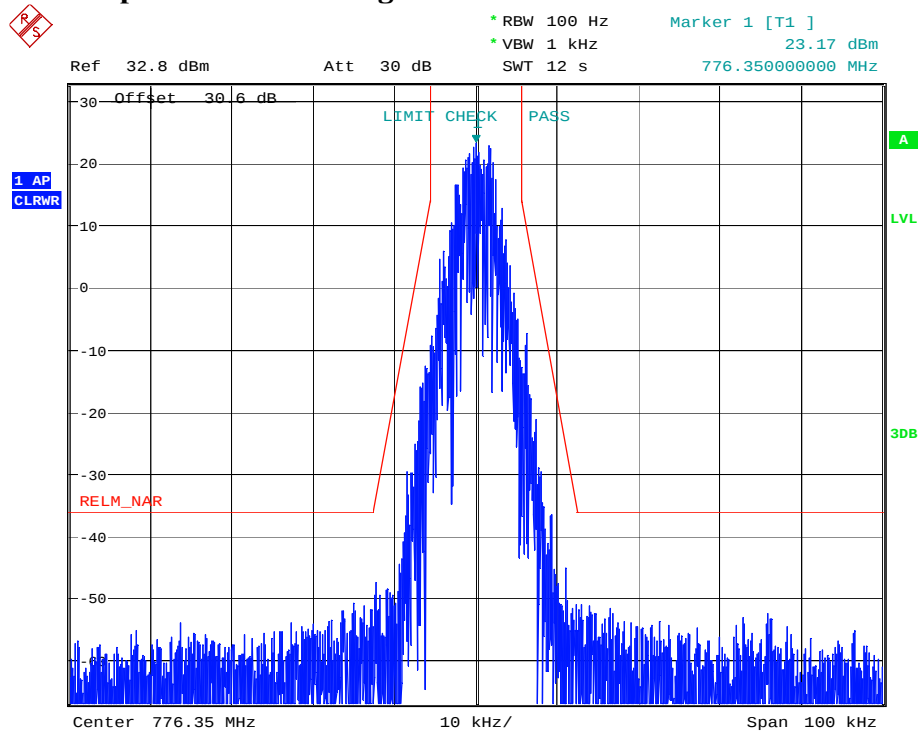
Date: 8.OCT.2008 15:56:13

#4 Occupied Bandwidth Analog Voice 11K0F3E Mask D



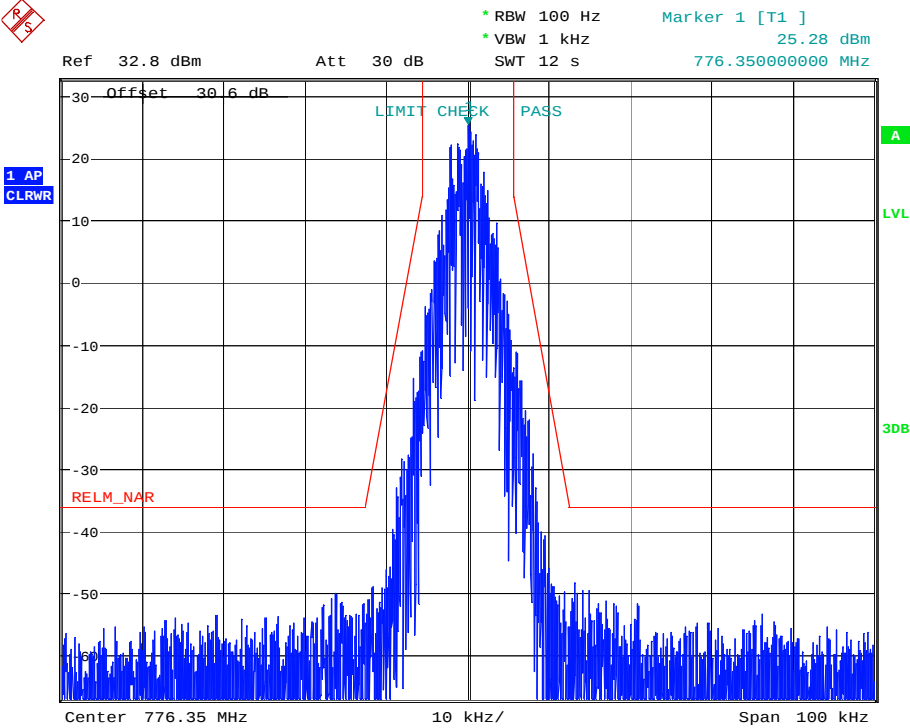
Date: 8.OCT.2008 15:51:18

#4 Occupied Bandwidth Digital Voice 8K10F1E Mask D



Date: 8.OCT.2008 15:53:57

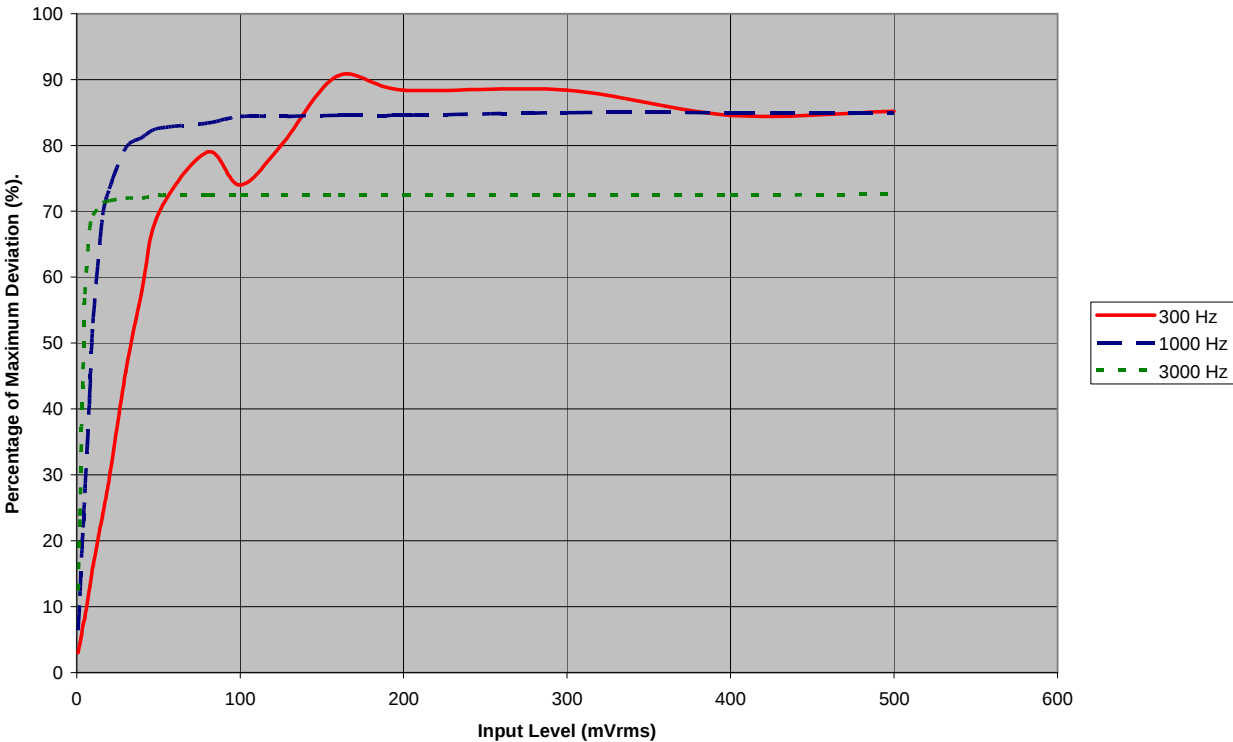
#4 Occupied Bandwidth Digital Data 8K10F1D Mask D



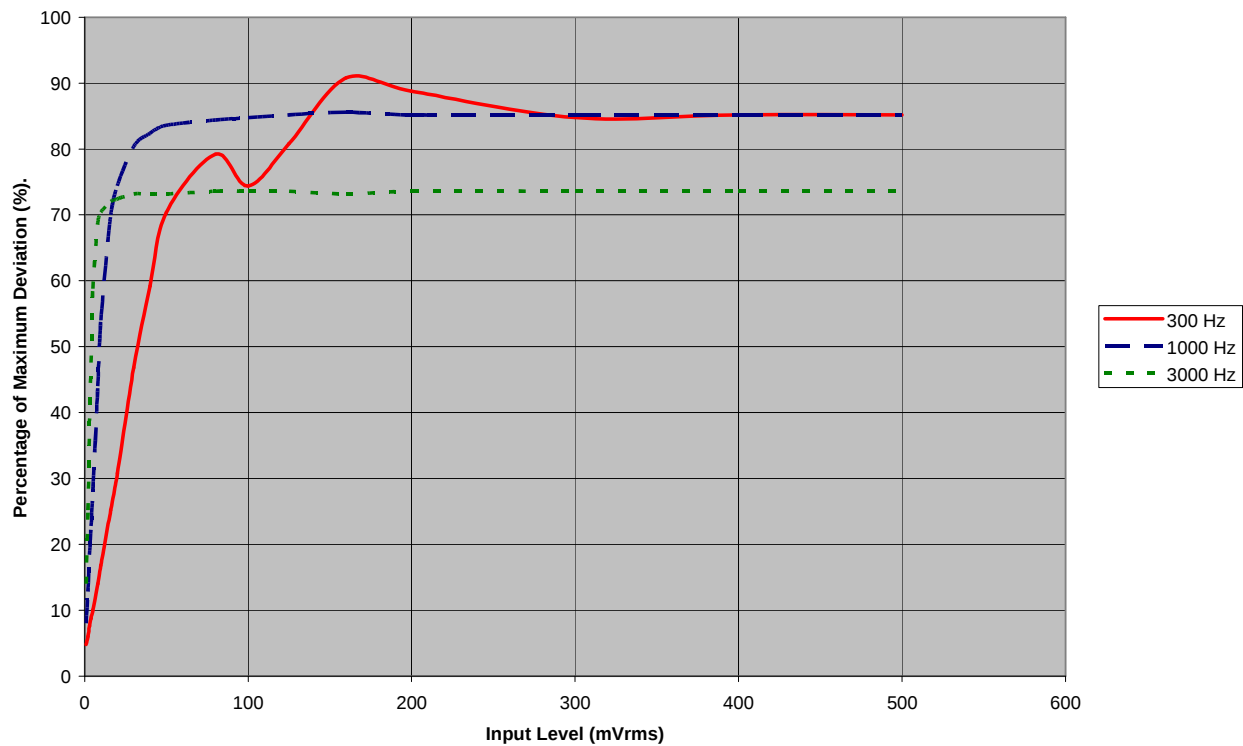
Date: 8.OCT.2008 15:54:27

#5 Modulation Limiting

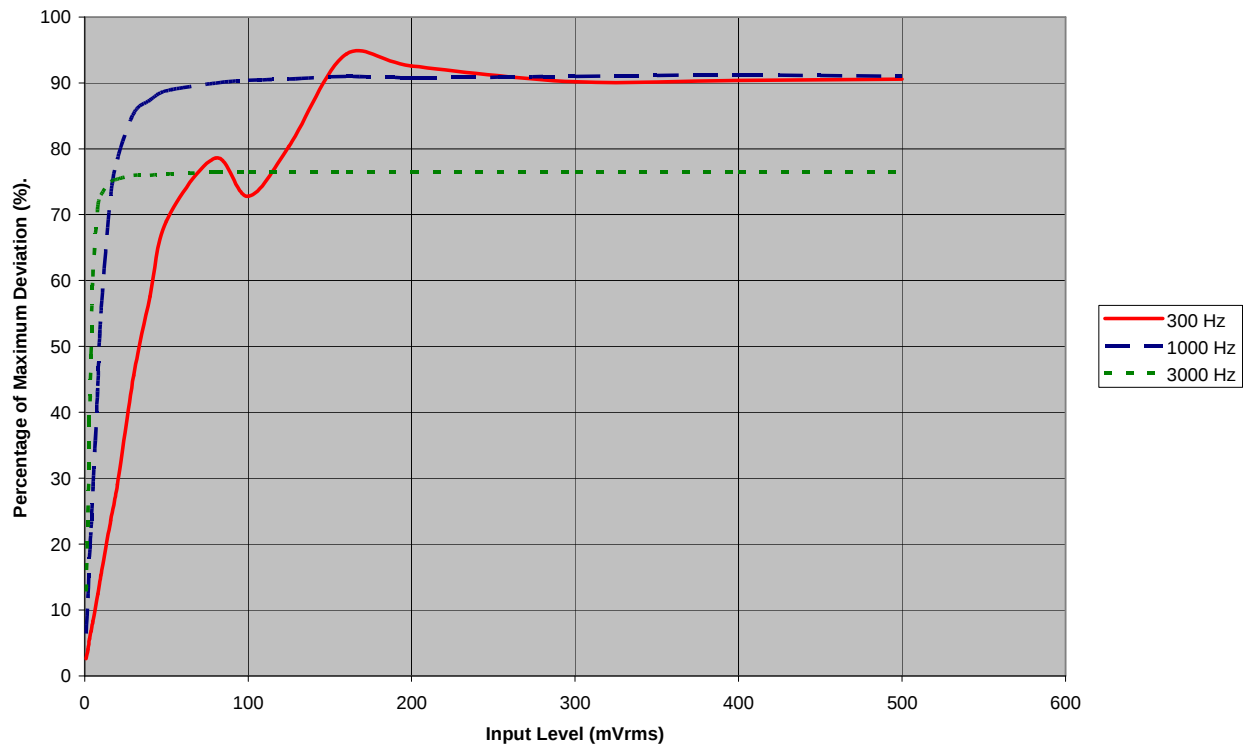
25kHz Channel 793 MHz



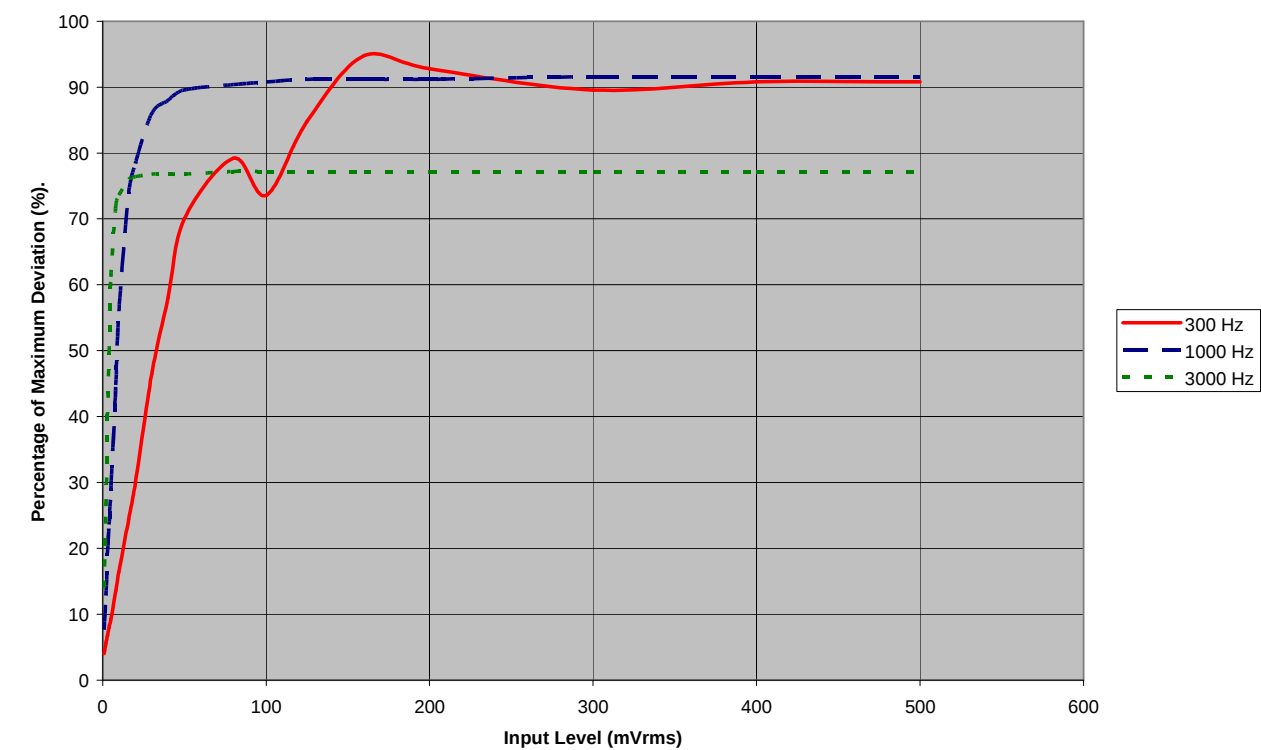
12.5kHz Channel 793 MHz



25kHz Channel 824 MHz

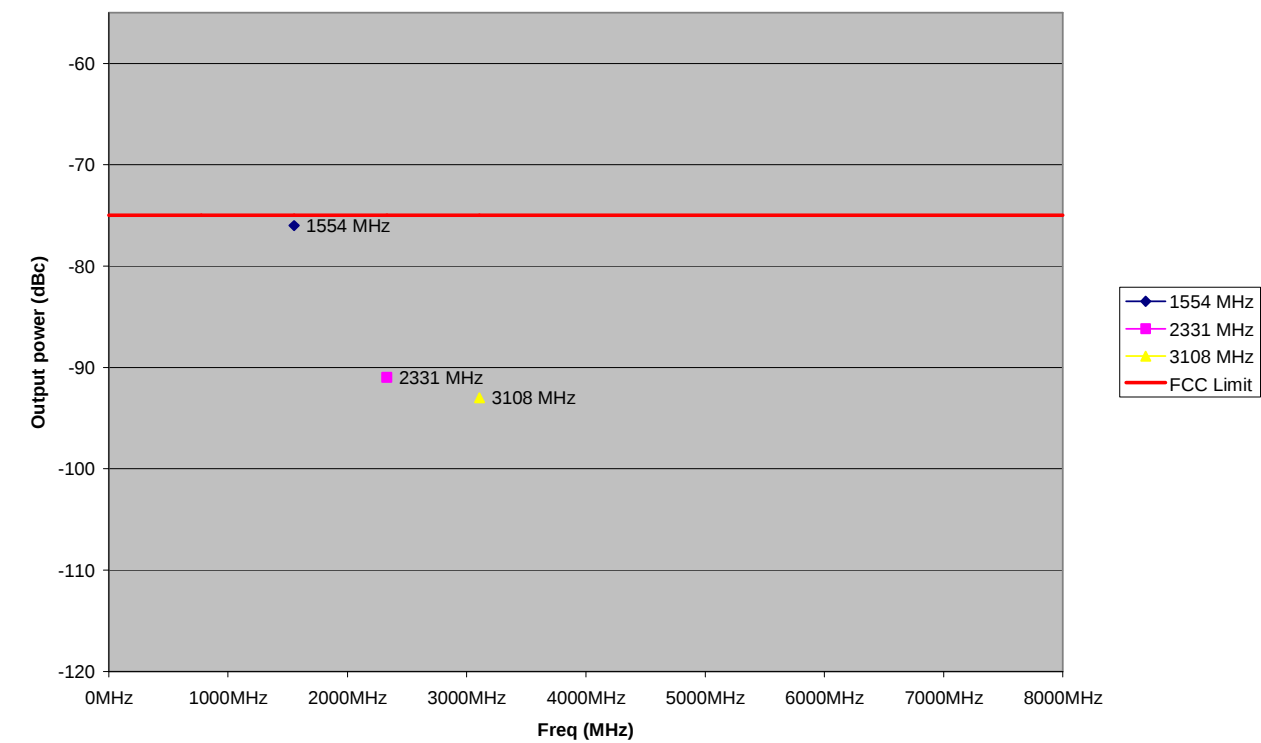


12.5kHz Channel 824 MHz

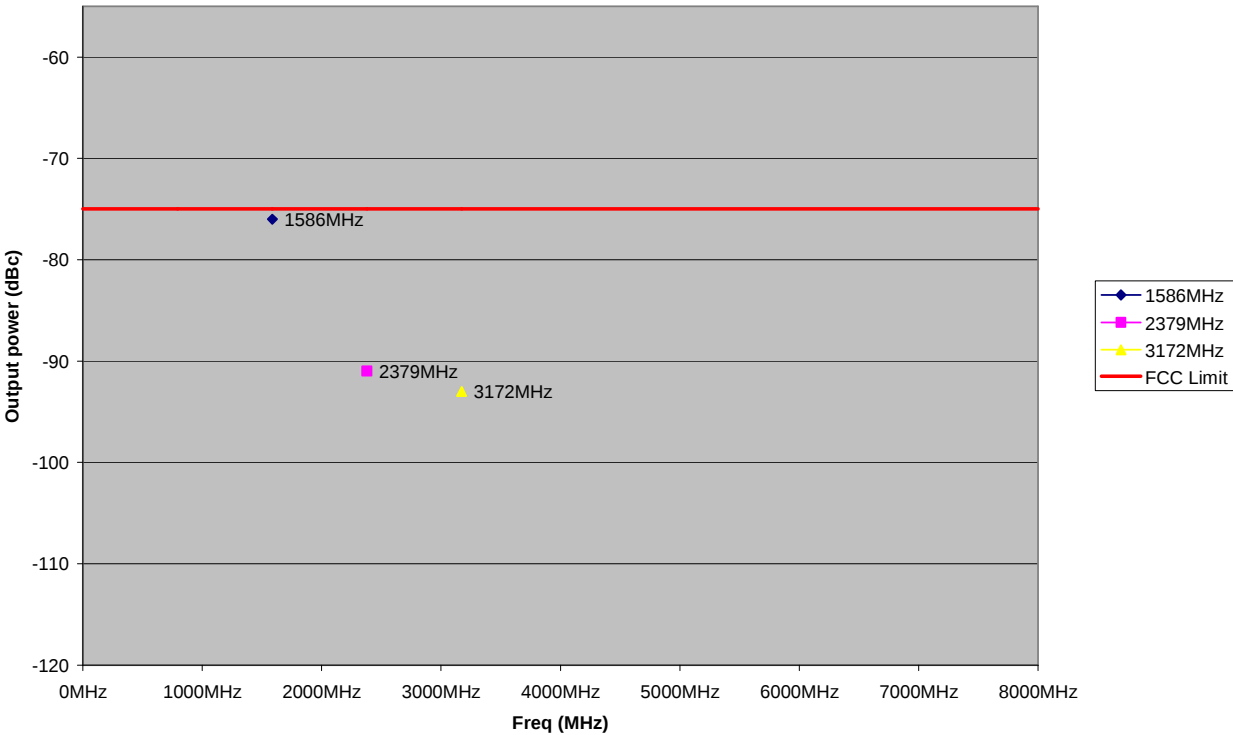


#6 Conducted Spurious Emissions

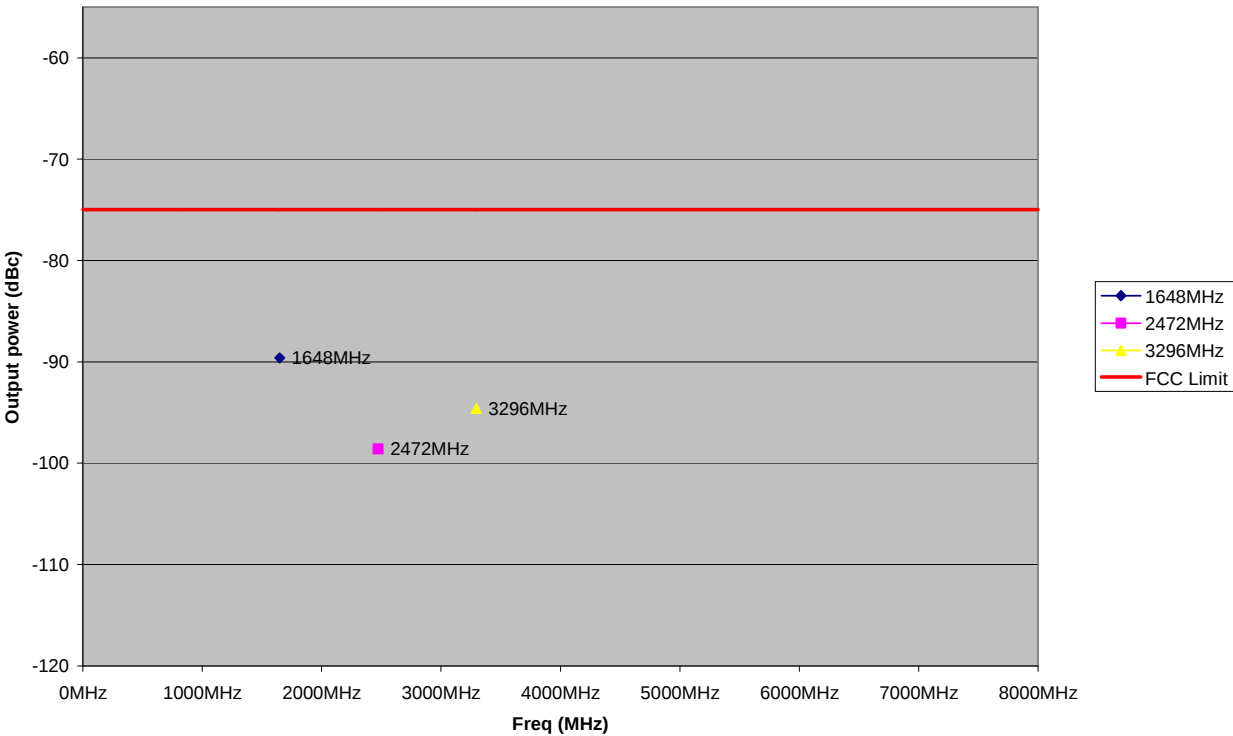
Conducted Spurious 777 MHz



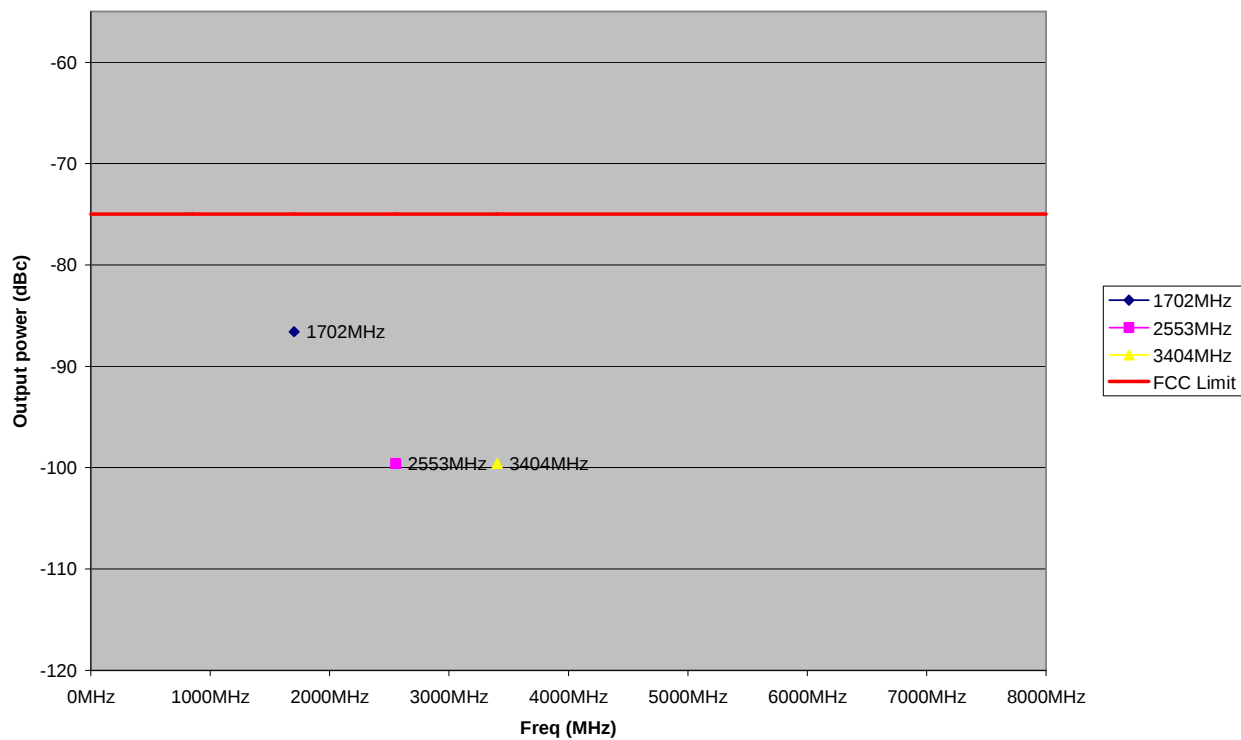
Conducted Spurious 793 MHz



Conducted Spurious 824 MHz

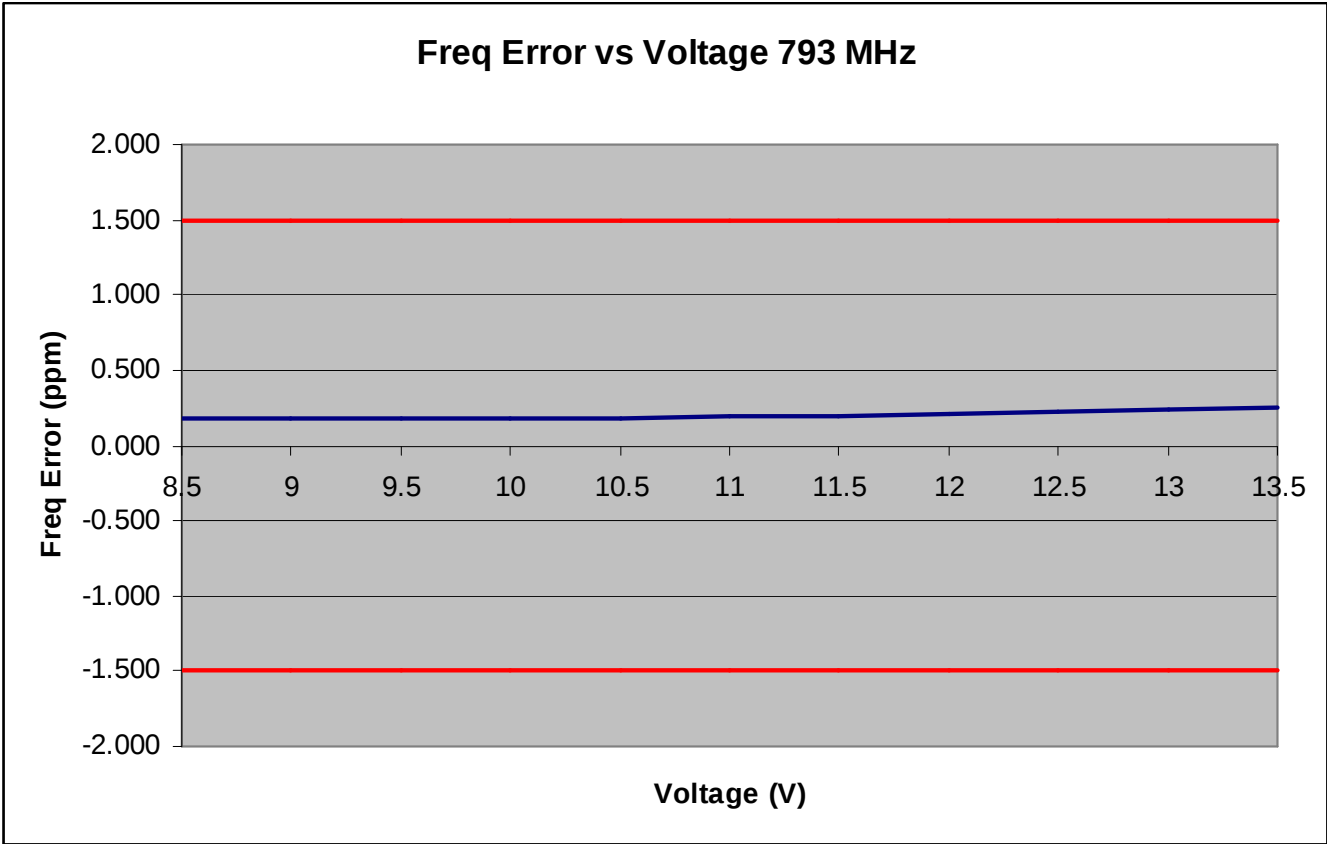


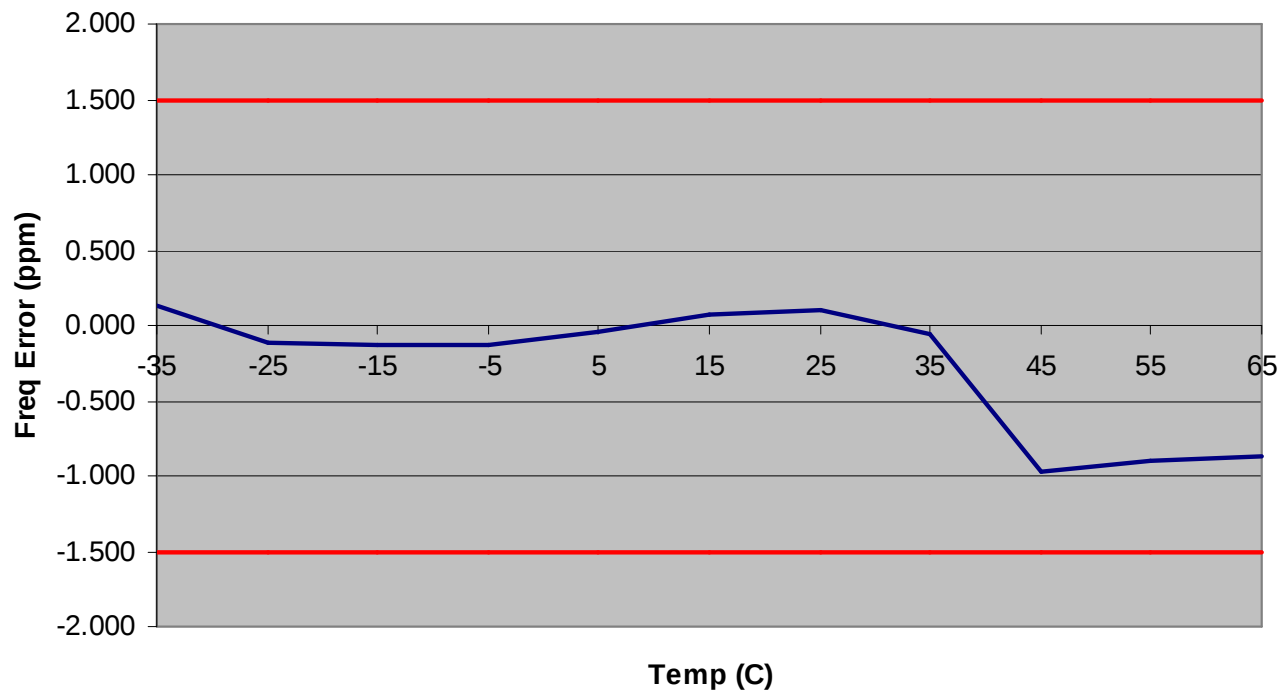
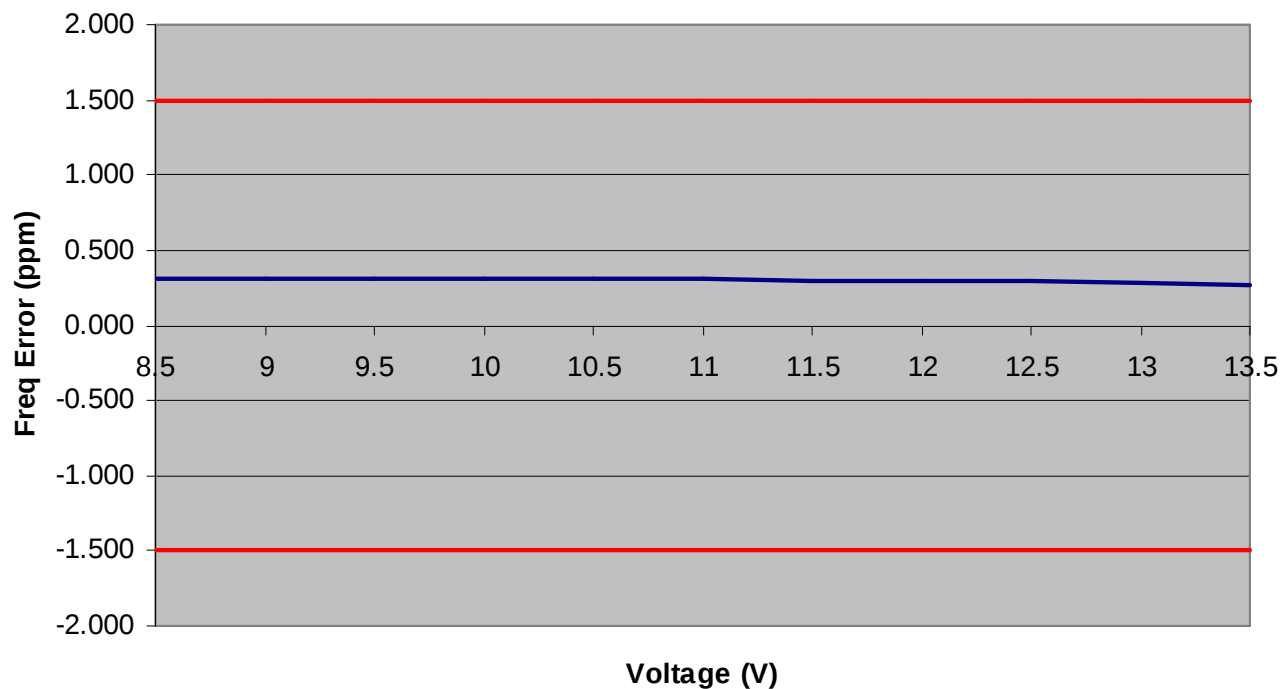
Conducted Spurious 851 MHz

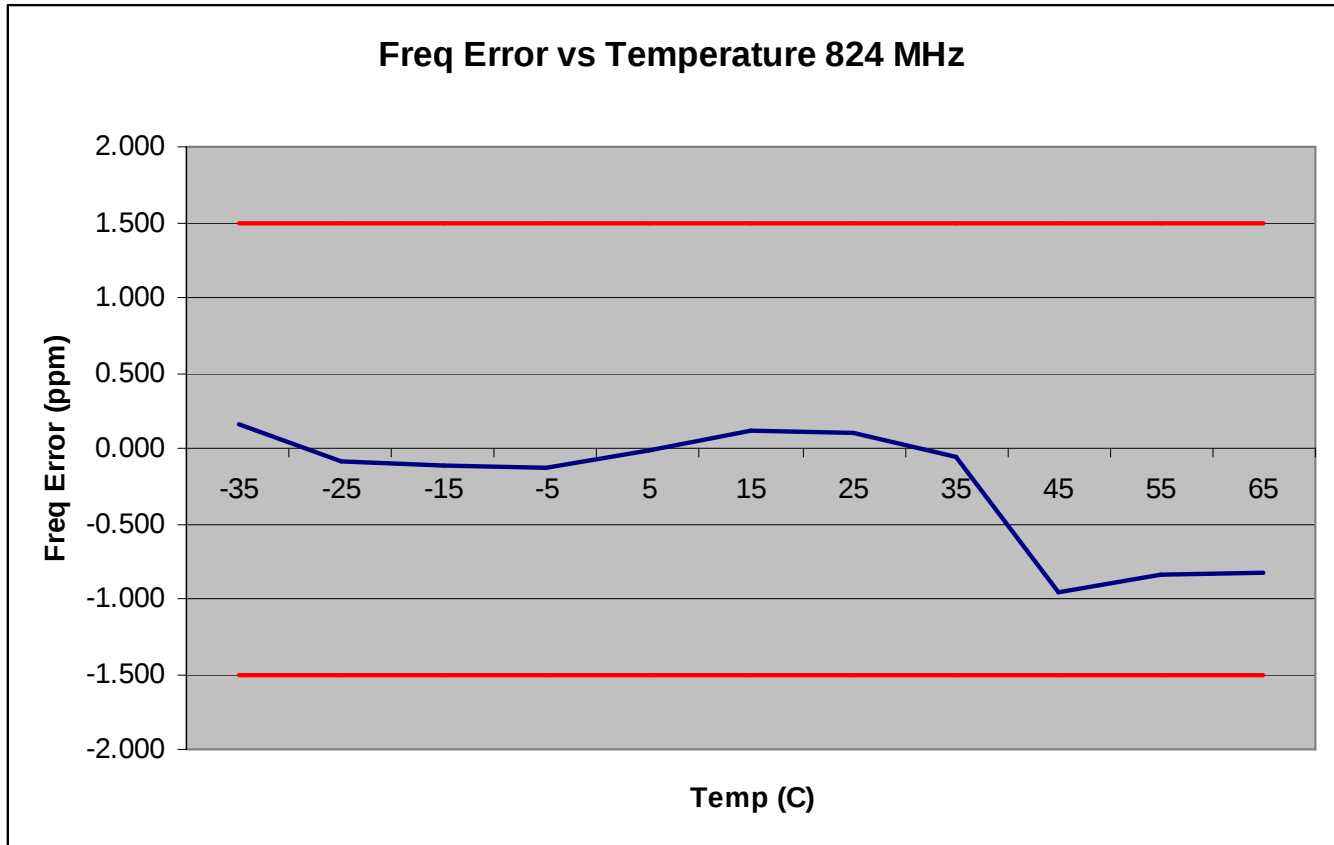


#7 Frequency Stability

Channel Frequency 793 MHz

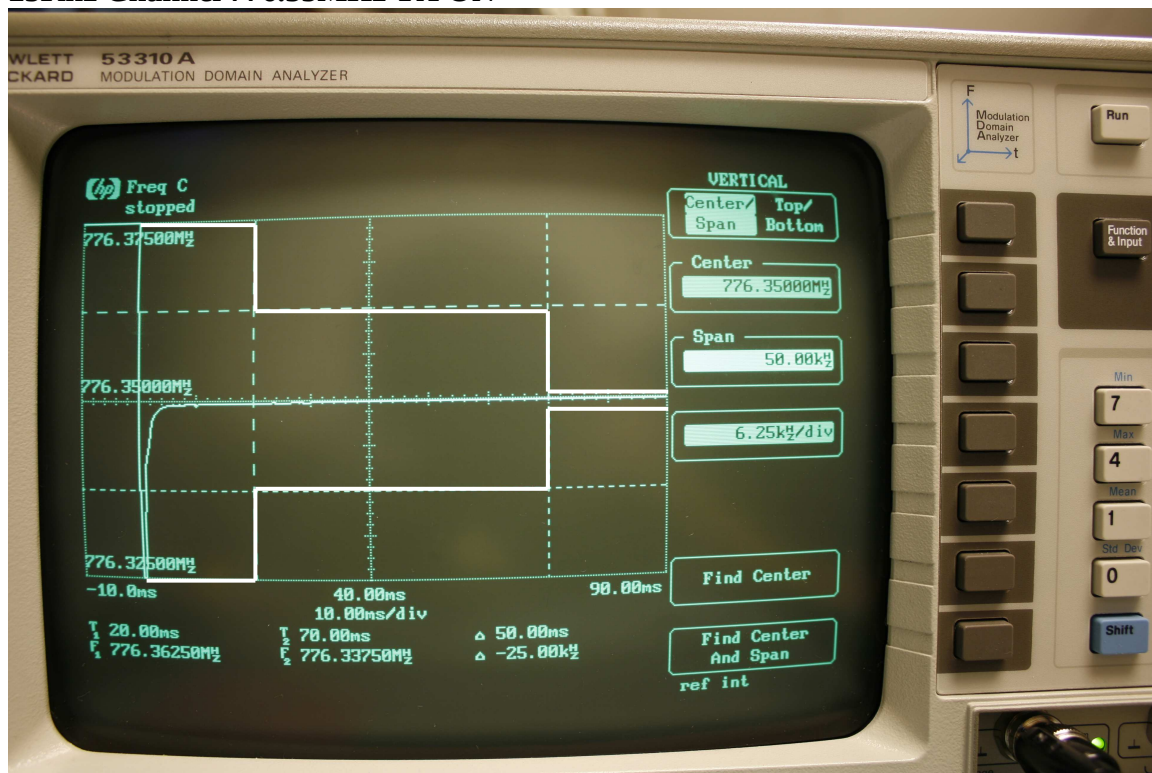


Freq Error vs Temperature 793 MHz**Channel Frequency 824 MHz****Freq Error vs Voltage 824 MHz**

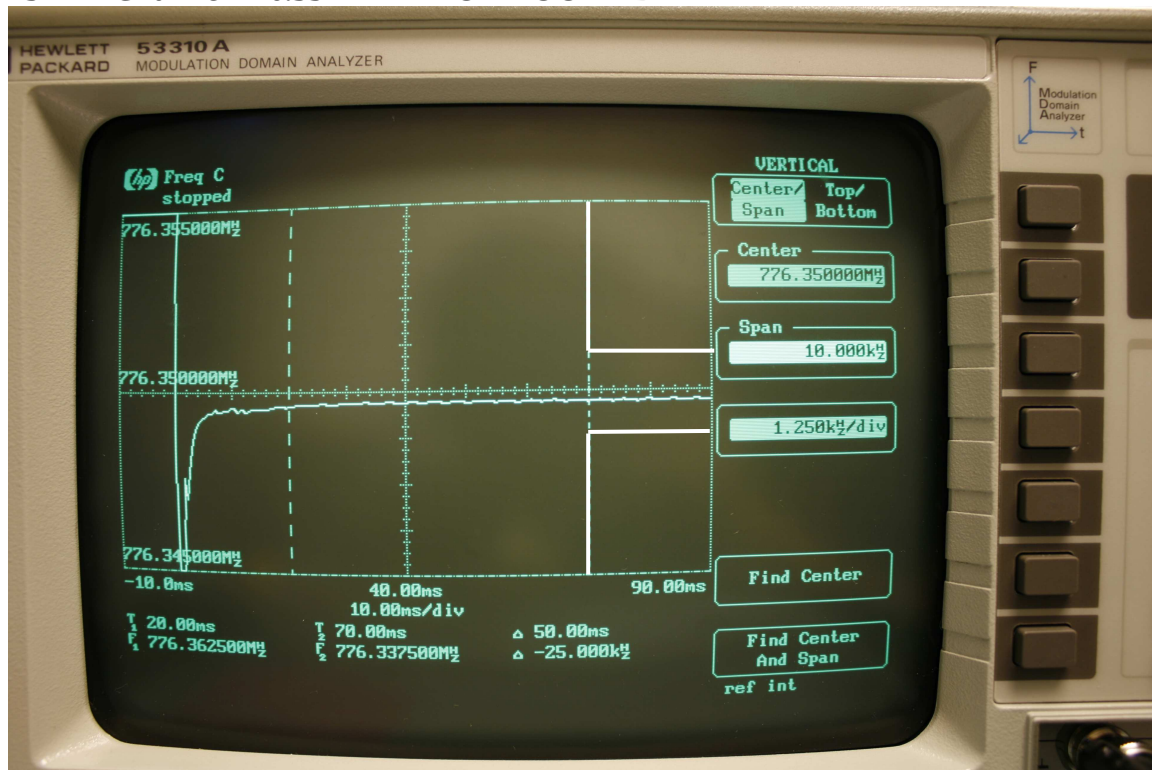


#8 Transmitter Transient Frequency Behavior

25Khz Channel 776.35MHz TX ON



25KHz Channel 776.35MHz TX ON ZOOMED



(4) Freq C
 stopped
 776.37500MHz
 776.35000MHz
 776.32500MHz
 -80.00ns -30.00ns 20.00ns
 10.00ns/div
 T₁ -10.0ns T₂ 0.00s Δ 10.0ms
 F₁ 776.36250MHz F₂ 776.33750MHz Δ -25.00kHz
 ref int

VERTICAL
 Center/Top/Bottom
 Center 776.35000MHz
 Span 50.00kHz
 6.25kHz/div
 Find Center
 Find Center And Span
 ref int

F
 Modulation Domain Analyzer
 t

Run
 Function & Input
 Min
 7
 Max
 4
 Mean
 1
 Std Dev
 0
 Shift

HP HEWLETT PACKARD 53310 A MODULATION DOMAIN ANALYZER

HP Freq C stopped

776.37500MHz

776.35000MHz

776.32500MHz

-10.0ms 40.00ms 90.00ms

10.00ms/div

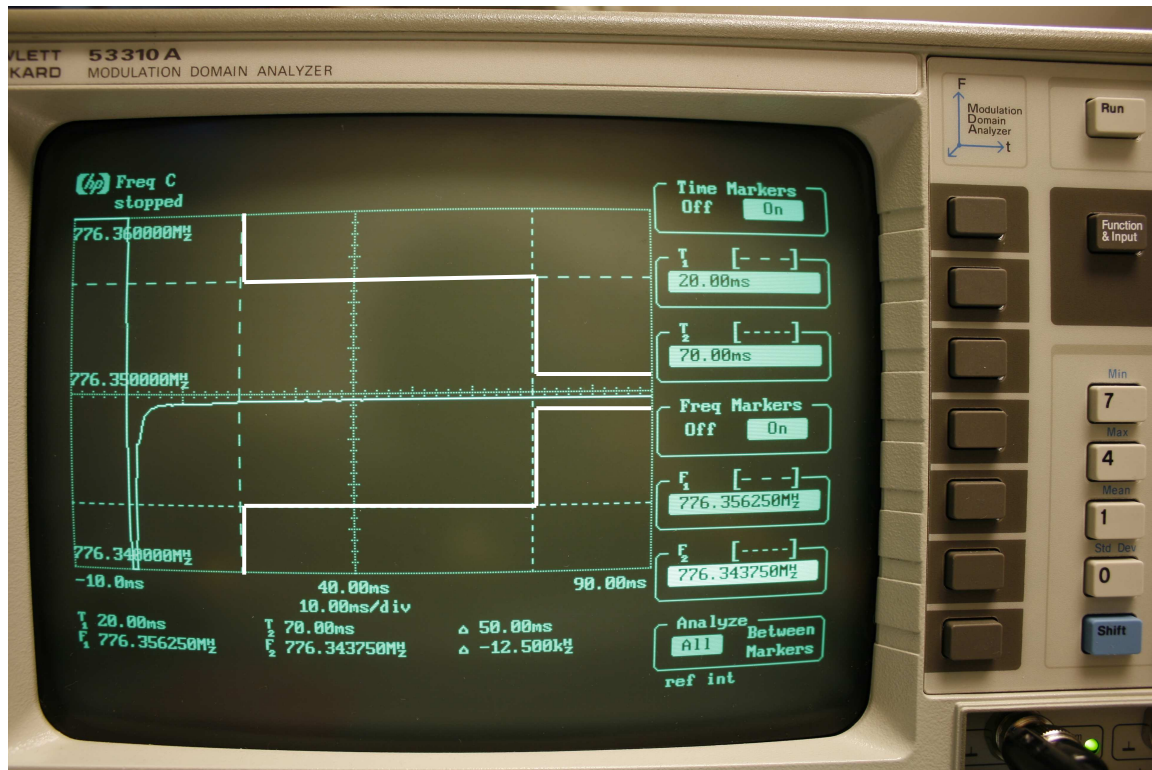
T₁ 20.00ms
F₁ 776.35625MHz

T₂ 70.00ms
F₂ 776.34375MHz

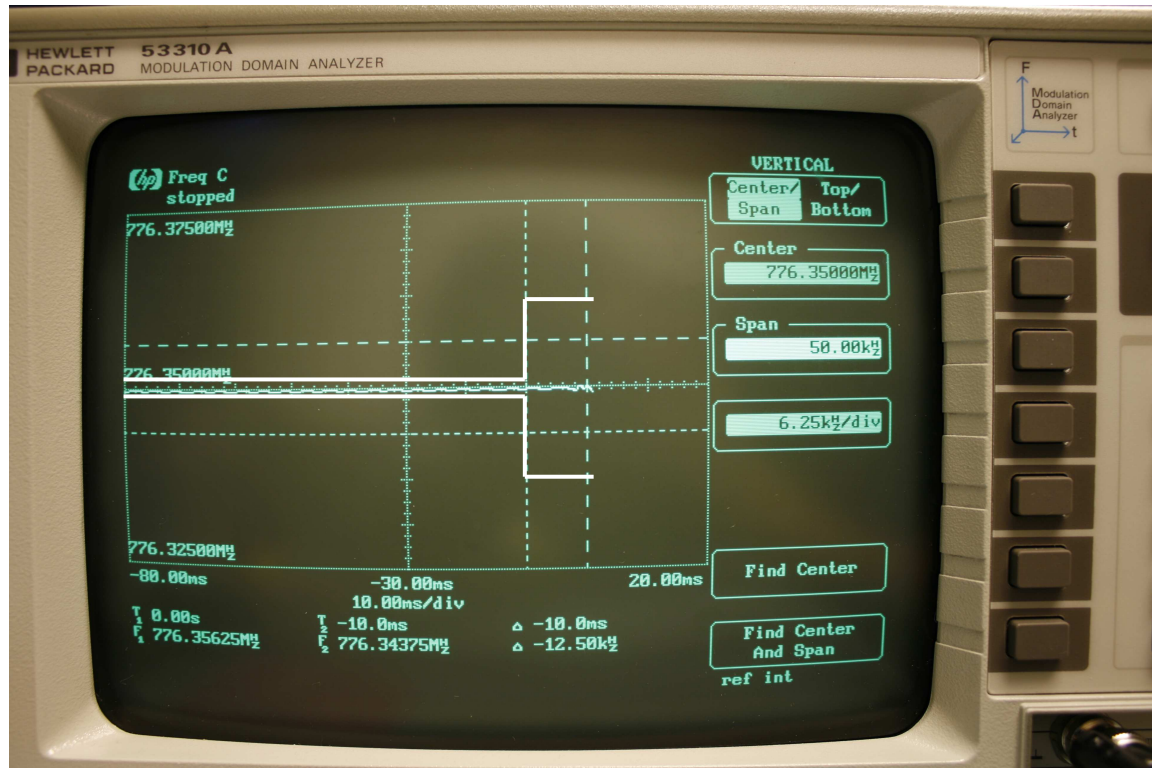
Δ 50.00ms
Δ -12.50kHz

VERTICAL
Center/Top/Bottom
Span
Center 776.3500MHz
Span 50.00kHz
6.25kHz/div
Find Center
Find Center And Span
ref int

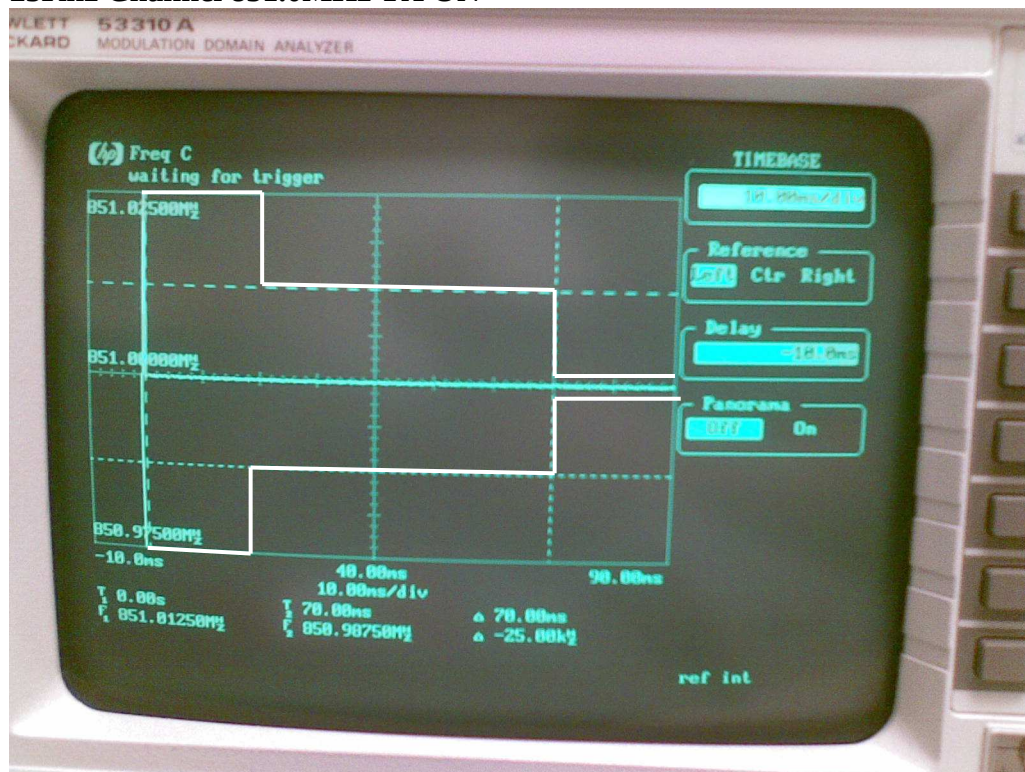
12.5Khz Channel 776.35MHz TX ON ZOOMED



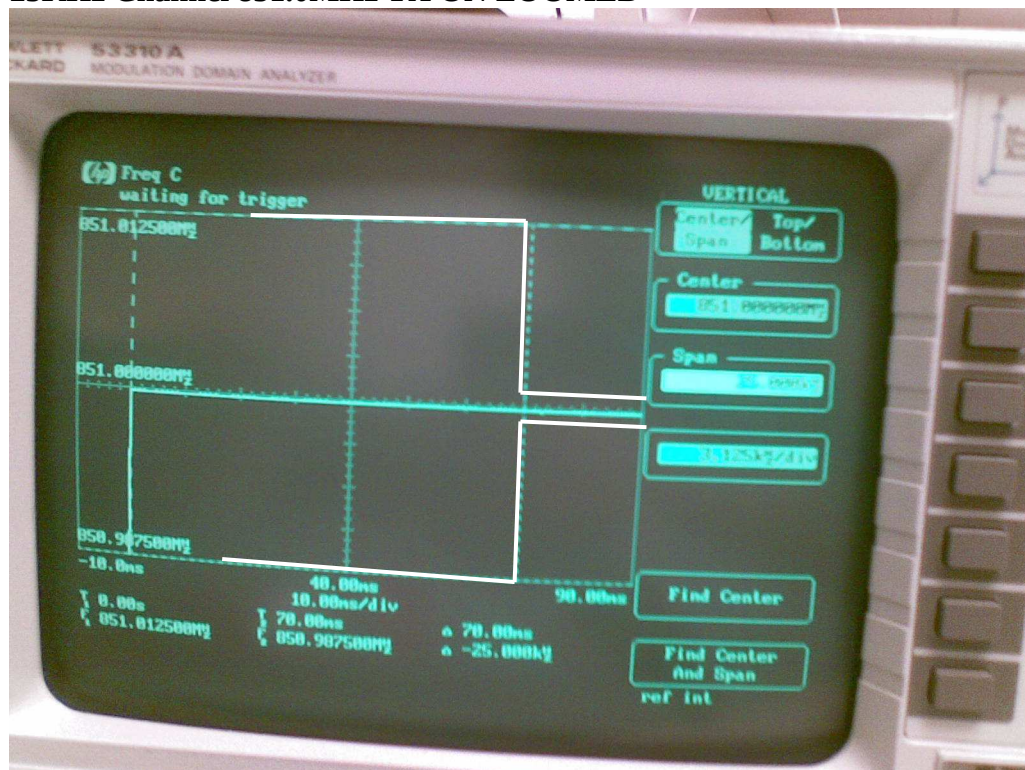
12.5Khz Channel 776.35MHz TX OFF



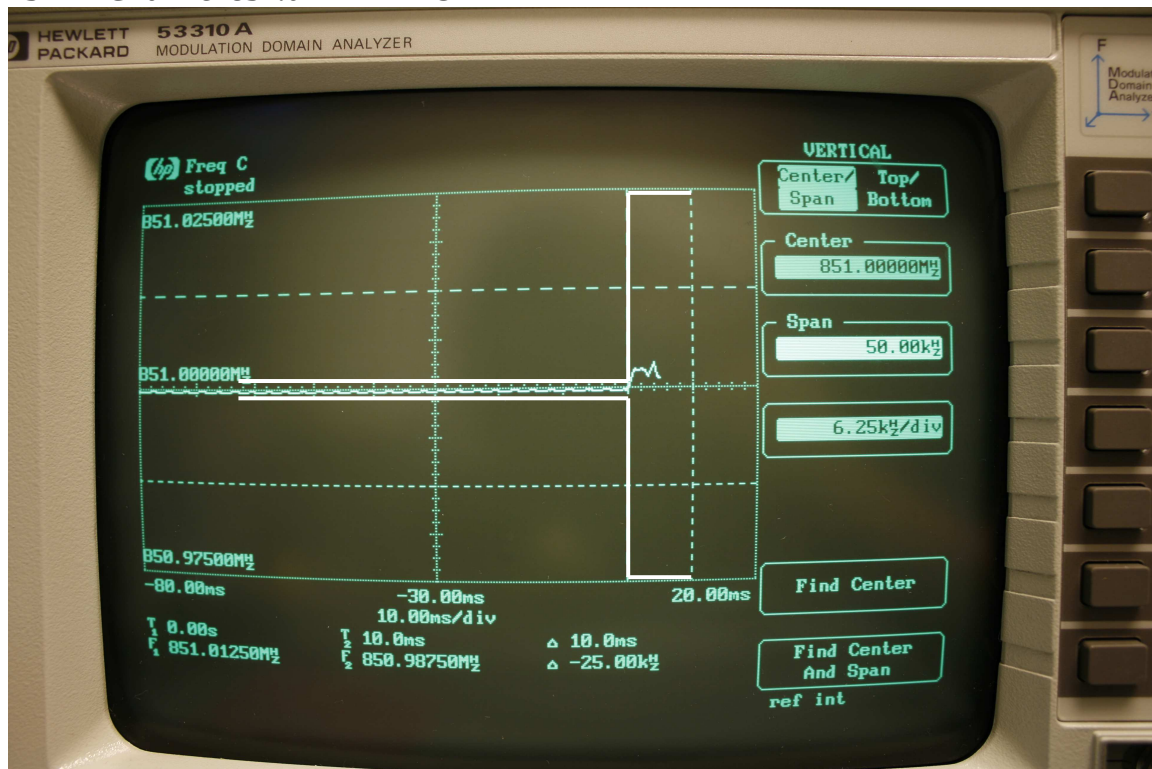
25Khz Channel 851.0MHz TX ON



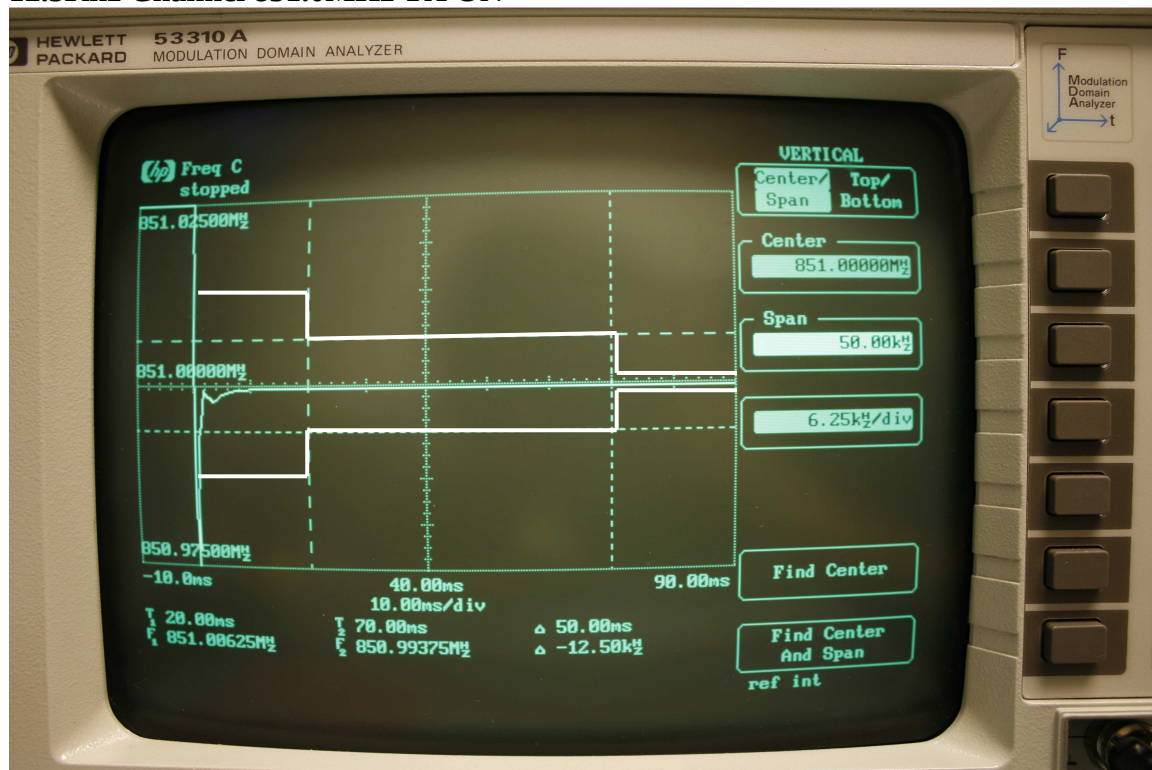
25KHz Channel 851.0MHz TX ON ZOOMED



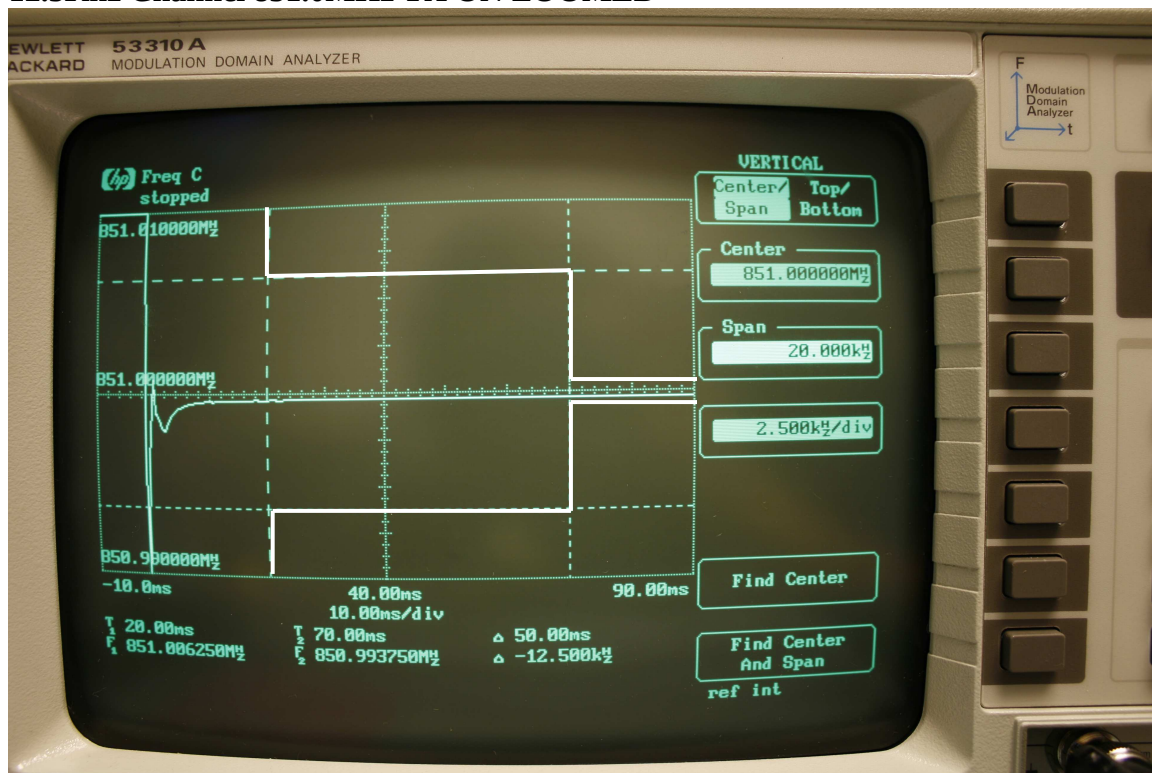
25Khz Channel 851.0MHz TX OFF



12.5Khz Channel 851.0MHz TX ON



12.5Khz Channel 851.0MHz TX ON ZOOMED



12.5Khz Channel 851.0MHz TX OFF

