

**INDEX OF SUBMITTED MEASURED DATA**

This exhibit contains the measured data for this equipment as follows:

**EXHIBIT 6A** - RF Power Output (Table)

**EXHIBIT 6B** - Transmit Audio Response (Graph)

**EXHIBIT 6C** - Transmit Audio Post Limiter Lowpass Filter Response (Graph)

**EXHIBIT 6D** - Modulation Limiting Characteristics (4 Graphs)

- 6D-1 - Carrier Squelch Mode
- 6D-2 - Tone Private Line (TPL) Mode
- 6D-3 - Digital Private Line (DPL) Mode
- 6D-4 - Trunking Mode

**EXHIBIT 6E** - Occupied Bandwidth (12 Spectrum Analyzer Plots)

- 6E-1 - 2500 Hz Audio Modulation Only
- 6E-2 - 2500 Hz Audio and TPL Modulation
- 6E-3 - 2500 Hz Audio and DPL Modulation
- 6E-4 - 2500 Hz Audio and Low Speed Trunking Modulation
- 6E-5 - DTMF Modulation Only
- 6E-6 - DTMF Modulation and TPL Modulation
- 6E-7 - DTMF Modulation and DPL Modulation
- 6E-8 - DTMF Modulation and Low Speed Trunking Modulation
- 6E-9 - 2000/3000 Hz FSK Data Modulation Only
- 6E-10 - 2000/3000 Hz FSK Data and TPL Modulation
- 6E-11 - 2000/3000 Hz FSK Data and DPL Modulation
- 6E-12 - 2000/3000 Hz FSK Data and Low Speed Trunking Modulation

**EXHIBIT 6F** - Conducted Spurious Emissions (6 Graphs)

- 6F-1 - 5.5 Watts, 217.000 MHz
- 6F-2 - 5.5 Watts, 219.000 MHz
- 6F-3 - 5.5 Watts, 222.000 MHz
- 6F-4 - 1 Watt, 217.000 MHz
- 6F-5 - 1 Watt, 219.000 MHz
- 6F-6 - 1 Watt, 222.000 MHz

**EXHIBIT 6G** - Radiated Spurious Emissions - (4 Graphs)

- 6G-1 - 5.5 Watts, 219.500 MHz, Horizontal
- 6G-2 - 5.5 Watts, 219.500 MHz, Vertical
- 6G-3 - 1 Watt, 219.500 MHz, Horizontal
- 6G-4 - 1 Watt, 219.500 MHz, Vertical

**EXHIBIT 6H** - Frequency Stability (2 Graphs)

- 6H-1 - Frequency Stability vs. Temperature
- 6H-2 - Frequency Stability vs. Voltage

**RF OUTPUT DATA**

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device, pursuant to 47 CFR 2.1033(c)(8) and 2.1046.

**HIGH POWER SETTING, FREQUENCY 217.000 MHz**

Measured RF Output Power:	5.51 Watts
Measured DC Voltage:	7.01 Volts
Measured DC Input Current:	1.54 Amperes
Measured DC Input Power:	10.80 Watts

**LOW POWER SETTING, FREQUENCY 217.000 MHz**

Measured RF Output Power:	1.01 Watt
Measured DC Voltage:	7.37 Volts
Measured DC Input Current:	0.61 Amperes
Measured DC Input Power:	4.50 Watts

**HIGH POWER SETTING, FREQUENCY 219.500 MHz**

Measured RF Output Power:	5.50 Watts
Measured DC Voltage:	7.00 Volts
Measured DC Input Current:	1.53 Amperes
Measured DC Input Power:	10.71 Watts

**LOW POWER SETTING, FREQUENCY 219.500 MHz**

Measured RF Output Power:	1.02 Watt
Measured DC Voltage:	7.38 Volts
Measured DC Input Current:	0.61 Amperes
Measured DC Input Power:	4.50 Watts

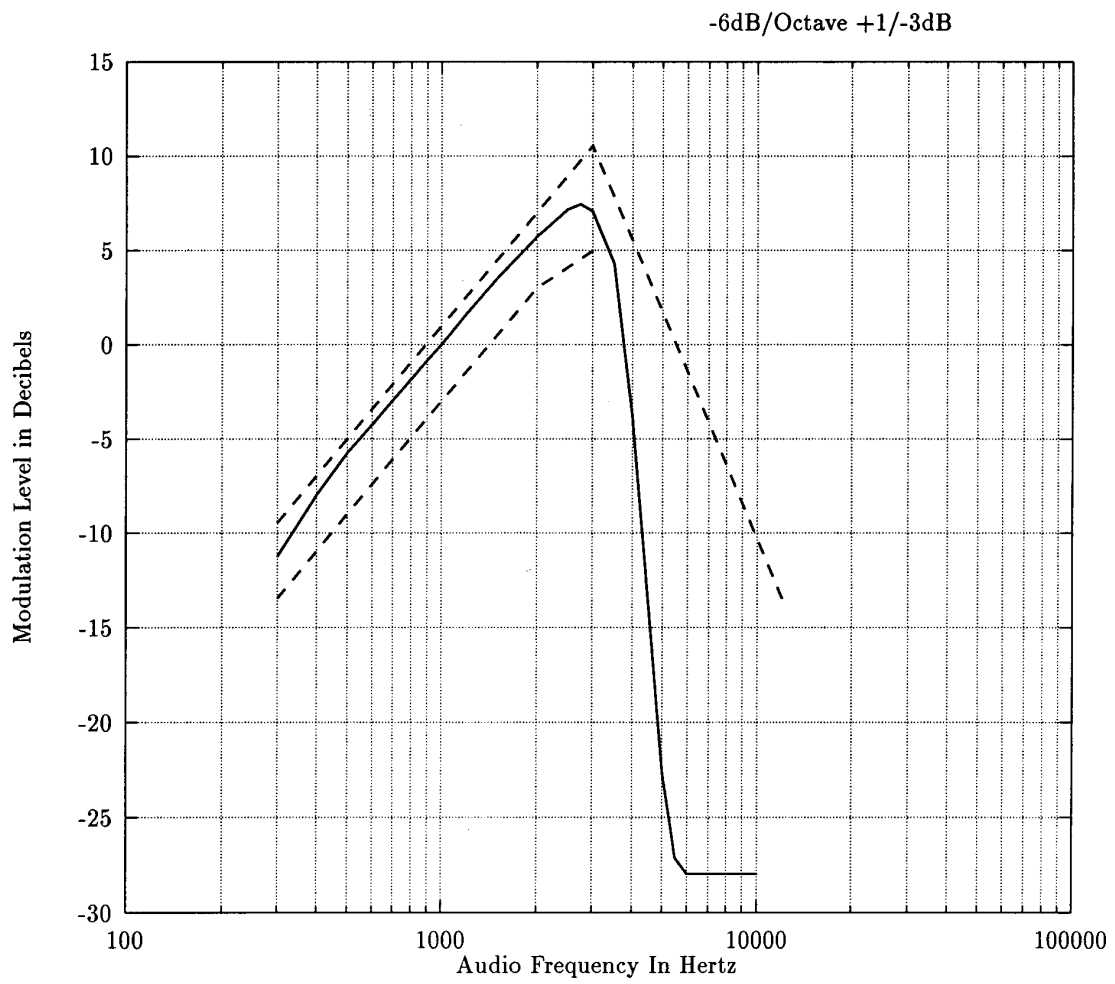
**HIGH POWER SETTING, FREQUENCY 222.000 MHz**

Measured RF Output Power:	5.52 Watts
Measured DC Voltage:	7.28 Volts
Measured DC Input Current:	1.55 Amperes
Measured DC Input Power:	11.28 Watts

**LOW POWER SETTING, FREQUENCY 222.000 MHz**

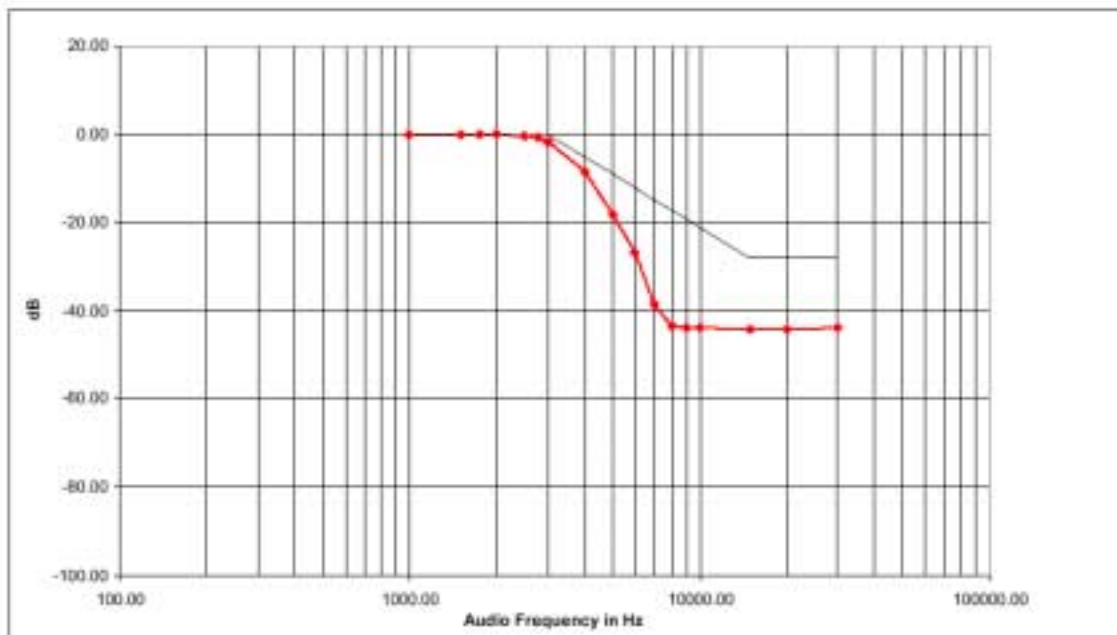
Measured RF Output Power:	1.02 Watt
Measured DC Voltage:	7.41 Volts
Measured DC Input Current:	0.61 Amperes
Measured DC Input Power:	4.52 Watts

TRANSMIT AUDIO RESPONSE

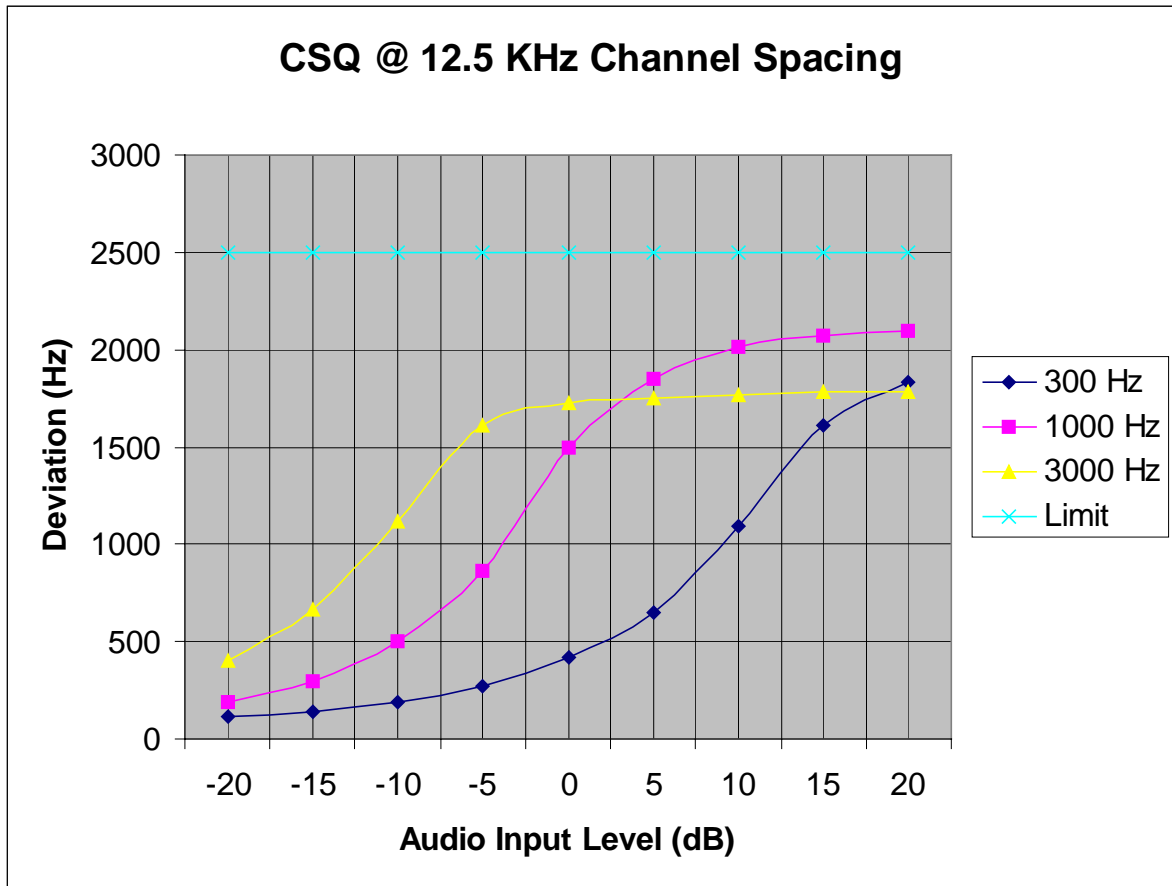


**POST-LIMITER LOWPASS FILTER RESPONSE**

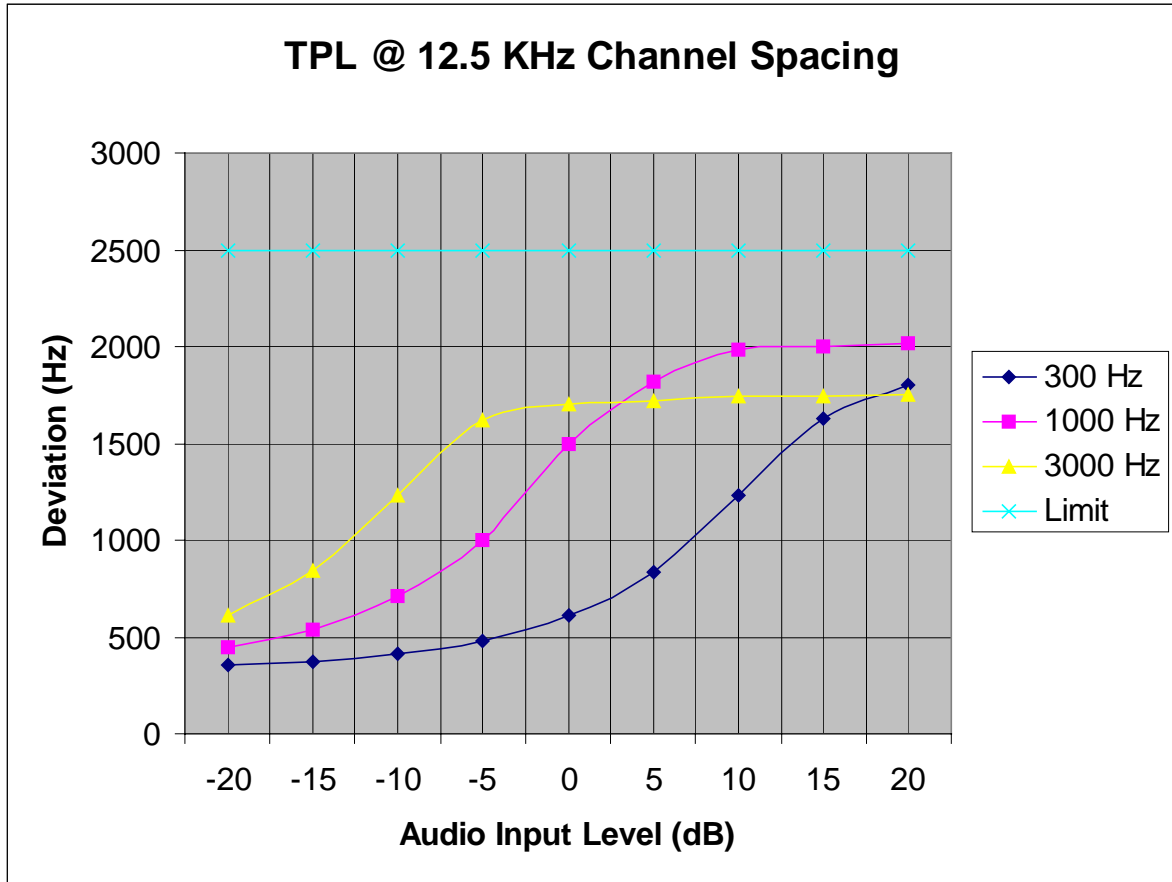
12.5 kHz Channel Spacing



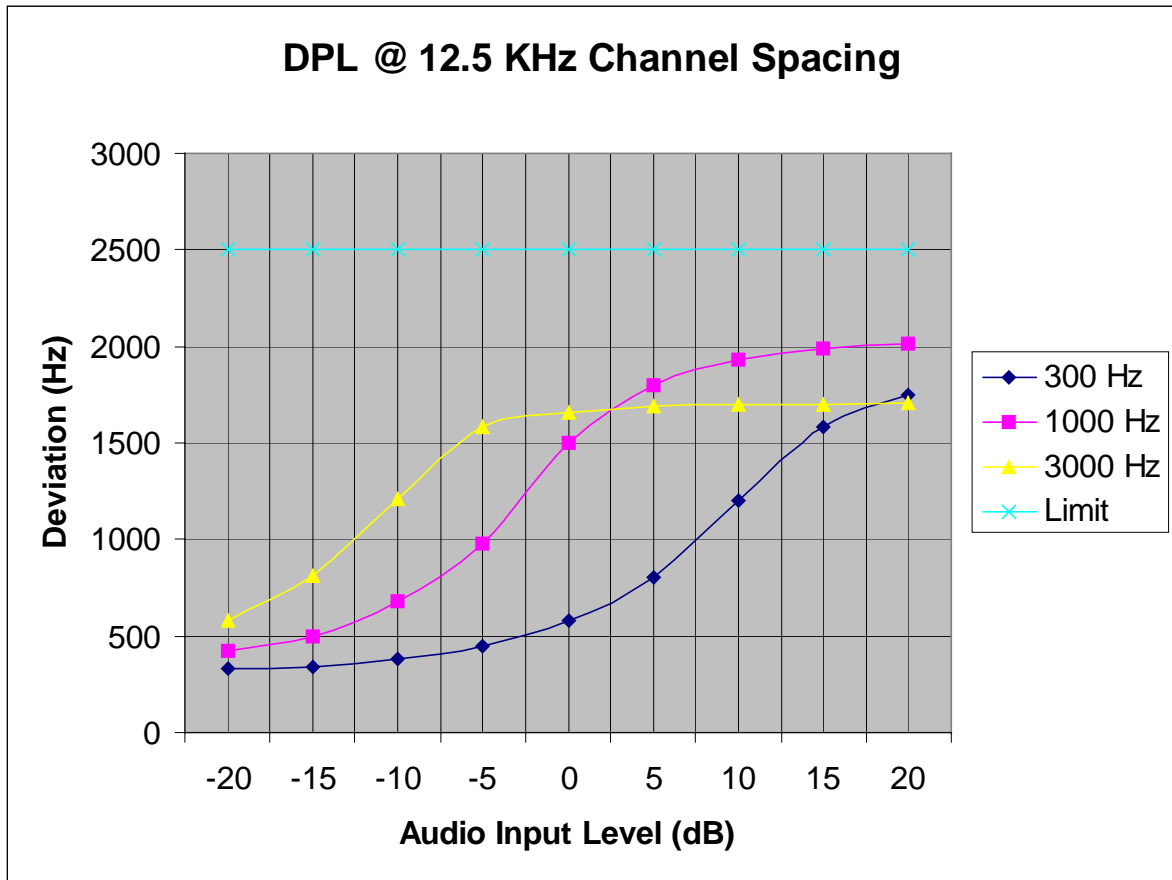
MODULATION LIMITING CHARACTERISTIC  
CARRIER SQUELCH MODE



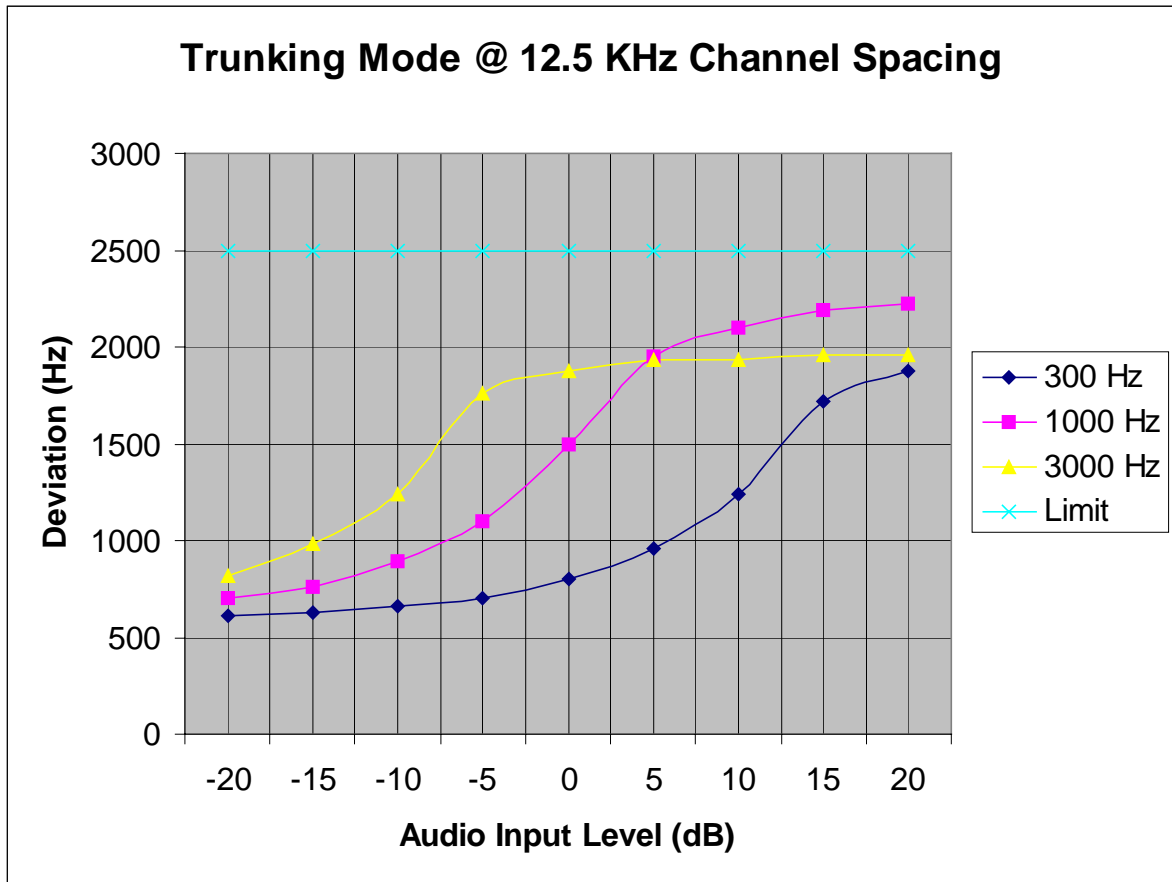
MODULATION LIMITING CHARACTERISTIC  
TONE PL MODE



MODULATION LIMITING CHARACTERISTIC  
DPL MODE

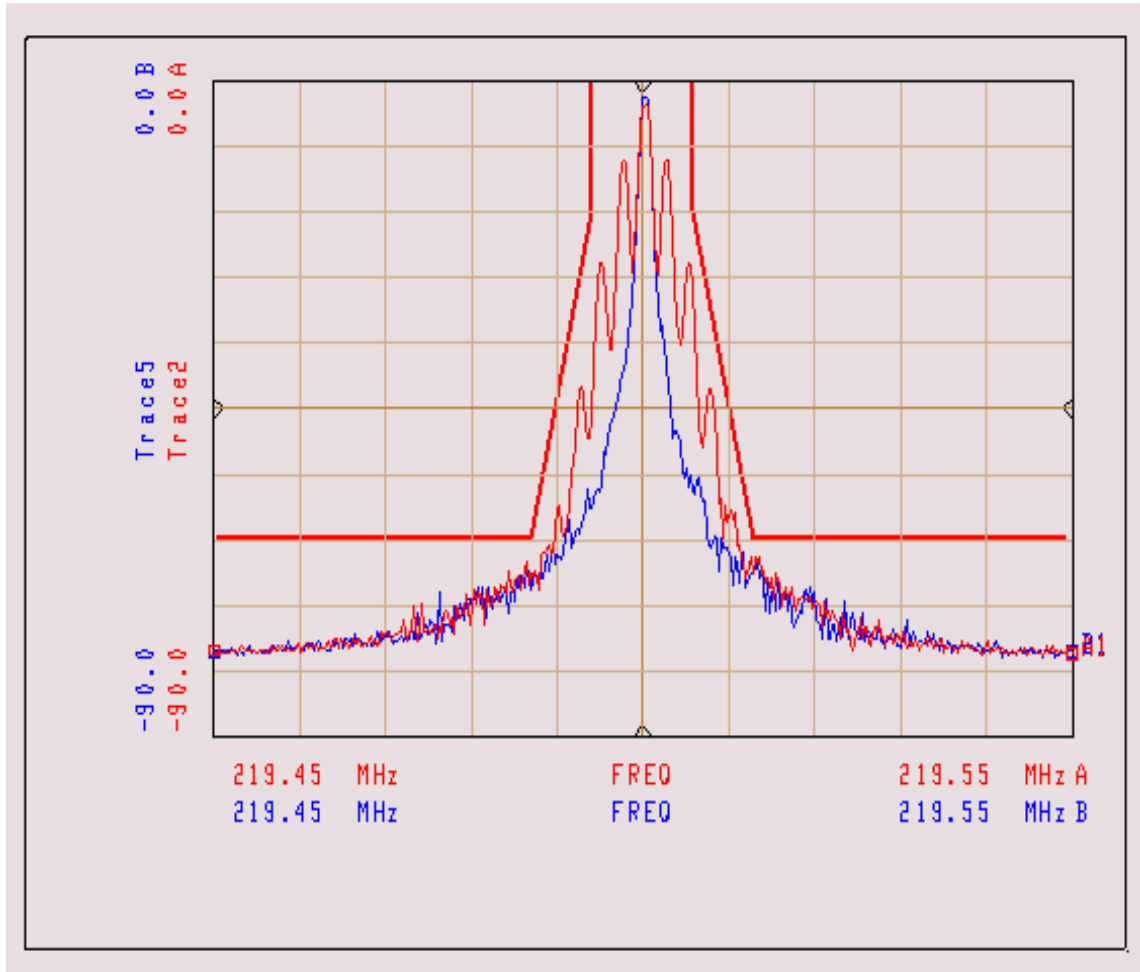


MODULATION LIMITING CHARACTERISTIC  
TRUNKING MODE



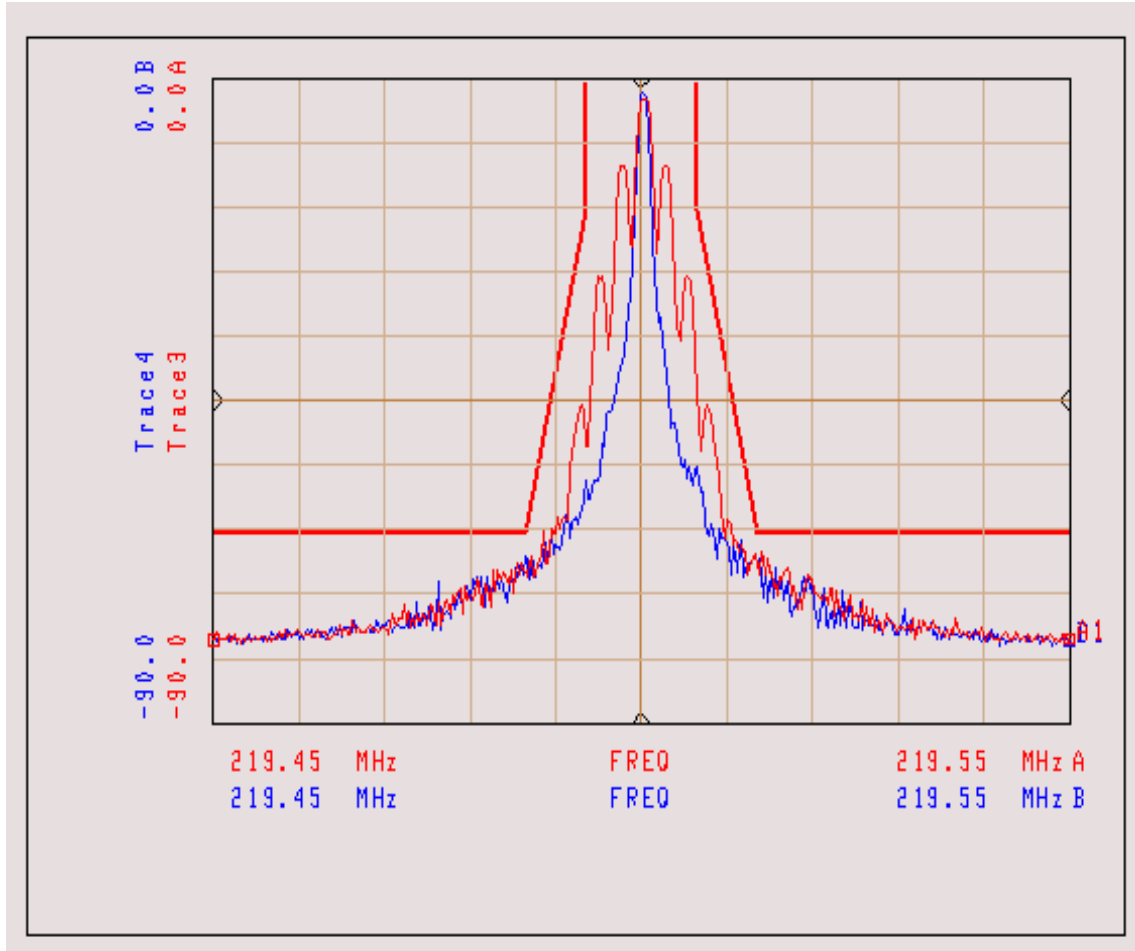


OCCUPIED BANDWIDTH MEASUREMENT FOR  
12.5 kHz CHANNEL SPACING, 2500 Hz TONE, CARRIER SQUELCH  
EMISSION MASK: D



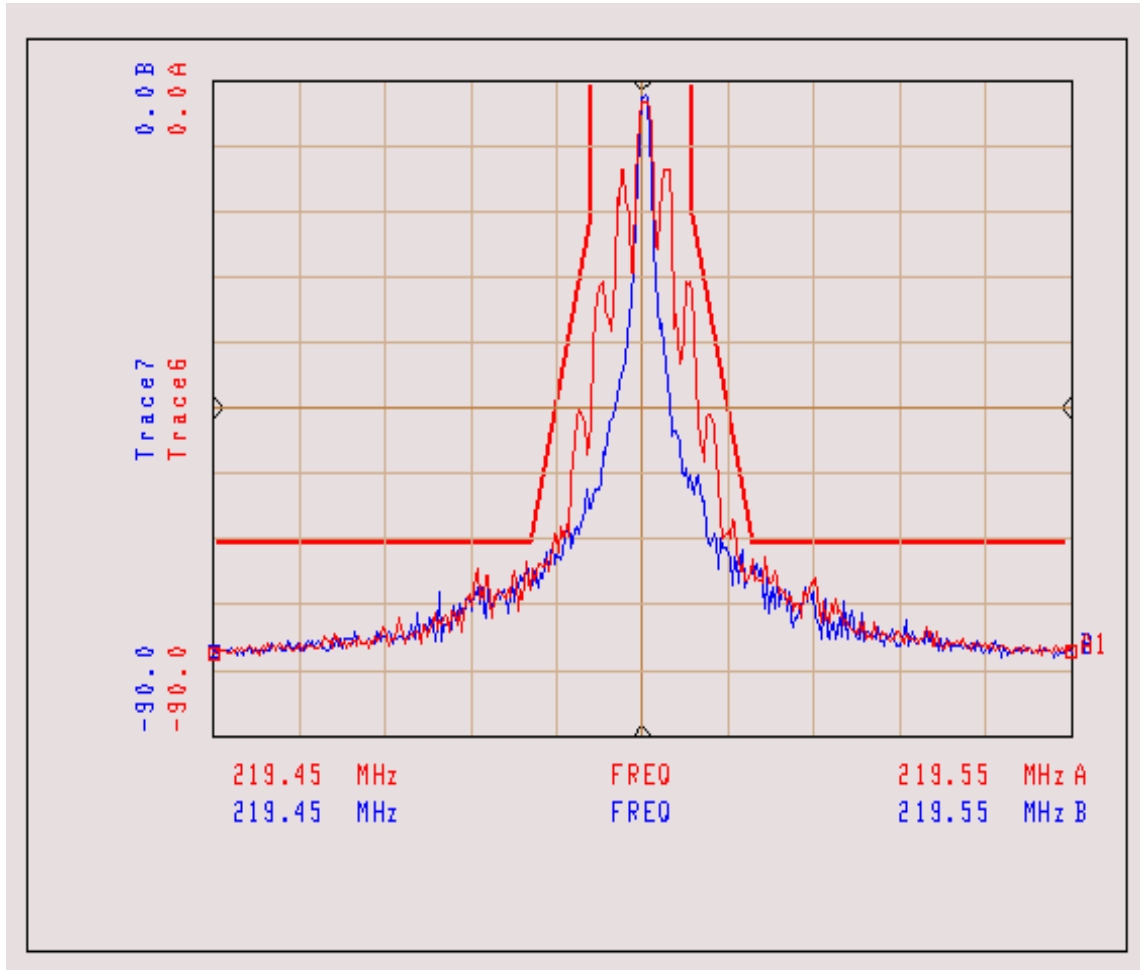
CENTER FREQUENCY:	219.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR  
12.5 kHz CHANNEL SPACING, 2500 Hz TONE, TPL 250.3 Hz  
EMISSION MASK: D



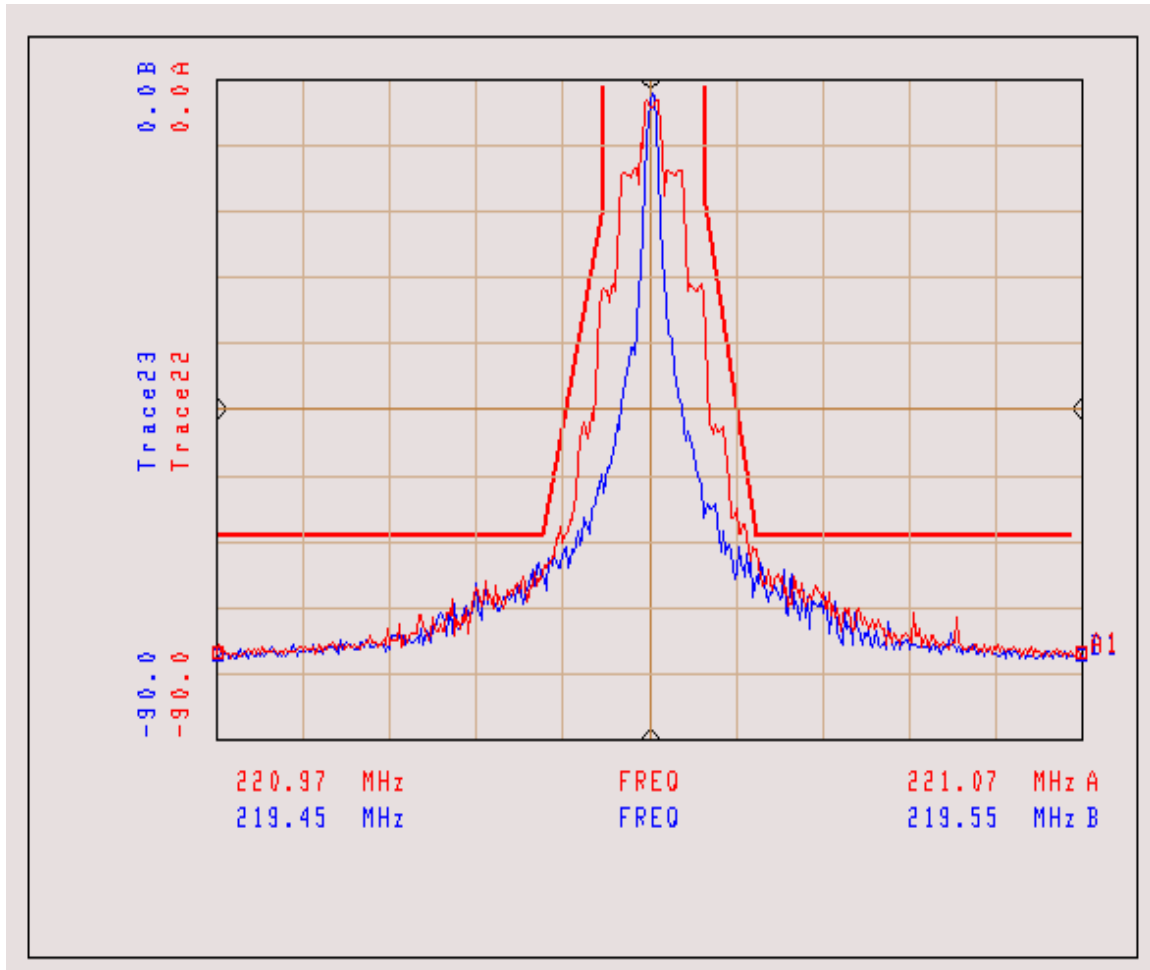
CENTER FREQUENCY:	219.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR  
12.5 kHz CHANNEL SPACING, 2500 Hz TONE, DPL 131  
EMISSION MASK: D



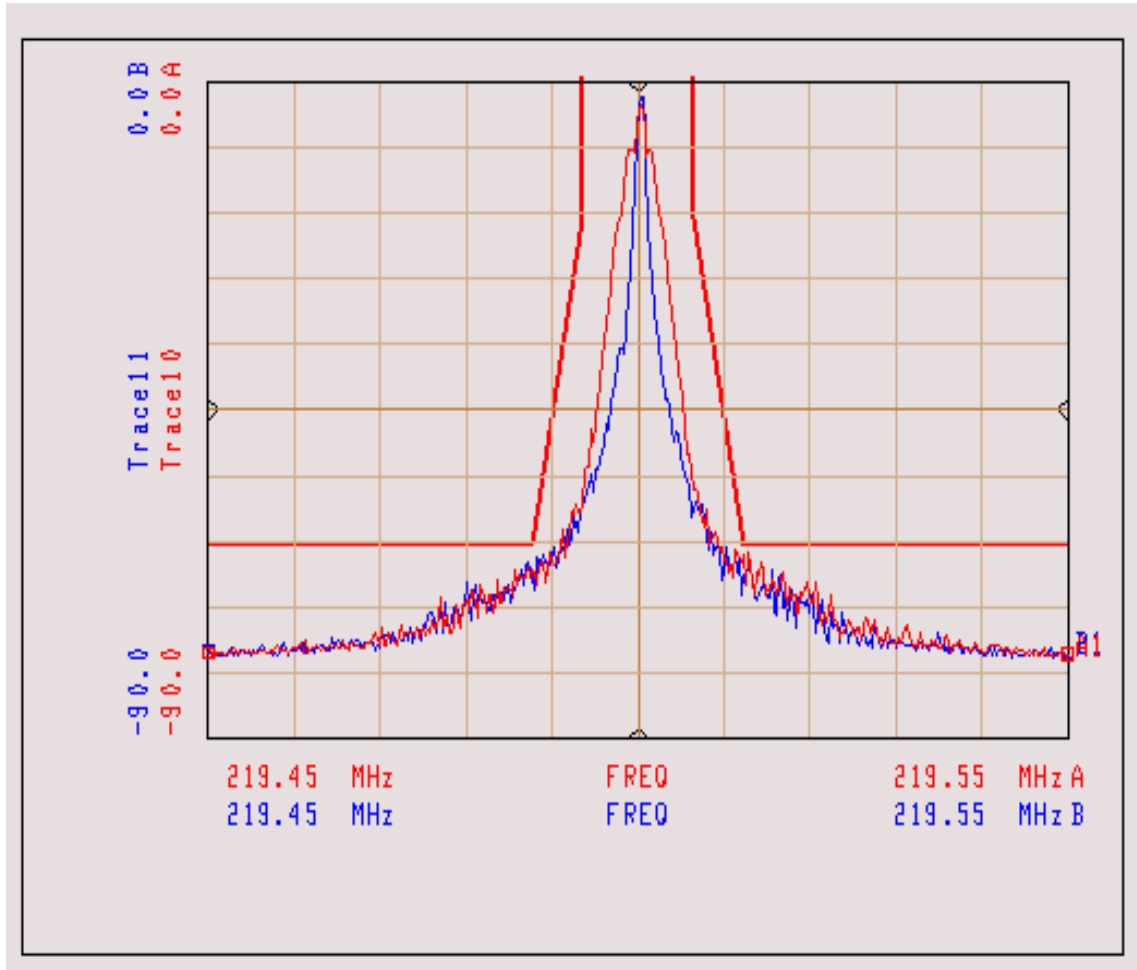
CENTER FREQUENCY:	219.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR  
12.5 kHz CHANNEL SPACING, 2500 Hz TONE, LOW SPEED TRUNKING  
EMISSION MASK: D



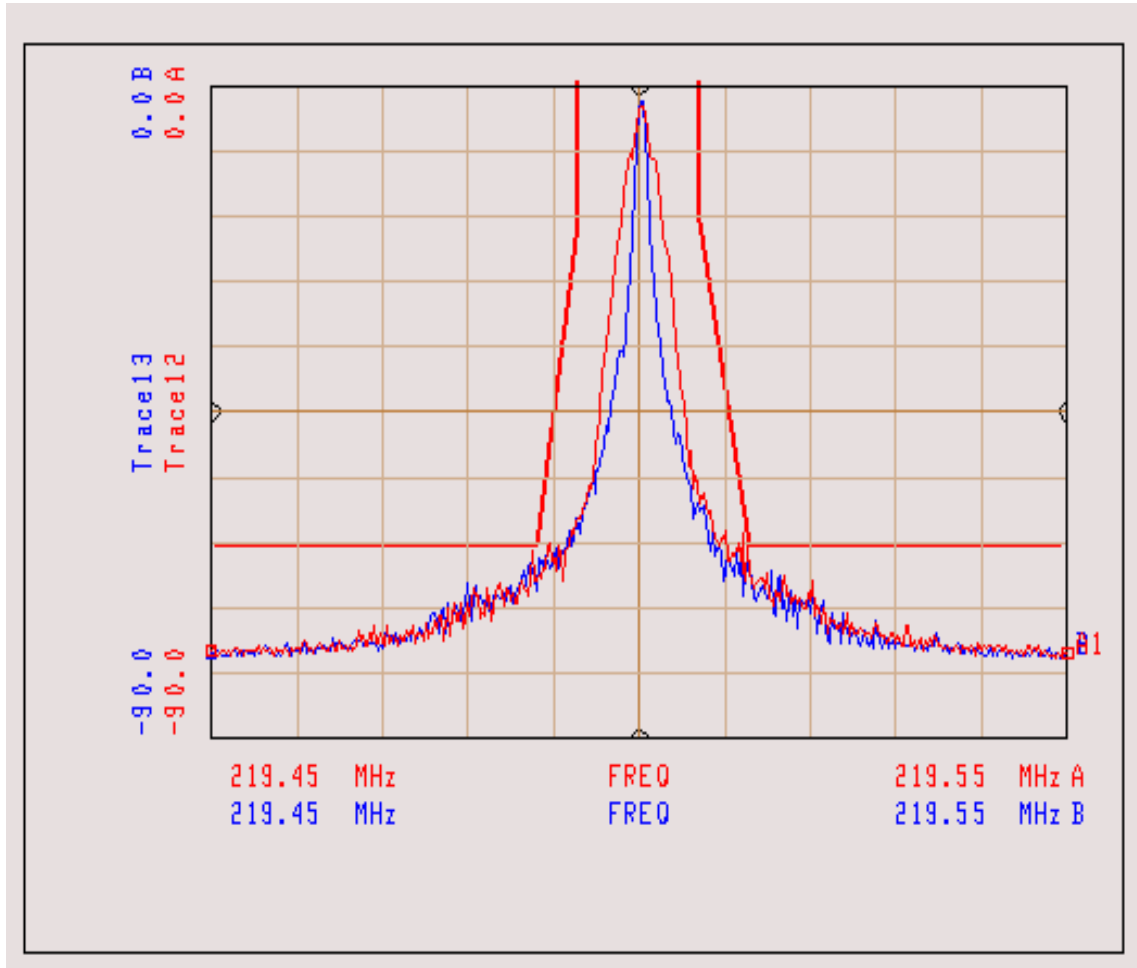
CENTER FREQUENCY:	221.025 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR  
12.5 kHz CHANNEL SPACING, DTMF MODULATION, CARRIER SQUELCH  
EMISSION MASK: D



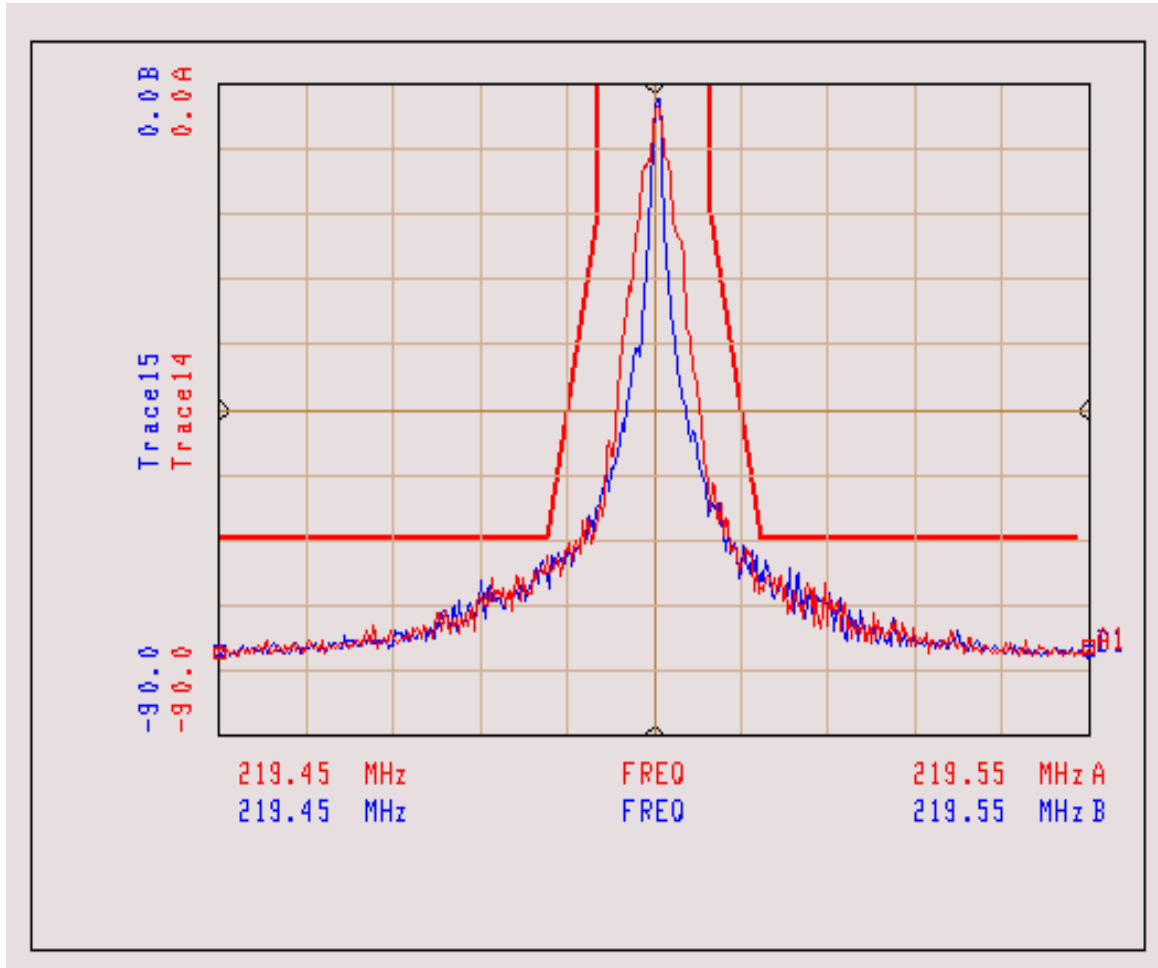
CENTER FREQUENCY:	219.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR  
12.5 kHz CHANNEL SPACING, DTMF MODULATION, TPL 250.3 Hz  
EMISSION MASK: D



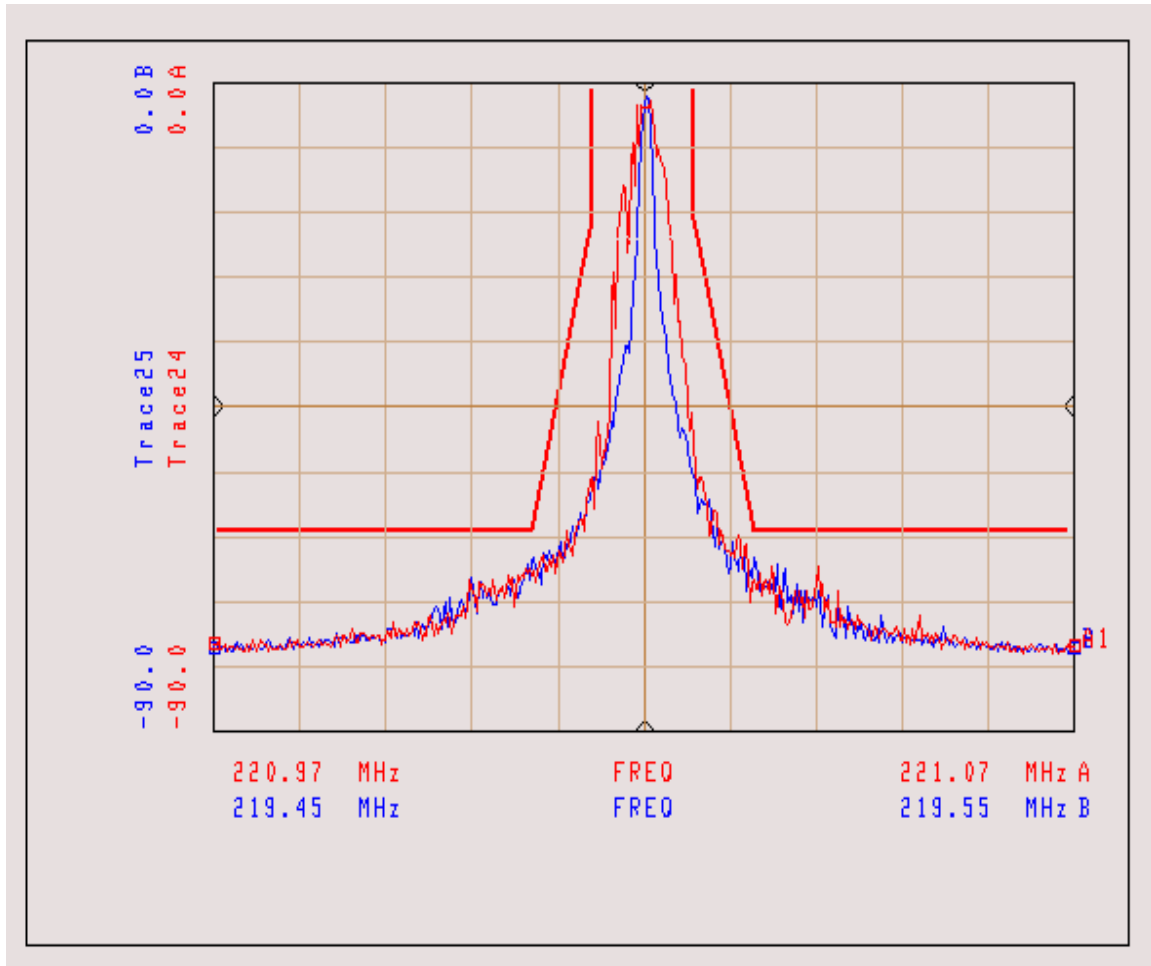
CENTER FREQUENCY:	219.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR  
12.5 kHz CHANNEL SPACING, DTMF MODULATION, DPL 131  
EMISSION MASK: D



CENTER FREQUENCY:	219.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

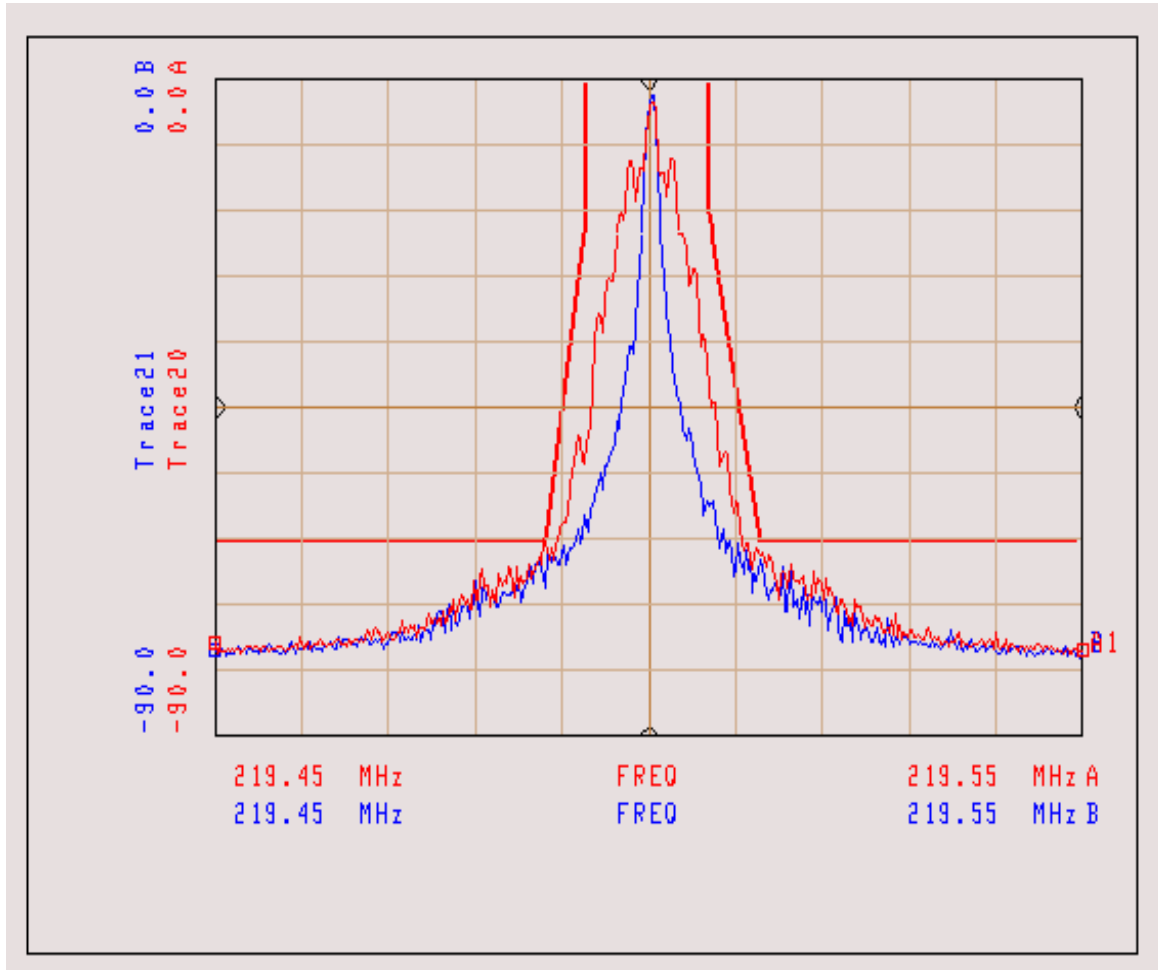
OCCUPIED BANDWIDTH MEASUREMENT FOR  
12.5 kHz CHANNEL SPACING, DTMF MODULATION, LOW SPEED TRUNKING  
EMISSION MASK: D



CENTER FREQUENCY:	221.025 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

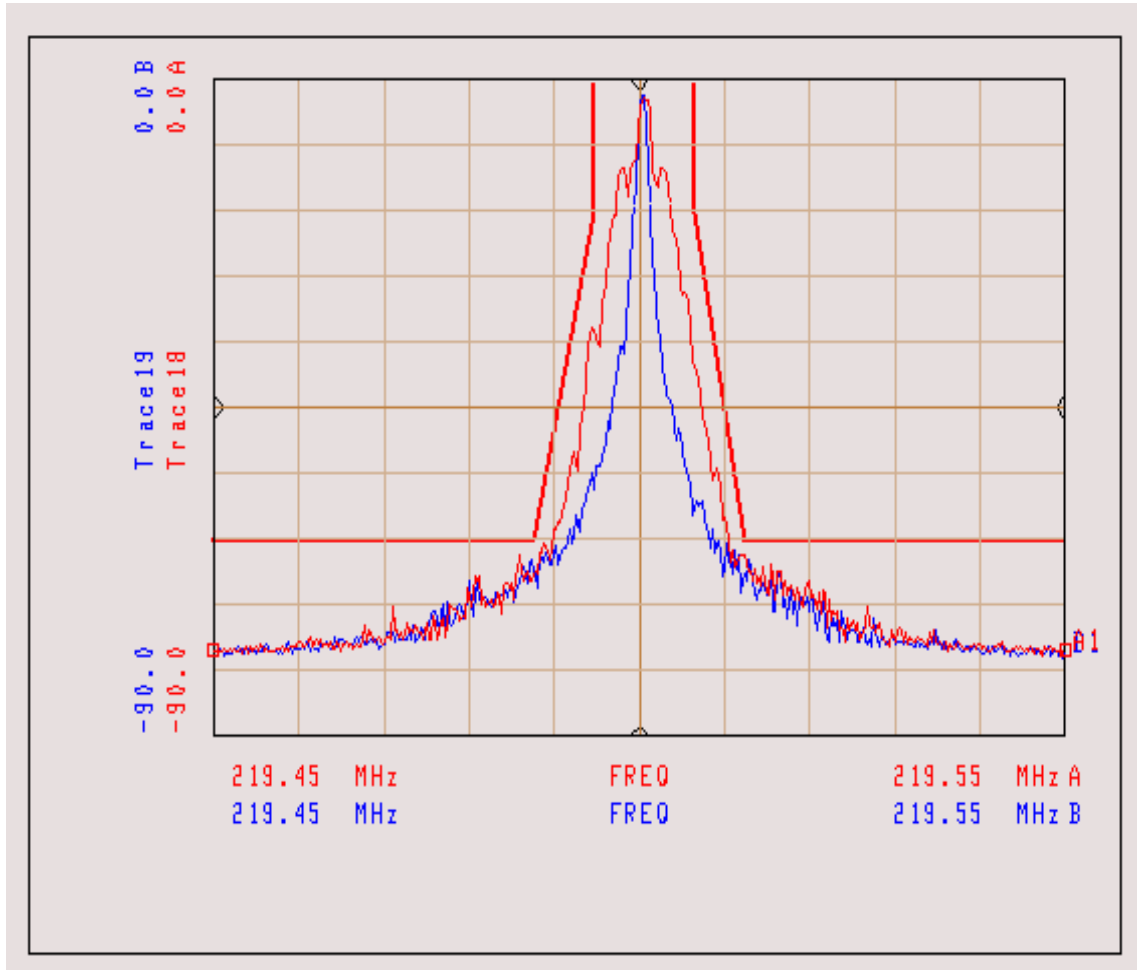


OCCUPIED BANDWIDTH MEASUREMENT FOR  
12.5 kHz CHANNEL SPACING, 2000/3000 Hz FSK, CARRIER SQUELCH  
EMISSION MASK: D



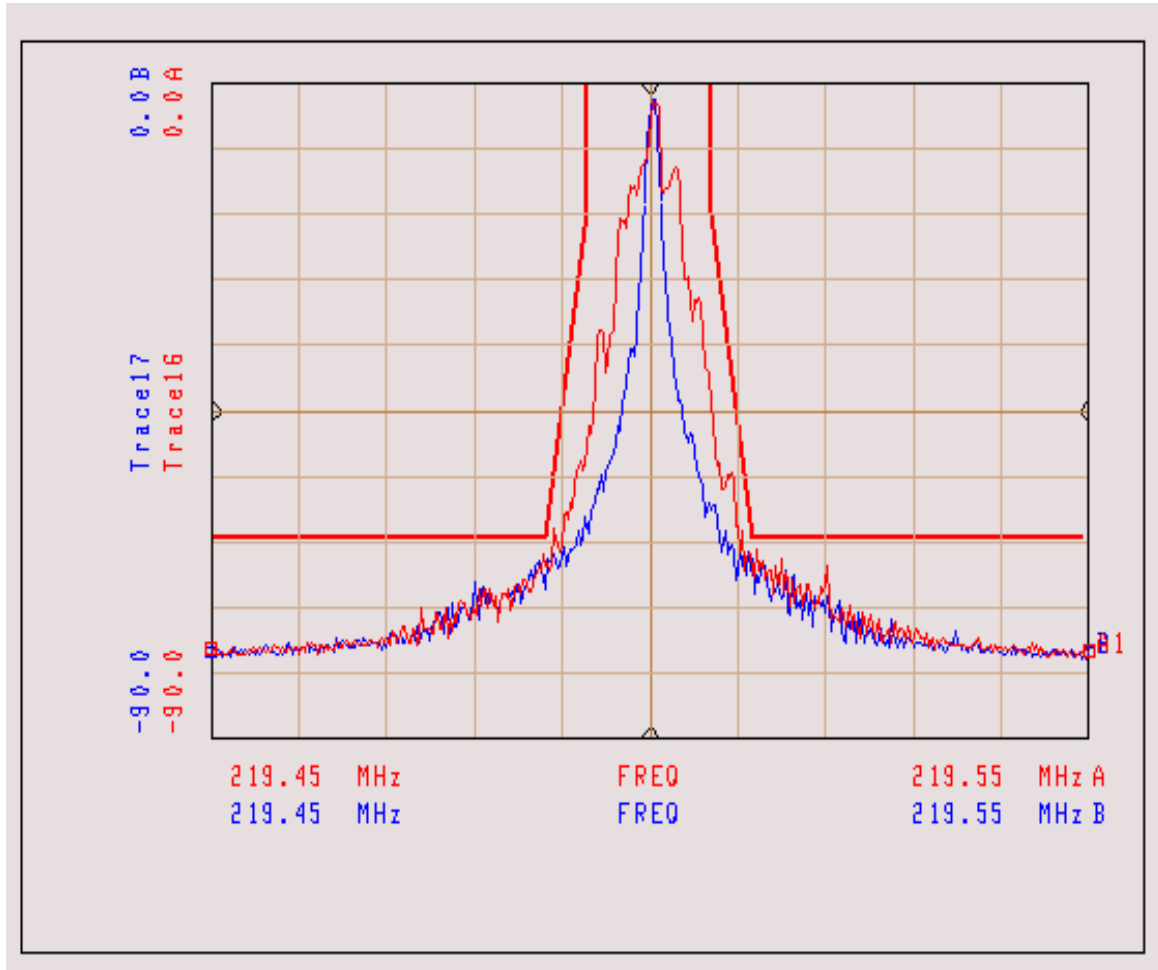
CENTER FREQUENCY:	219.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR  
12.5 kHz CHANNEL SPACING, 2000/3000 Hz FSK, TPL 250.3 Hz  
EMISSION MASK: D



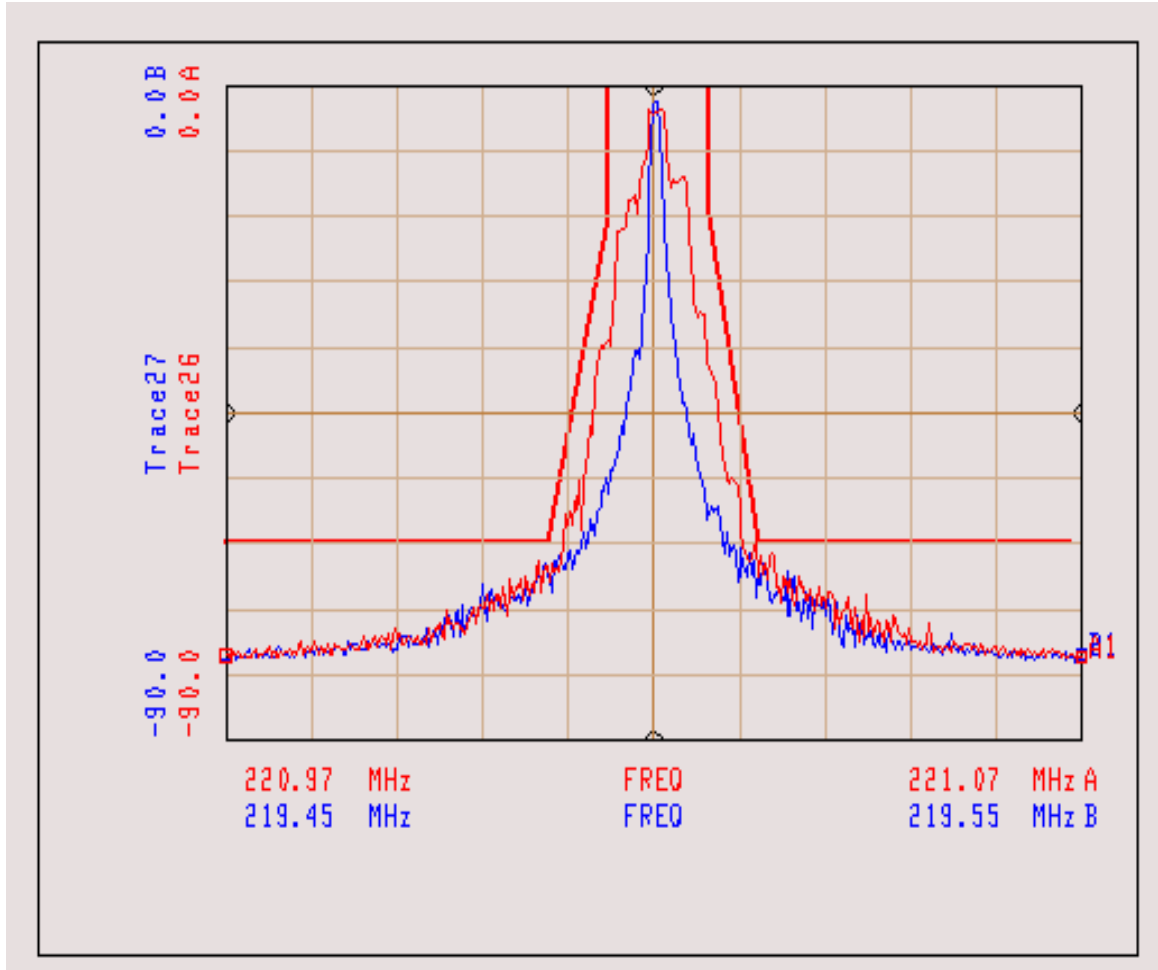
CENTER FREQUENCY:	219.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR  
12.5 kHz CHANNEL SPACING, 2000/3000 Hz FSK, DPL 131  
EMISSION MASK: D



CENTER FREQUENCY:	219.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

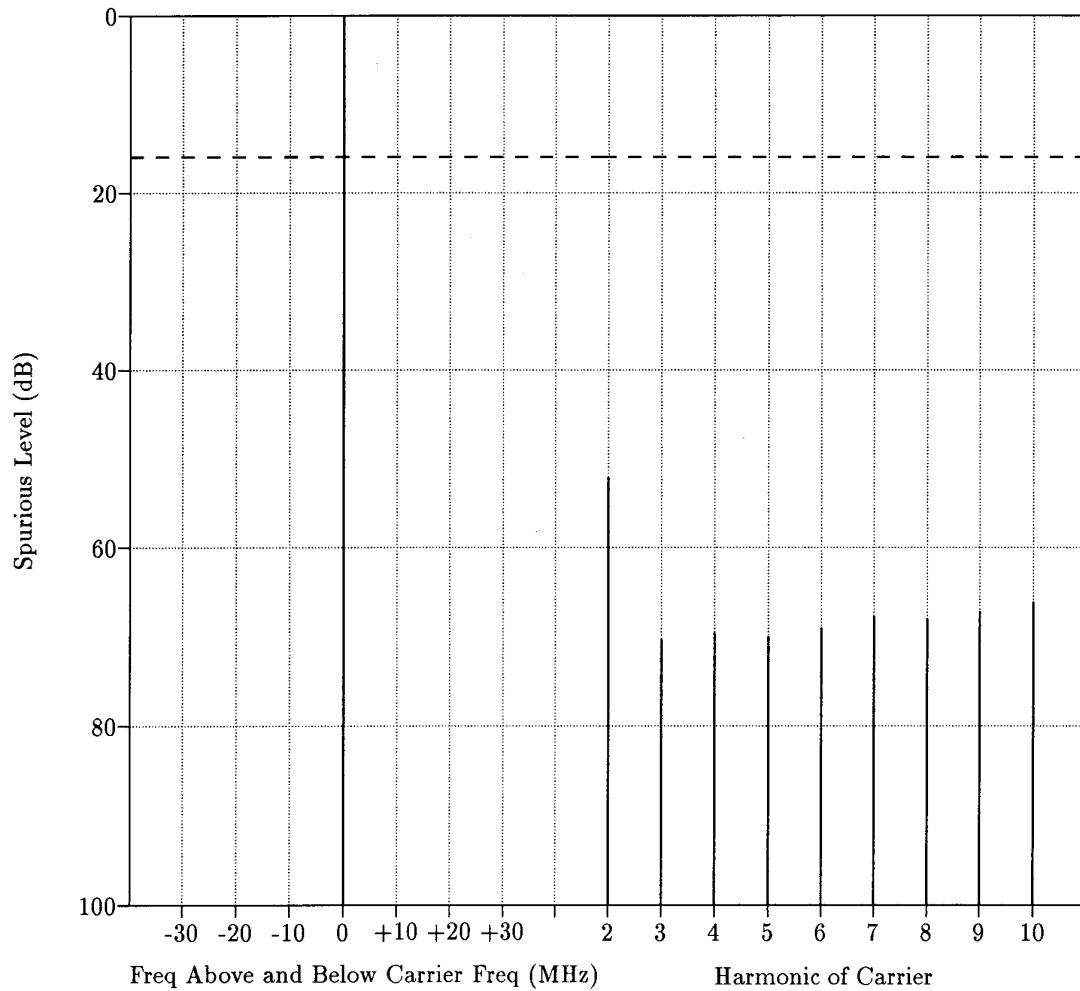
OCCUPIED BANDWIDTH MEASUREMENT FOR  
12.5 kHz CHANNEL SPACING, 2000/3000 Hz FSK, LOW SPEED TRUNKING  
EMISSION MASK: D



CENTER FREQUENCY:	221.025 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

**CONDUCTED SPURIOUS EMISSIONS  
HIGH POWER, 217.000MHz**

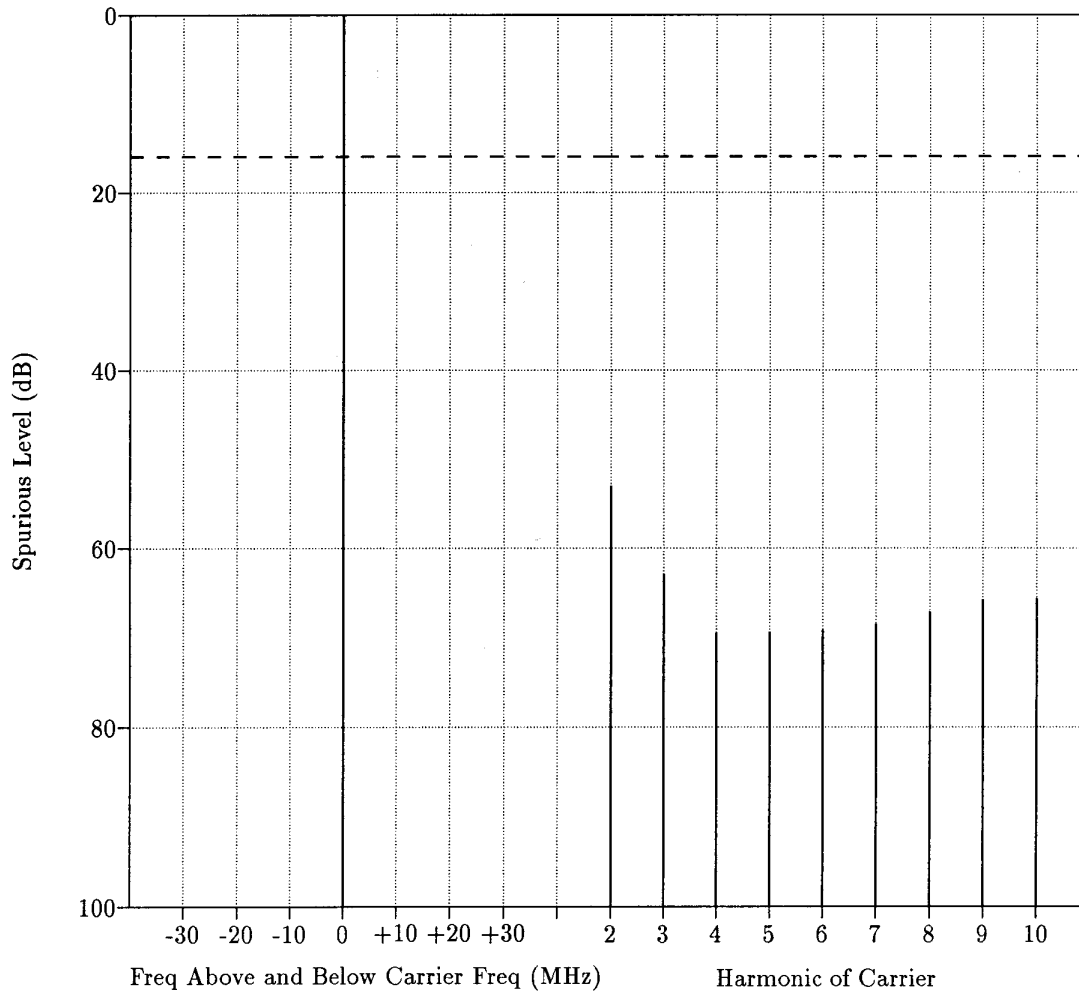
**Transmitter Type:** See Above  
**Power Output:** 5.50W at 217.000MHz



The conducted spurious level is plotted in dBm on the vertical axis.  
The specification for conducted spurious emissions is -16 dBm.

**CONDUCTED SPURIOUS EMISSIONS  
HIGH POWER, 219.000 MHz**

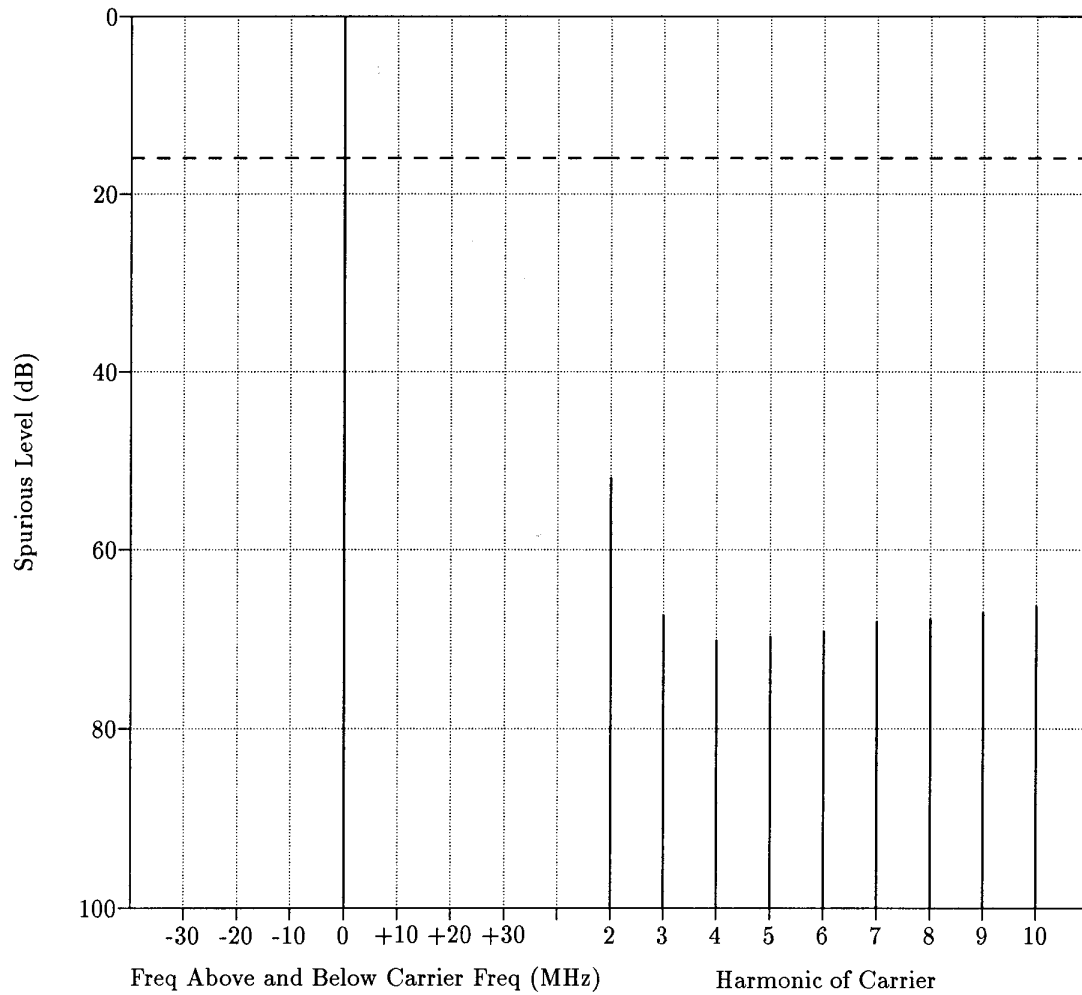
**Transmitter Type:** See Above  
**Power Output:** 5.50W at 219.000MHz



The conducted spurious level is plotted in dBm on the vertical axis.  
The specification for conducted spurious emissions is -16 dBm.

**CONDUCTED SPURIOUS EMISSIONS  
HIGH POWER, 222.000 MHz**

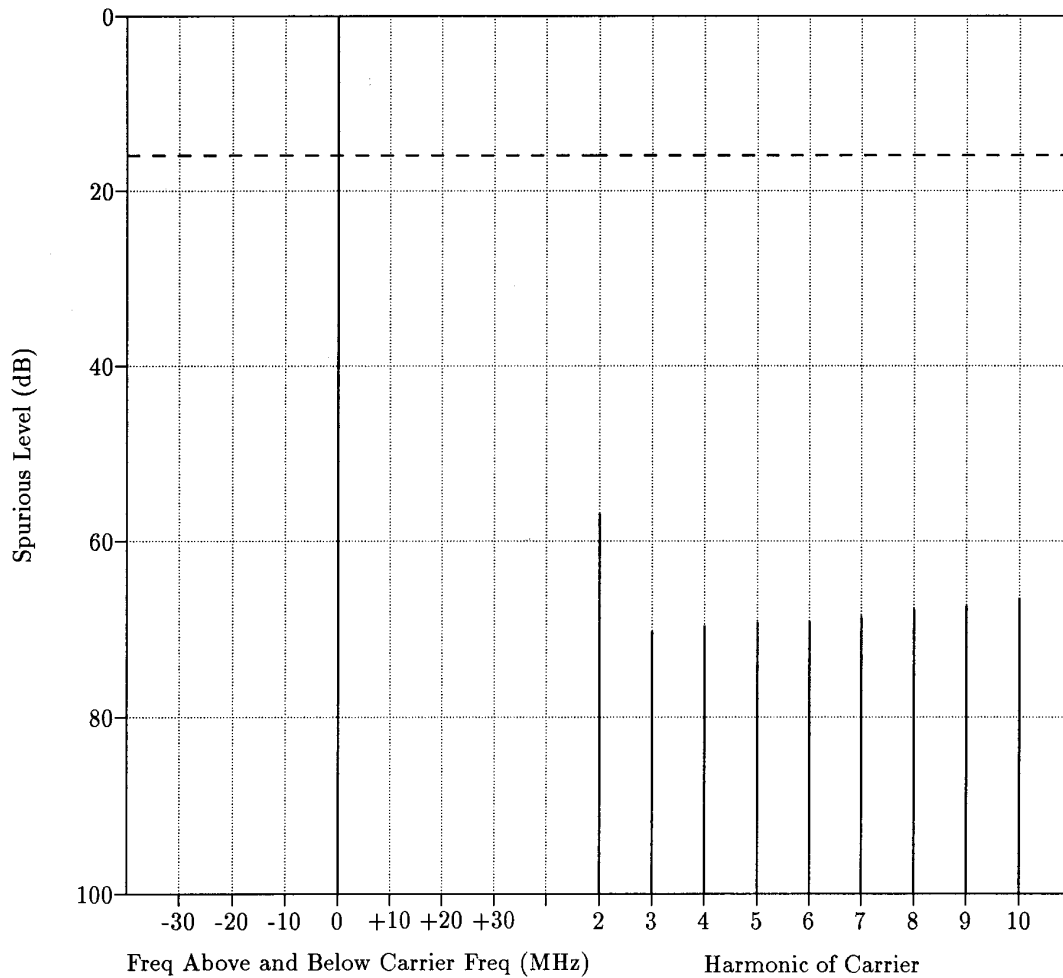
**Transmitter Type:** See Above  
**Power Output:** 5.50W at 222.0000MHz



The conducted spurious level is plotted in dBm on the vertical axis.  
The specification for conducted spurious emissions is -16 dBm.

**CONDUCTED SPURIOUS EMISSIONS  
LOW POWER, 217.000MHz**

**Transmitter Type:** See Above  
**Power Output:** 1.00W at 217.000MHz

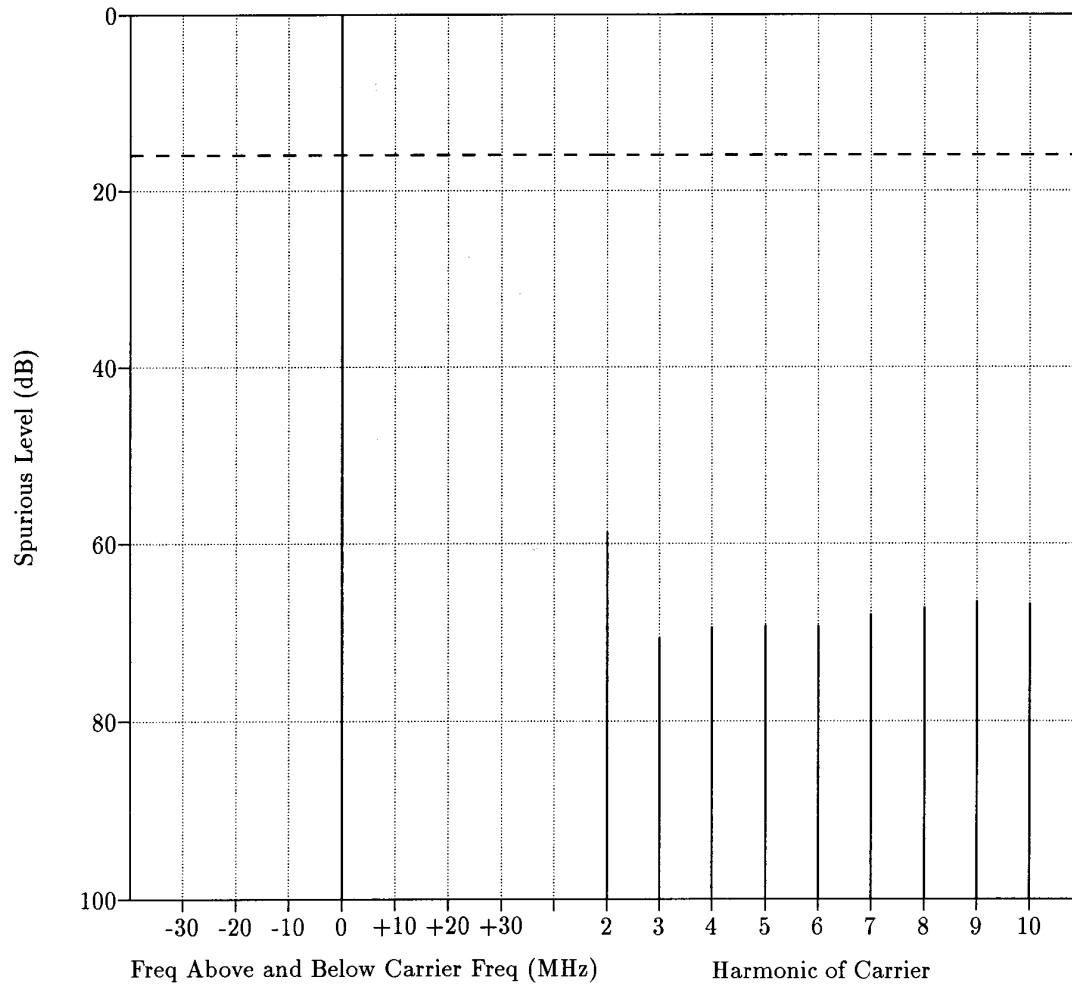


The conducted spurious level is plotted in dBm on the vertical axis.  
The specification for conducted spurious emissions is -16 dBm.



**CONDUCTED SPURIOUS EMISSIONS  
LOW POWER, 219.000 MHz**

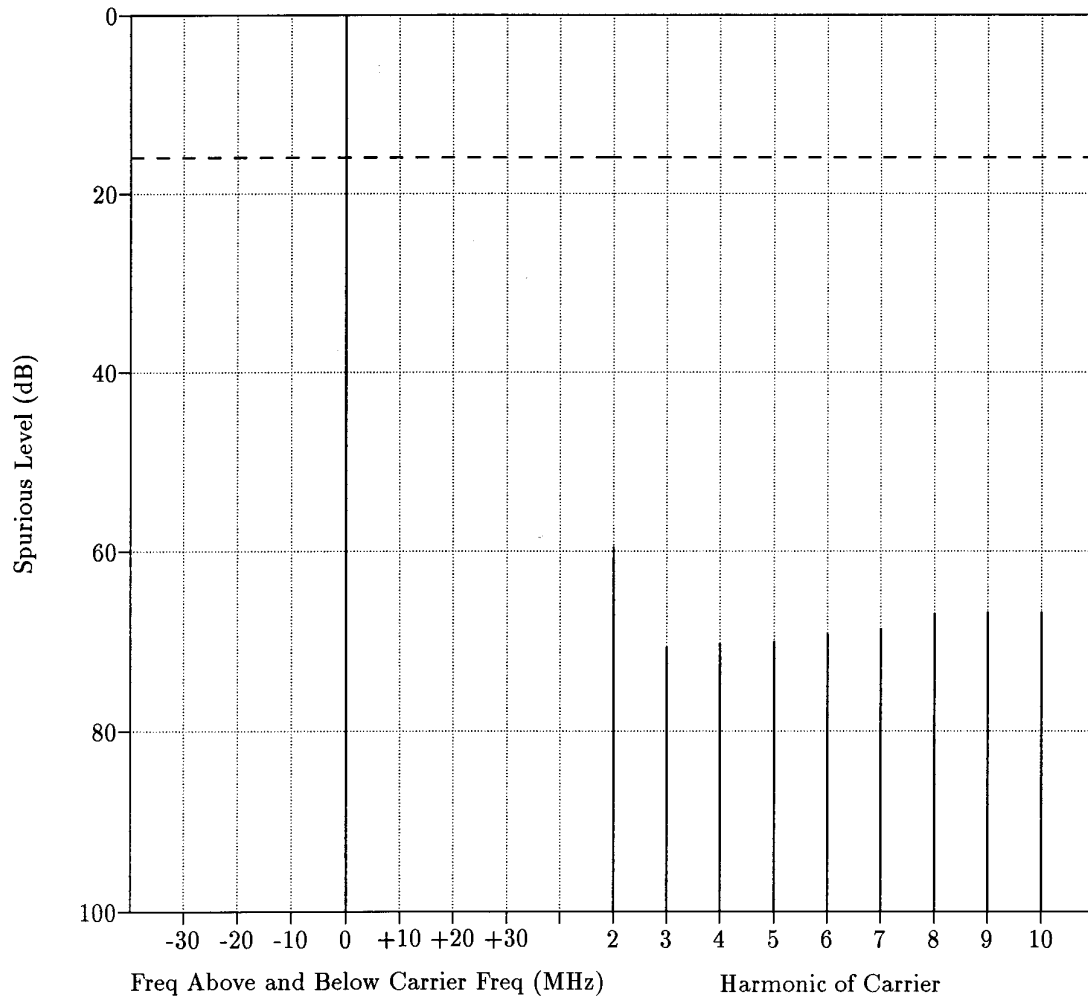
**Transmitter Type:** See Above  
**Power Output:** 1.00W at 219.000MHz



The conducted spurious level is plotted in dBm on the vertical axis.  
The specification for conducted spurious emissions is -16 dBm.

**CONDUCTED SPURIOUS EMISSIONS  
LOW POWER, 222.000 MHz**

**Transmitter Type:** See Above  
**Power Output:** 1.00W at 222.000MHz



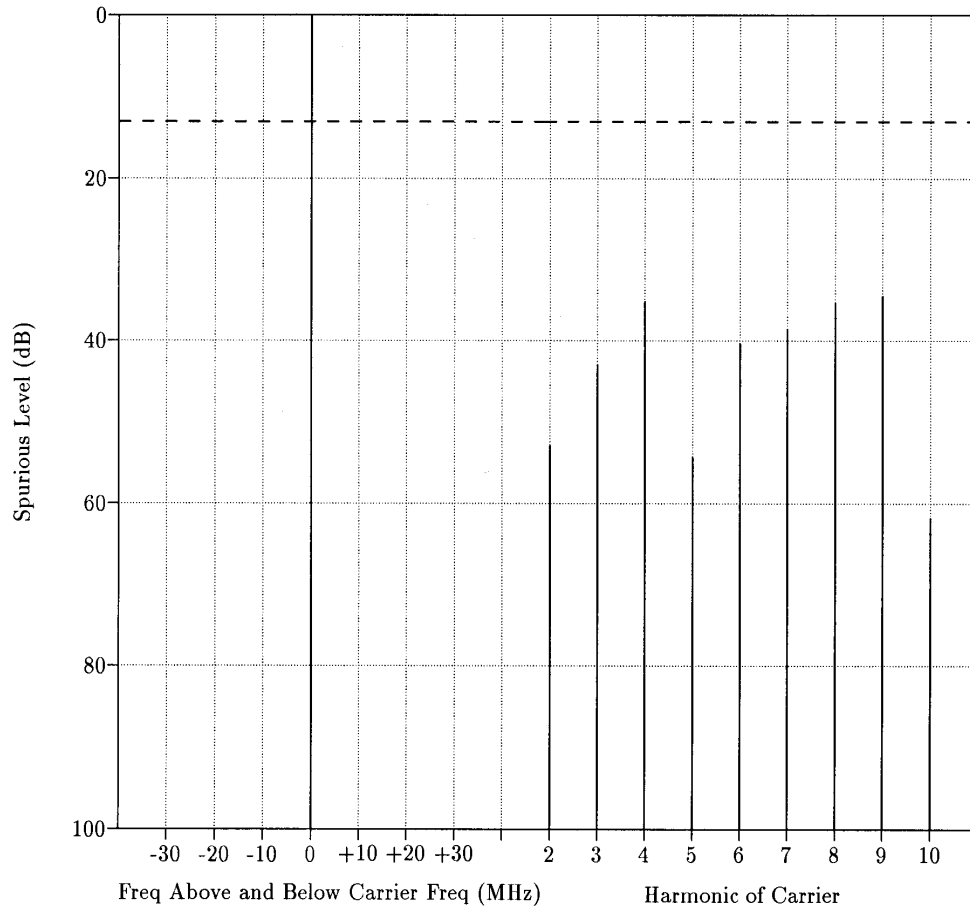
The conducted spurious level is plotted in dBm on the vertical axis.  
The specification for conducted spurious emissions is -16 dBm.

**RADIATED SPURIOUS EMISSIONS**  
**HIGH POWER, 219.500 MHz, HORIZONTAL POLARIZATION**  
**OUTPUT POWER = 5.5 WATTS**

Model Number: AAH25MDH4DP6AN  
Serial Number: WQDTV009

Harmonic	Frequency	Level (dBm)	Limit (dBm)
2 <sup>nd</sup>	439.0 MHz	-52.8	-13.0
3 <sup>rd</sup>	658.5 MHz	-42.9	-13.0
4 <sup>th</sup>	878.0 MHz	-35.2	-13.0
5 <sup>th</sup>	1097.5 MHz	-54.3	-13.0
6 <sup>th</sup>	1317.0 MHz	-40.3	-13.0
7 <sup>th</sup>	1536.5 MHz	-38.6	-13.0
8 <sup>th</sup>	1756.0 MHz	-35.4	-13.0
9 <sup>th</sup>	1975.5 MHz	-34.5	-13.0
10 <sup>th</sup>	2195.0 MHz	-61.7	-13.0

Antenna Polarization: **HORIZONTAL**  
Power Output: **5.50W at 219.5000MHz**

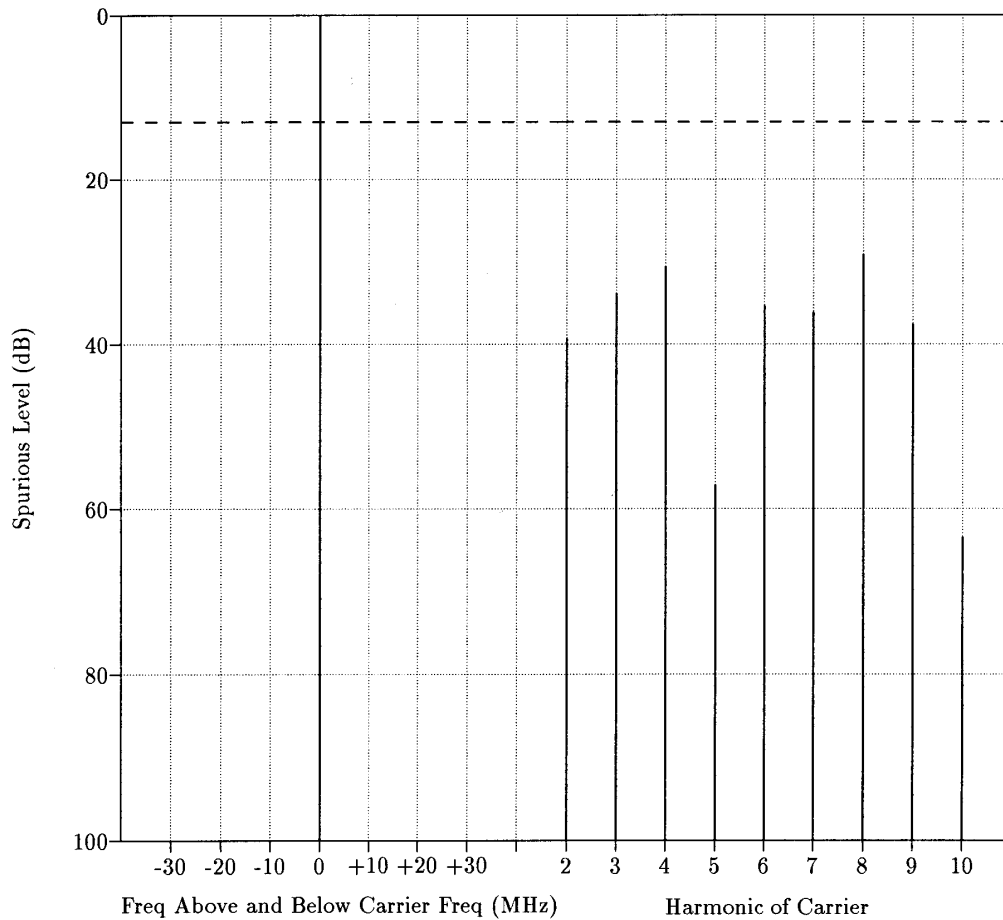


**RADIATED SPURIOUS EMISSIONS**  
**HIGH POWER, 219.500 MHz, VERTICAL POLARIZATION**  
**OUTPUT POWER = 5.5 WATTS**

Model Number: AAH25MDH4DP6AN  
Serial Number: WQDTV009

Harmonic	Frequency	Level (dBm)	Limit (dBm)
2 <sup>nd</sup>	439.0 MHz	-39.2	-13.0
3 <sup>rd</sup>	658.5 MHz	-33.8	-13.0
4 <sup>th</sup>	878.0 MHz	-30.6	-13.0
5 <sup>th</sup>	1097.5 MHz	-57.1	-13.0
6 <sup>th</sup>	1317.0 MHz	-35.4	-13.0
7 <sup>th</sup>	1536.5 MHz	-36.2	-13.0
8 <sup>th</sup>	1756.0 MHz	-29.2	-13.0
9 <sup>th</sup>	1975.5 MHz	-37.6	-13.0
10 <sup>th</sup>	2195.0 MHz	-63.4	-13.0

Antenna Polarization: **VERTICAL**  
Power Output: **5.50W at 219.5000MHz**

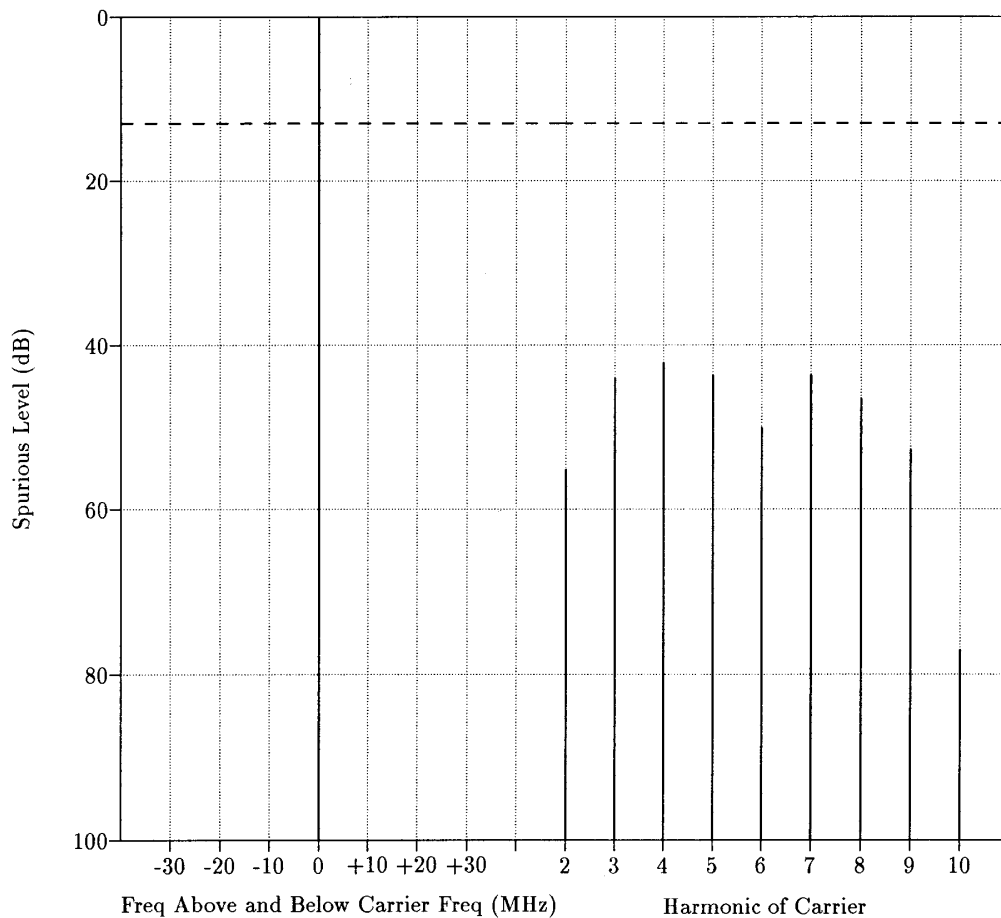


**RADIATED SPURIOUS EMISSIONS**  
**LOW POWER, 219.500 MHz, HORIZONTAL POLARIZATION**  
**OUTPUT POWER = 1.0 WATT**

**Model Number: AAH25MDH4DP6AN**  
**Serial Number: WQDTV009**

Harmonic	Frequency	Level (dBm)	Limit (dBm)
2 <sup>nd</sup>	439.0 MHz	-55.1	-13.0
3 <sup>rd</sup>	658.5 MHz	-44.0	-13.0
4 <sup>th</sup>	878.0 MHz	-42.1	-13.0
5 <sup>th</sup>	1097.5 MHz	-43.7	-13.0
6 <sup>th</sup>	1317.0 MHz	-50.0	-13.0
7 <sup>th</sup>	1536.5 MHz	-43.6	-13.0
8 <sup>th</sup>	1756.0 MHz	-46.5	-13.0
9 <sup>th</sup>	1975.5 MHz	-52.7	-13.0
10 <sup>th</sup>	2195.0 MHz	-77.0	-13.0

**Antenna Polarization: HORIZONTAL**  
**Power Output: 1.00W at 219.5000MHz**

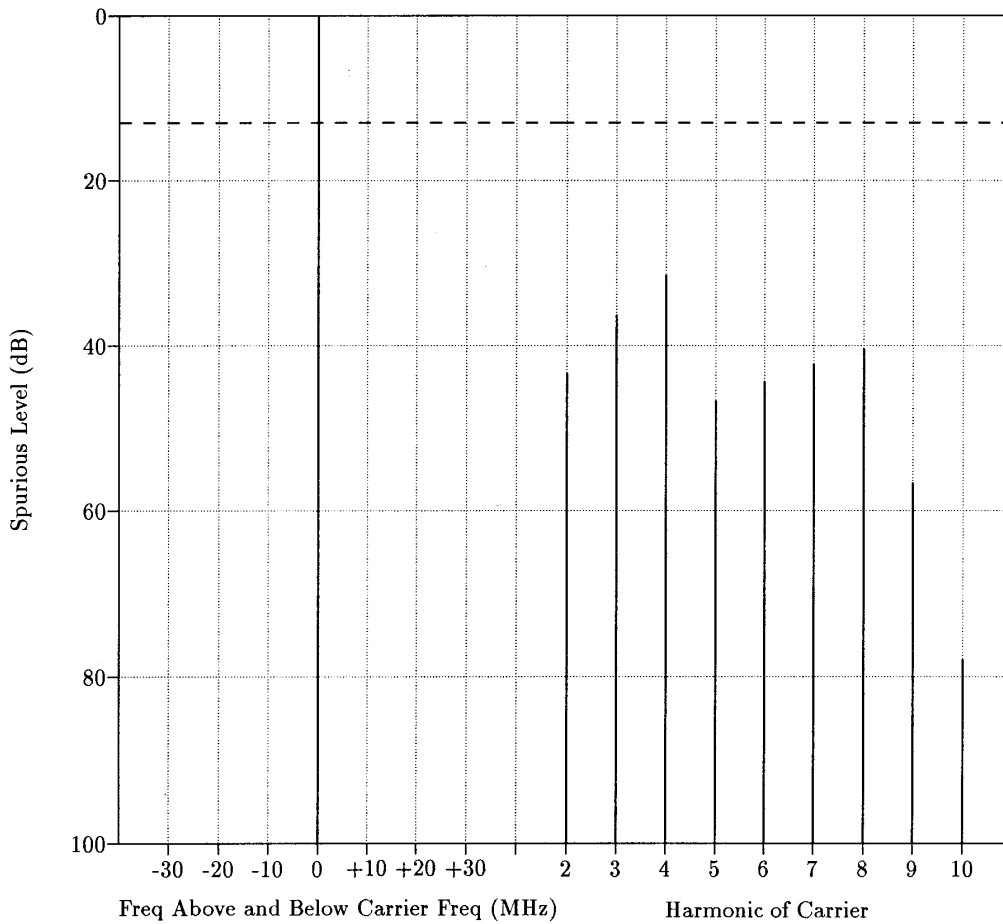


**RADIATED SPURIOUS EMISSIONS**  
**LOW POWER, 219.500 MHz, VERTICAL POLARIZATION**  
**OUTPUT POWER = 1.0 WATT**

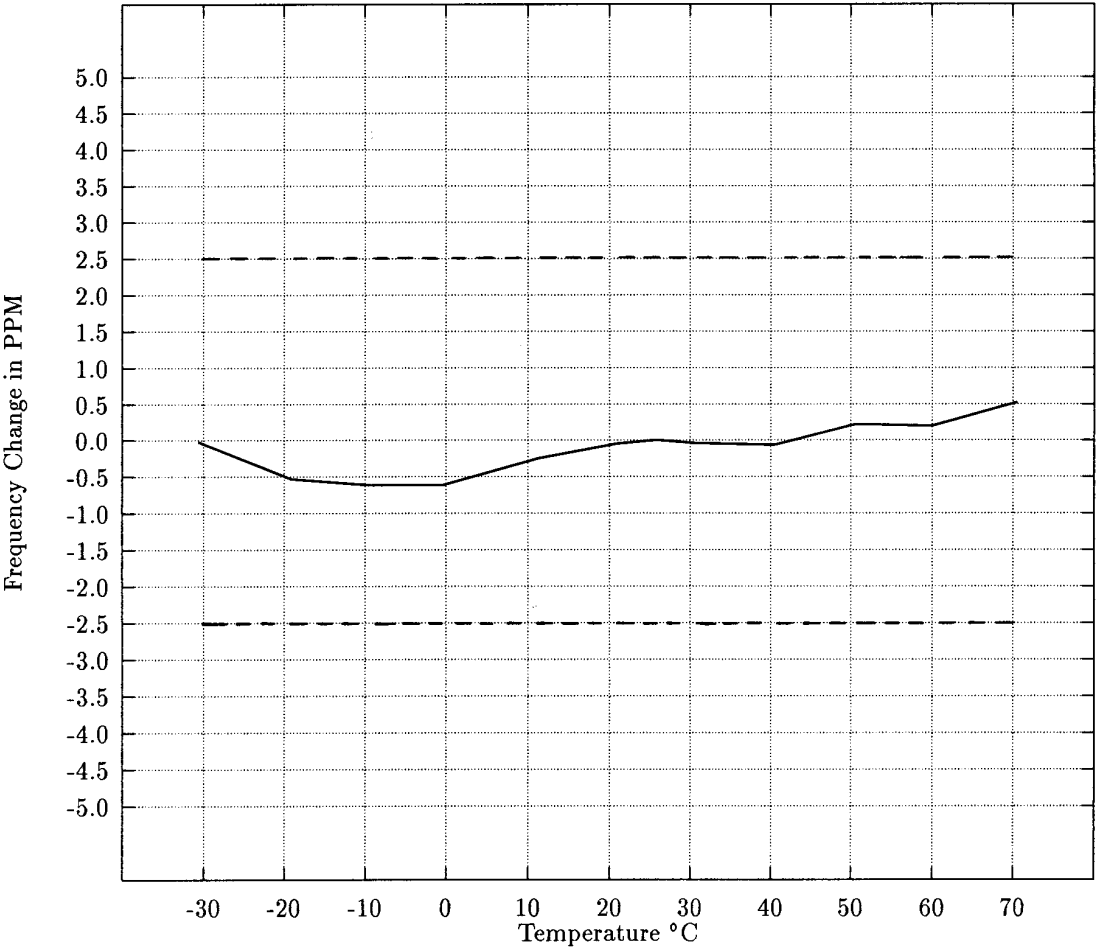
**Model Number: AAH25MDH4DP6AN**  
**Serial Number: WQDTV009**

Harmonic	Frequency	Level (dBm)	Limit (dBm)
2 <sup>nd</sup>	439.0 MHz	-43.3	-13.0
3 <sup>rd</sup>	658.5 MHz	-36.3	-13.0
4 <sup>th</sup>	878.0 MHz	-31.5	-13.0
5 <sup>th</sup>	1097.5 MHz	-46.7	-13.0
6 <sup>th</sup>	1317.0 MHz	-44.4	-13.0
7 <sup>th</sup>	1536.5 MHz	-42.3	-13.0
8 <sup>th</sup>	1756.0 MHz	-40.4	-13.0
9 <sup>th</sup>	1975.5 MHz	-56.6	-13.0
10 <sup>th</sup>	2195.0 MHz	-77.9	-13.0

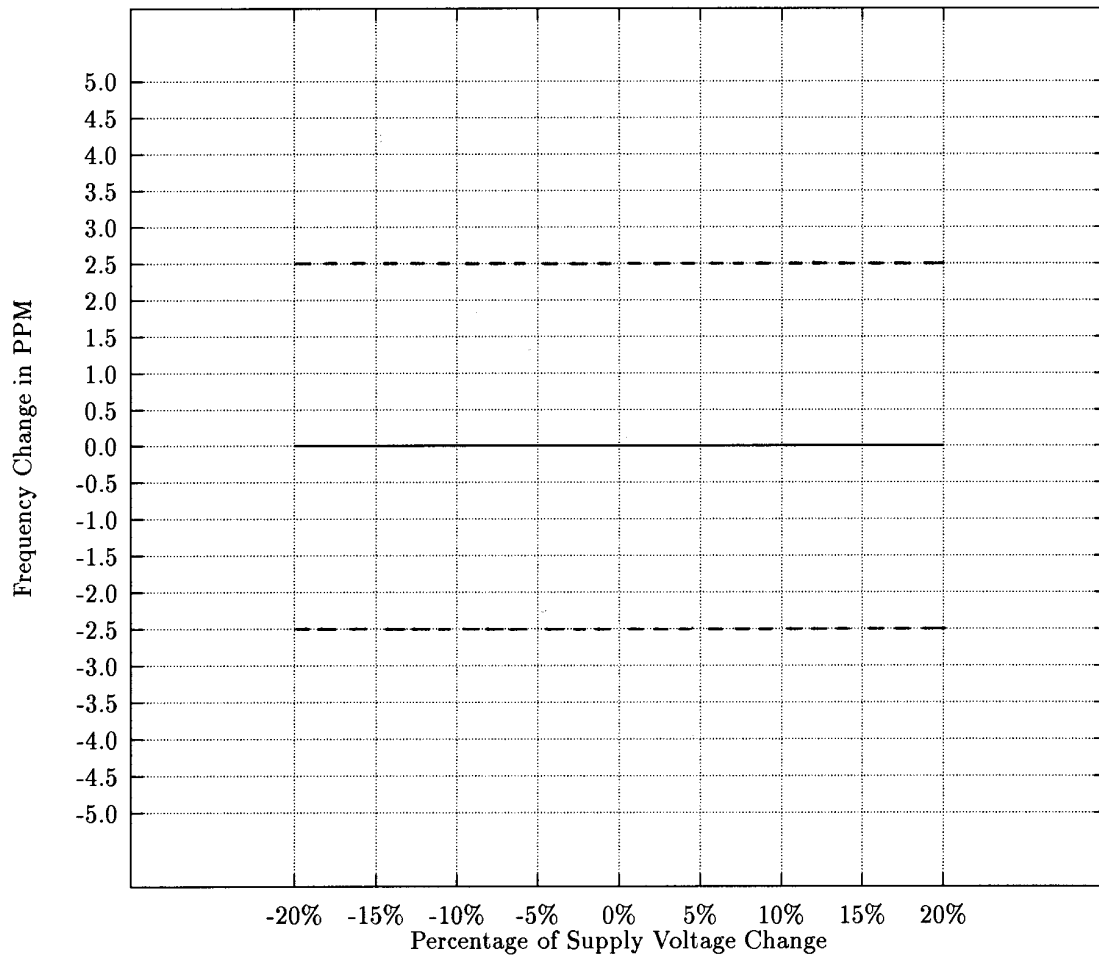
**Antenna Polarization: VERTICAL**  
**Power Output: 1.00W at 219.5000MHz**



FREQUENCY STABILITY VS. TEMPERATURE  
SPECIFIED LIMITS:  $\pm 2.5$  PPM (-30 TO +60 DEGREES C)



**FREQUENCY STABILITY VS. SUPPLY VOLTAGE**  
**REFERENCE 0% = 7.50 VOLTS DC**



**RADIO LOW-VOLTAGE RESET OCCURS AT 5.2 VOLTS DC**  
**WHICH IS -30.6% OF THE NOMINAL 7.5 VOLT DC SUPPLY**