

**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

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

**EXHIBIT 6D** - Modulation Limiting Characteristics (3 Graphs)

6D-1 - Carrier Squelch Mode

6D-2 - Tone Private Line (TPL) Mode

6D-3 - Digital Private Line (DPL) Mode

**EXHIBIT 6E** - Occupied Bandwidth (9 Spectrum Analyzer Plots)

6E-1 - 2500 Hz Audio Modulation Only

6E-2 - 2500 Hz Audio and PL Tone Modulation

6E-3 - 2500 Hz Audio and DPL Modulation

6E-4 - DTMF Modulation Only

6E-5 - DTMF Modulation and PL Tone Modulation

6E-6 - DTMF Modulation and DPL Modulation

6E-7 - 2000/3000 Hz FSK Data Modulation Only

6E-8 - 2000/3000 Hz FSK Data and PL Tone Modulation

6E-9 - 2000/3000 Hz FSK Data and DPL Tone Modulation

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

6F-1 - 72 Watts, 36.100 MHz

6F-2 - 72 Watts, 39.100 MHz

6F-3 - 72 Watts, 41.900 MHz

6F-4 - 40 Watts, 36.100 MHz

6F-5 - 40 Watts, 39.100 MHz

6F-6 - 40 Watts, 41.900 MHz

**EXHIBIT 6G** - Radiated Spurious Emissions – (4 Tables)

6G-1 - 72 Watts, 39.000 MHz, Horizontal

6G-2 - 72 Watts, 39.000 MHz, Vertical

6G-3 - 40 Watts, 39.000 MHz, Horizontal

6G-4 - 40 Watts, 39.000 MHz, Vertical

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

6H-1 - Frequency Stability vs. Temperature

6H-2 - Frequency Stability vs. Voltage

**EXHIBIT 6A – RF OUTPUT DATA****HIGH POWER SETTING, FREQUENCY 36.100 MHz**

Measured RF Output Power:	72.0 Watts
Measured DC Voltage:	12.90 Volts
Measured DC Input Current:	11.70 Amperes
Measured DC Input Power:	150.93 Watts

**LOW POWER SETTING, FREQUENCY 36.100 MHz**

Measured RF Output Power:	40.0 Watts
Measured DC Voltage:	13.08 Volts
Measured DC Input Current:	8.40 Amperes
Measured DC Input Power:	109.87 Watts

**HIGH POWER SETTING, FREQUENCY 39.100 MHz**

Measured RF Output Power:	72.0 Watts
Measured DC Voltage:	12.88 Volts
Measured DC Input Current:	11.90 Amperes
Measured DC Input Power:	153.27 Watts

**LOW POWER SETTING, FREQUENCY 39.100 MHz**

Measured RF Output Power:	40.0 Watts
Measured DC Voltage:	13.08 Volts
Measured DC Input Current:	8.30 Amperes
Measured DC Input Power:	108.56 Watts

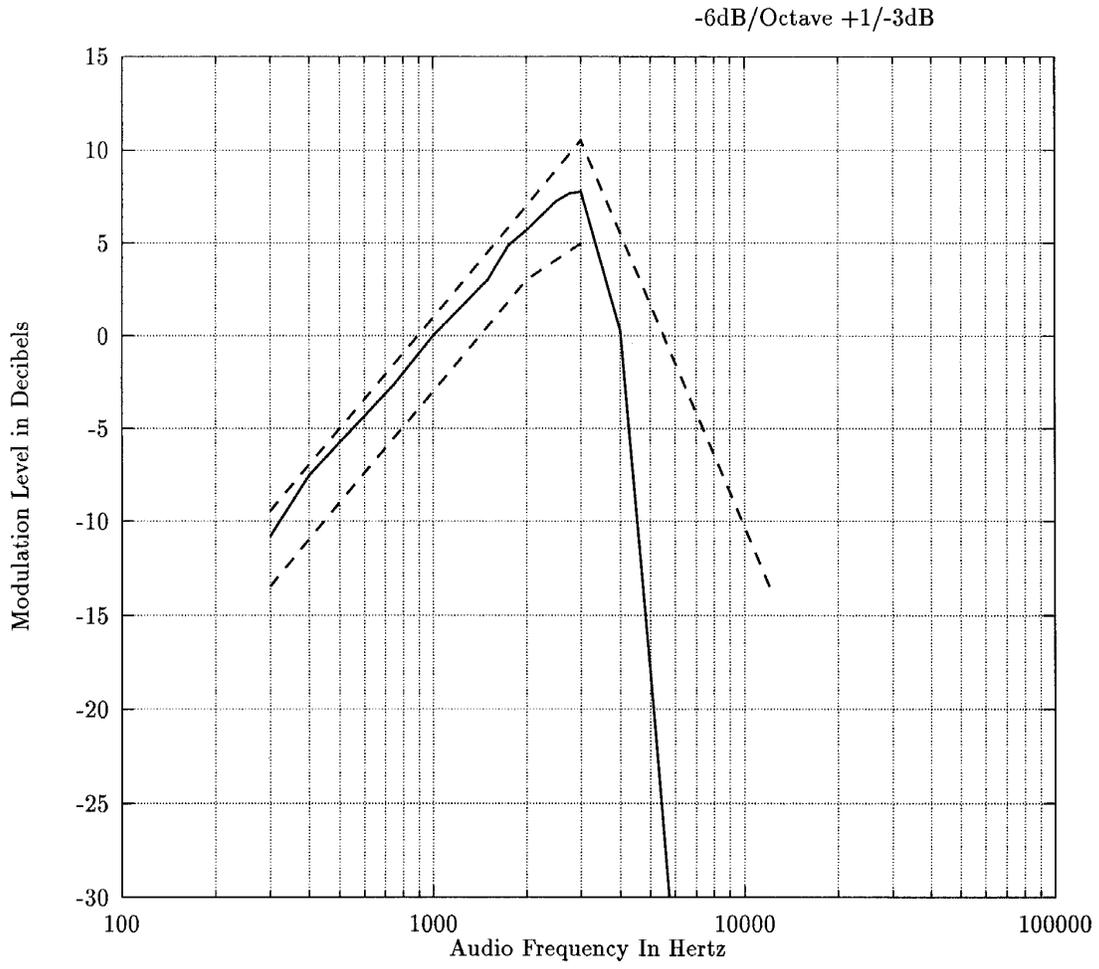
**HIGH POWER SETTING, FREQUENCY 41.900 MHz**

Measured RF Output Power:	72.0 Watts
Measured DC Voltage:	12.86 Volts
Measured DC Input Current:	12.30 Amperes
Measured DC Input Power:	158.18 Watts

**LOW POWER SETTING, FREQUENCY 41.900 MHz**

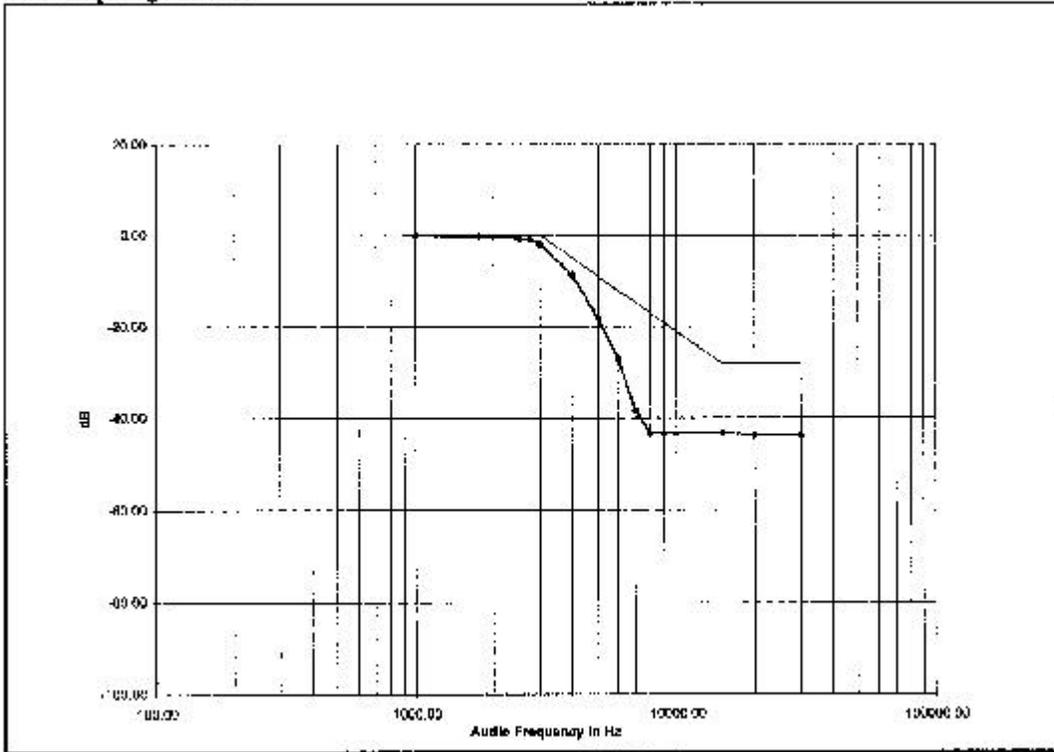
Measured RF Output Power:	40.0 Watts
Measured DC Voltage:	13.06 Volts
Measured DC Input Current:	8.80 Amperes
Measured DC Input Power:	114.93 Watts

TRANSMIT AUDIO RESPONSE

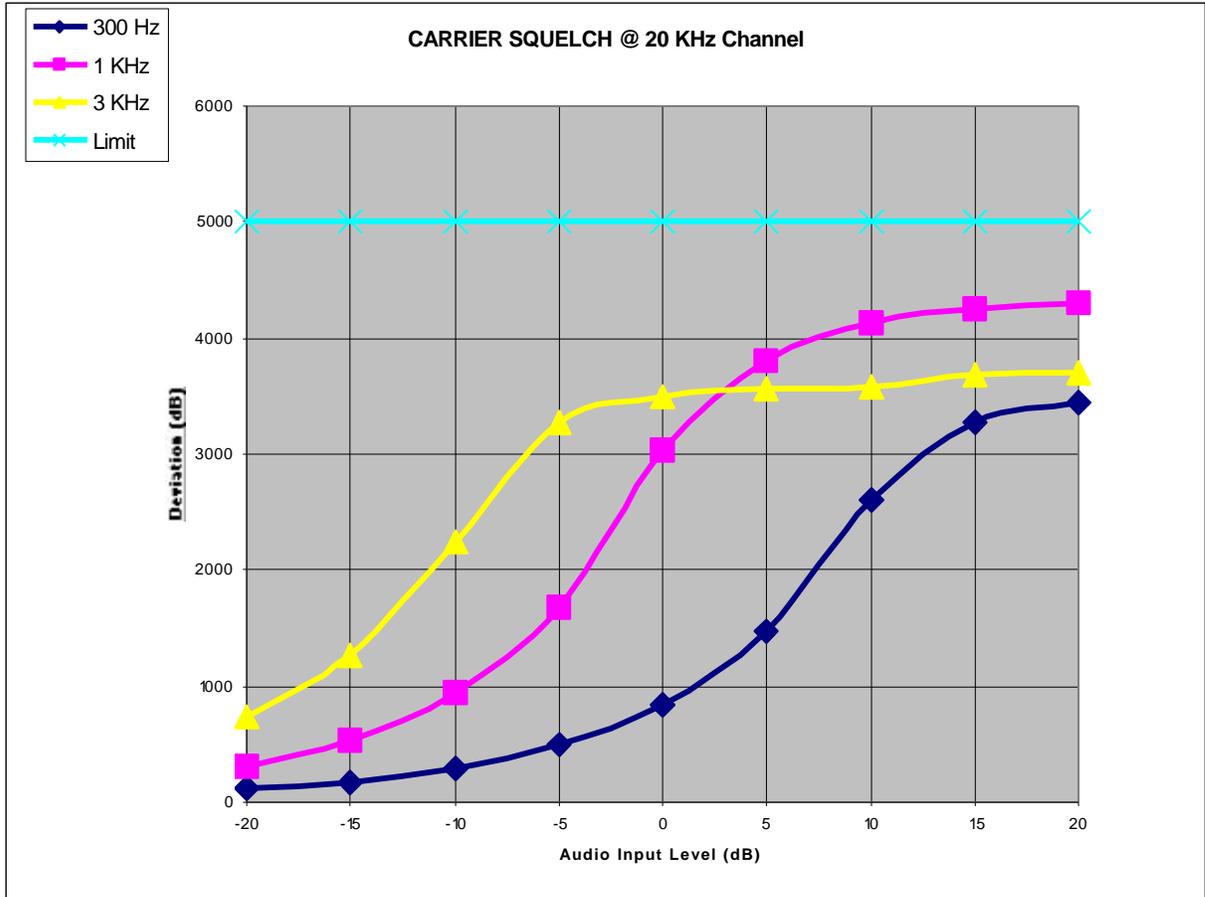


POST-LIMITER LOWPASS FILTER RESPONSE

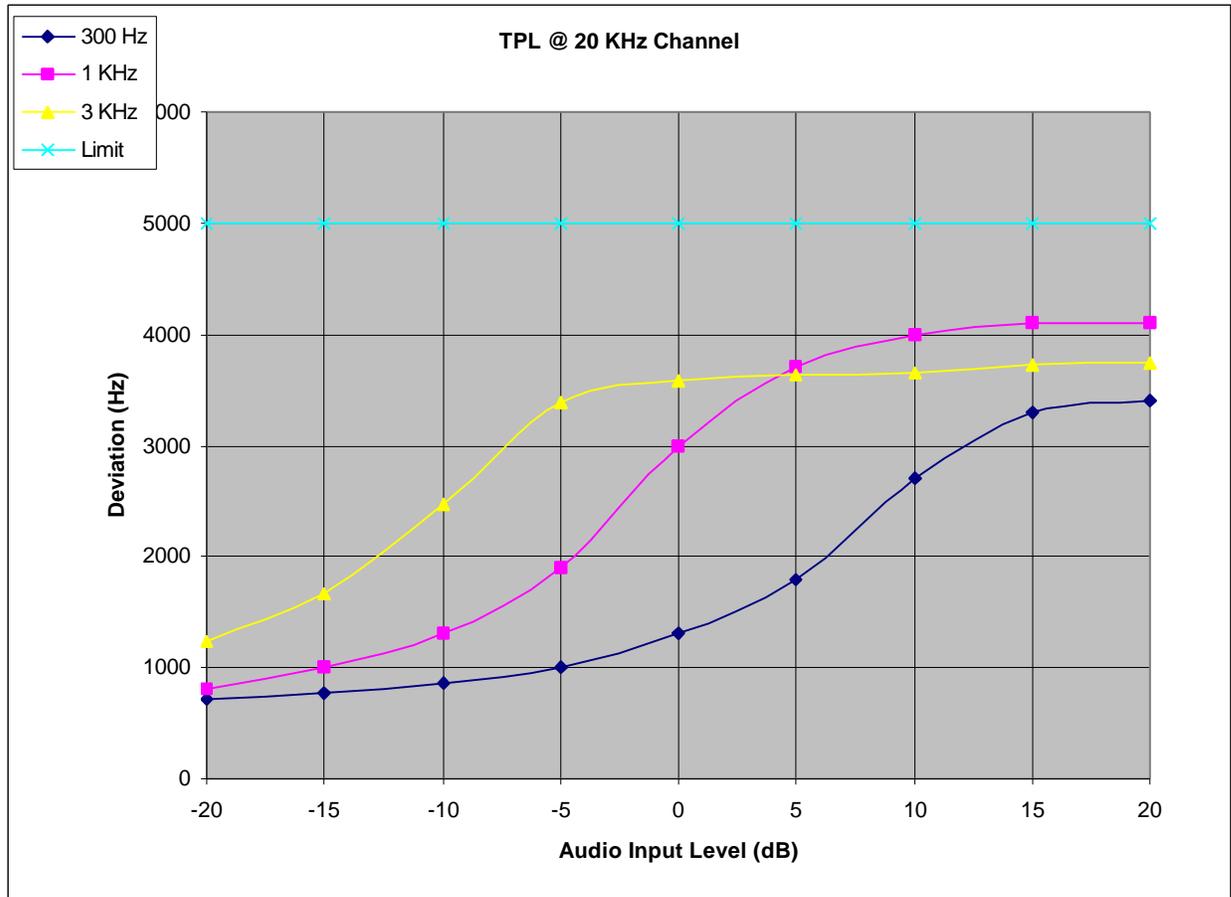
Channel Spacing : 20KHz



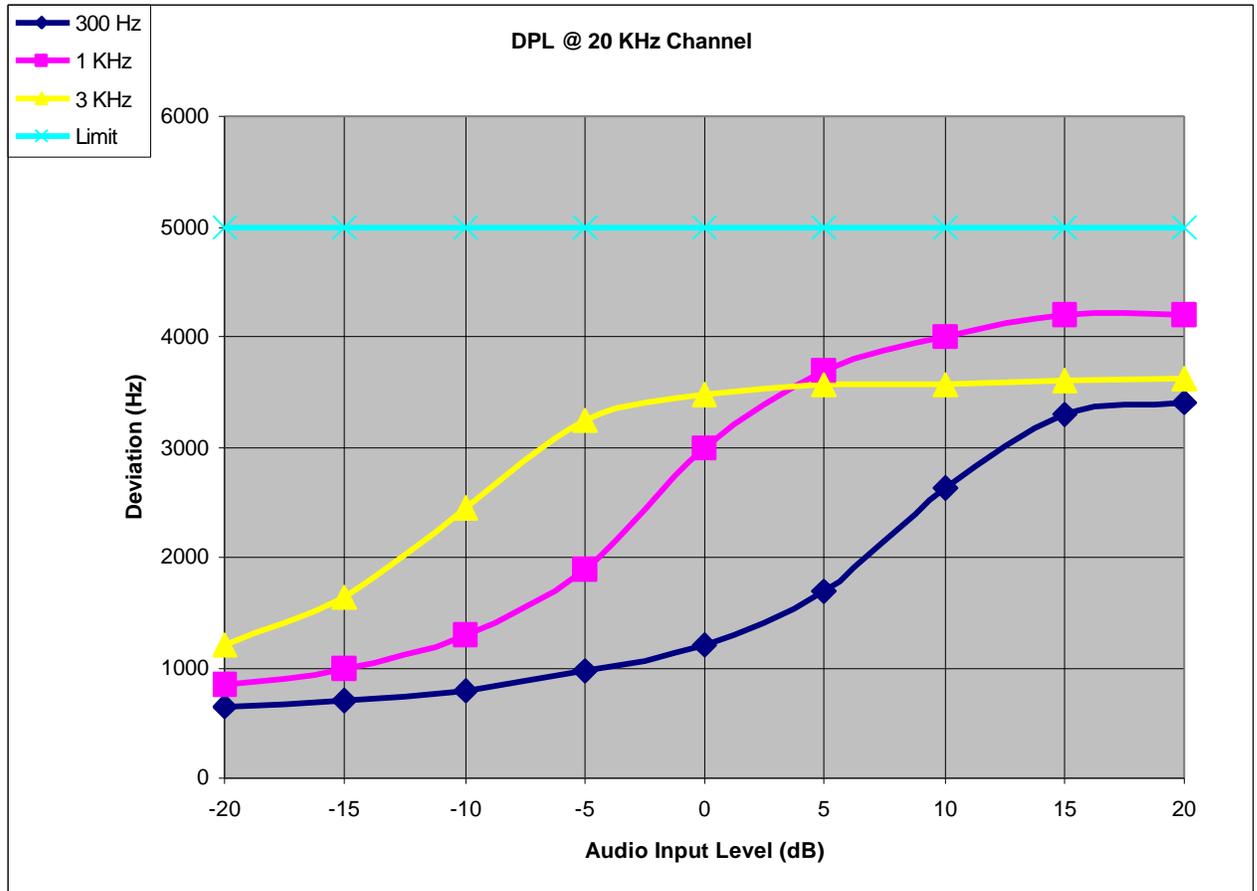
MODULATION LIMITING CHARACTERISTIC  
CARRIER SQUELCH MODE



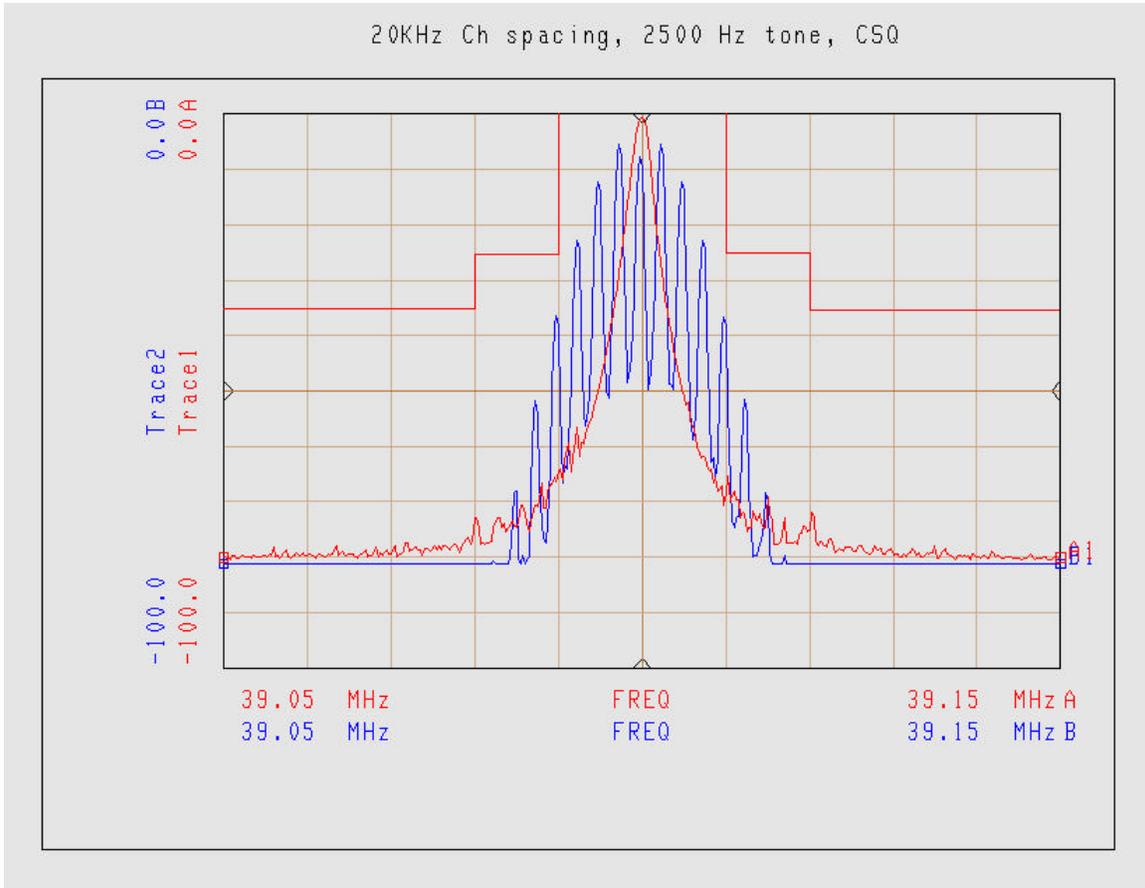
MODULATION LIMITING CHARACTERISTIC  
TONE PL MODE



MODULATION LIMITING CHARACTERISTIC  
DPL MODE

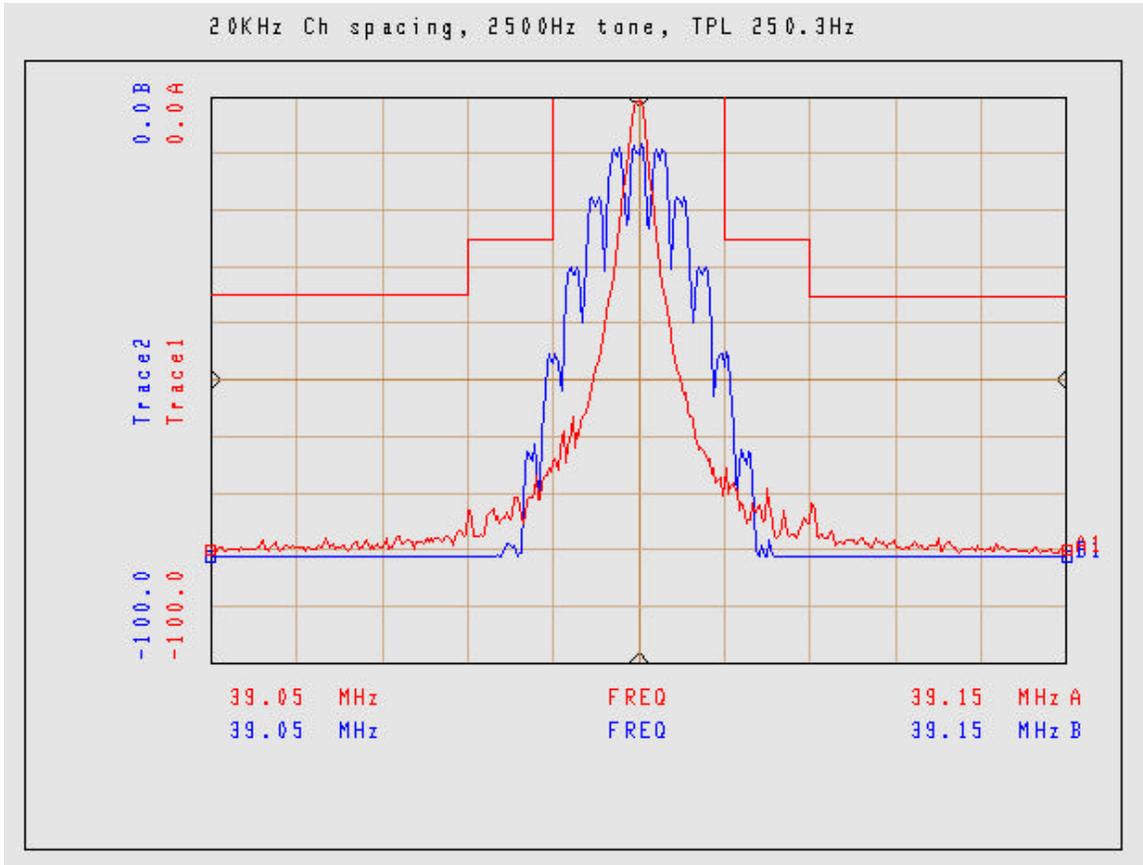


**OCCUPIED BANDWIDTH MEASUREMENT FOR  
20 kHz CHANNEL SPACING, 2500 Hz TONE, CARRIER SQUELCH  
EMISSION MASK: B**



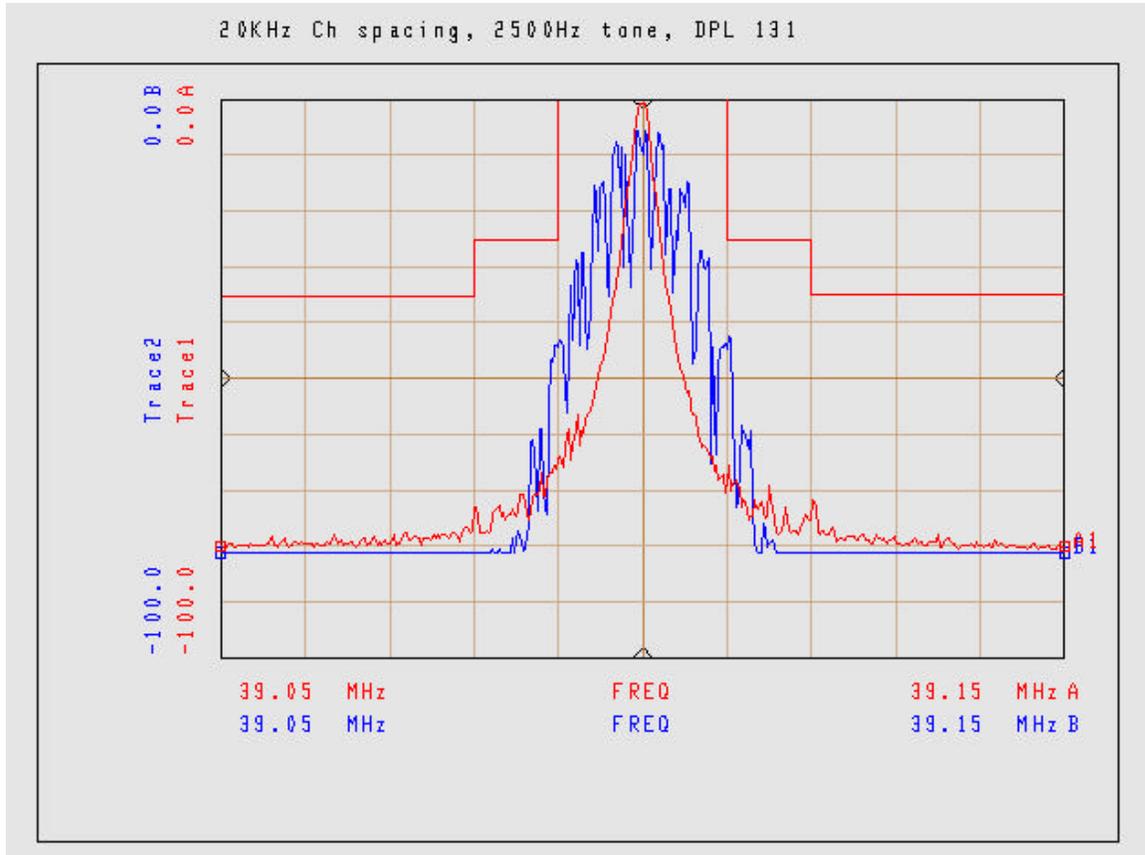
CENTER FREQUENCY:	39.100 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

**OCCUPIED BANDWIDTH MEASUREMENT FOR  
20 kHz CHANNEL SPACING, 2500 Hz TONE, PL  
EMISSION MASK: B**



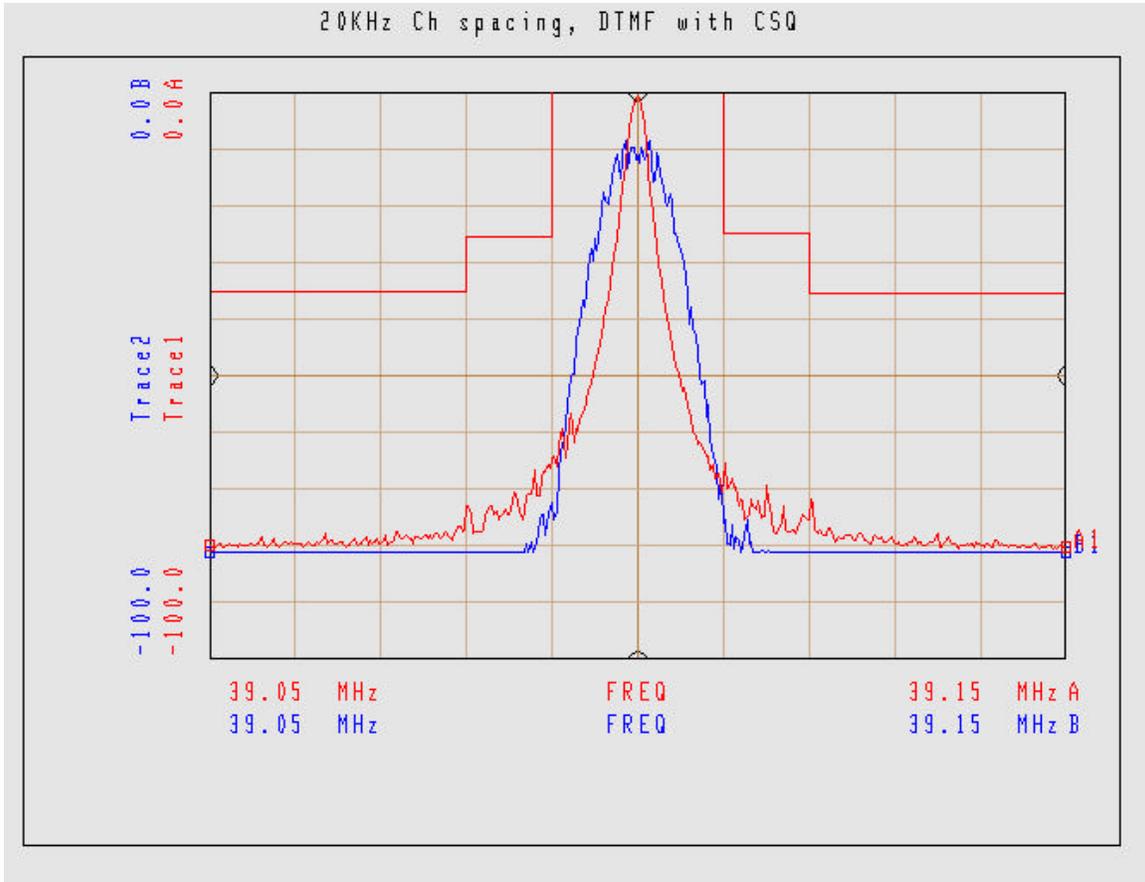
CENTER FREQUENCY:	39.100 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

**OCCUPIED BANDWIDTH MEASUREMENT FOR  
20 kHz CHANNEL SPACING, 2500 Hz TONE, DPL  
EMISSION MASK: B**



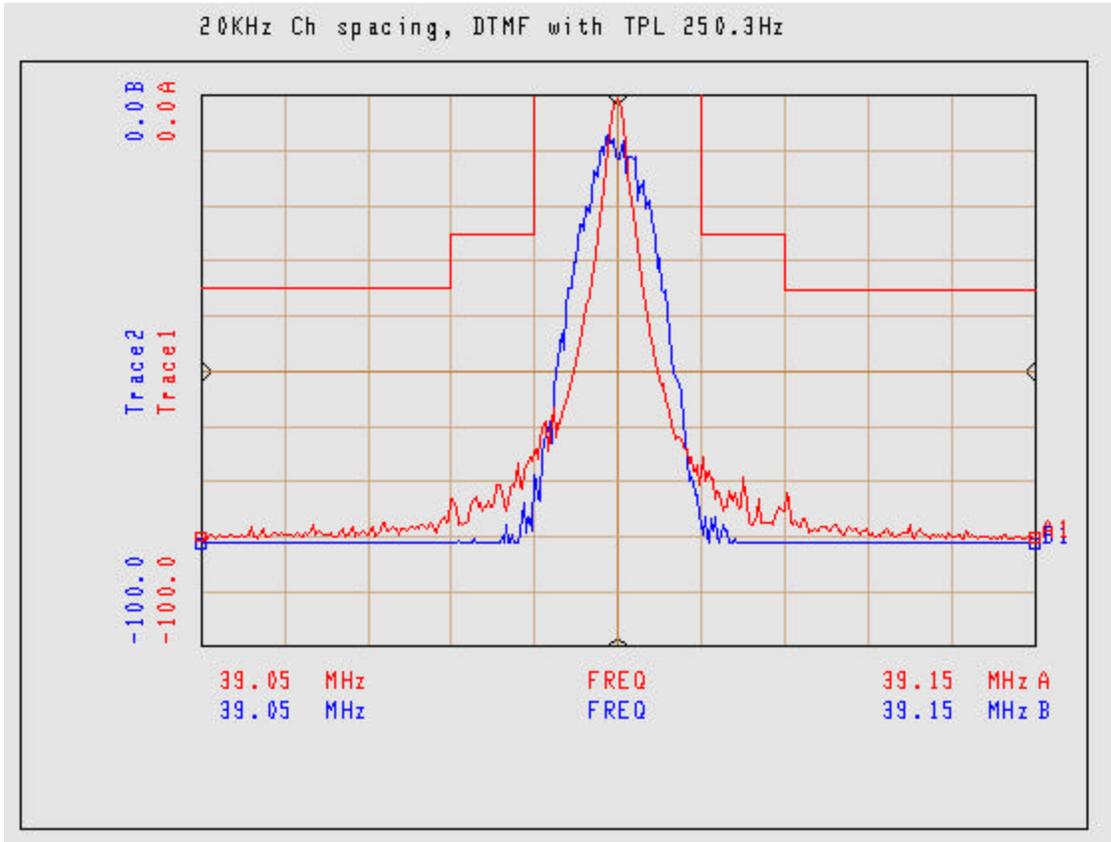
CENTER FREQUENCY:	39.100 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

**OCCUPIED BANDWIDTH MEASUREMENT FOR  
20 kHz CHANNEL SPACING, DTMF MODULATION, CARRIER SQUELCH  
EMISSION MASK: B**



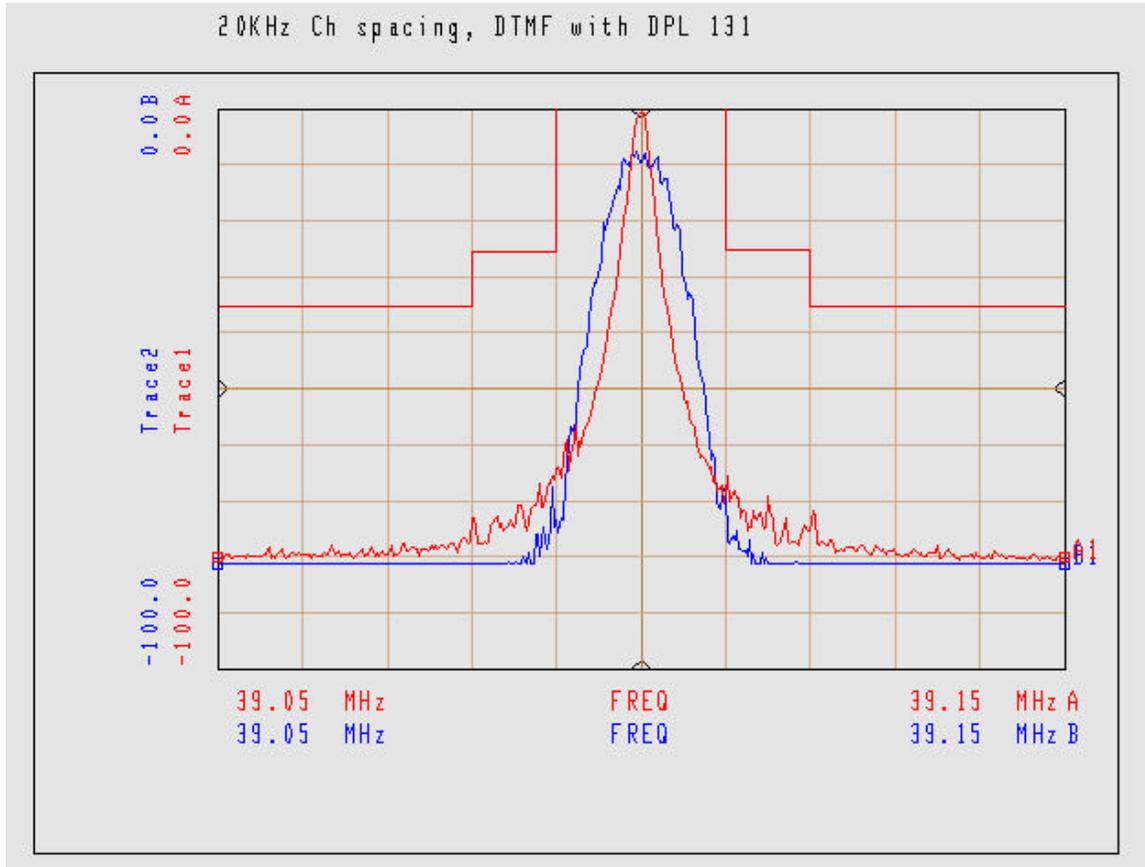
CENTER FREQUENCY:	39.100 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR  
 20 KHz CHANNEL SPACING, DTMF MODULATION, PL  
 EMISSION MASK: B



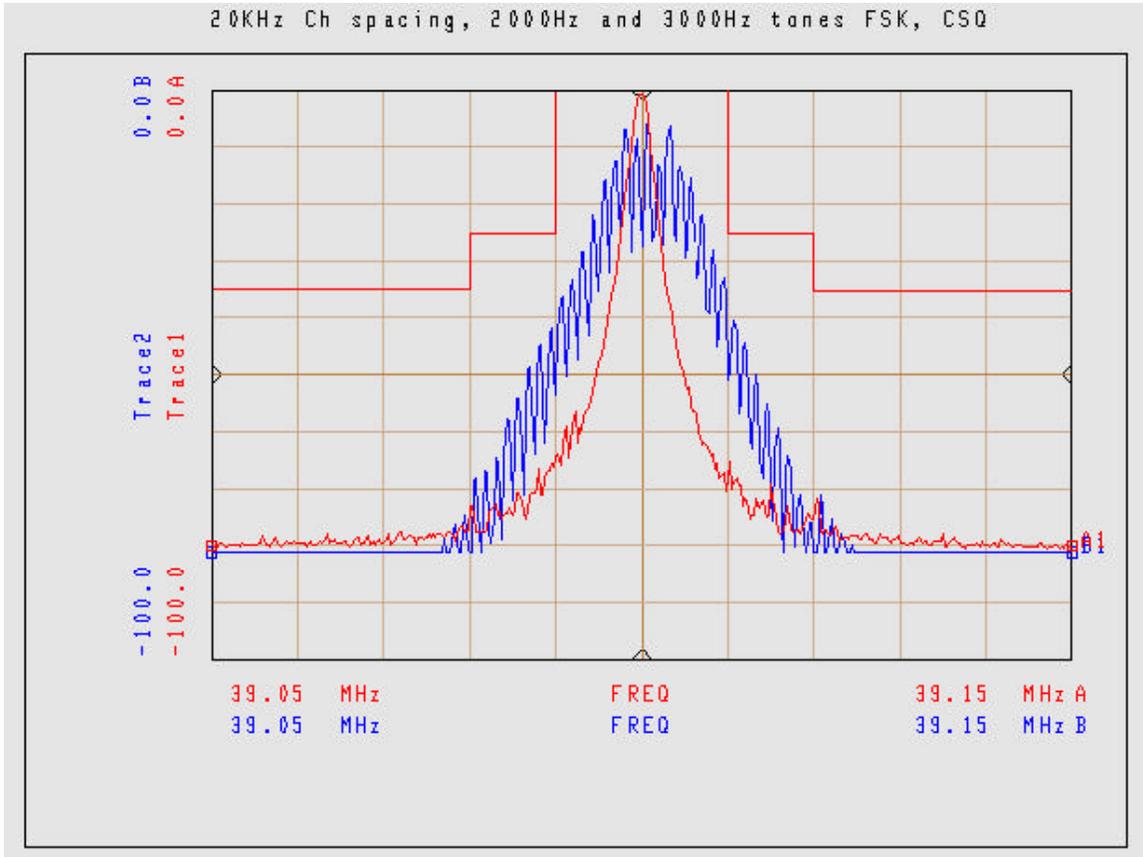
CENTER FREQUENCY:	39.100 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

**OCCUPIED BANDWIDTH MEASUREMENT FOR  
20 kHz CHANNEL SPACING, DTMF MODULATION, DPL  
EMISSION MASK: B**



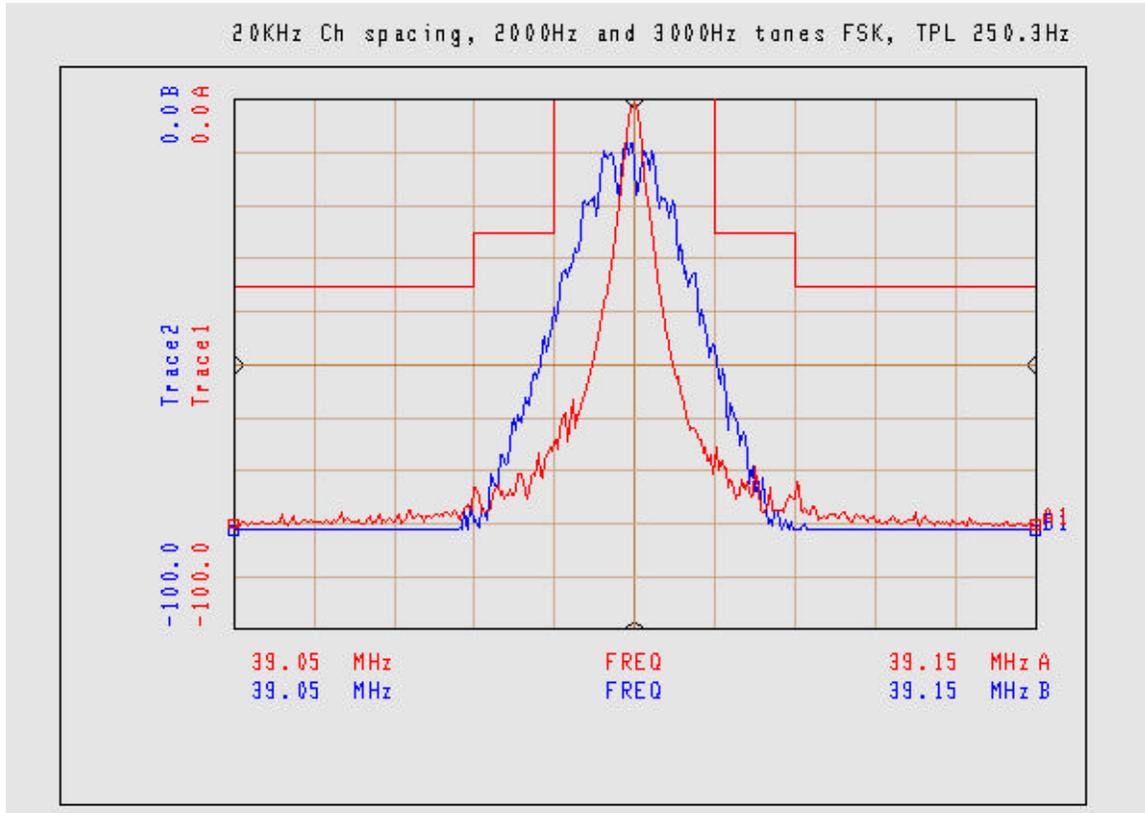
CENTER FREQUENCY:	39.100 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

**OCCUPIED BANDWIDTH MEASUREMENT FOR  
20 kHz CHANNEL SPACING, 2000/3000 Hz FSK, CARRIER SQUELCH  
EMISSION MASK: B**



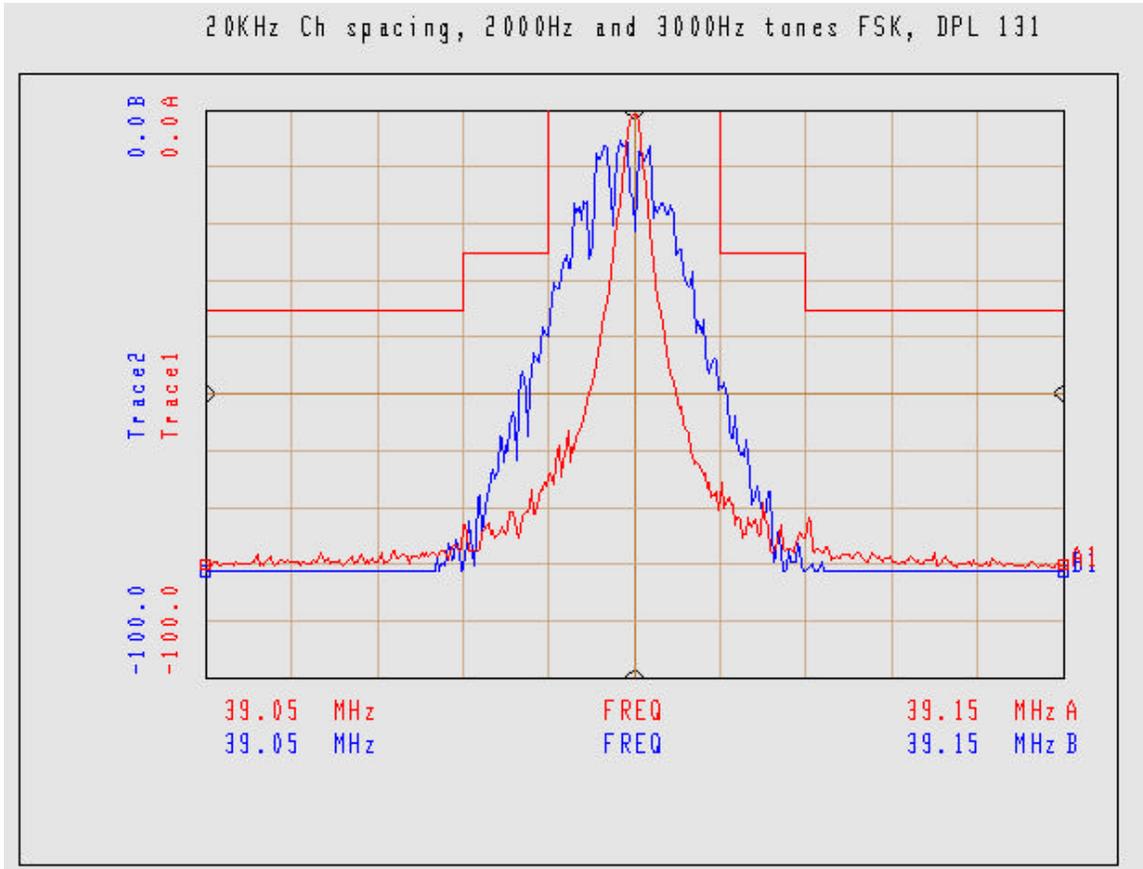
CENTER FREQUENCY:	39.100 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR  
20 kHz CHANNEL SPACING, 2000/3000 Hz FSK, PL  
EMISSION MASK: B



CENTER FREQUENCY:	39.100 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

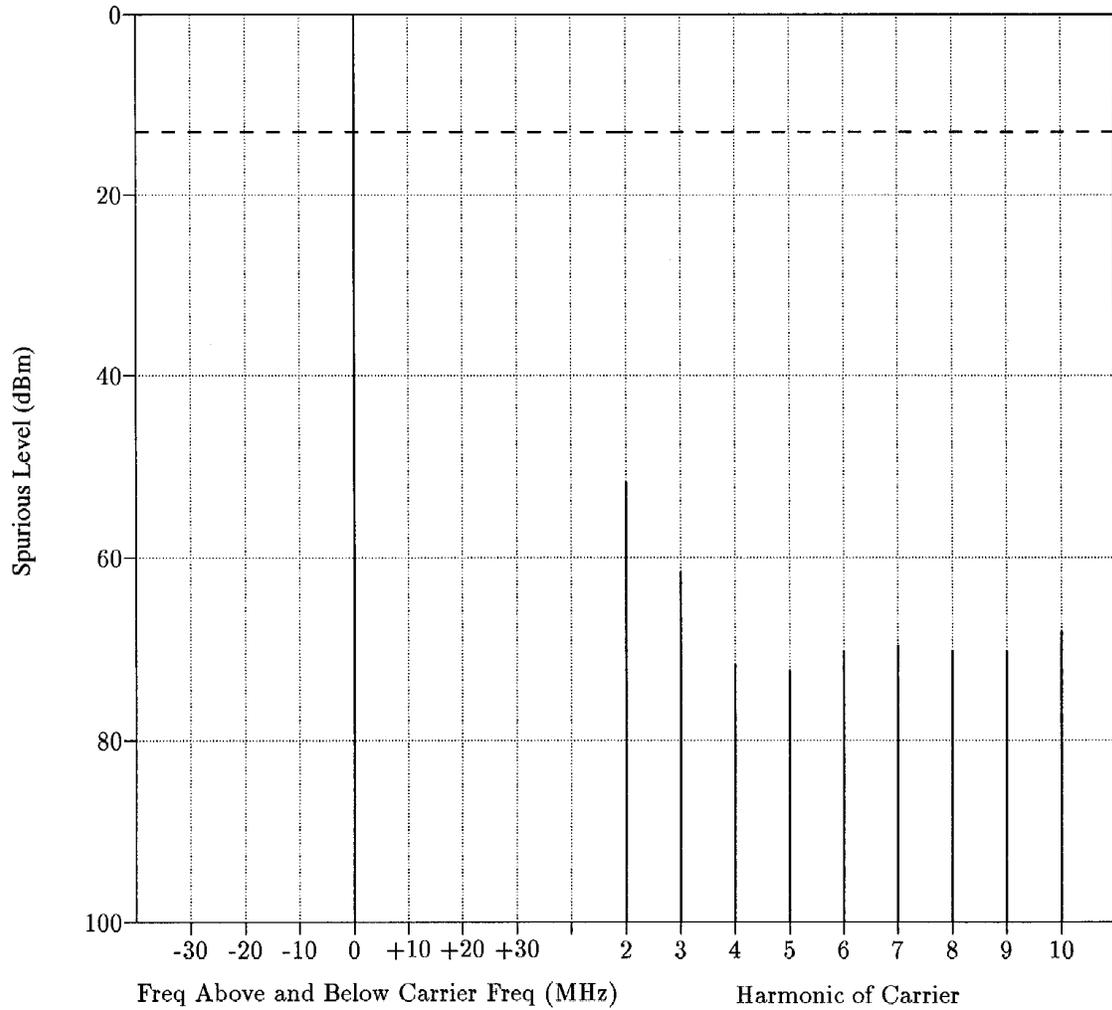
OCCUPIED BANDWIDTH MEASUREMENT FOR  
 20 kHz CHANNEL SPACING, 2000/3000 Hz FSK, DPL  
 EMISSION MASK: B



CENTER FREQUENCY:	39.100 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

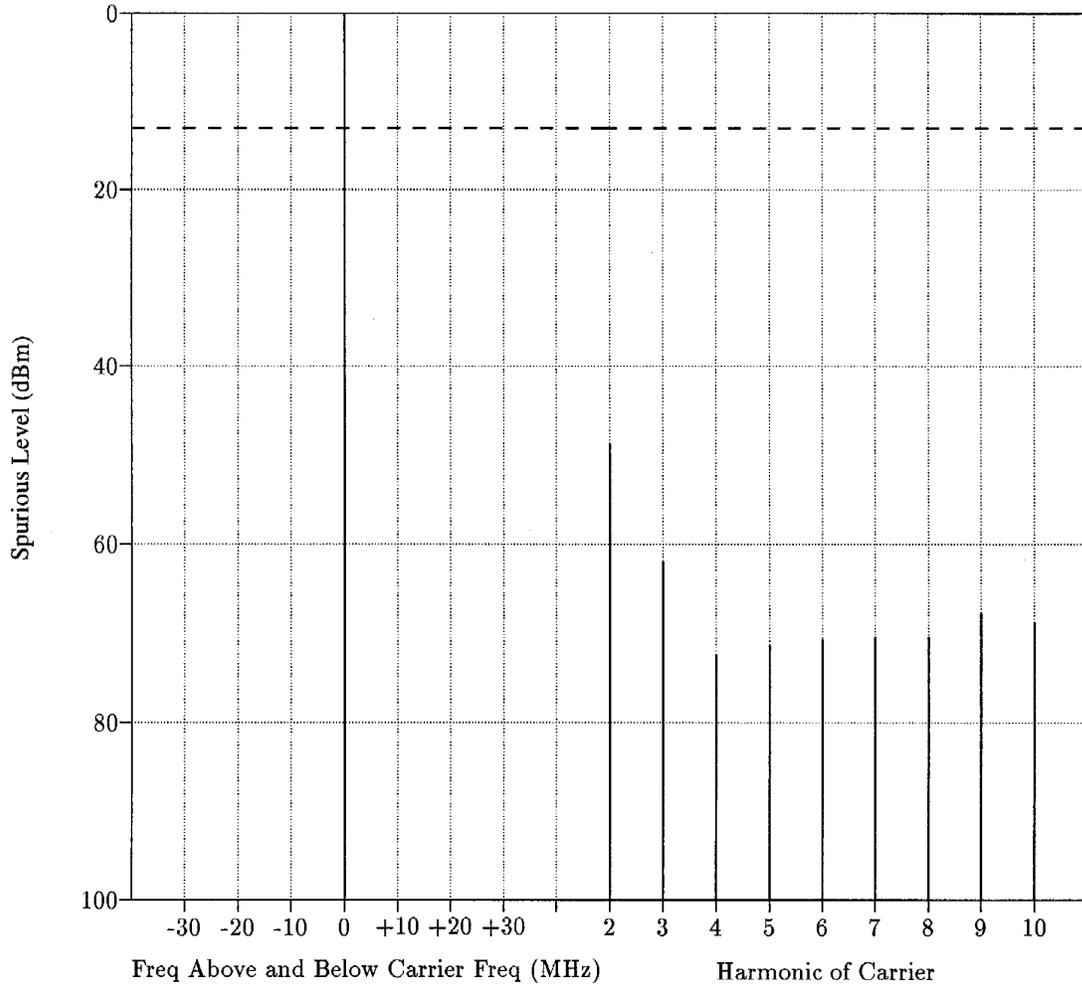
**CONDUCTED SPURIOUS EMISSIONS  
HIGH POWER, 36.100 MHz**

**Transmitter Type: See Above**  
**Power Output: 72.00W at 36.100MHz**



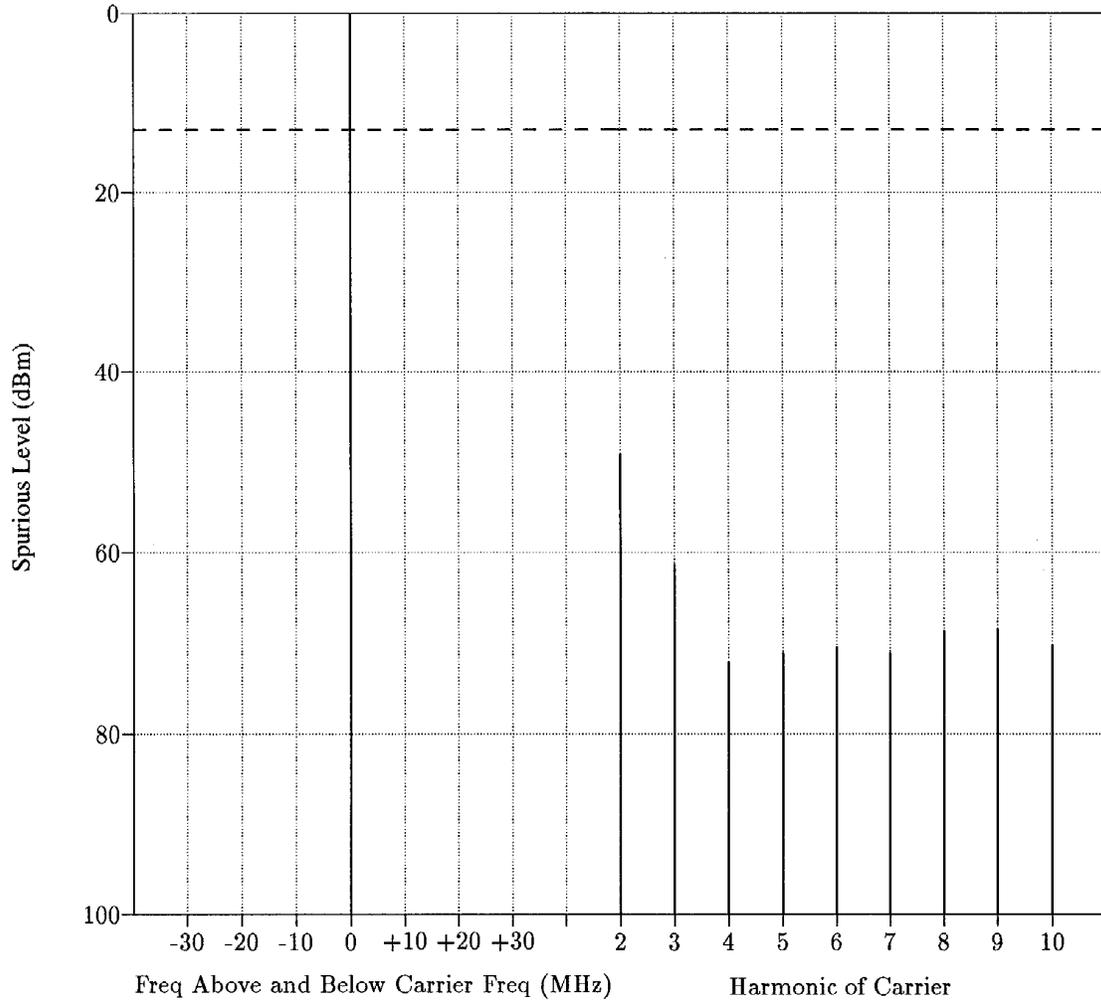
**CONDUCTED SPURIOUS EMISSIONS  
HIGH POWER, 39.100 MHz**

**Transmitter Type: See Above**  
**Power Output: 72.00W at 39.100MHz**



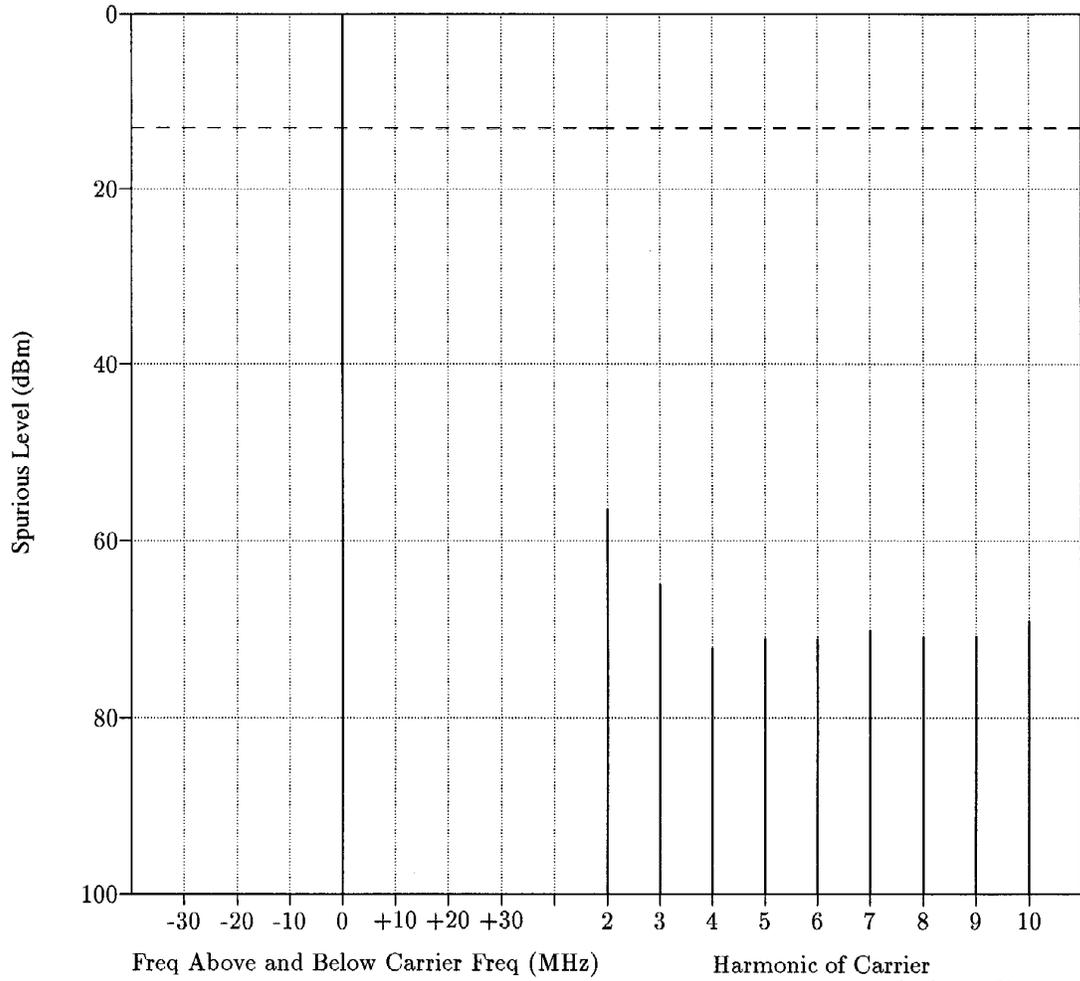
**CONDUCTED SPURIOUS EMISSIONS  
HIGH POWER, 41.900 MHz**

**Transmitter Type: See Above**  
**Power Output: 72.00W at 41.900MHz**



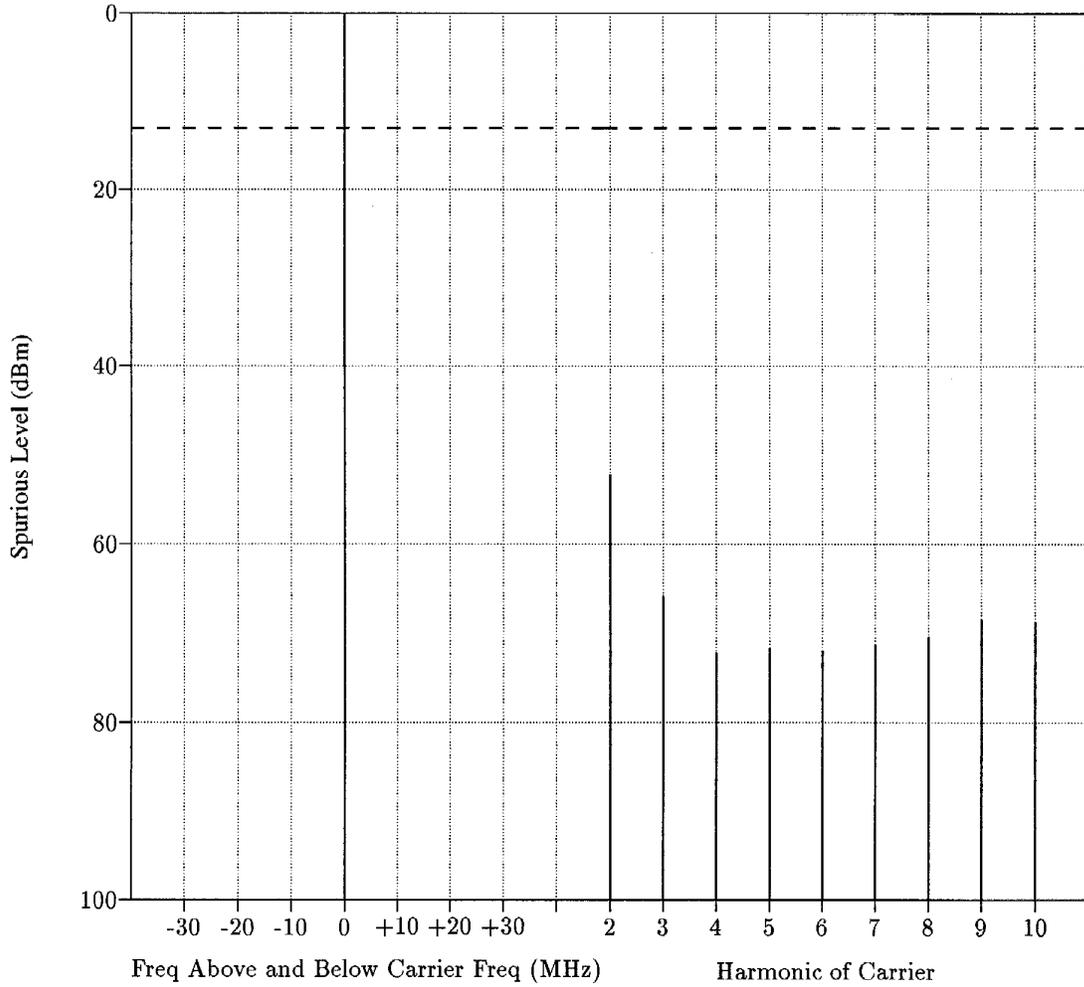
**CONDUCTED SPURIOUS EMISSIONS  
LOW POWER, 36.100 MHz**

Transmitter Type: See Above  
Power Output: 40.00W at 36.100MHz



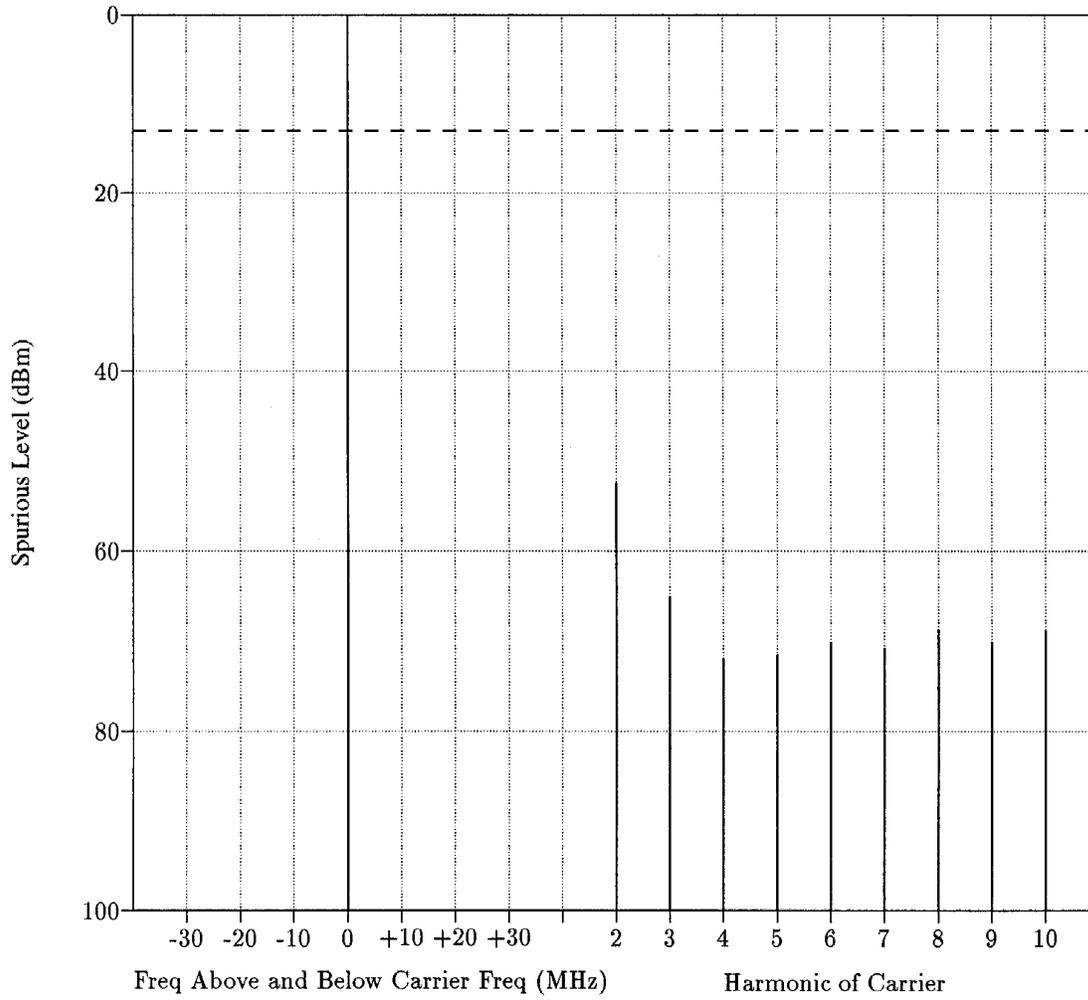
**CONDUCTED SPURIOUS EMISSIONS  
LOW POWER, 39.100 MHz**

**Transmitter Type: See Above**  
**Power Output: 40.00W at 39.100MHz**



**CONDUCTED SPURIOUS EMISSIONS  
LOW POWER, 41.900 MHz**

**Transmitter Type: See Above**  
**Power Output: 40.00W at 41.900MHz**



**RADIATED SPURIOUS EMISSIONS  
HIGH POWER, 39.000 MHz, HORIZONTAL POLARIZATION  
OUTPUT POWER = 72.0 WATTS**

All of the measured radiated emissions were found to be greater than -100 dBc (more than 100 dB below the carrier level), which is the lower limit of the normally supplied graph. Therefore, this data is presented in tabular format:

Harmonic	Frequency	Level (dBm)	Limit (dBm)	Level (dBc)	Limit (dBc)
2 <sup>nd</sup>	78.0 MHz	-78.7	-13.0	-127.3	-61.6
3 <sup>rd</sup>	117.0 MHz	-65.1	-13.0	-113.7	-61.6
4 <sup>th</sup>	156.0 MHz	-60.7	-13.0	-109.3	-61.6
5 <sup>th</sup>	195.0 MHz	-64.7	-13.0	-113.3	-61.6
6 <sup>th</sup>	234.0 MHz	-56.3	-13.0	-104.9	-61.6
7 <sup>th</sup>	273.0 MHz	-66.4	-13.0	-115.0	-61.6
8 <sup>th</sup>	312.0 MHz	-64.3	-13.0	-112.9	-61.6
9 <sup>th</sup>	351.0 MHz	-61.7	-13.0	-110.3	-61.6
10 <sup>th</sup>	390.0 MHz	-62.2	-13.0	-110.8	-61.6

**RADIATED SPURIOUS EMISSIONS  
HIGH POWER, 39.000 MHz, VERTICAL POLARIZATION  
OUTPUT POWER = 72.0 WATTS**

All of the measured radiated emissions were found to be greater than -100 dBc (more than 100 dB below the carrier level), which is the lower limit of the normally supplied graph. Therefore, this data is presented in tabular format:

Harmonic	Frequency	Level (dBm)	Limit (dBm)	Level (dBc)	Limit (dBc)
2 <sup>nd</sup>	78.0 MHz	-76.8	-13.0	-125.4	-61.6
3 <sup>rd</sup>	117.0 MHz	-60.7	-13.0	-109.3	-61.6
4 <sup>th</sup>	156.0 MHz	-62.5	-13.0	-111.1	-61.6
5 <sup>th</sup>	195.0 MHz	-66.4	-13.0	-115.0	-61.6
6 <sup>th</sup>	234.0 MHz	-60.1	-13.0	-108.7	-61.6
7 <sup>th</sup>	273.0 MHz	-67.1	-13.0	-115.7	-61.6
8 <sup>th</sup>	312.0 MHz	-64.5	-13.0	-113.1	-61.6
9 <sup>th</sup>	351.0 MHz	-60.8	-13.0	-109.4	-61.6
10 <sup>th</sup>	390.0 MHz	-63.8	-13.0	-112.4	-61.6

**RADIATED SPURIOUS EMISSIONS  
LOW POWER, 39.000 MHz, HORIZONTAL POLARIZATION  
OUTPUT POWER = 40.0 WATTS**

All of the measured radiated emissions were found to be greater than -100 dBc (more than 100 dB below the carrier level), which is the lower limit of the normally supplied graph. Therefore, this data is presented in tabular format:

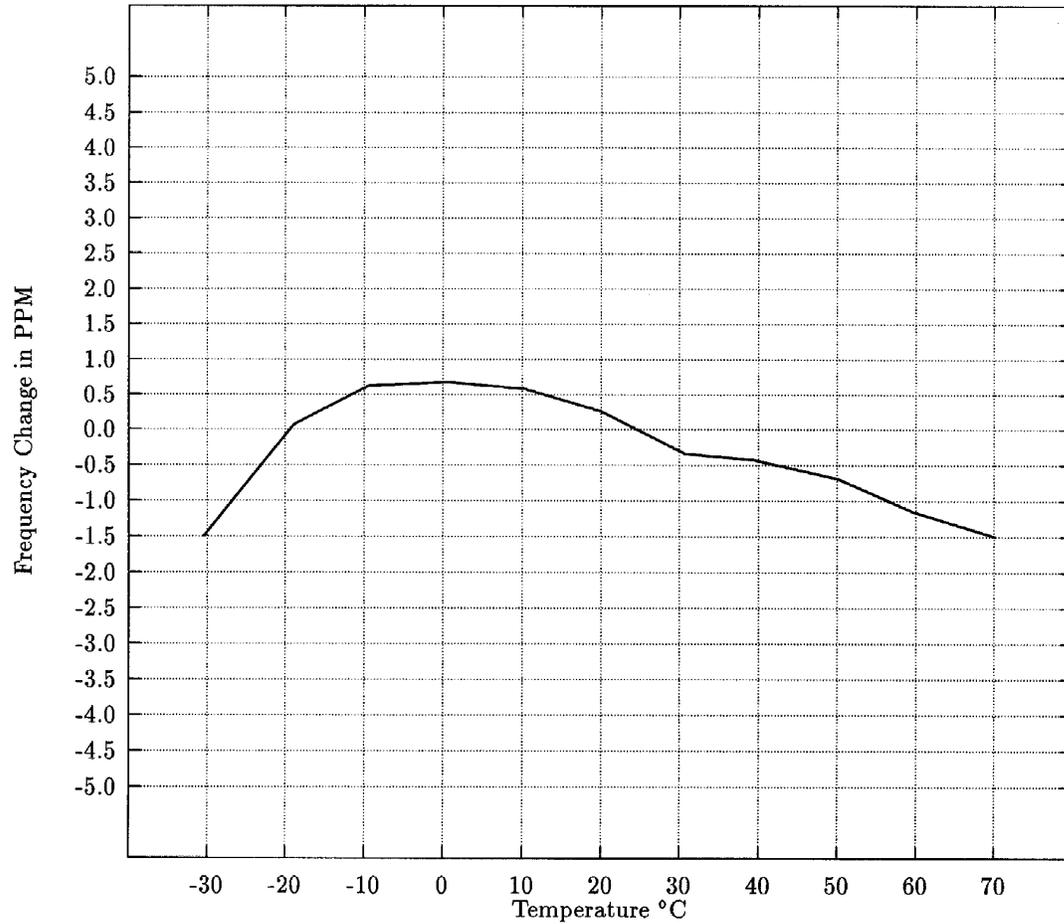
Harmonic	Frequency	Level (dBm)	Limit (dBm)	Level (dBc)	Limit (dBc)
2 <sup>nd</sup>	78.0 MHz	-76.4	-13.0	-122.4	-59.0
3 <sup>rd</sup>	117.0 MHz	-66.2	-13.0	-112.2	-59.0
4 <sup>th</sup>	156.0 MHz	-70.6	-13.0	-116.6	-59.0
5 <sup>th</sup>	195.0 MHz	-68.9	-13.0	-114.9	-59.0
6 <sup>th</sup>	234.0 MHz	-69.0	-13.0	-115.0	-59.0
7 <sup>th</sup>	273.0 MHz	-67.0	-13.0	-113.0	-59.0
8 <sup>th</sup>	312.0 MHz	-66.9	-13.0	-112.9	-59.0
9 <sup>th</sup>	351.0 MHz	-62.8	-13.0	-108.8	-59.0
10 <sup>th</sup>	390.0 MHz	-64.3	-13.0	-110.3	-59.0

**RADIATED SPURIOUS EMISSIONS  
LOW POWER, 39.000 MHz, VERTICAL POLARIZATION  
OUTPUT POWER = 40.0 WATTS**

All of the measured radiated emissions were found to be greater than -100 dBc (more than 100 dB below the carrier level), which is the lower limit of the normally supplied graph. Therefore, this data is presented in tabular format:

Harmonic	Frequency	Level (dBm)	Limit (dBm)	Level (dBc)	Limit (dBc)
2 <sup>nd</sup>	78.0 MHz	-72.7	-13.0	-118.7	-59.0
3 <sup>rd</sup>	117.0 MHz	-66.1	-13.0	-112.1	-59.0
4 <sup>th</sup>	156.0 MHz	-71.5	-13.0	-117.5	-59.0
5 <sup>th</sup>	195.0 MHz	-71.5	-13.0	-117.5	-59.0
6 <sup>th</sup>	234.0 MHz	-69.4	-13.0	-115.4	-59.0
7 <sup>th</sup>	273.0 MHz	-67.2	-13.0	-113.2	-59.0
8 <sup>th</sup>	312.0 MHz	-65.5	-13.0	-111.5	-59.0
9 <sup>th</sup>	351.0 MHz	-63.0	-13.0	-109.0	-59.0
10 <sup>th</sup>	390.0 MHz	-63.4	-13.0	-109.4	-59.0

**FREQUENCY STABILITY VS. TEMPERATURE**  
**SPECIFIED LIMITS:  $\pm 5$  PPM (-30 TO +60 DEGREES C)**



**FREQUENCY STABILITY VS. SUPPLY VOLTAGE**  
**REFERENCE 0% = 13.6 VOLTS DC**

