

Measured Data

Measurement

1. RF Output Power

Test Method: TIA/EIA-603-A 2.2.1

Equipment Used: Rohde & Schwarz NRT Power Meter (01-11-12), Rohde & Schwarz NRT-Z14 Power Sensor (01-11-12), Hewlett-Packard 6032A DC Power Supply (08-17-11)

DC Power
SupplyEquipment
Under
TestPower
SensorPower
Meter**2. Audio Frequency Response**

Test Method: TIA/EIA-603-A 2.2.6

Equipment Used: Agilent 8920B RF Communication Test Set Modulation Analyzer (03-19-11), Hewlett Packard 35670A Signal Analyzer (03-19-11). No filters were used on the modulation analyzer.

Equipment
Under
Test

Attenuator

Modulation
AnalyzerSignal
Analyzer**3. Low Pass Filter Response**

Test Method: TIA/EIA-603-A 2.2.15

Equipment Used: Agilent 8920B RF Communication Test Set Modulation Analyzer (03-19-11), Hewlett Packard 35670A Signal Analyzer (03-19-11). No filters were used on the modulation analyzer.

Equipment
Under
Test

Attenuator

Modulation
AnalyzerSignal
Analyzer

4. **Occupied Bandwidth /Emission Mask**

No Modulation

16K0F3E

11K0F3E

8K10F1E

8K10F1D

Test Method: TIA/EIA-603-A 2.2.11

Equipment Used: Tektronix RSA 3308A Real-time Spectrum Analyzer (11-03-10)

Equipment Under Test	Attenuator	Spectrum Analyzer
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5. **Modulation Limiting**

Test Method: TIA/EIA-603-A 2.2.3

Equipment Used: Agilent 8920B RF Communication Test Set Modulation Analyzer (03-19-11),
Agilent 8920B RF Communication Test Set Function Generator (03-19-11)

Function Generator	Equipment Under Test	Attenuator	Modulation Analyzer
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6. **Conducted Spurious Emissions**

Test Method: TIA/EIA-603-A 2.2.13

Equipment Used: Tektronix RSA 3308A Real-time Spectrum Analyzer (11-03-10)

Equipment Under Test	Attenuator	Carrier Filter	Spectrum Analyzer
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7. **Frequency Stability**

Test Method: TIA/EIA-603-A 2.2.2

Equipment Used: Agilent 8920B RF Communication Test Set (03-19-11)

Environmental Chamber	
Equipment Under Test	Test Set

8. Transient Frequency Behavior

Test Method: TIA/EIA-603-A 2.2.19.3

Equipment Used: Agilent 8920B RF Communication Test Set (03-19-11), Tektronix MSO4104 Scope (01-11-11), Rohde & Schwarz SMB100A Signal generator (09-14-10)

RF
GeneratorEquipment
Under
Test

Attenuator

Directional
Coupler

Combiner

RF
Detector

Scope

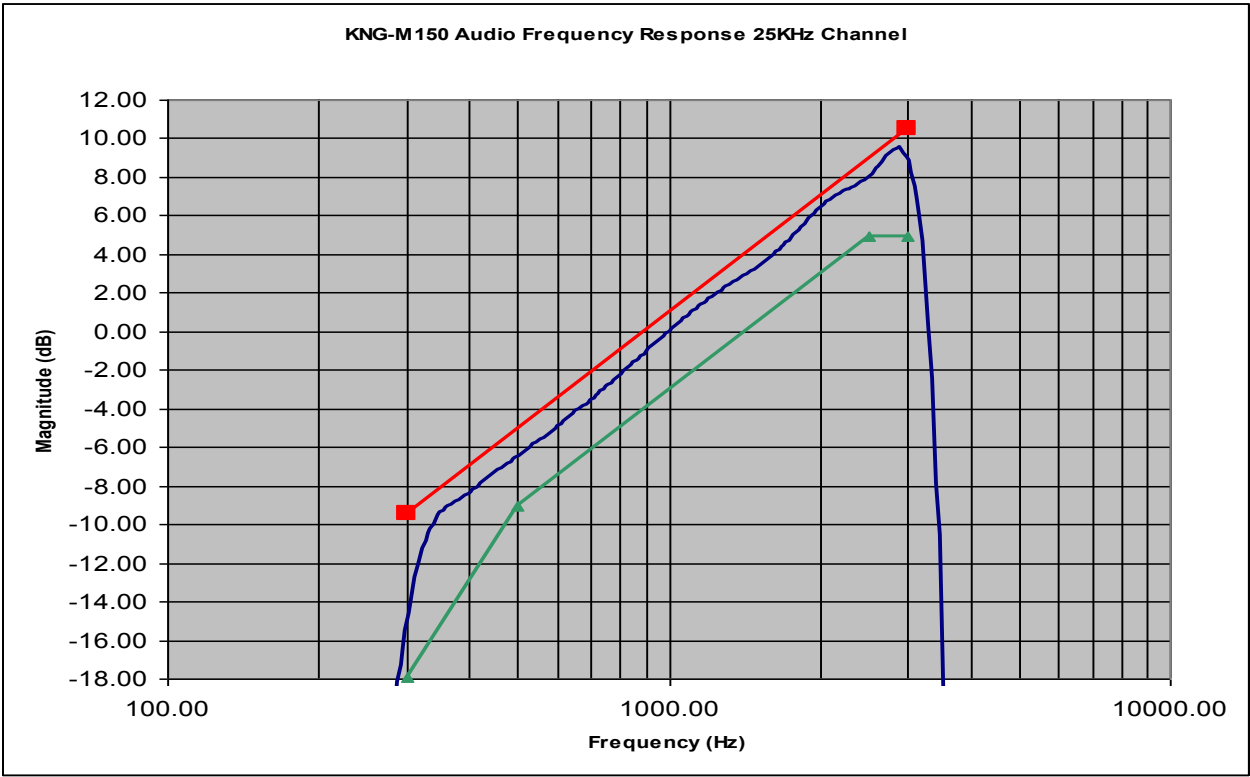
Test Set

#1 RF Output Power

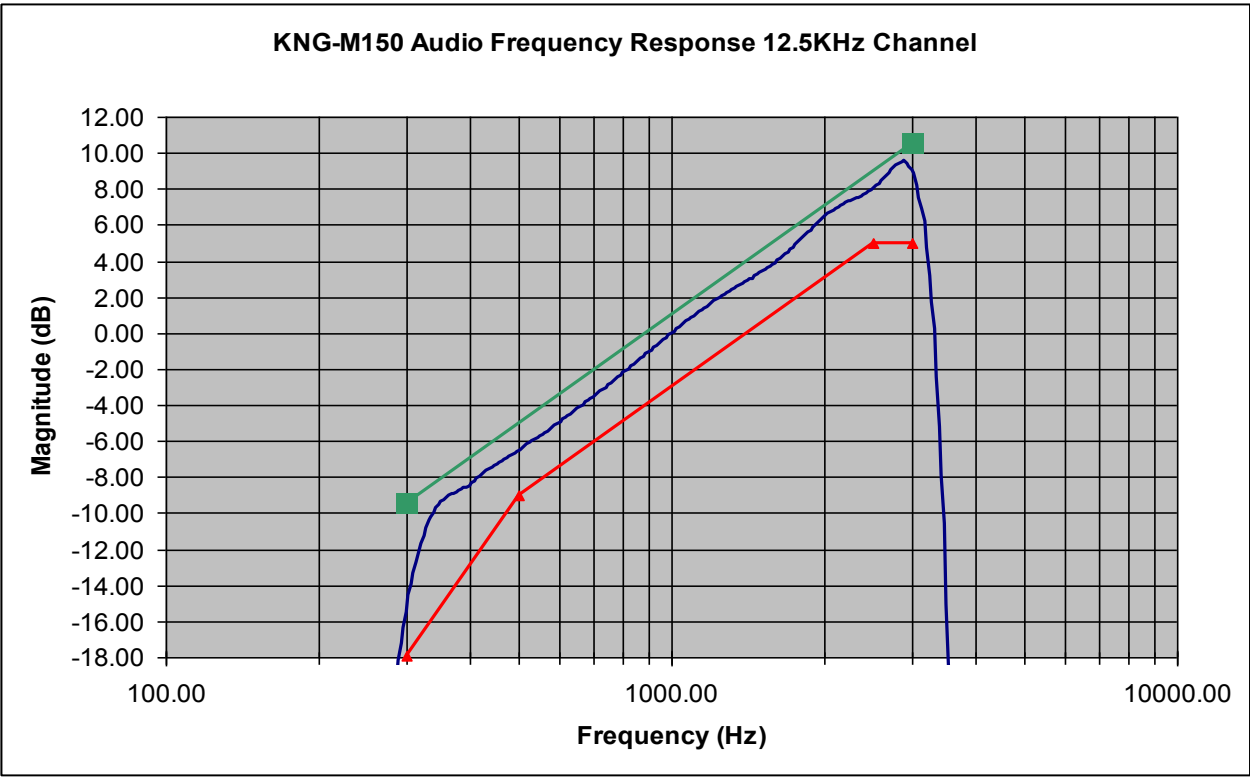
Frequency (MHz)	Power (Watts)	Voltage (Volts)	Current (PA Device) (Amperes)
136.00	119.1	13.4	18.9
153.00	120	13.4	18.7
163.00	120	13.4	19.2
174.00	120	13.4	19.4

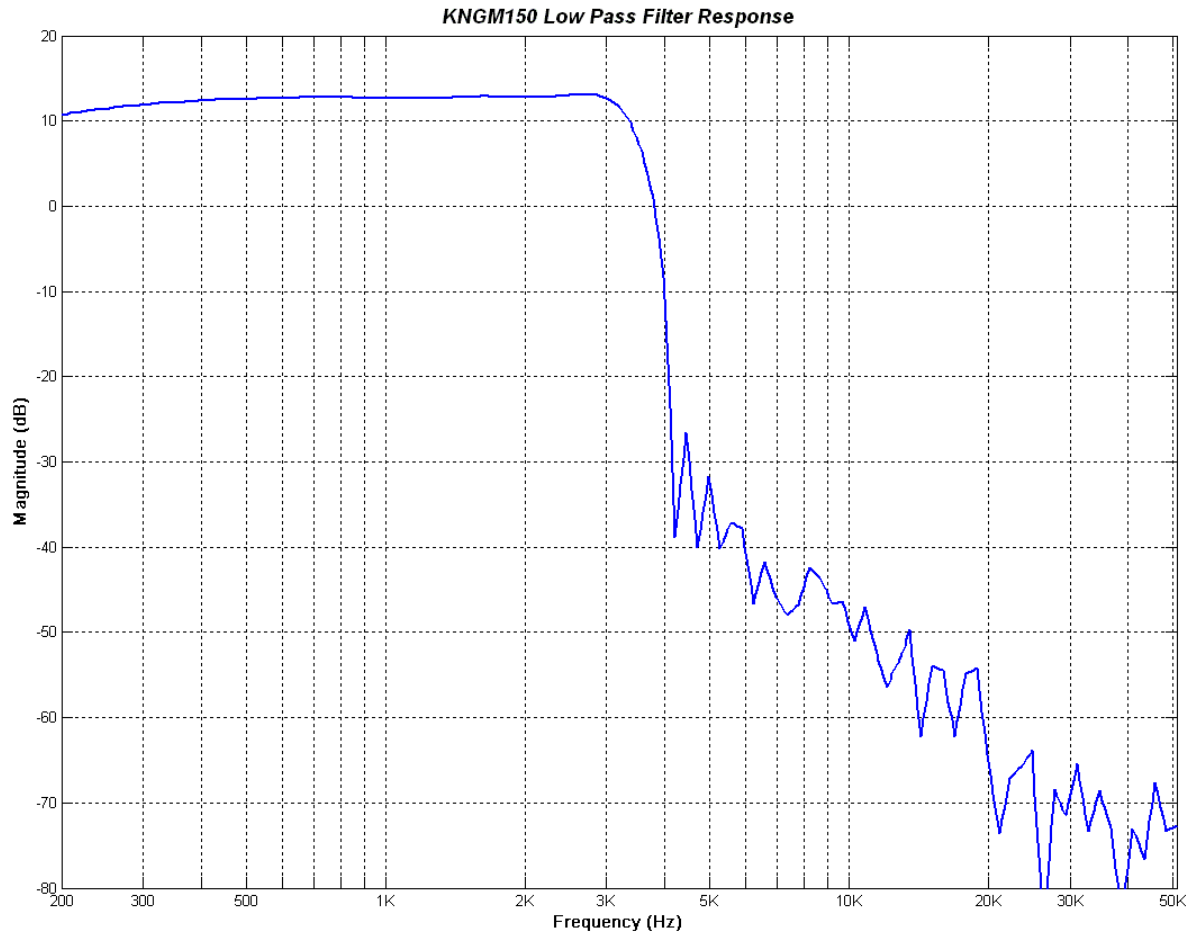
#2 Audio Frequency Response

25KHz TX Audio Response 163MHz

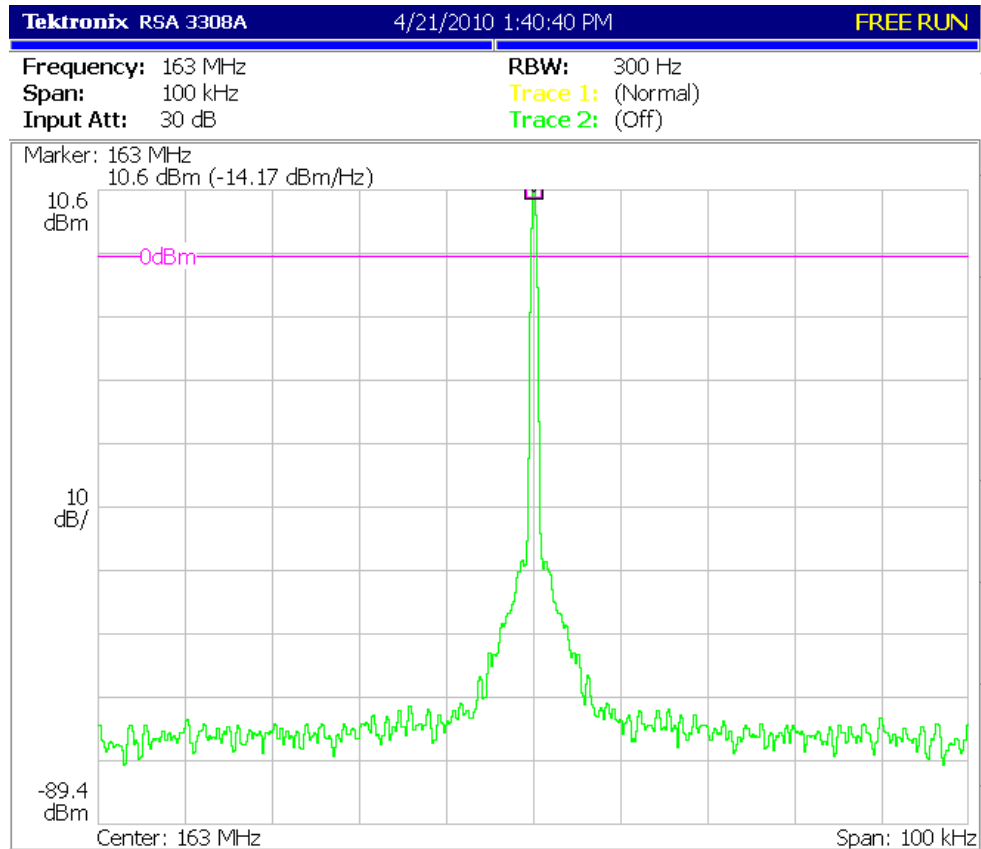


12.5KHz TX Audio Response 163MHz

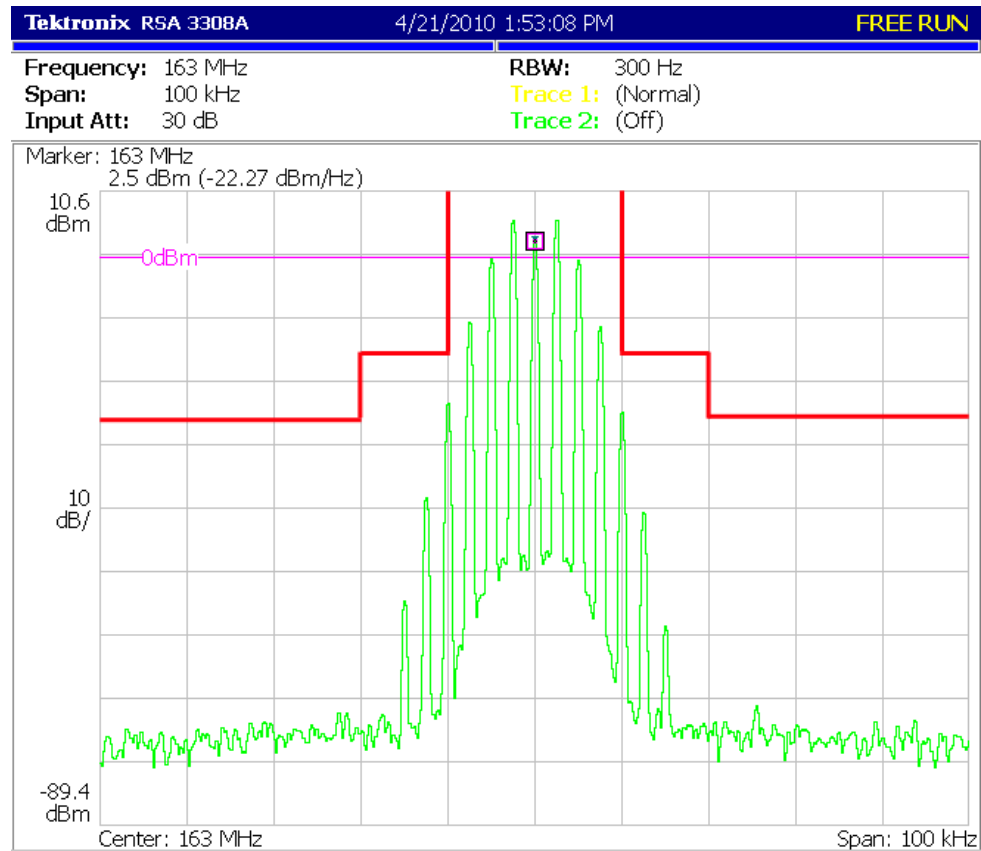


#3 Low Pass Filter Response

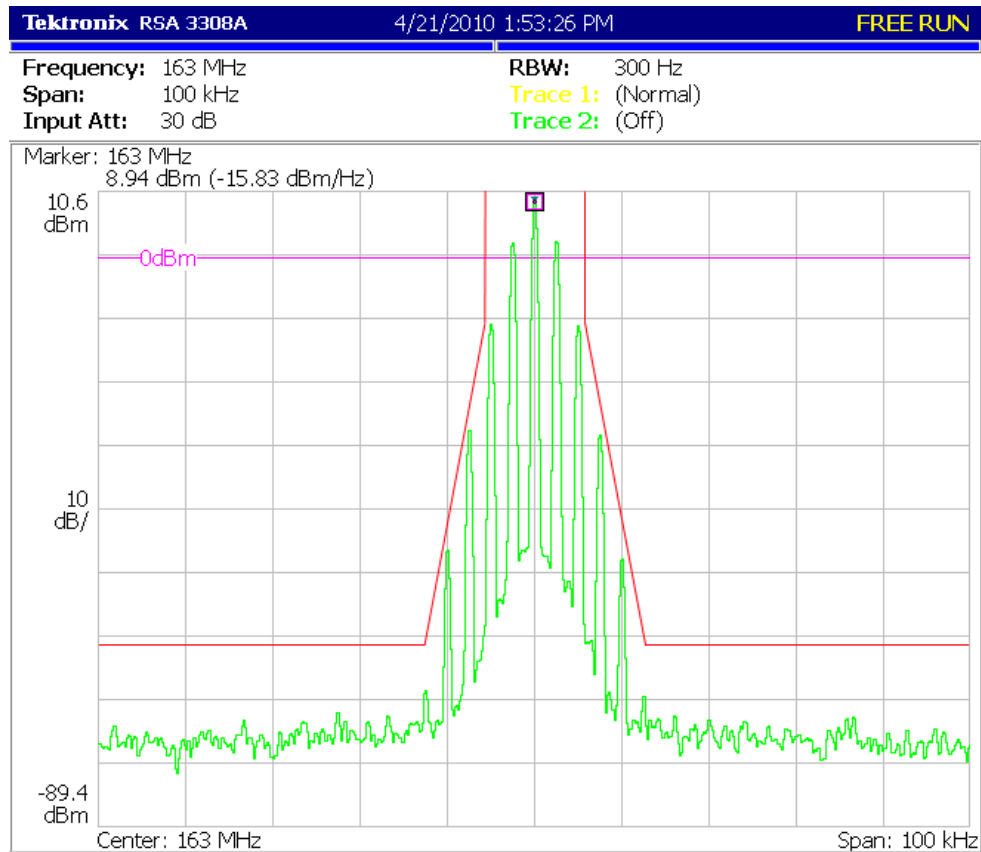
#4 Occupied Bandwidth No Modulation



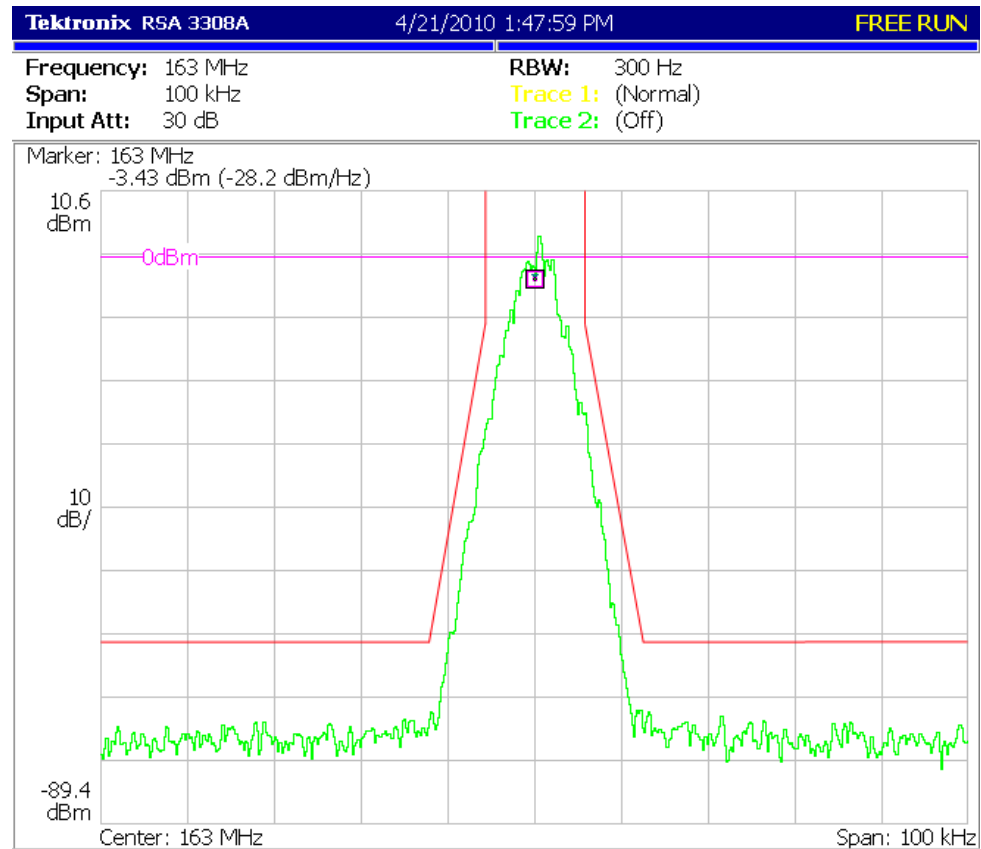
#4 Occupied Bandwidth Analog Voice 16K0F3E Mask B



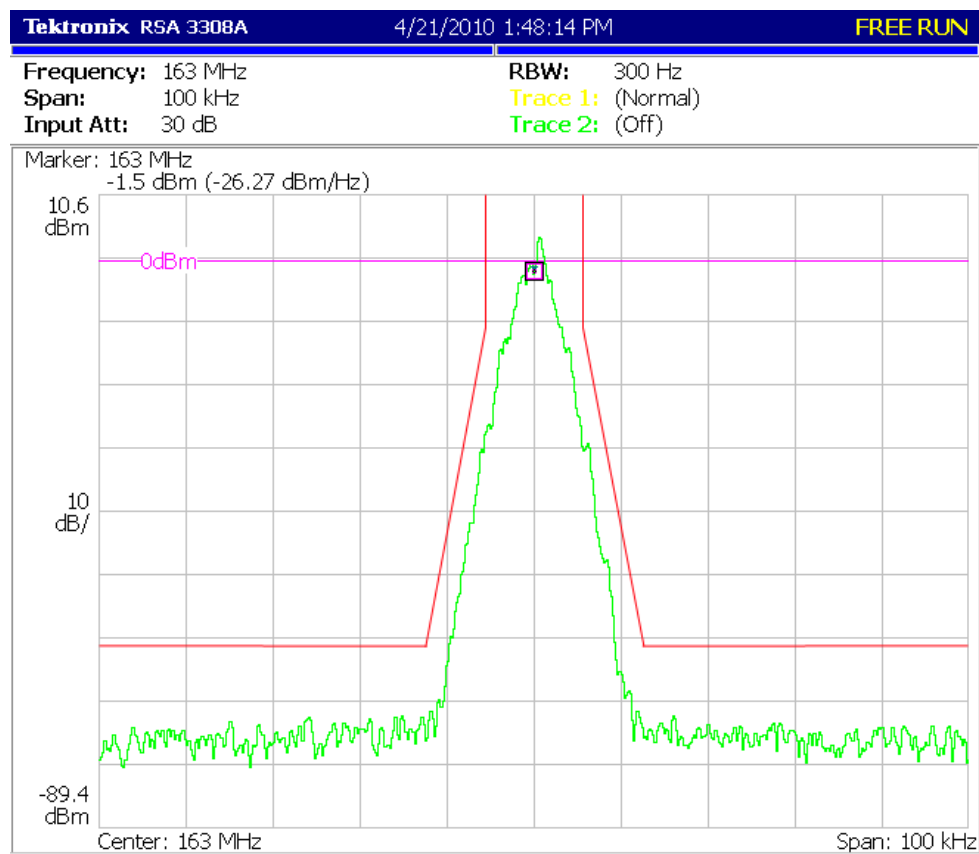
#4 Occupied Bandwidth Analog Voice 11K0F3E Mask D



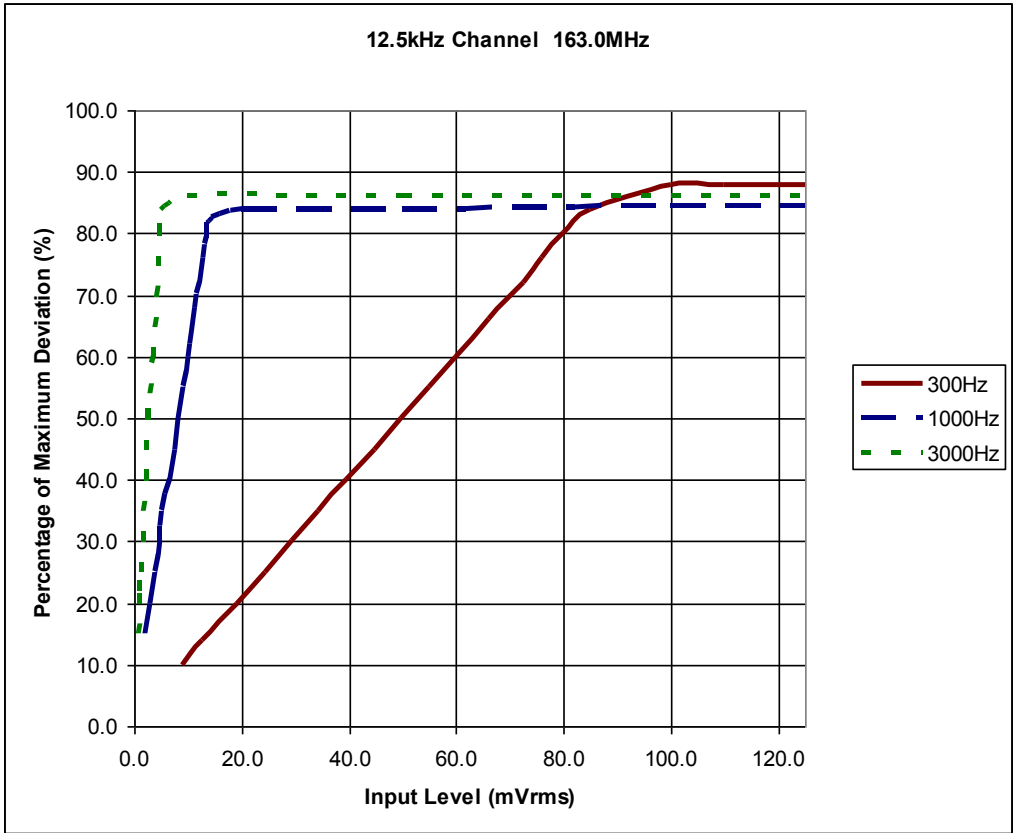
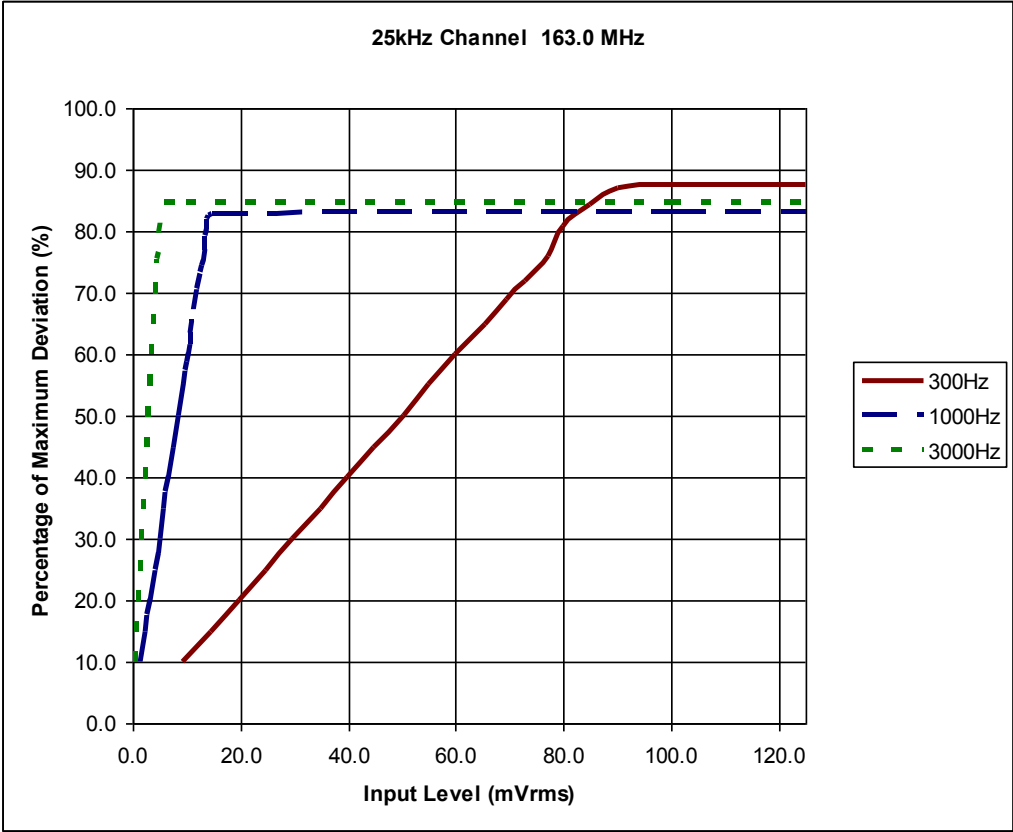
#4 Occupied Bandwidth Digital Voice 8K10F1E Mask D



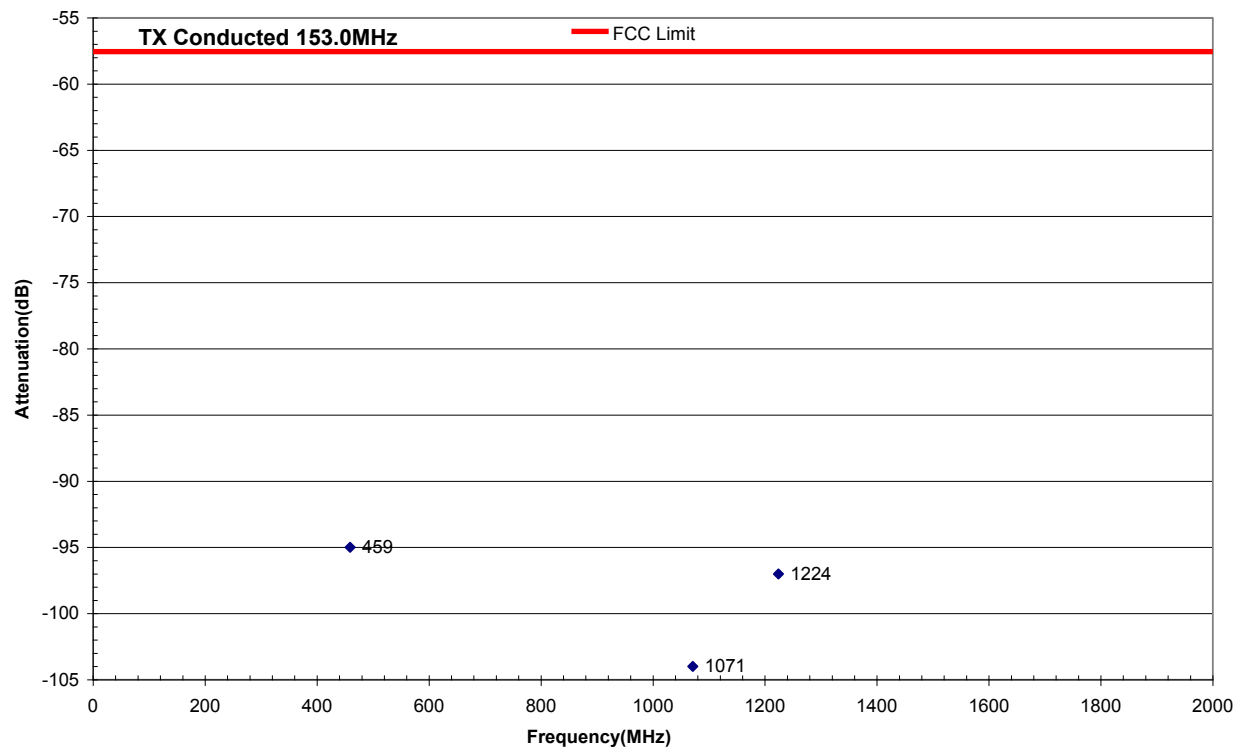
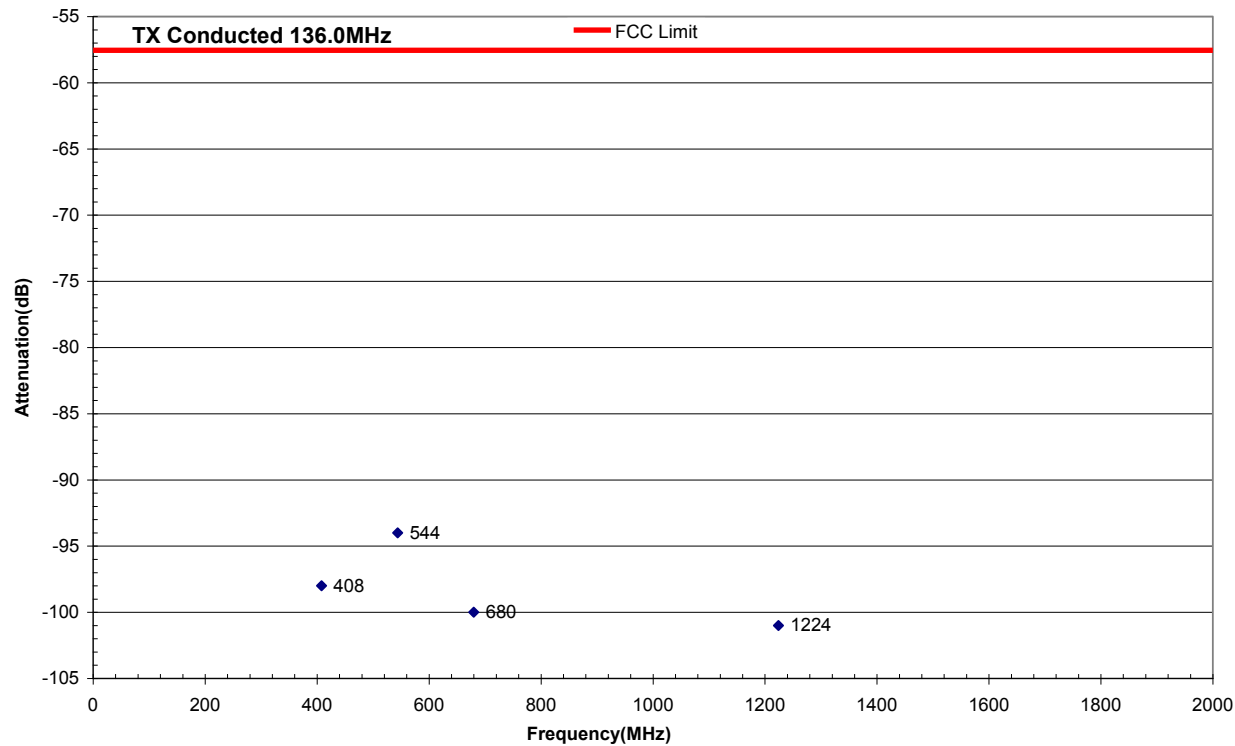
#4 Occupied Bandwidth Digital Data 8K10F1D Mask D

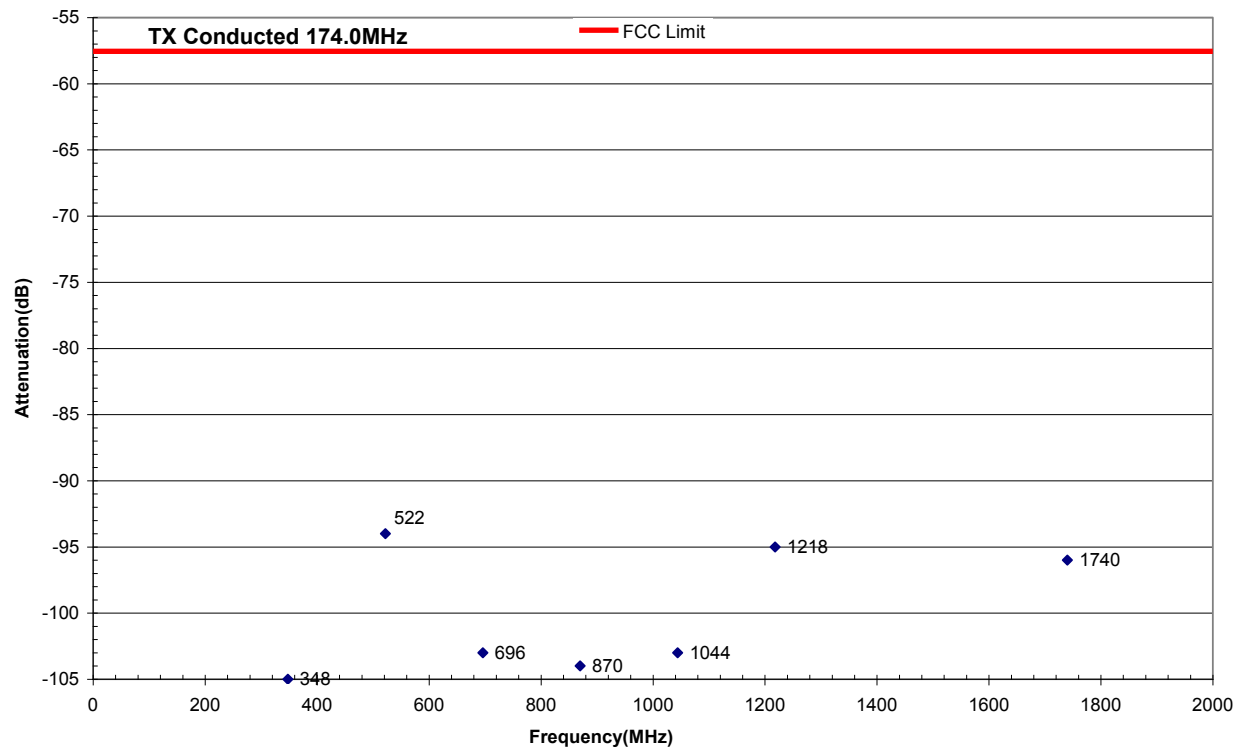
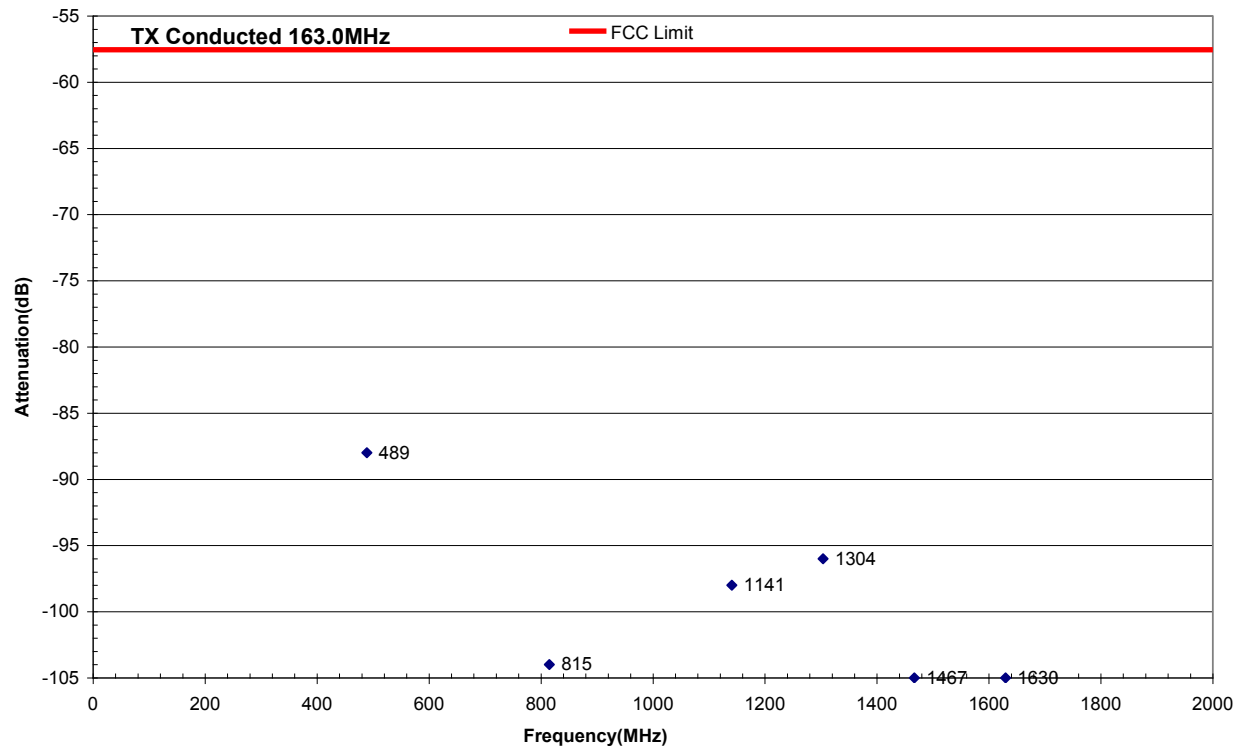


#5 Modulation Limiting



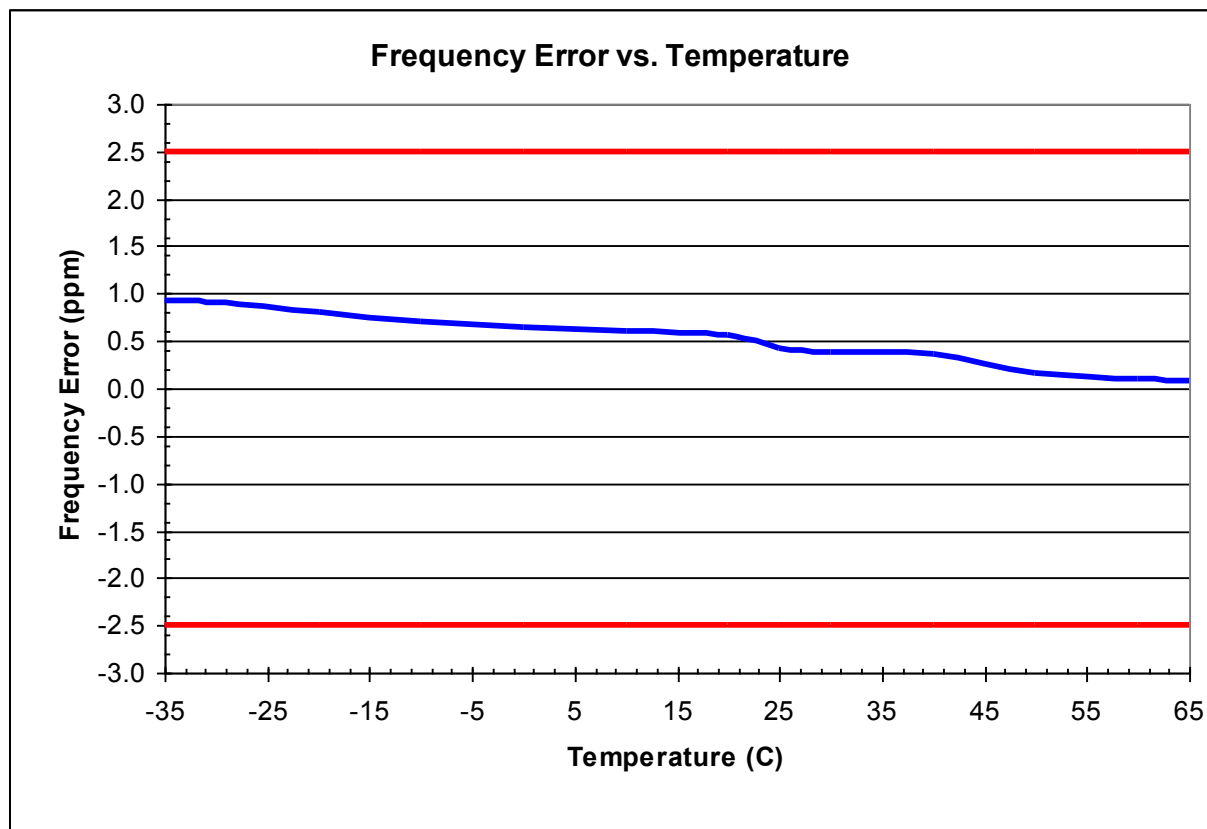
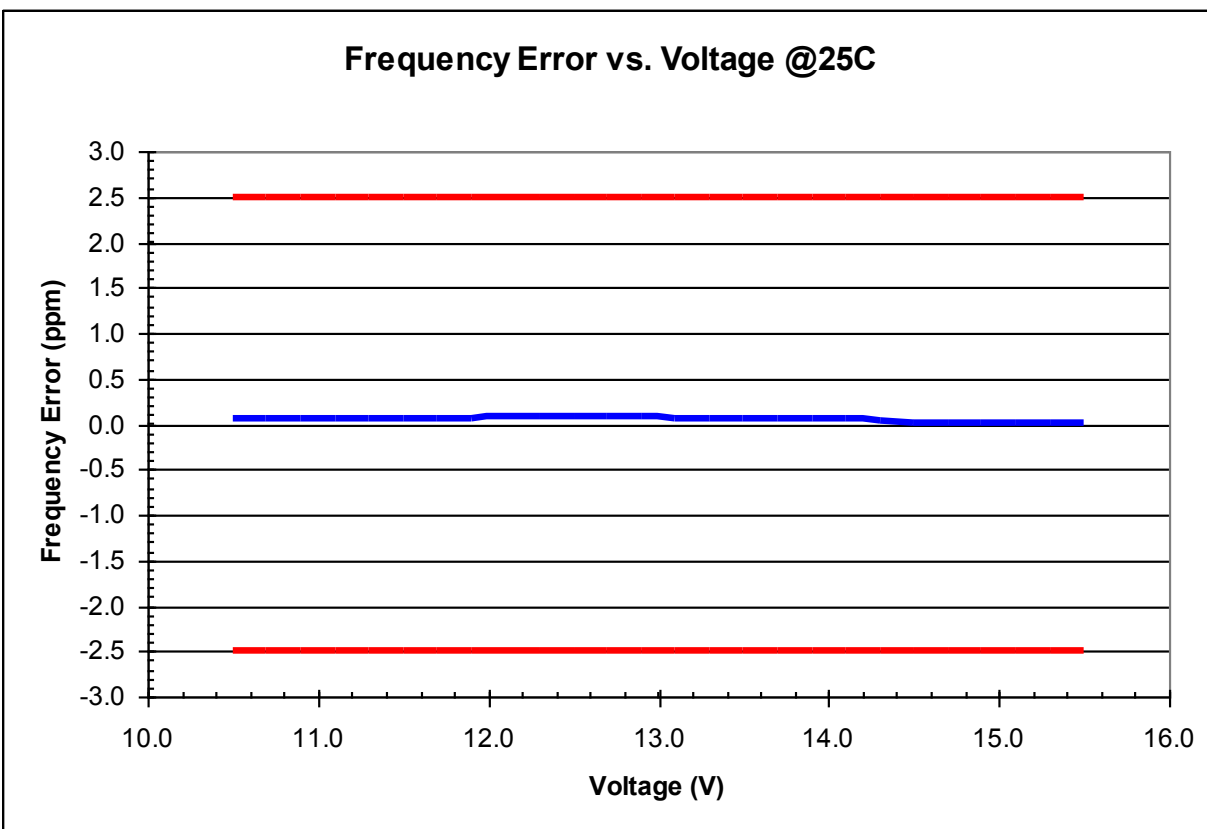
#6 Conducted Spurious Emissions





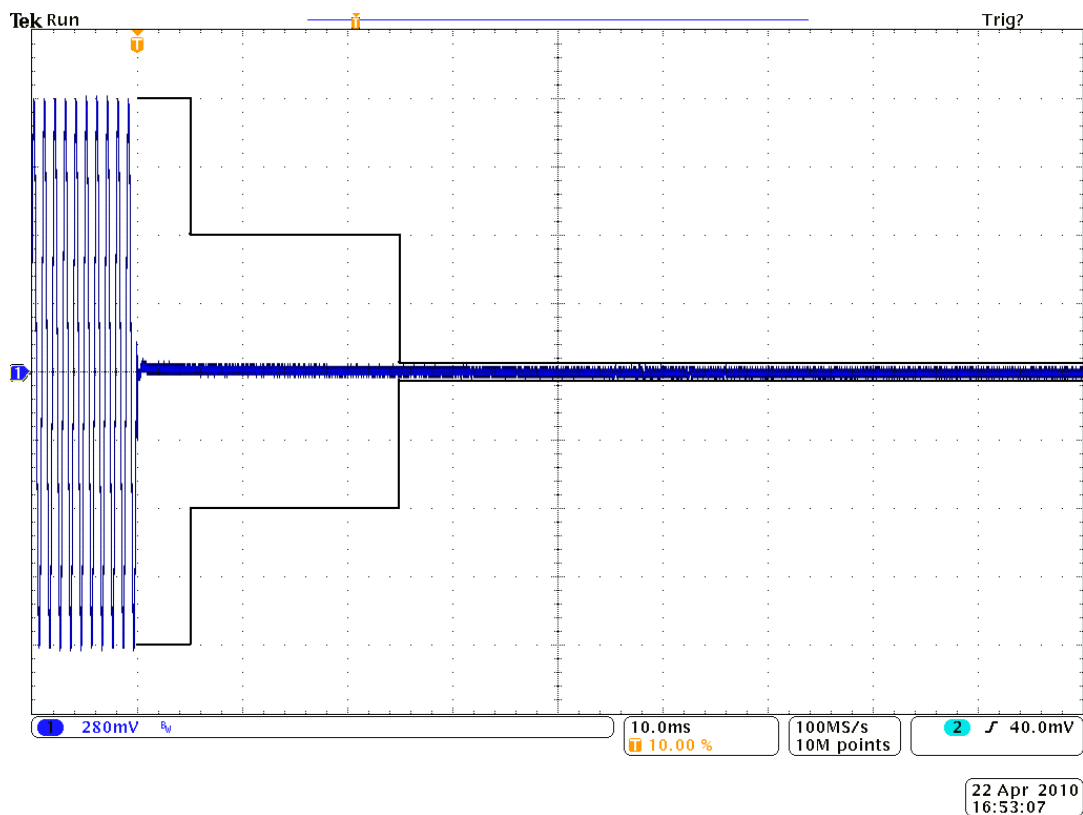
#7 Frequency Stability

Channel Frequency 163 MHz

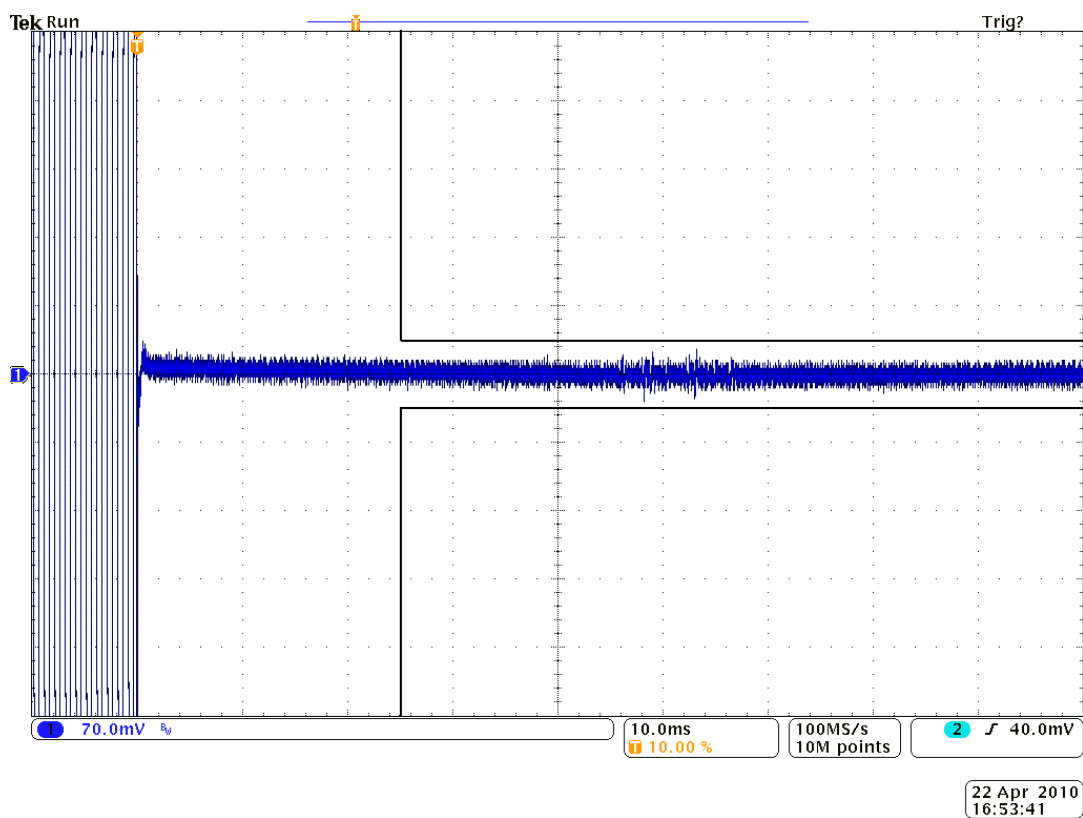


#8 Transmitter Transient Frequency Behavior

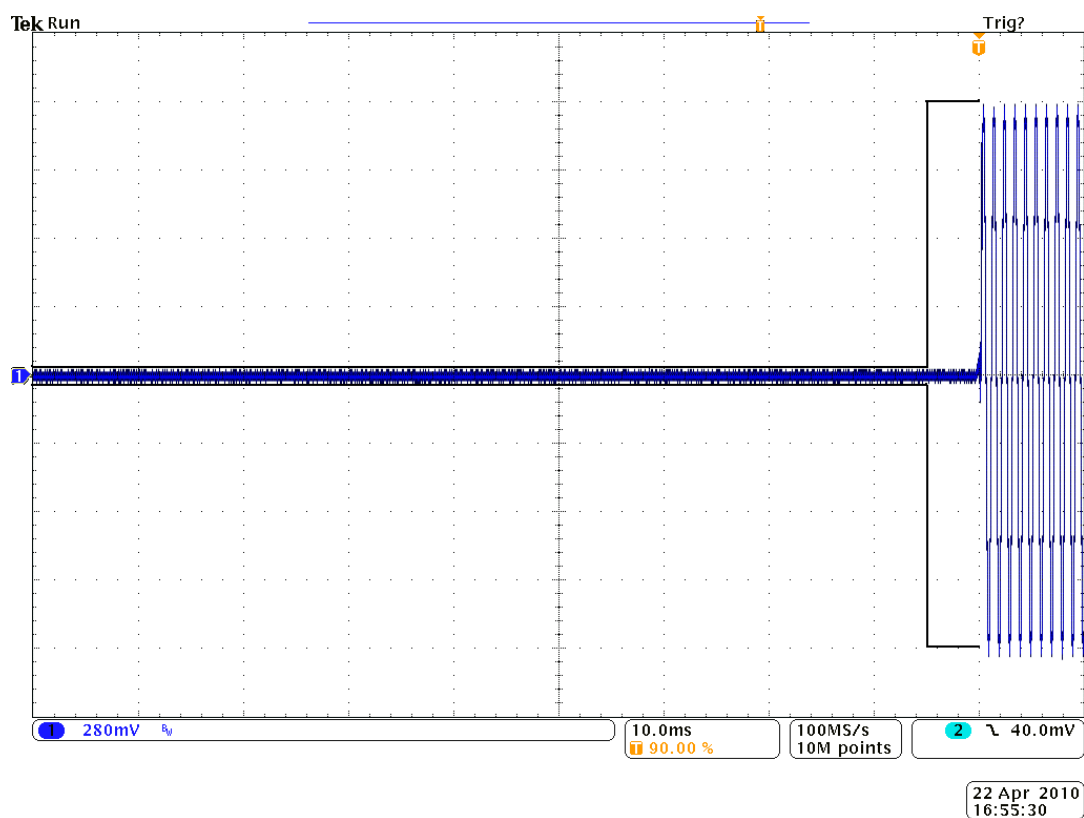
25Khz Channel 153.0MHz TX ON



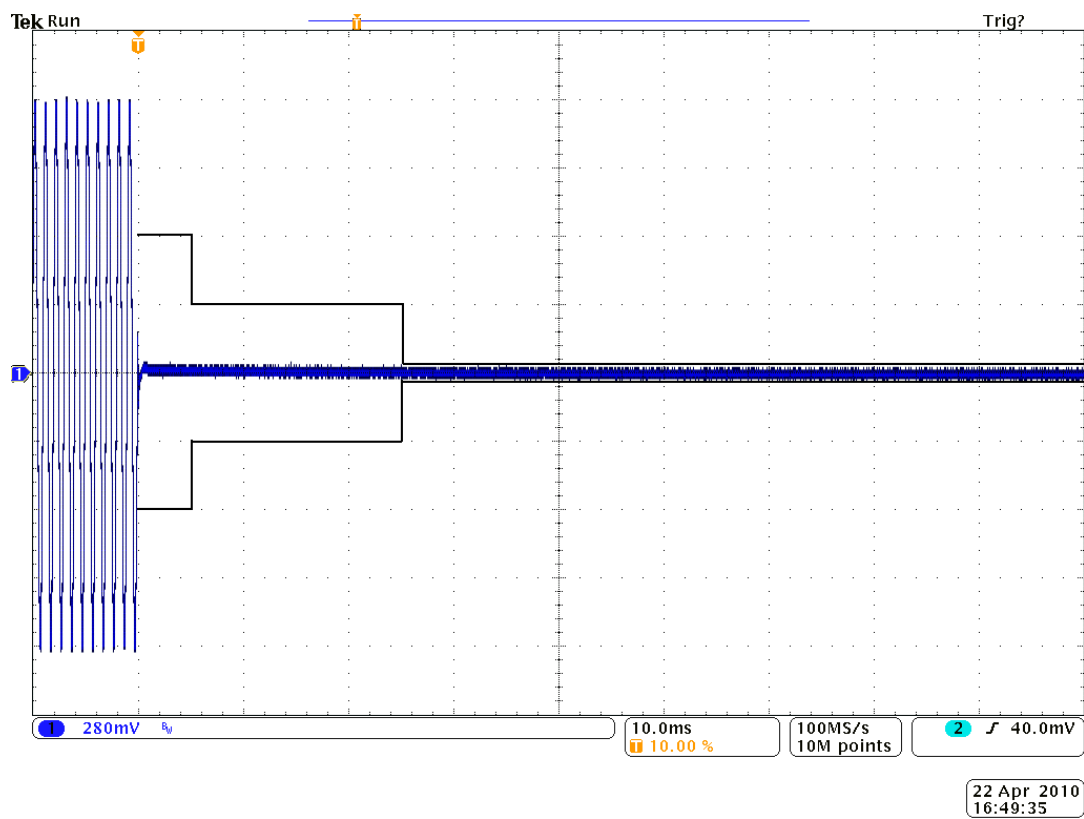
25KHz Channel 153.0MHz TX ON ZOOMED

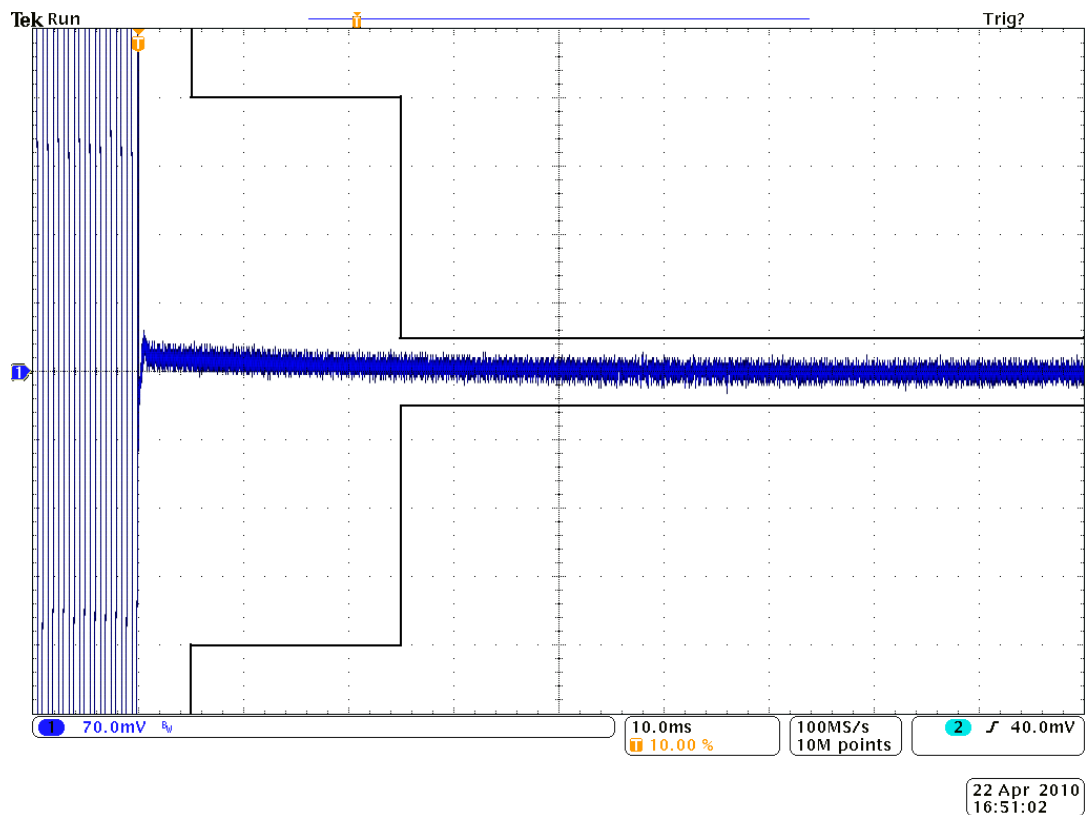


25Khz Channel 153.0MHz TX OFF



12.5Khz Channel 153.0MHz TX ON



12.5Khz Channel 153.0MHz TX ON ZOOMED**12.5Khz Channel 153.0MHz TX OFF**