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

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7E-12 - 25 kHz 2500 Hz Audio and DPL Modulation

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INDEX TO SUBMITTED MEASURED DATA (continued)

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- 7I-8 - 1 Watt, 25 kHz De-Key Decay Time

EXHIBIT 7A – RF OUTPUT DATA**HIGH POWER SETTING, FREQUENCY 136.025 MHz**

Measured RF Output Power:	30.0 Watts
Measured DC Voltage:	13.58 Volts
Measured DC Input Current:	4.43 Amperes
Measured DC Input Power:	60.16 Watts

LOW POWER SETTING, FREQUENCY 136.025 MHz

Measured RF Output Power:	1.0 Watts
Measured DC Voltage:	13.58 Volts
Measured DC Input Current:	0.98 Amperes
Measured DC Input Power:	13.31 Watts

HIGH POWER SETTING, FREQUENCY 155.025 MHz

Measured RF Output Power:	30.0 Watts
Measured DC Voltage:	13.58 Volts
Measured DC Input Current:	4.92 Amperes
Measured DC Input Power:	66.81 Watts

LOW POWER SETTING, FREQUENCY 155.025 MHz

Measured RF Output Power:	1.0 Watts
Measured DC Voltage:	13.58 Volts
Measured DC Input Current:	1.09 Amperes
Measured DC Input Power:	14.80 Watts

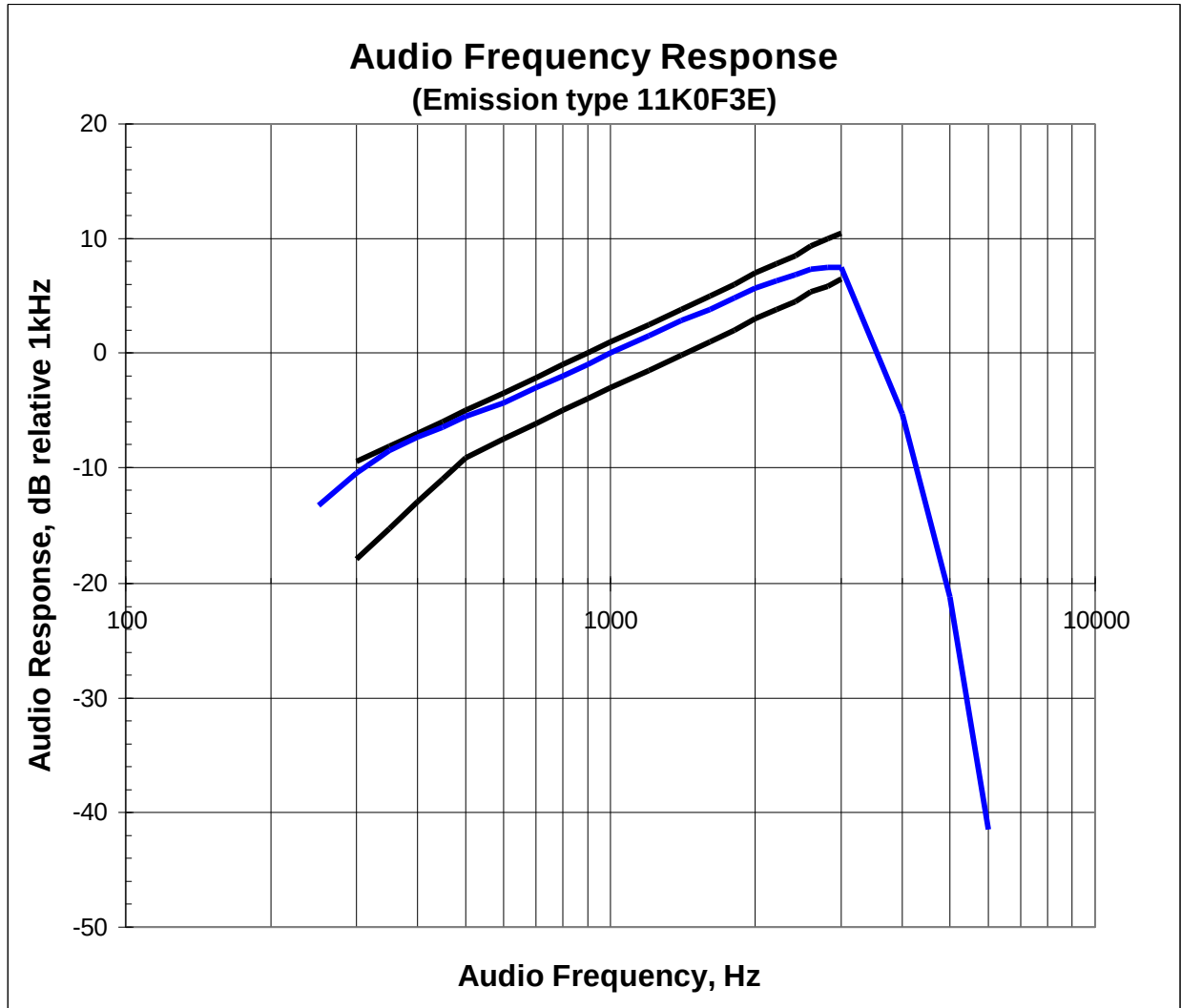
HIGH POWER SETTING, FREQUENCY 173.975 MHz

Measured RF Output Power:	30.0 Watts
Measured DC Voltage:	13.58 Volts
Measured DC Input Current:	5.07 Amperes
Measured DC Input Power:	68.85 Watts

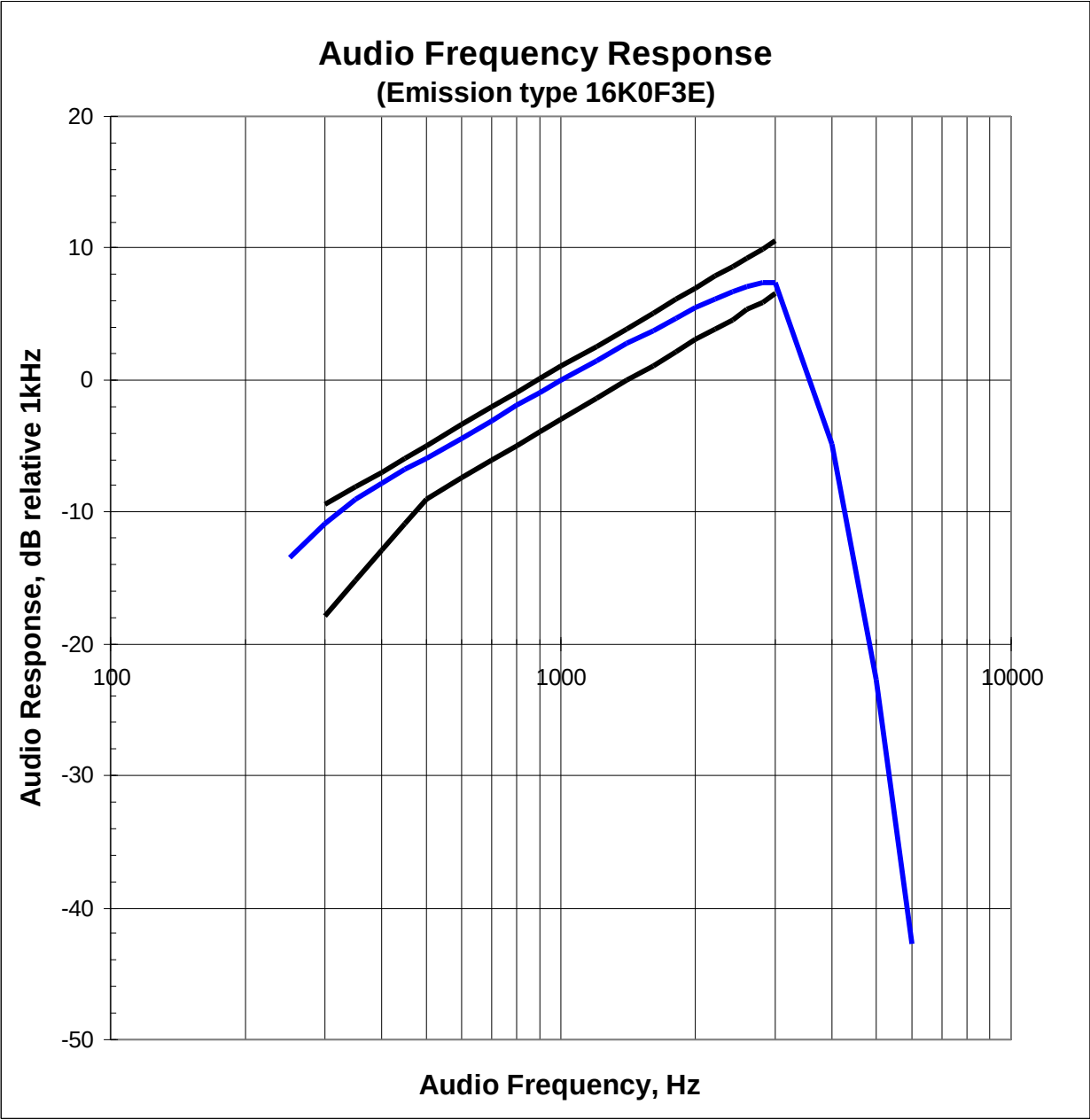
LOW POWER SETTING, FREQUENCY 173.975 MHz

Measured RF Output Power:	1.0 Watts
Measured DC Voltage:	13.58 Volts
Measured DC Input Current:	1.12 Amperes
Measured DC Input Power:	15.21 Watt

TRANSMIT AUDIO RESPONSE
12.5 kHz CHANNEL SPACING

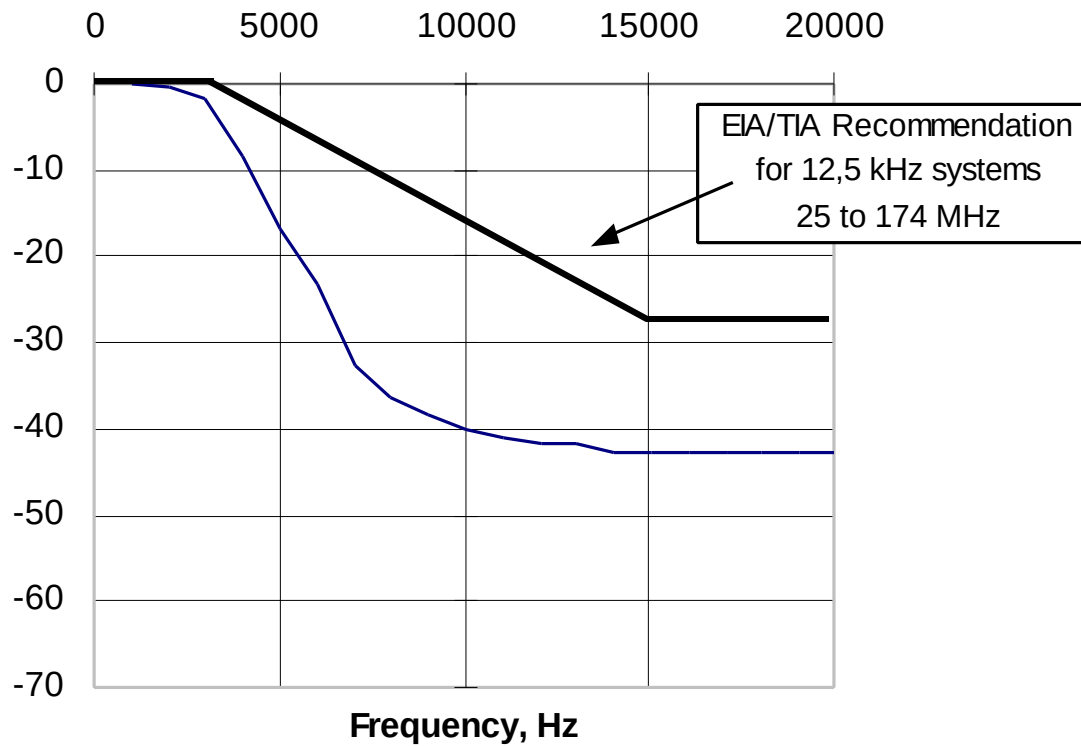


TRANSMIT AUDIO RESPONSE
25 kHz CHANNEL SPACING



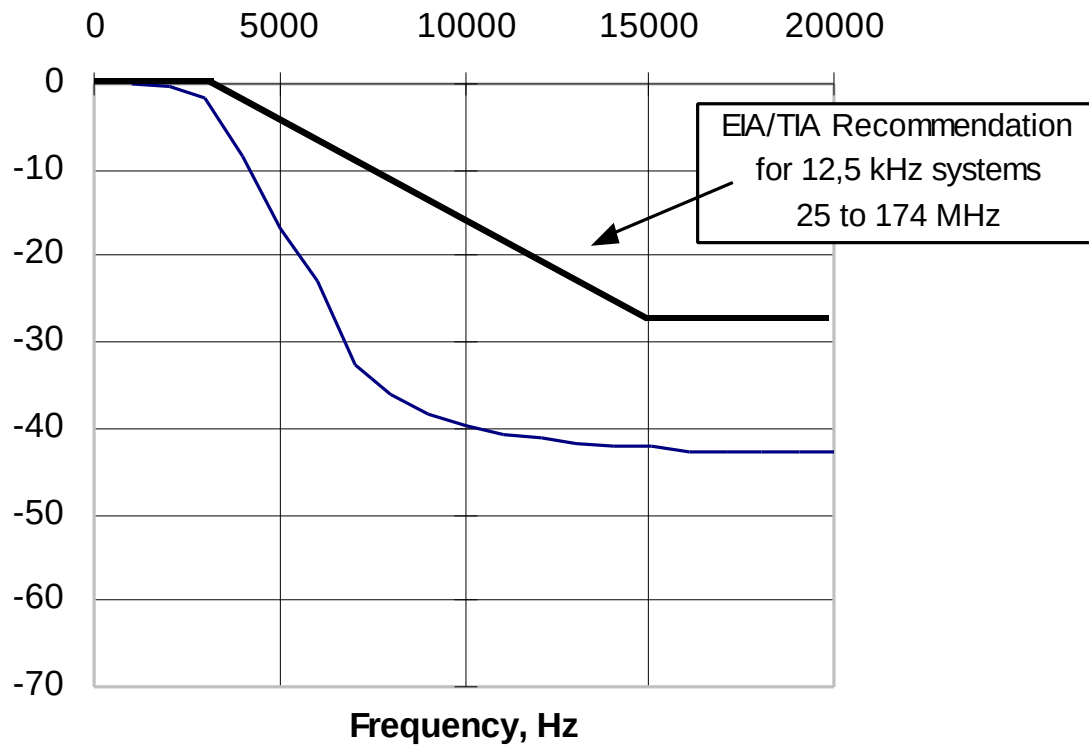
POST-LIMITER LOWPASS FILTER RESPONSE
12.5 kHz CHANNEL SPACING

(Emission type 11K0F3E)

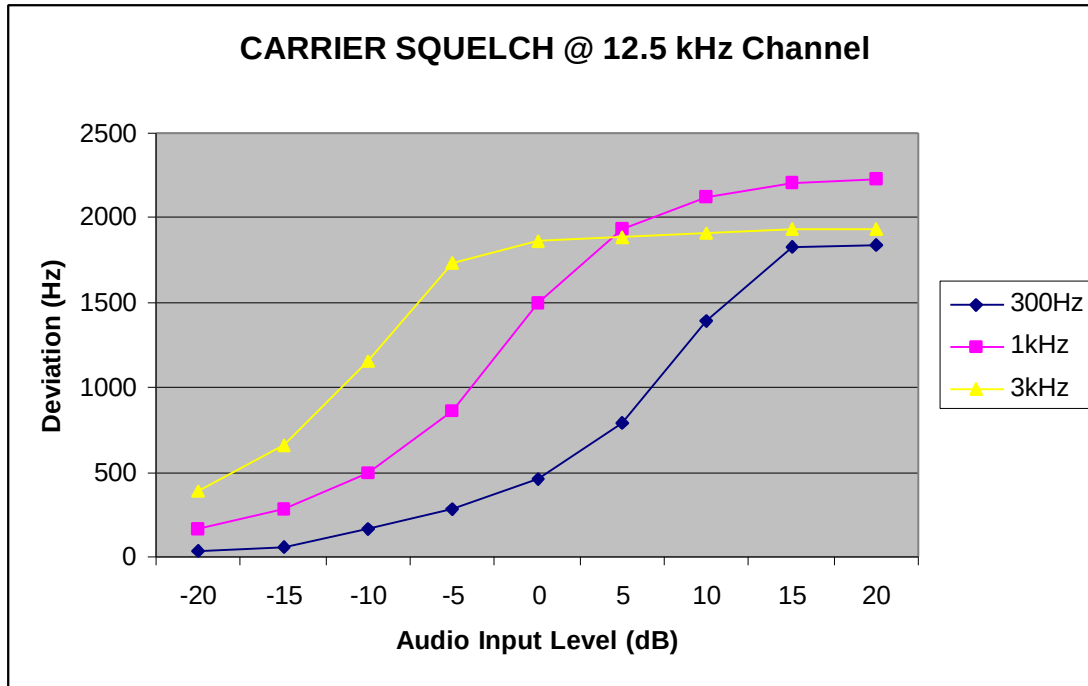


POST-LIMITER LOWPASS FILTER RESPONSE
25 kHz CHANNEL SPACING

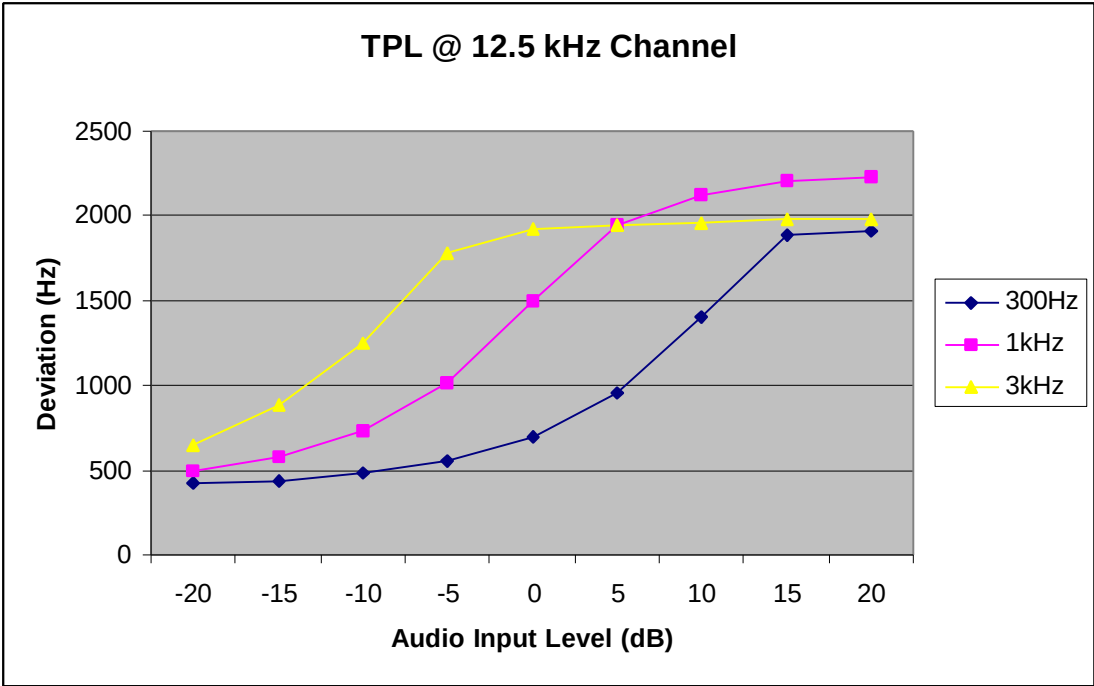
(Emission type 16K0F3E)



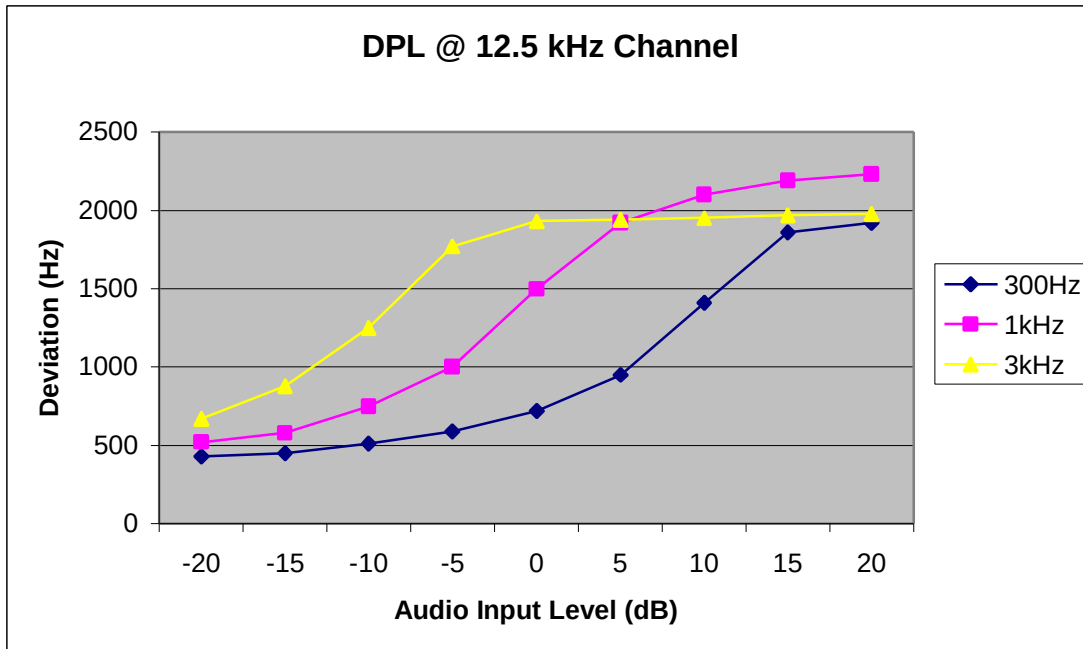
MODULATION LIMITING CHARACTERISTIC
12.5 kHz CHANNEL SPACING, CARRIER SQUELCH MODE



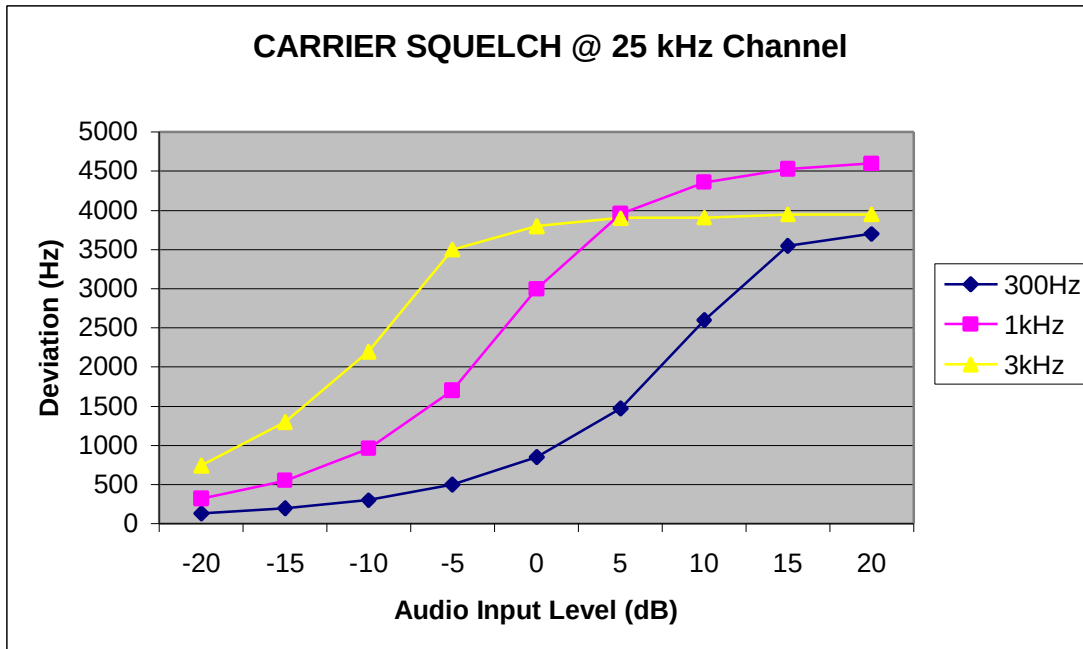
MODULATION LIMITING CHARACTERISTIC
12.5 kHz CHANNEL SPACING, TONE PL MODE



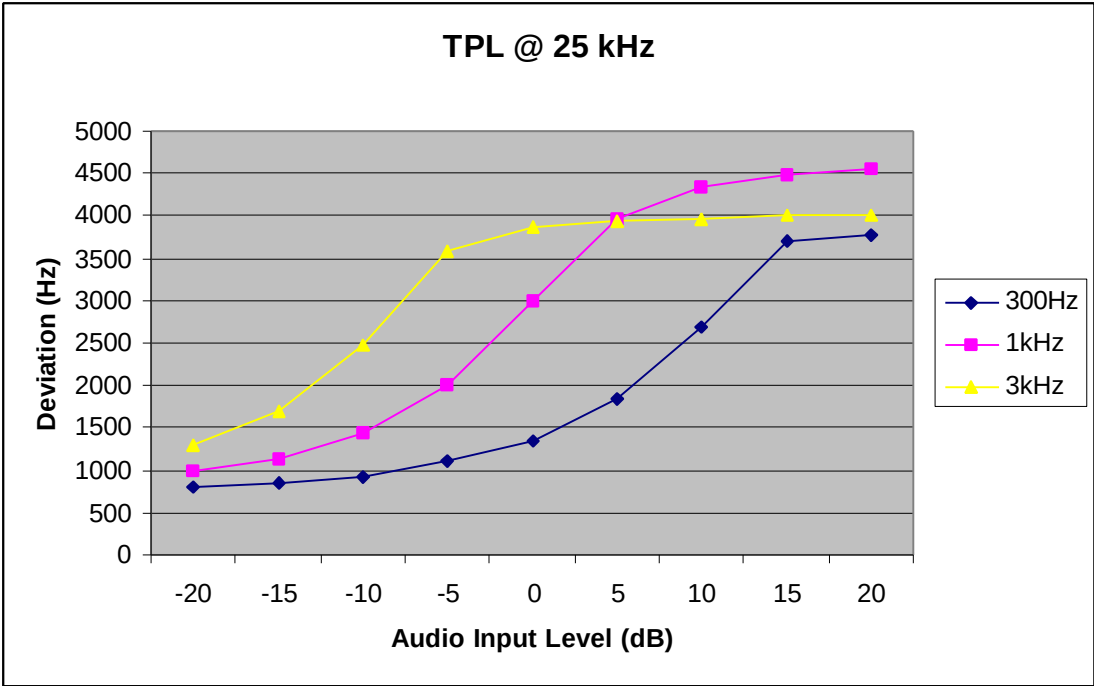
**MODULATION LIMITING CHARACTERISTIC
12.5 kHz CHANNEL SPACING, DPL MODE**



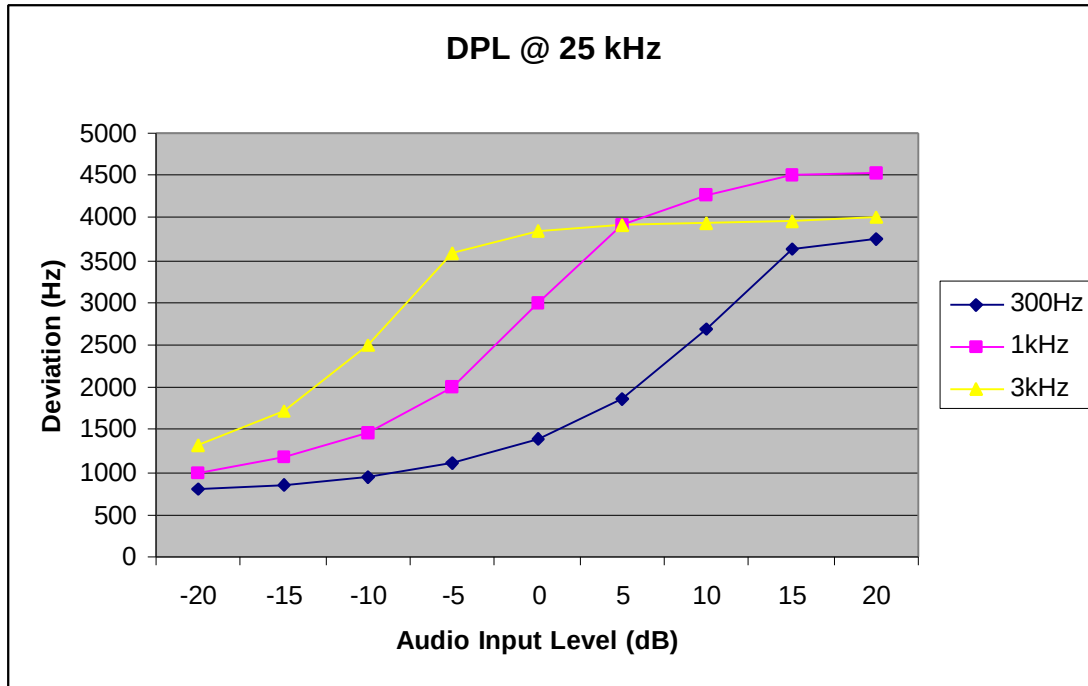
MODULATION LIMITING CHARACTERISTIC
25 kHz CHANNEL SPACING, CARRIER SQUELCH MODE



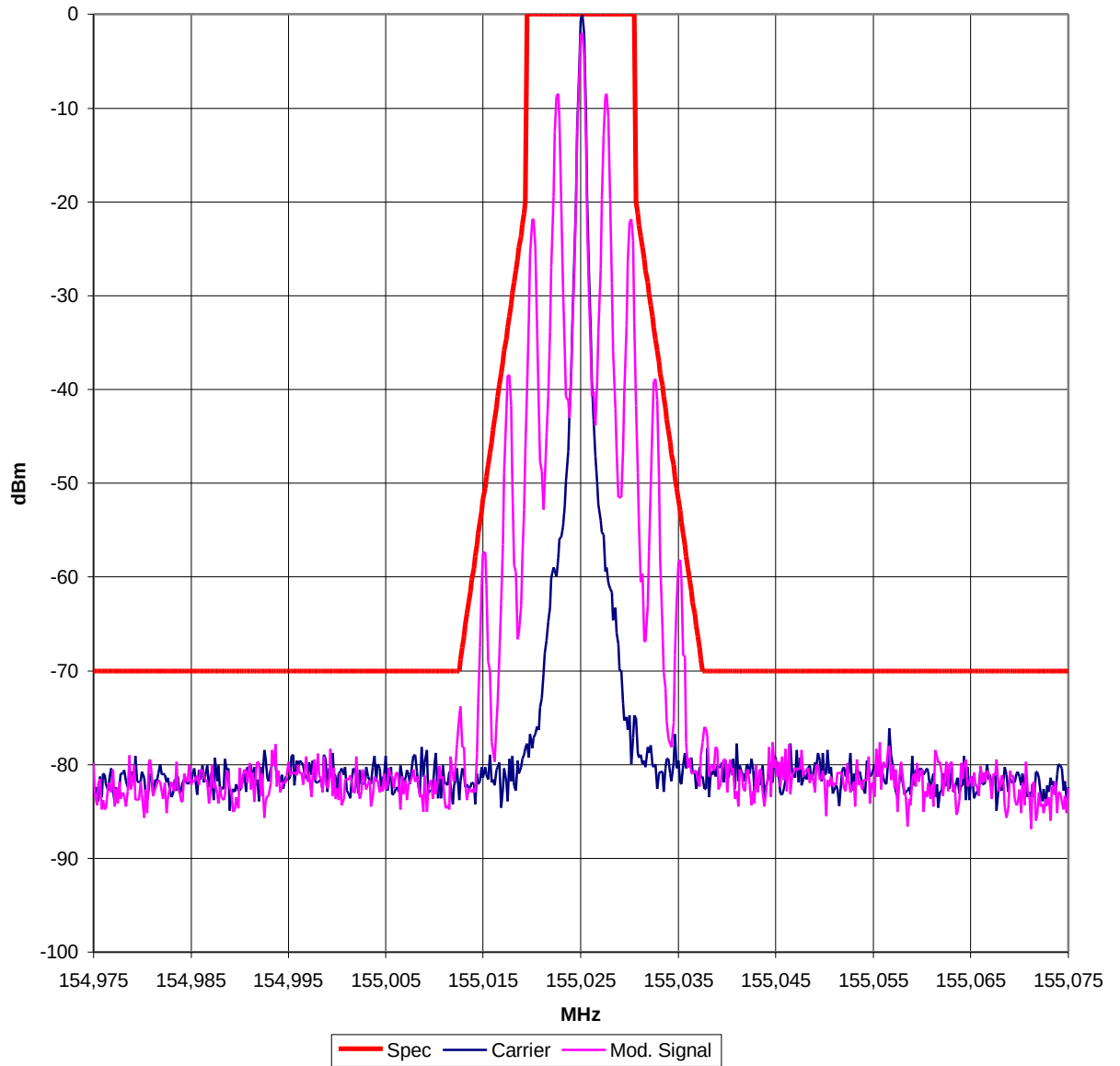
MODULATION LIMITING CHARACTERISTIC
25 kHz CHANNEL SPACING, TONE PL MODE



**MODULATION LIMITING CHARACTERISTIC
25 kHz CHANNEL SPACING, DPL MODE**



**Occupied Bandwidth Measured for 12.5kHz Channel
Spacing, 2500Hz Audio Modulation Only**



Fcenter = 155.025MHz

Span = 100kHz

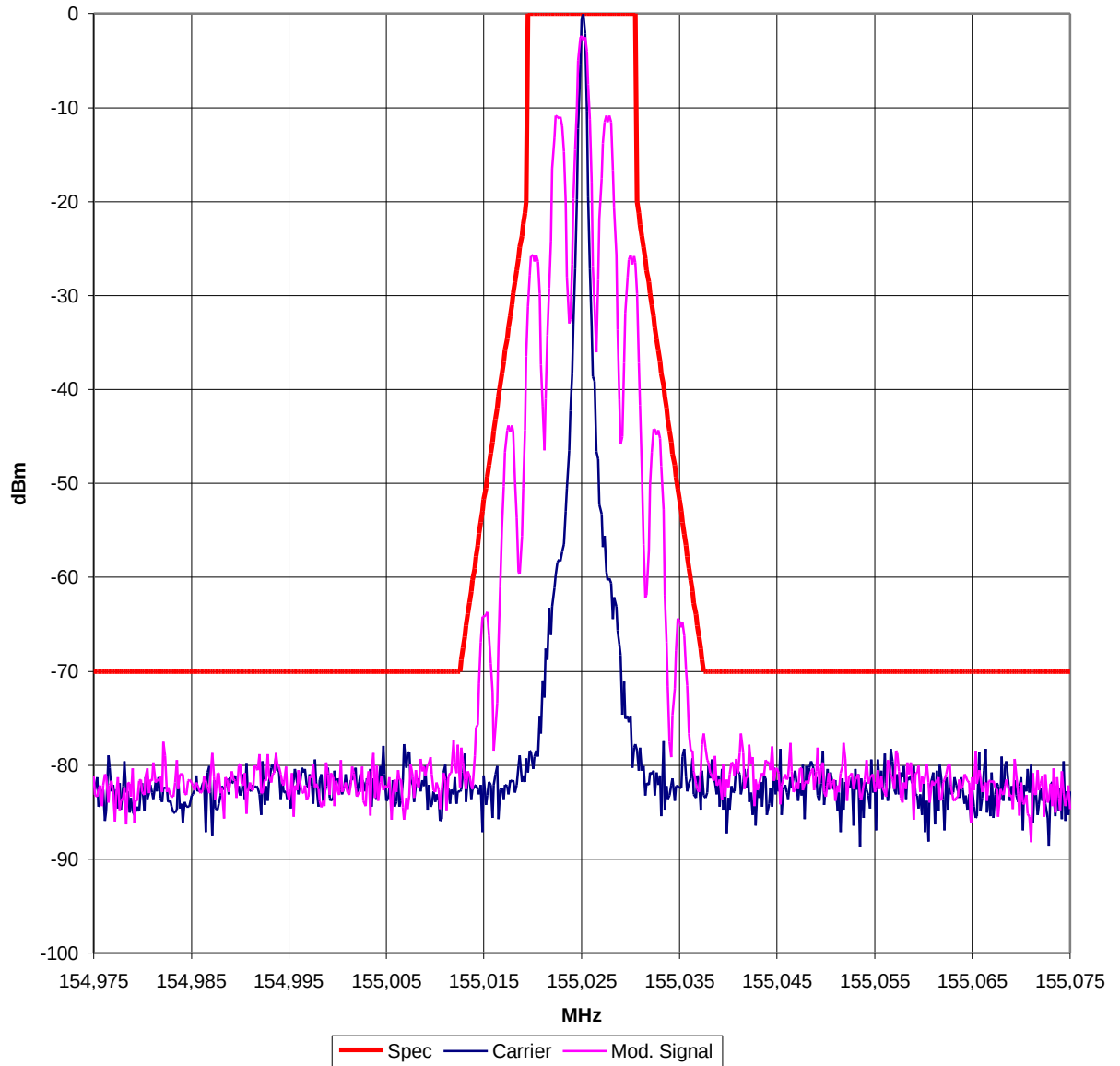
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = -0.6dBm

**Occupied Bandwidth Measured for 12.5kHz Channel
Spacing, 2500Hz Audio and PL Tone Modulation (250.3Hz)**



Fcenter = 155.025MHz

Span = 100kHz

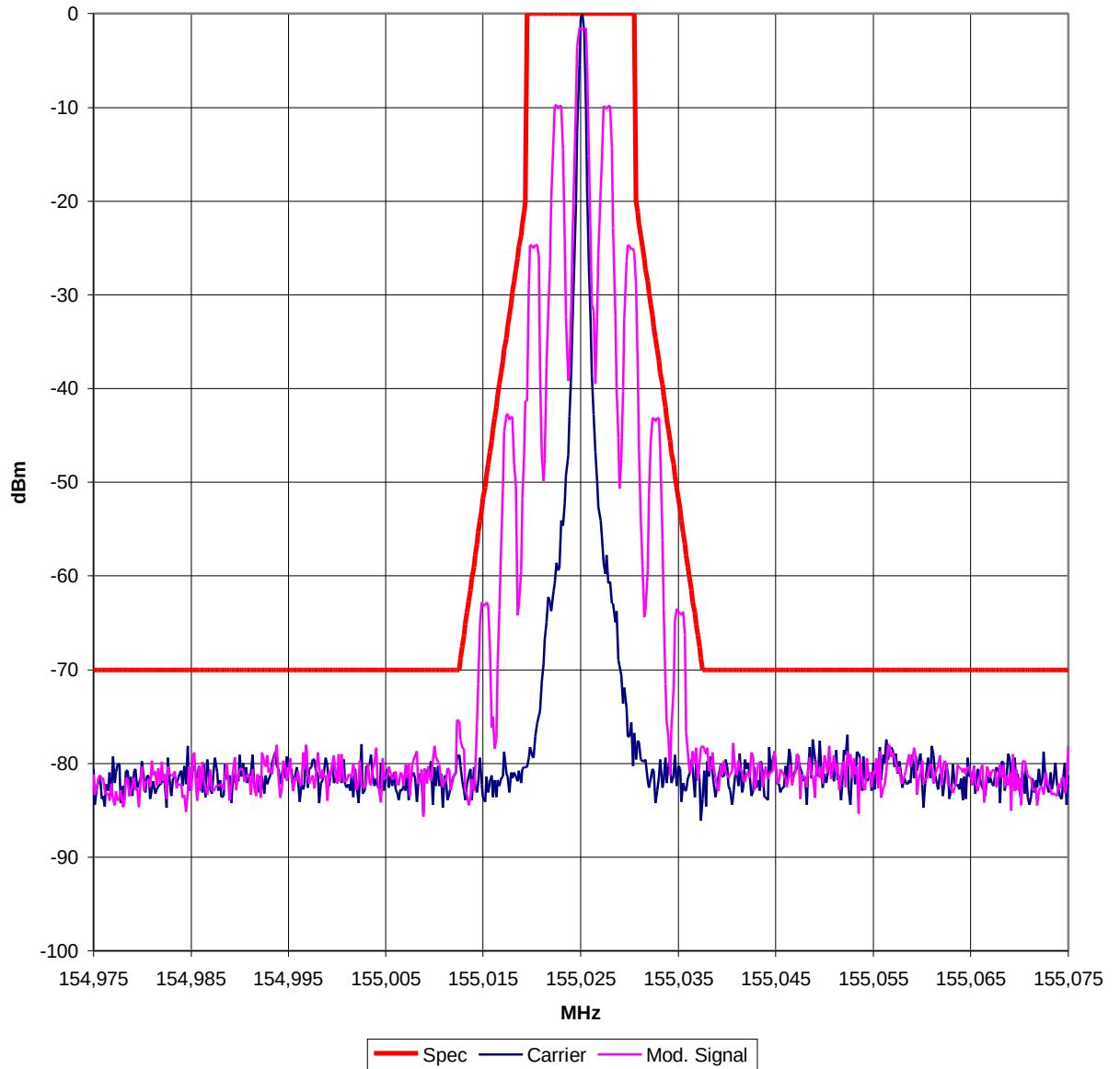
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = -0.6dBm

**Occupied Bandwidth Measured for 12.5kHz Channel
Spacing, 2500Hz Audio and DPL Modulation (DPL131)**



Fcenter = 155.025MHz

Span = 100kHz

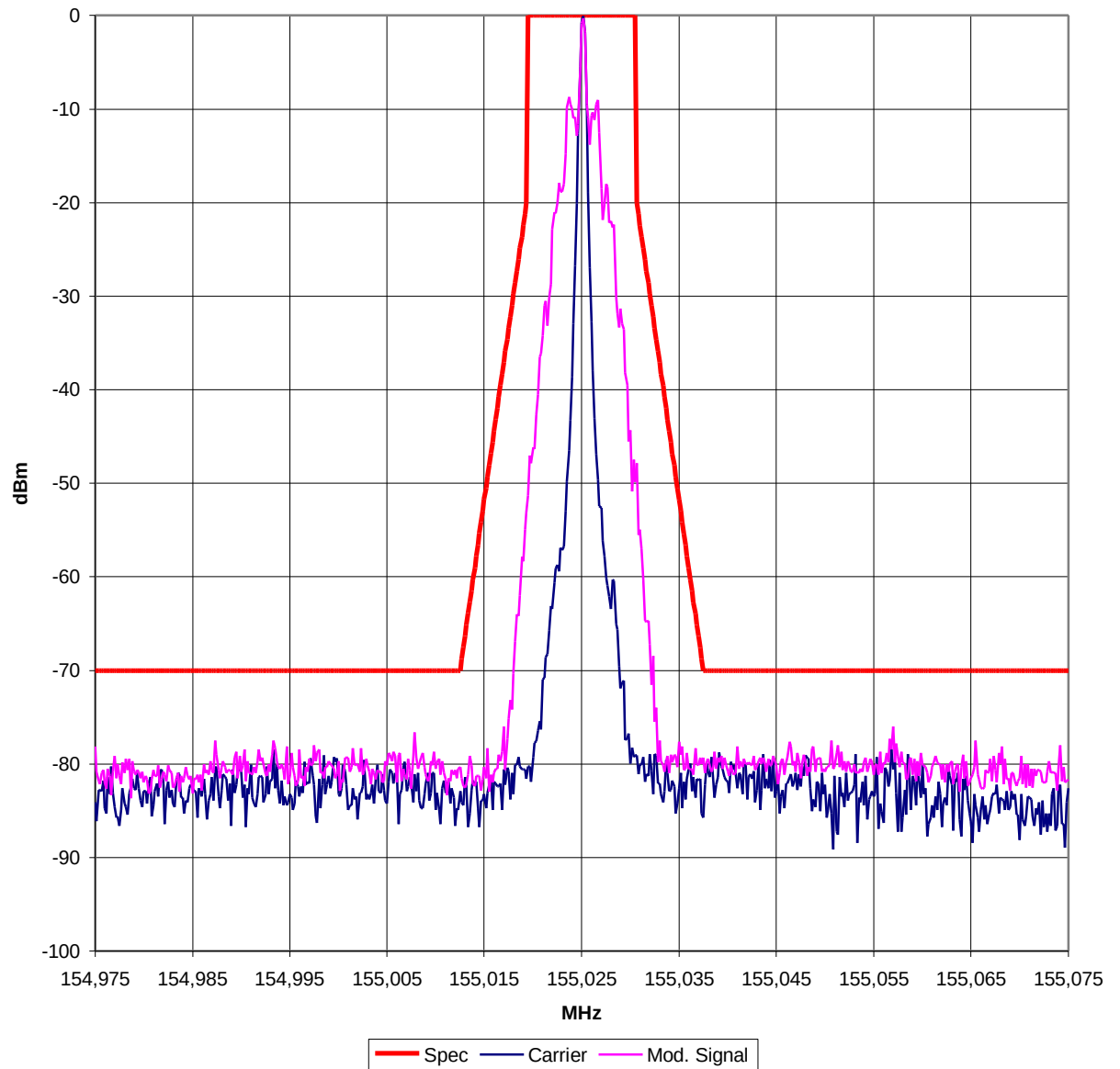
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = -0.6dBm

**Occupied Bandwidth Measured for 12.5kHz Channel
Spacing, DTMF Modulation Only (# SIGN)**



Fcenter = 155.025MHz

Span = 100kHz

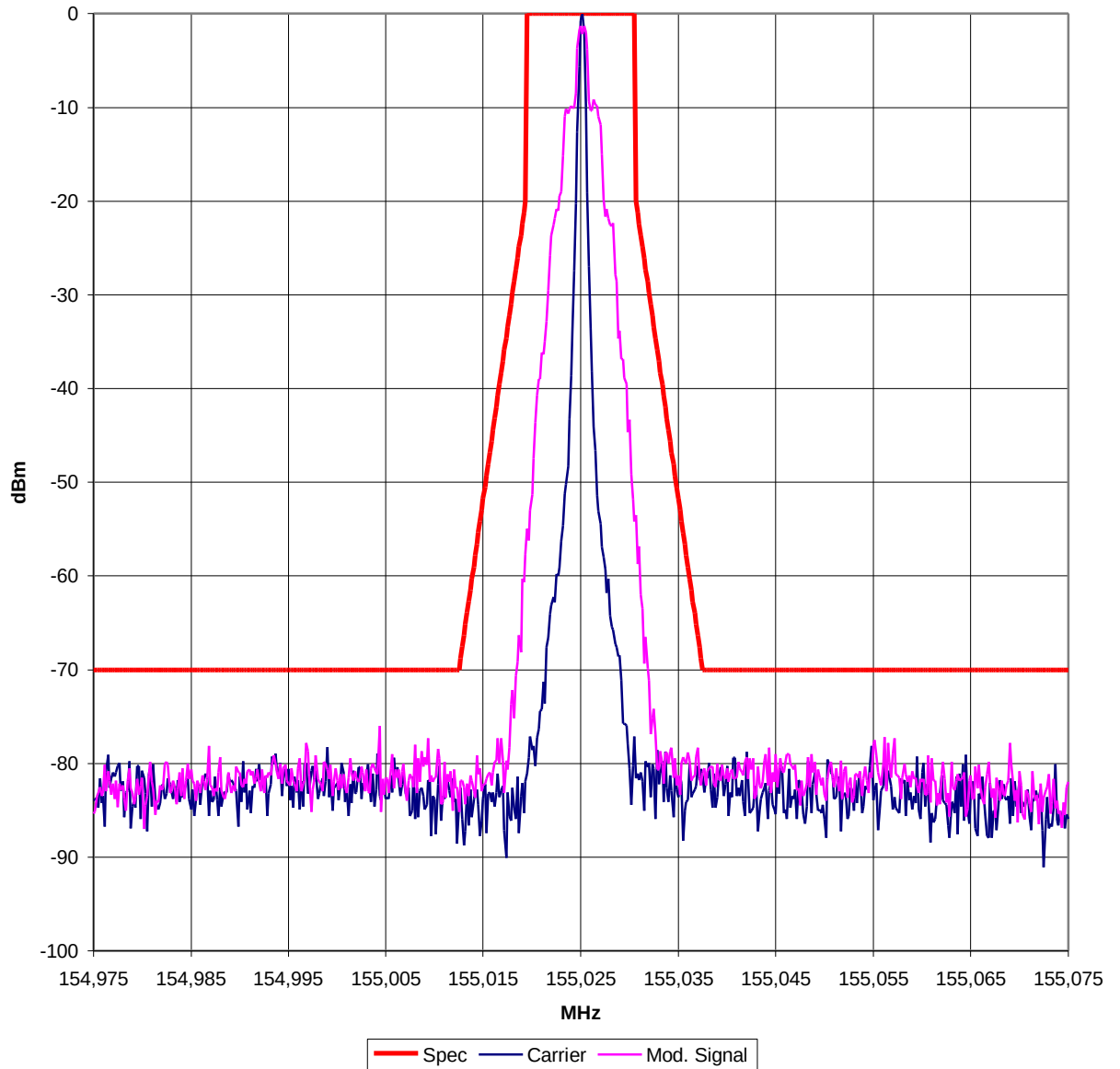
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = -0.6dBm

**Occupied Bandwidth Measured for 12.5kHz Channel
Spacing, DTMF Modulation and PL Tone Modulation**
(250 247)



Fcenter = 155.025MHz

Span = 100kHz

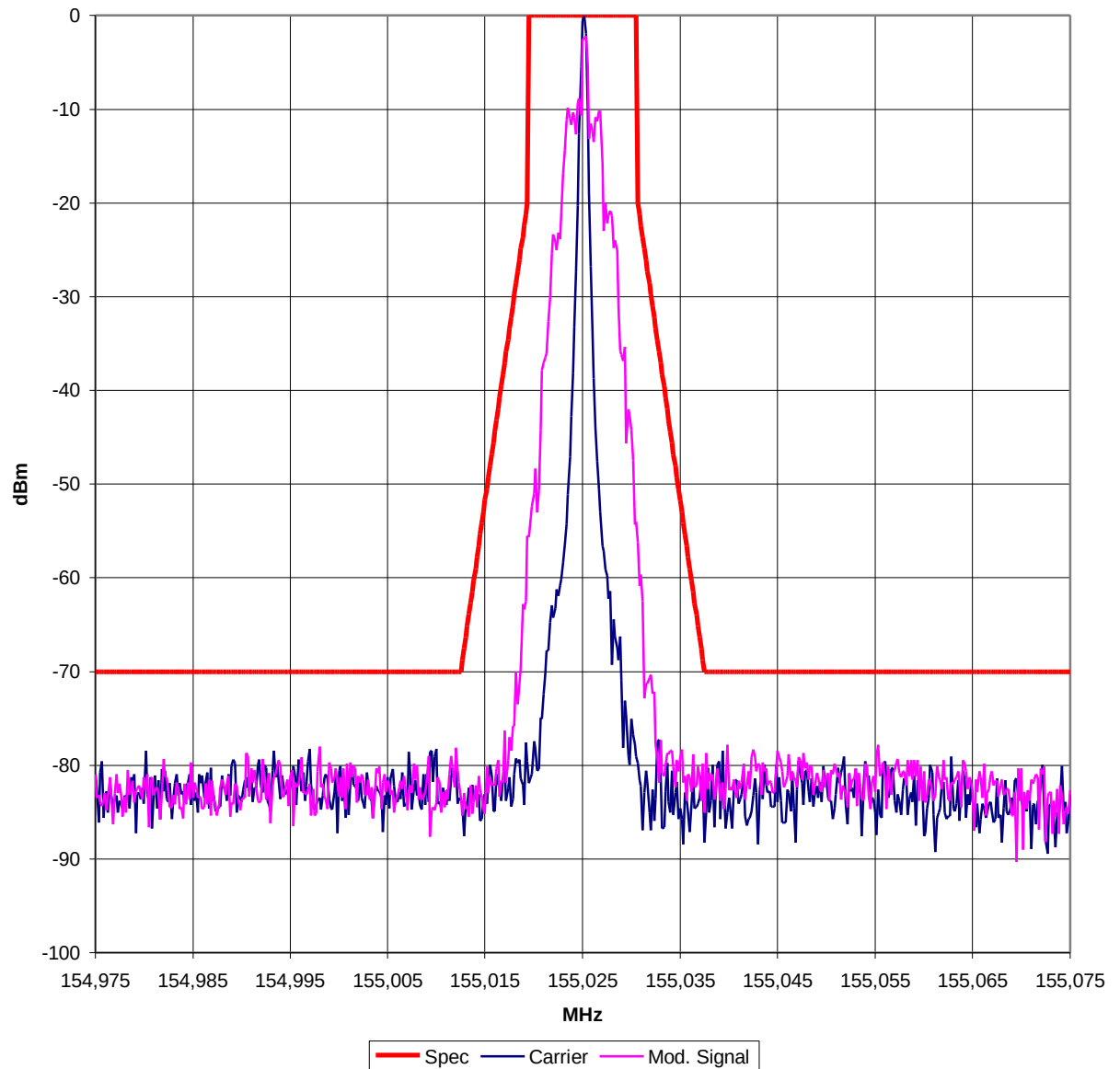
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = -0.6dBm

**Occupied Bandwidth Measured for 12.5kHz Channel
Spacing, DTMF Modulation and DPL Modulation (DPL131)**



Fcenter = 155.025MHz

Span = 100kHz

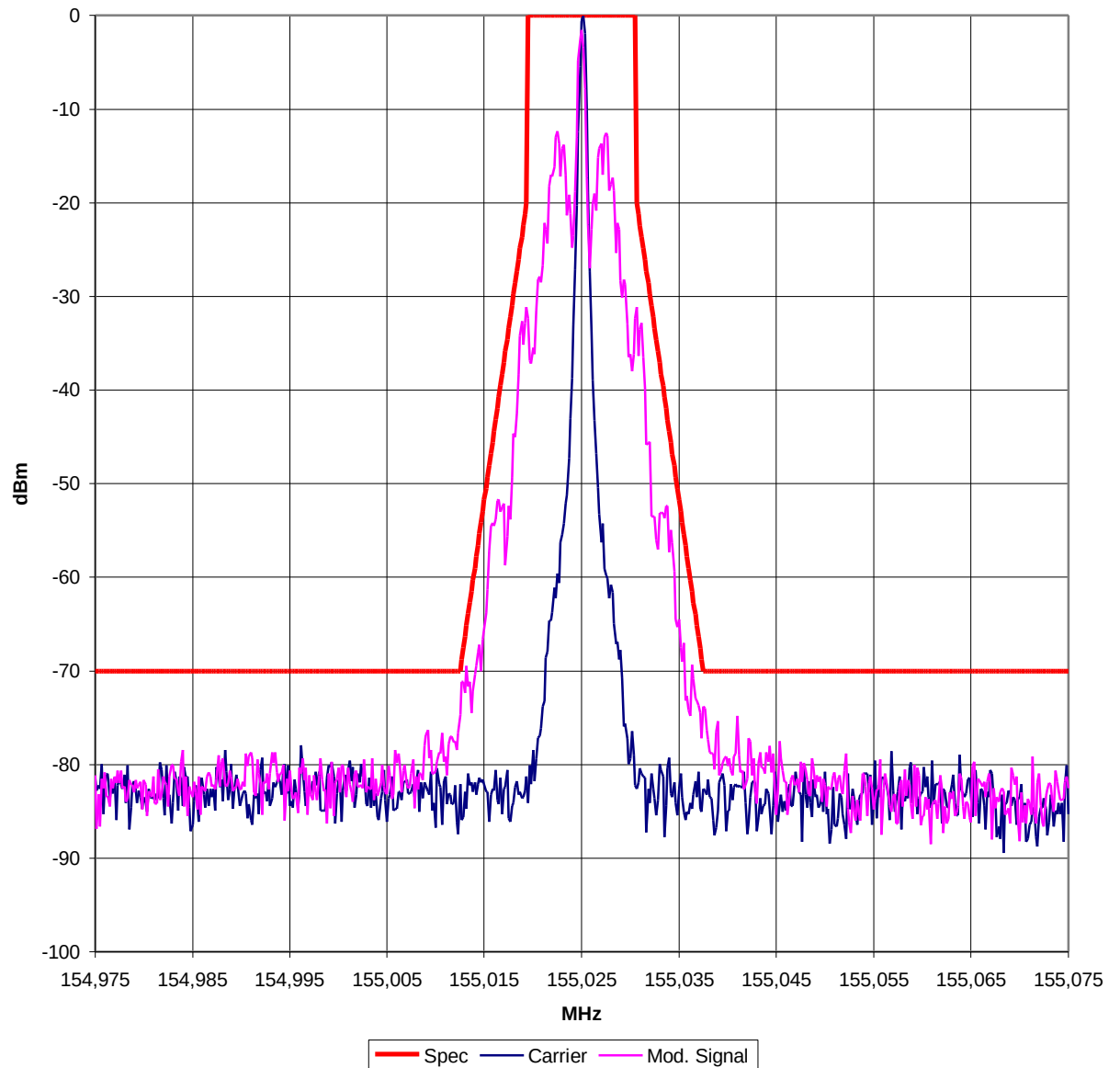
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = -0.6dBm

**Occupied Bandwidth Measured for 12.5kHz Channel
Spacing, 2000/3000Hz FSK Modulation Only**



Fcenter = 155.025MHz

Span = 100kHz

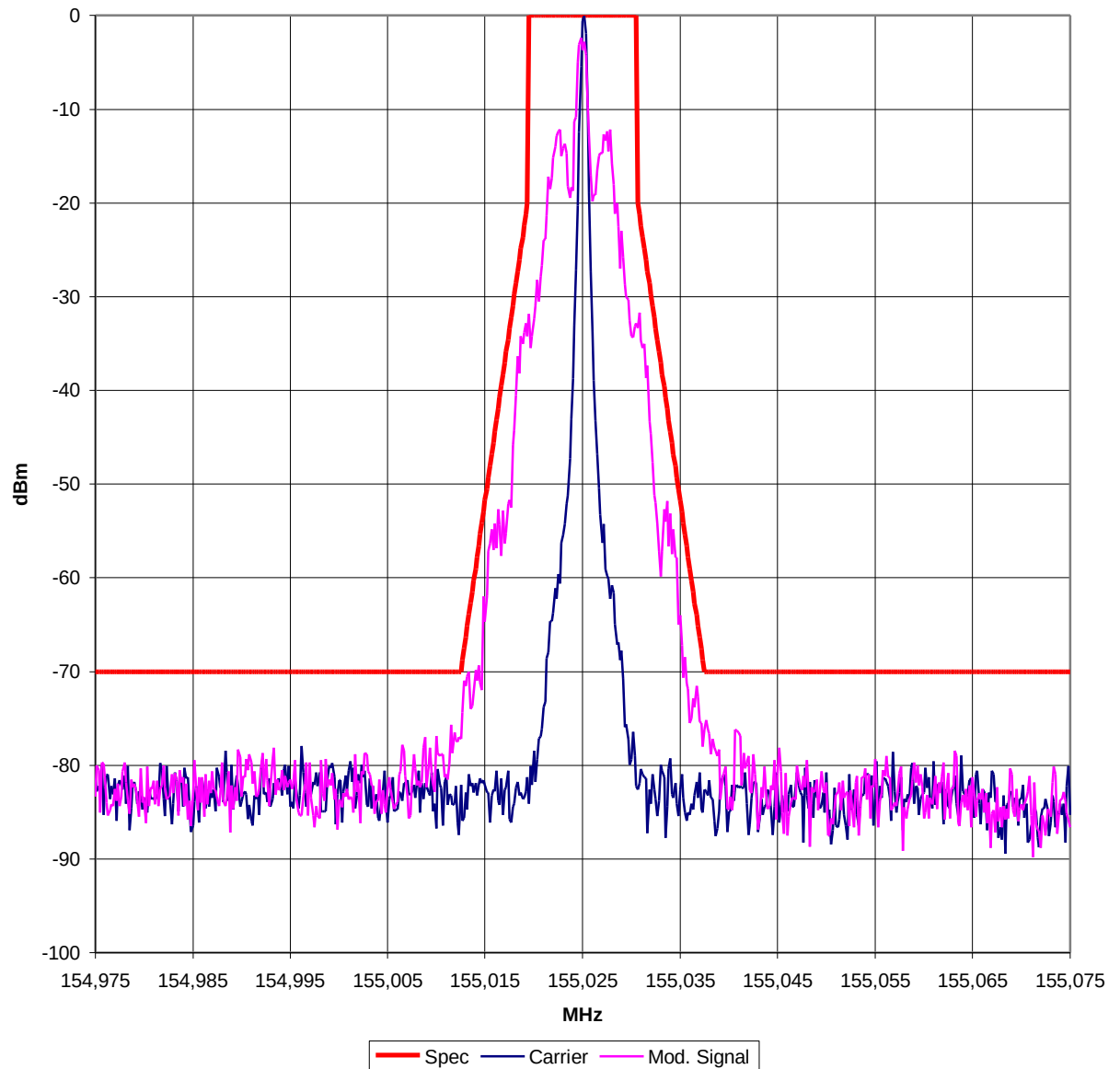
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = -0.6dBm

**Occupied Bandwidth Measured for 12.5kHz Channel
Spacing, 2000/3000Hz FSK Data and PL Tone Modulation**



Fcenter = 155.025MHz

Span = 100kHz

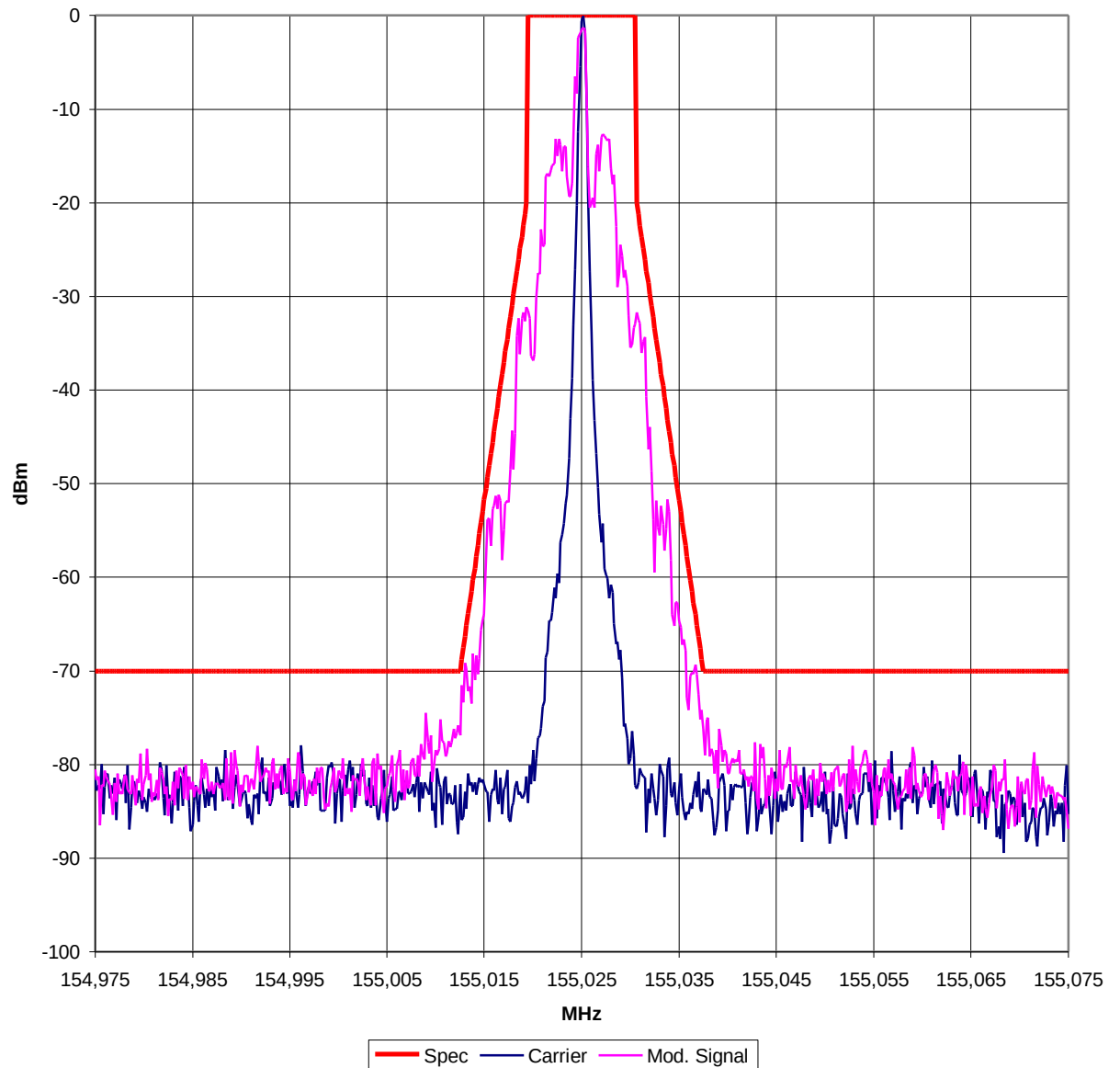
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = -0.6dBm

**Occupied Bandwidth Measured for 12.5kHz Channel
Spacing, 2000/3000Hz FSK Data and DPL Modulation**



Fcenter = 155.025MHz

Span = 100kHz

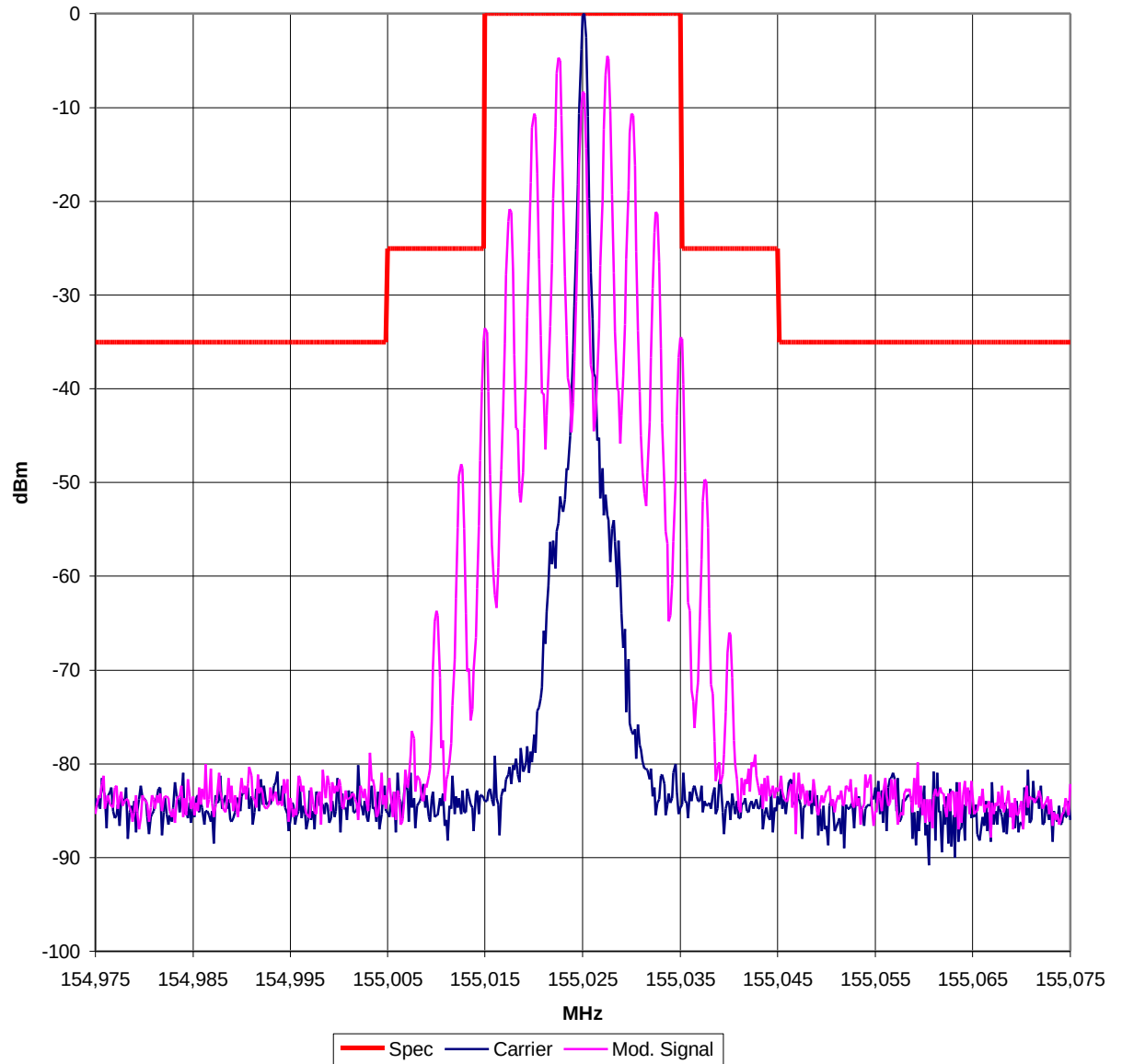
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = 0dBm

**Occupied Bandwidth Measured for 25kHz Channel Spacing,
2500Hz Audio Modulation Only**



Fcenter = 155.025MHz

Span = 100kHz

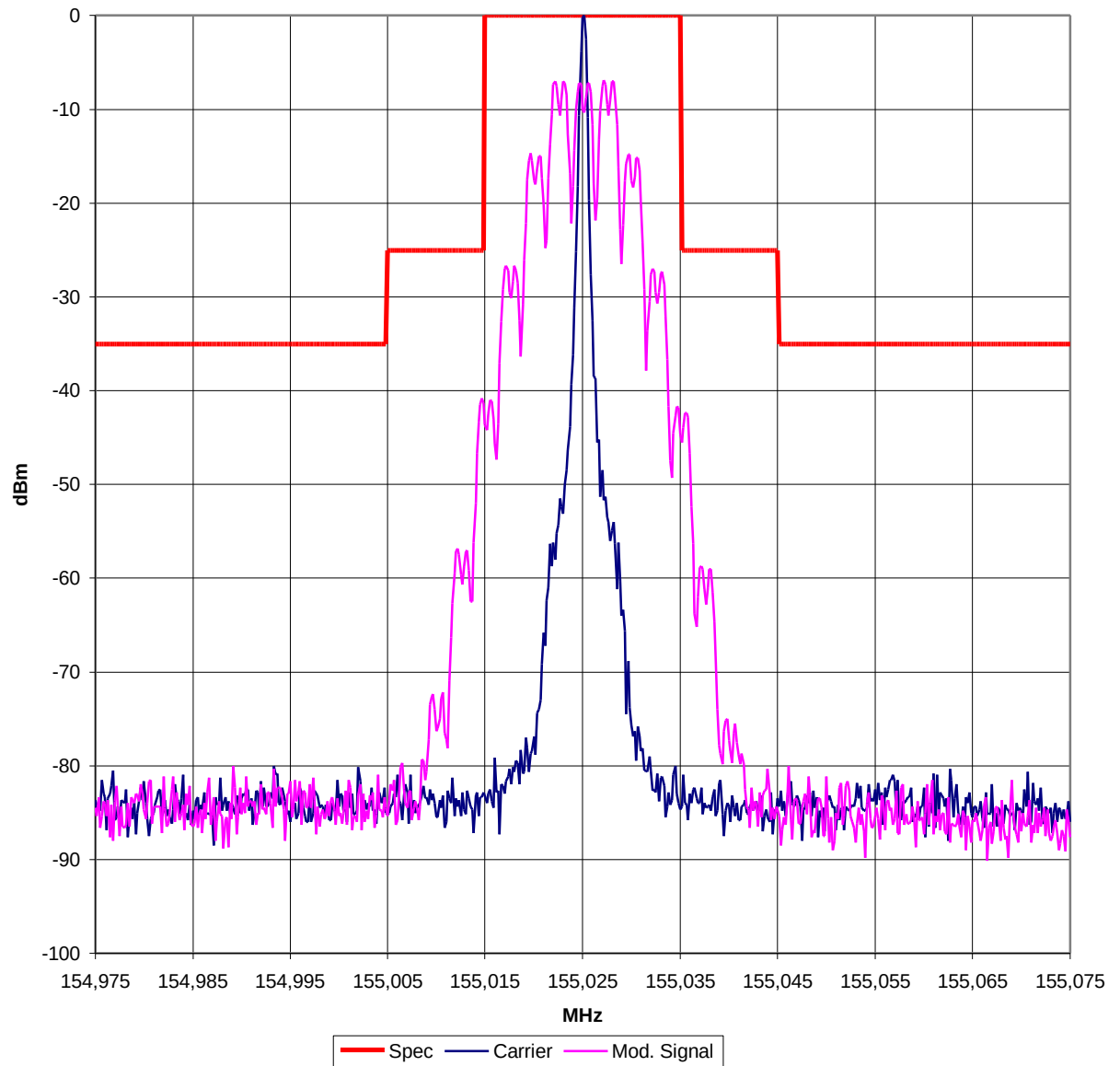
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = 14.3dBm

**Occupied Bandwidth Measured for 25kHz Channel Spacing,
2500Hz Audio and PL Tone Modulation (250.3Hz)**



Fcenter = 155.025MHz

Span = 100kHz

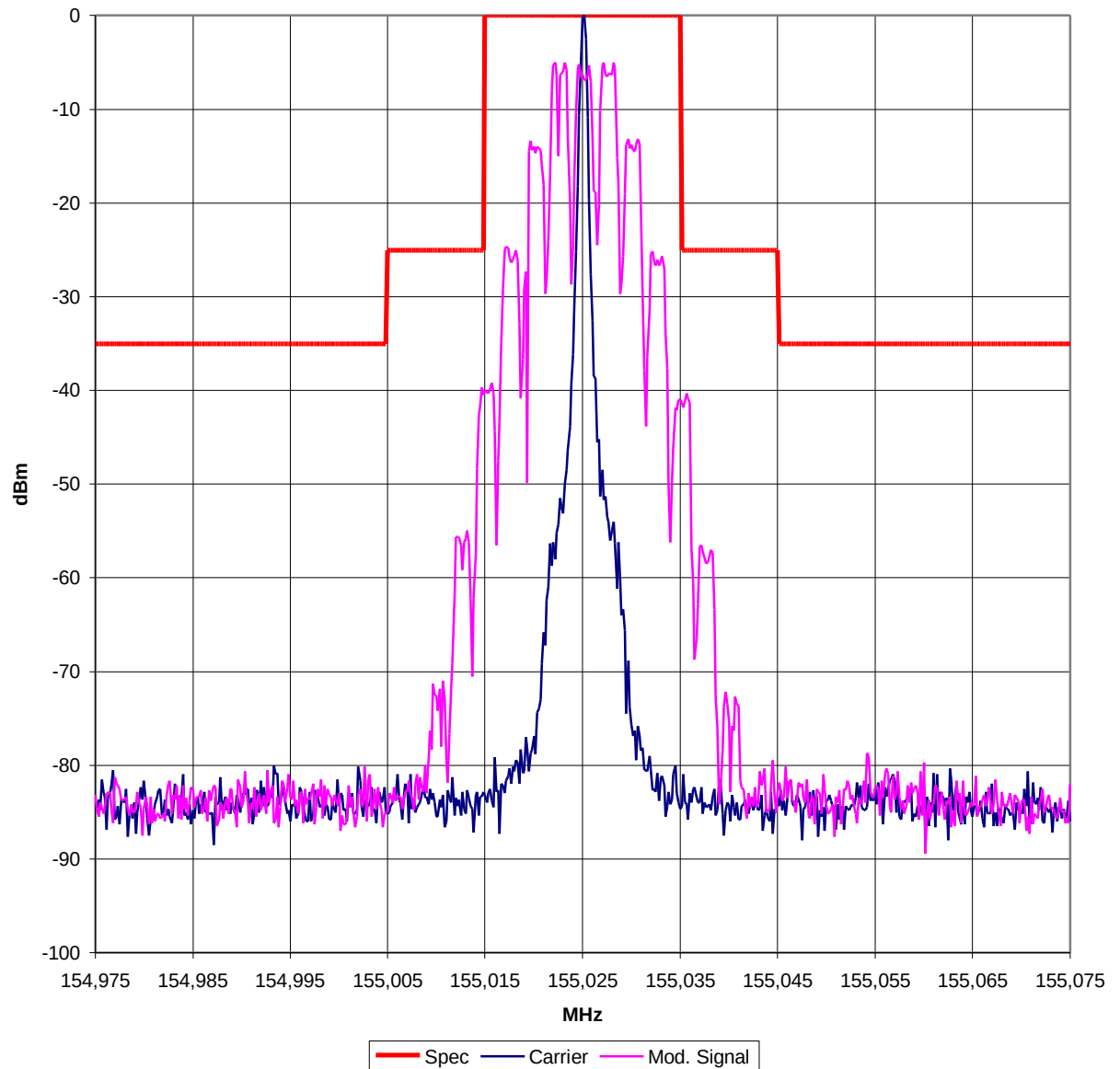
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = 14.3dBm

**Occupied Bandwidth Measured for 25kHz Channel Spacing,
2500Hz Audio and DPL Modulation (DPL131)**



Fcenter = 155.025MHz

Span = 100kHz

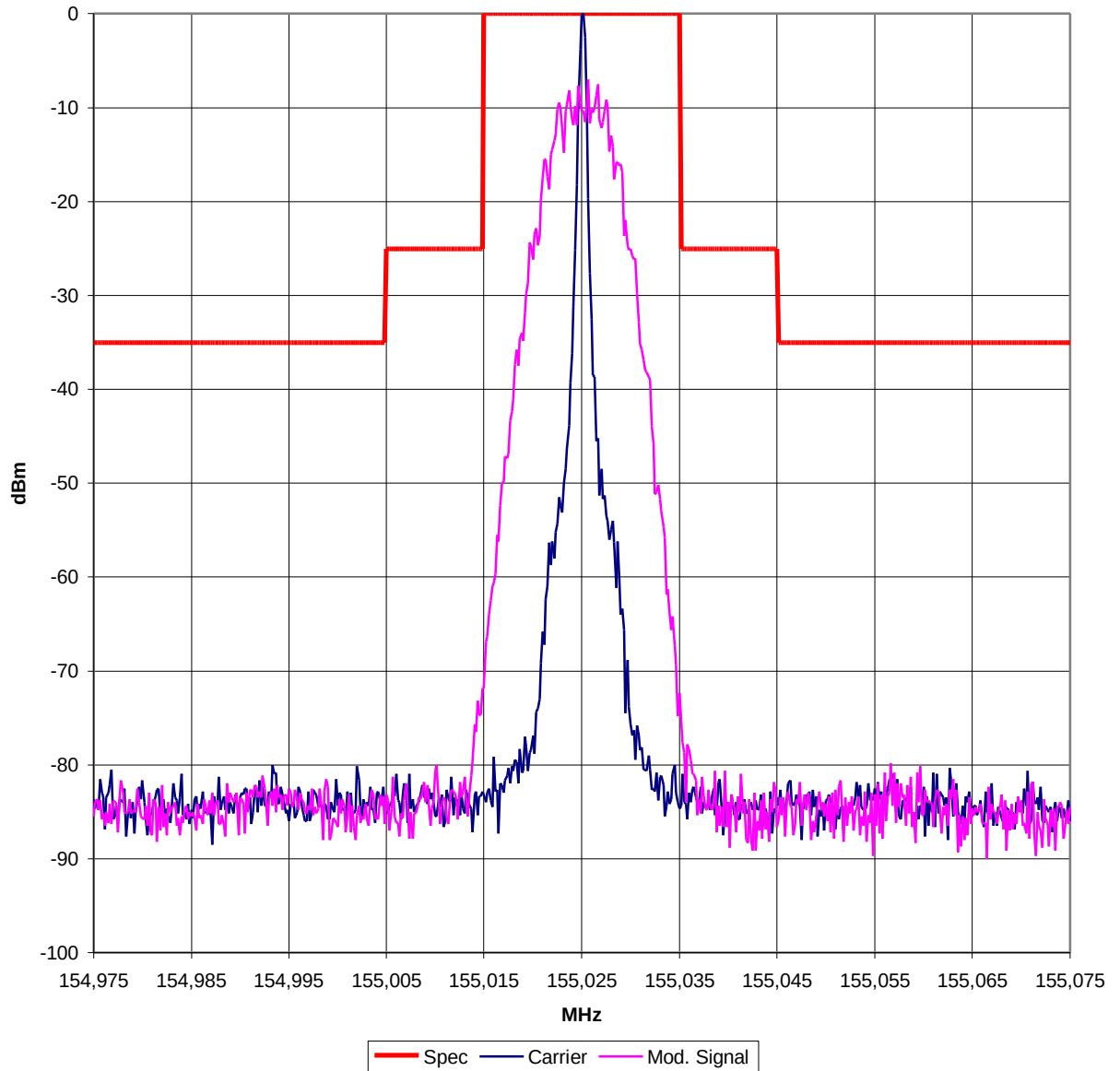
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = 14.3dBm

**Occupied Bandwidth Measured for 25kHz Channel Spacing,
DTMF Modulation Only (# SIGN)**



Fcenter = 155.025MHz

Span = 100kHz

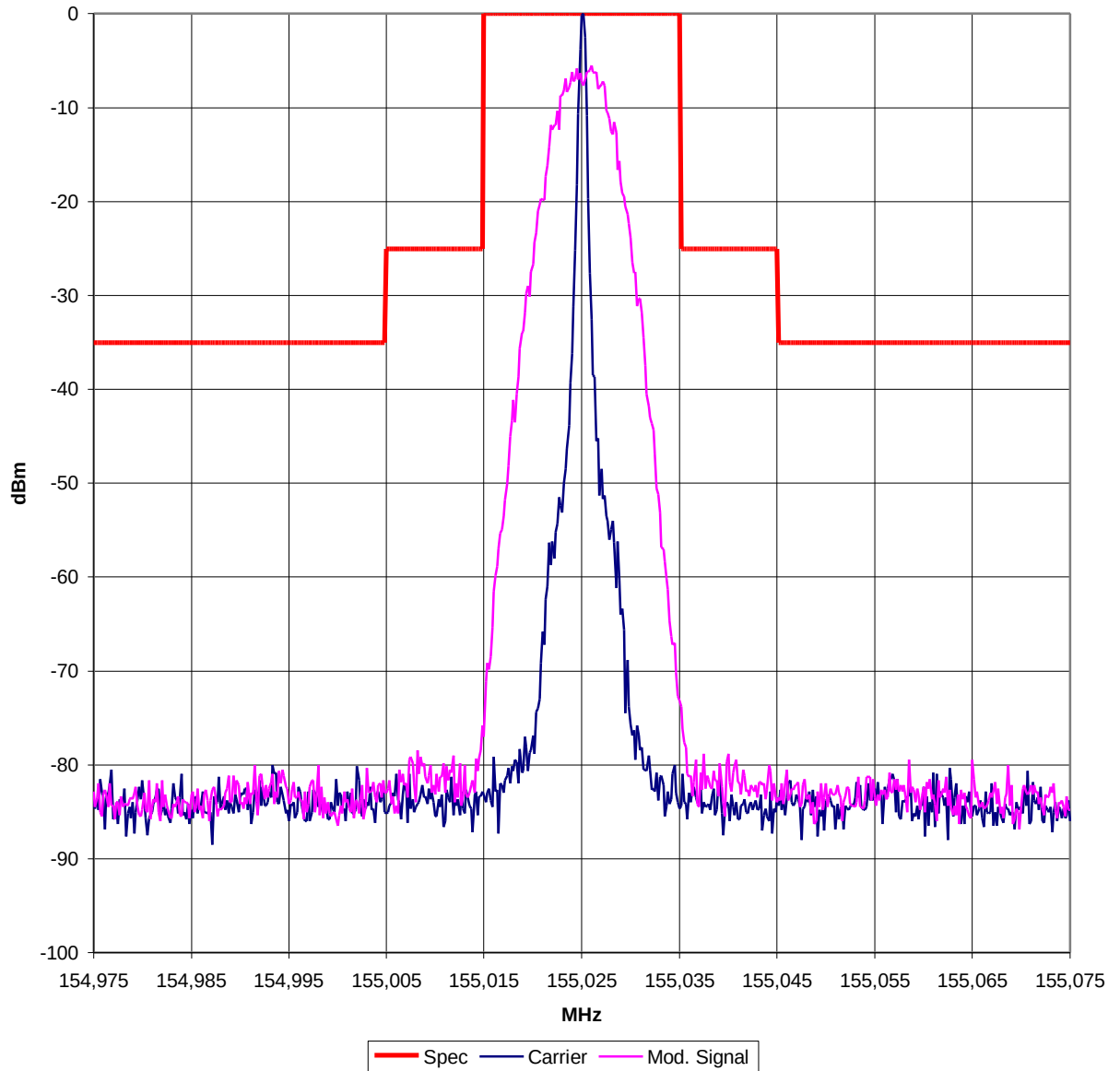
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = 14.3dBm

**Occupied Bandwidth Measured for 25kHz Channel Spacing,
DTMF Modulation and PL Tone Modulation (250.3Hz)**



Fcenter = 155.025MHz

Span = 100kHz

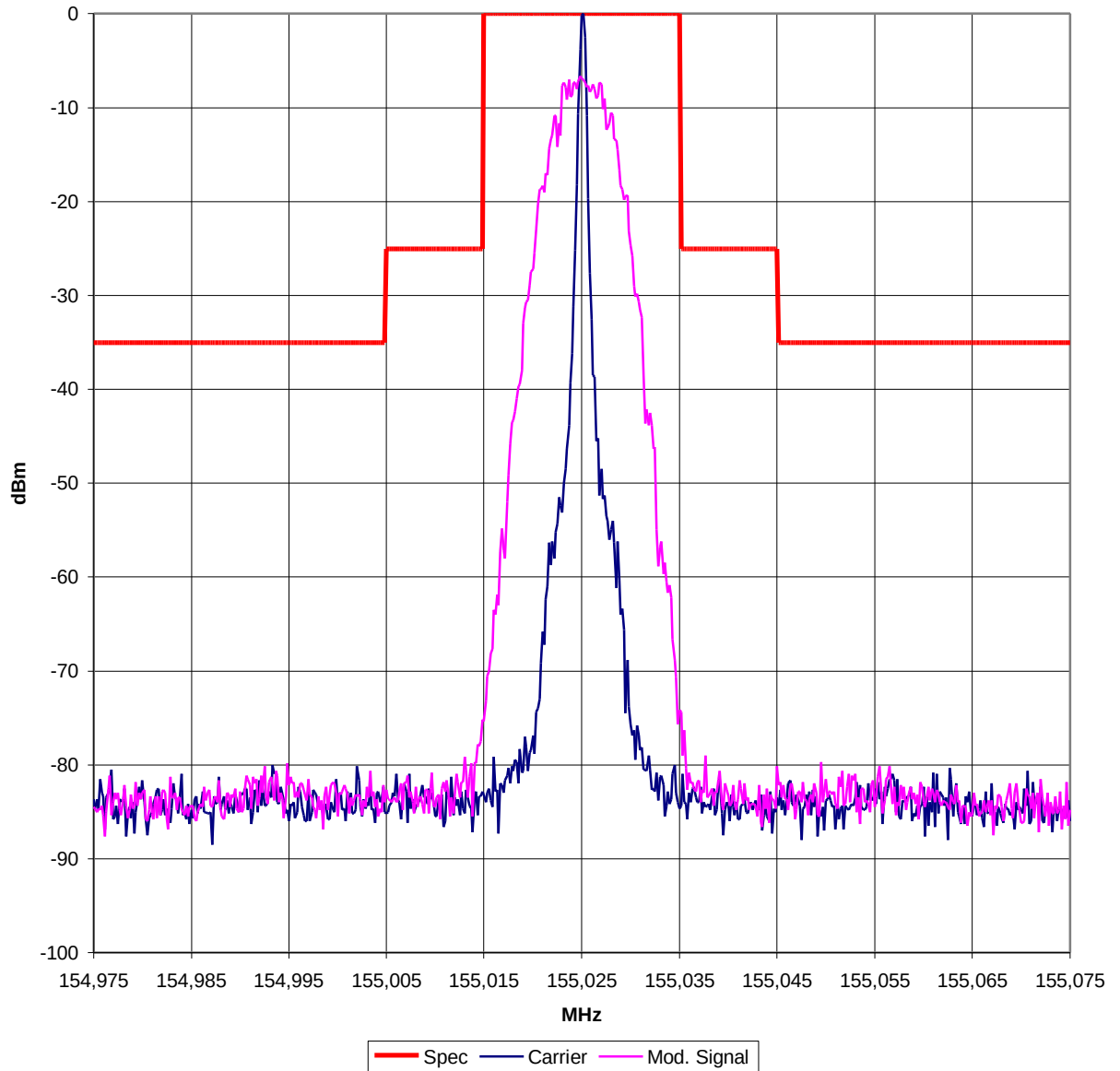
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = 14.3dBm

**Occupied Bandwidth Measured for 25kHz Channel Spacing,
DTMF Modulation and DPL Modulation (DPL131)**



Fcenter = 155.025MHz

Span = 100kHz

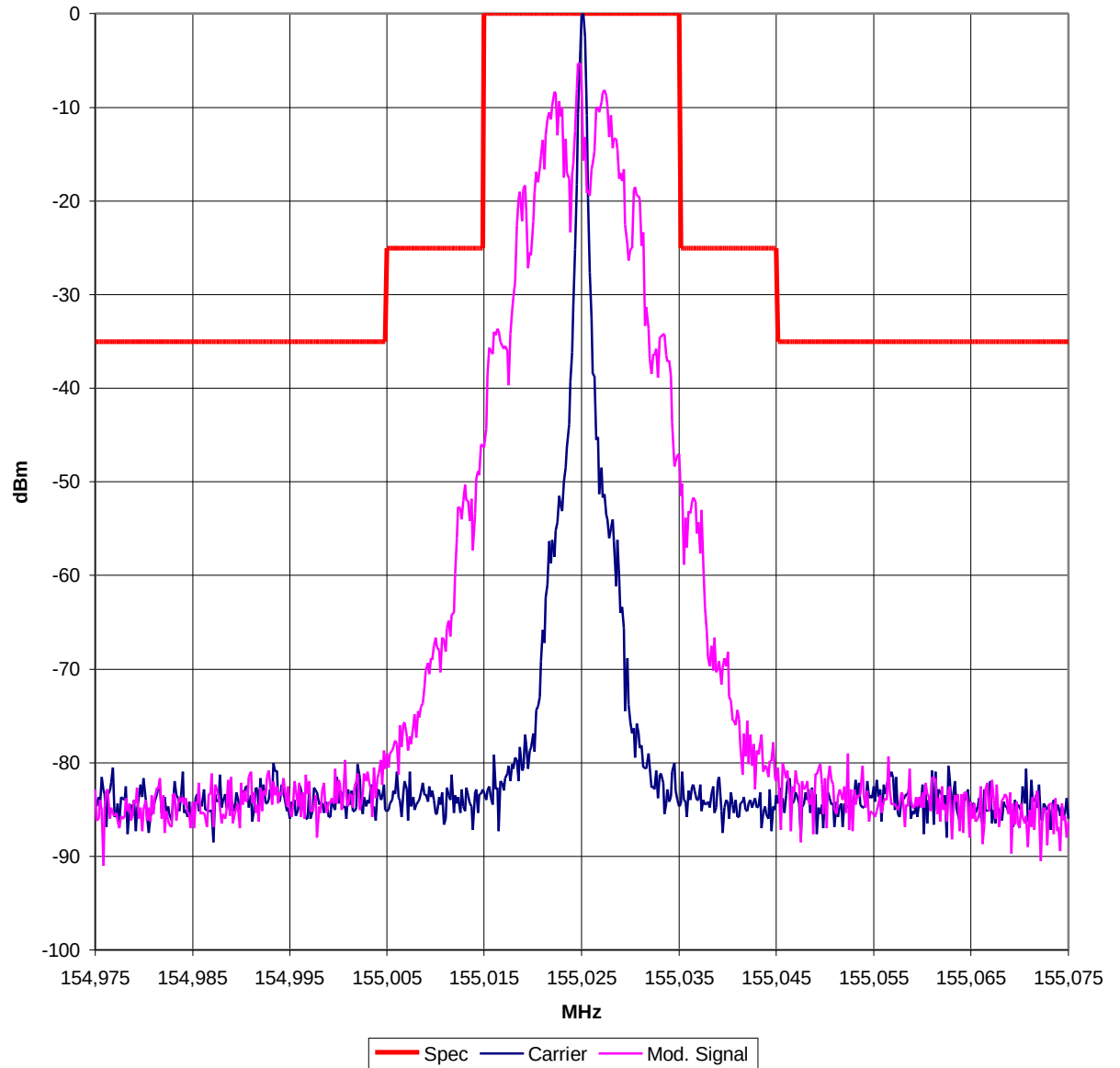
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = 14.3dBm

**Occupied Bandwidth Measured for 25kHz Channel Spacing,
2000/3000Hz FSK Data Modulation Only**



Fcenter = 155.025MHz

Span = 100kHz

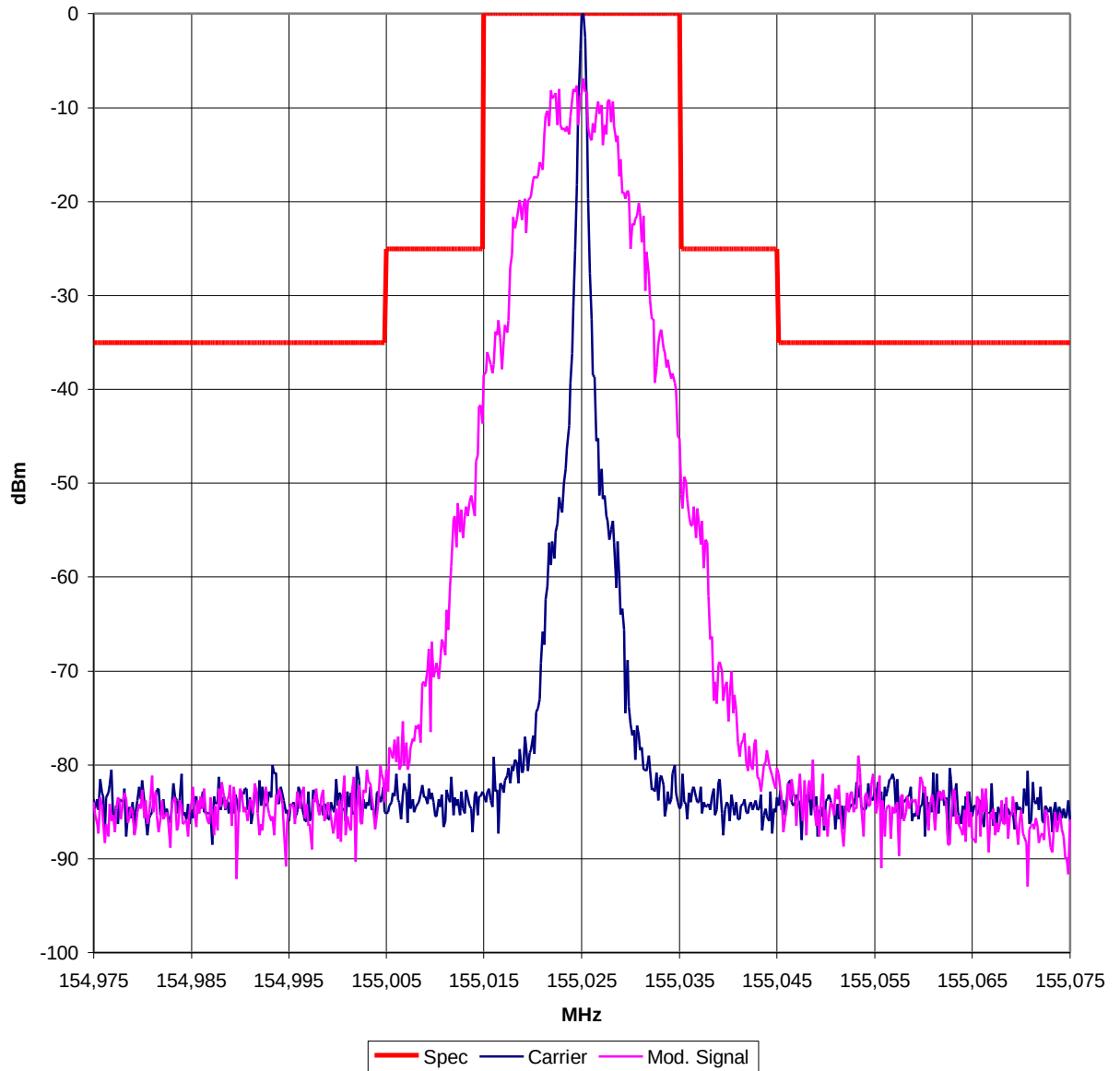
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = 14.3dBm

**Occupied Bandwidth Measured for 25kHz Channel Spacing,
2000/3000Hz FSK Data and PL Tone Modulation**



Fcenter = 155.025MHz

Span = 100kHz

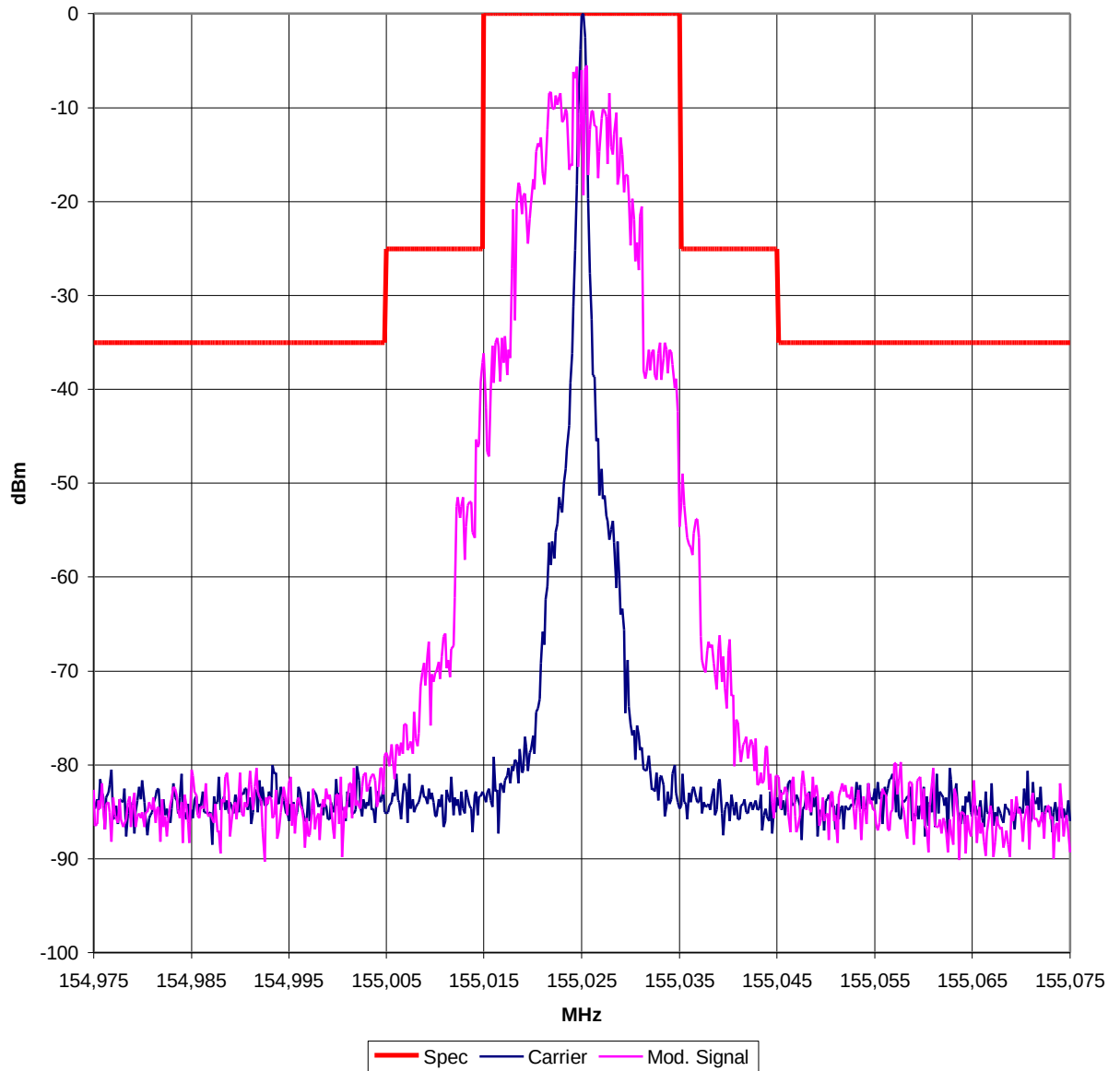
ResBW = 300Hz

VideoBW = 3000Hz

SWTime = 3sec.

RefLevel = 14.3dBm

**Occupied Bandwidth Measured for 25kHz Channel Spacing,
2000/3000Hz FSK Data and DPL Modulation**



Fcenter = 155.025MHz

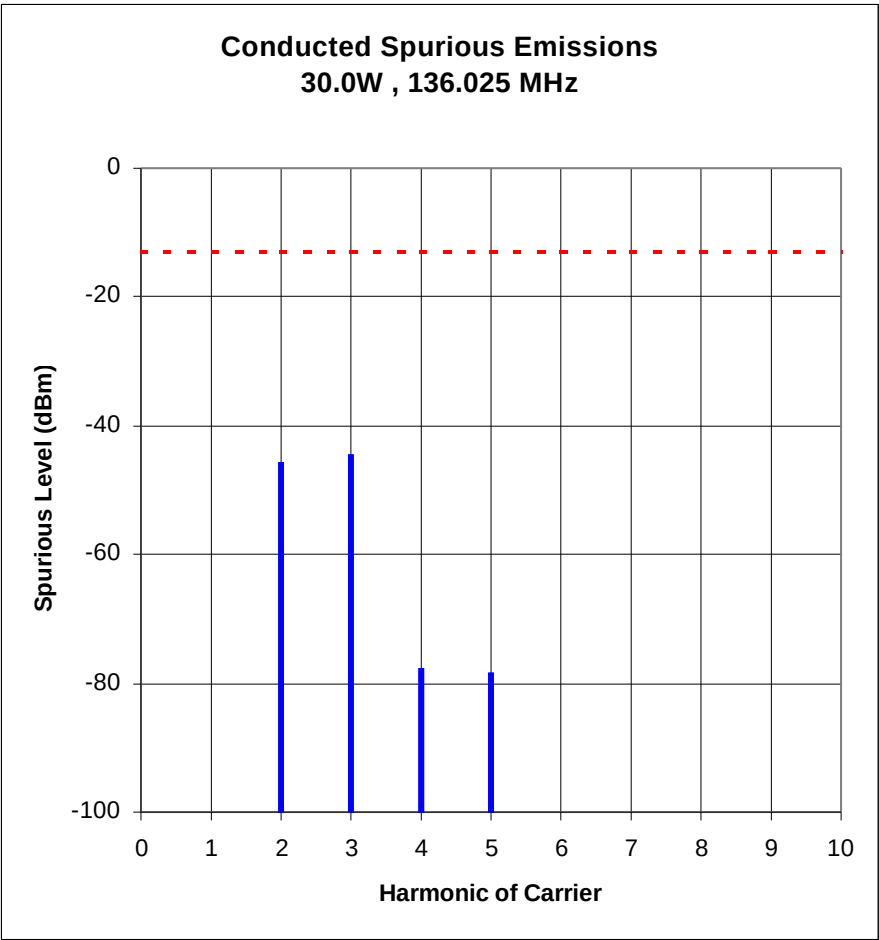
Span = 100kHz

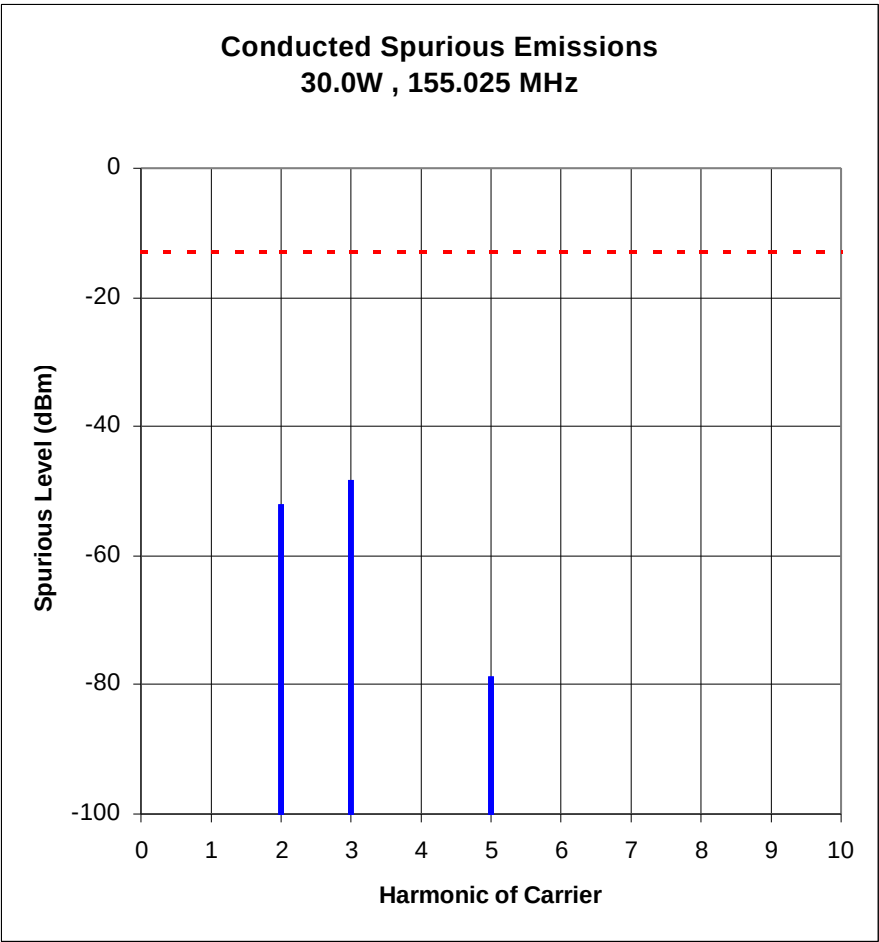
ResBW = 300Hz

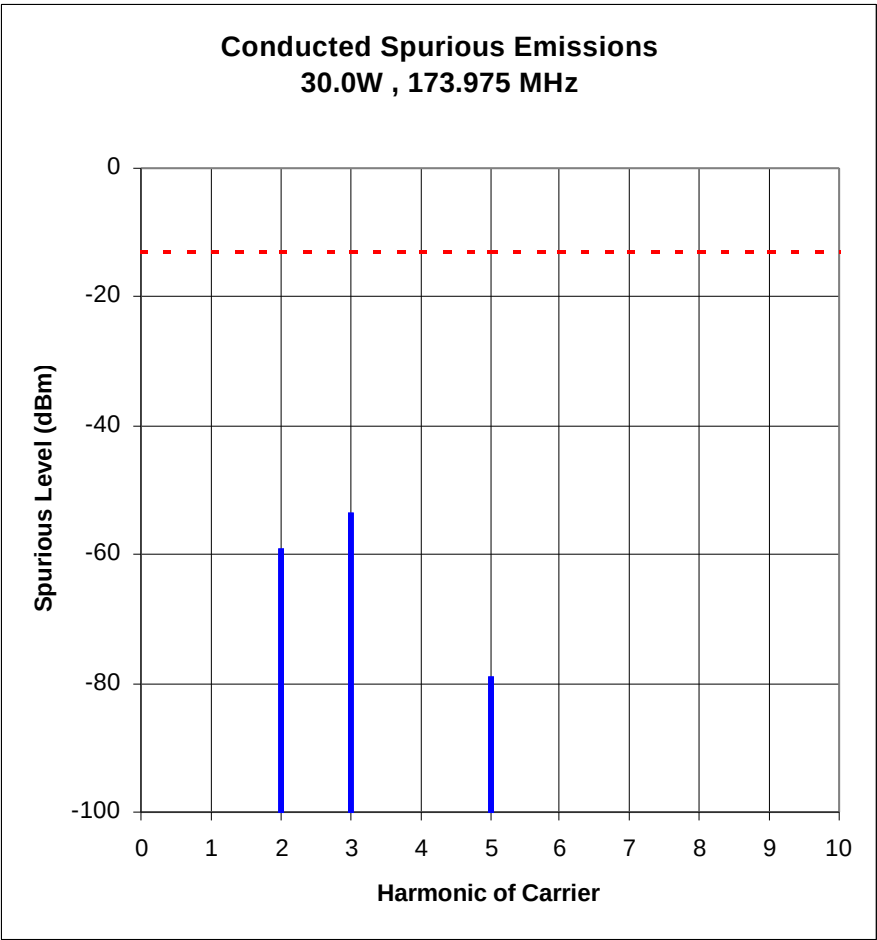
VideoBW = 3000Hz

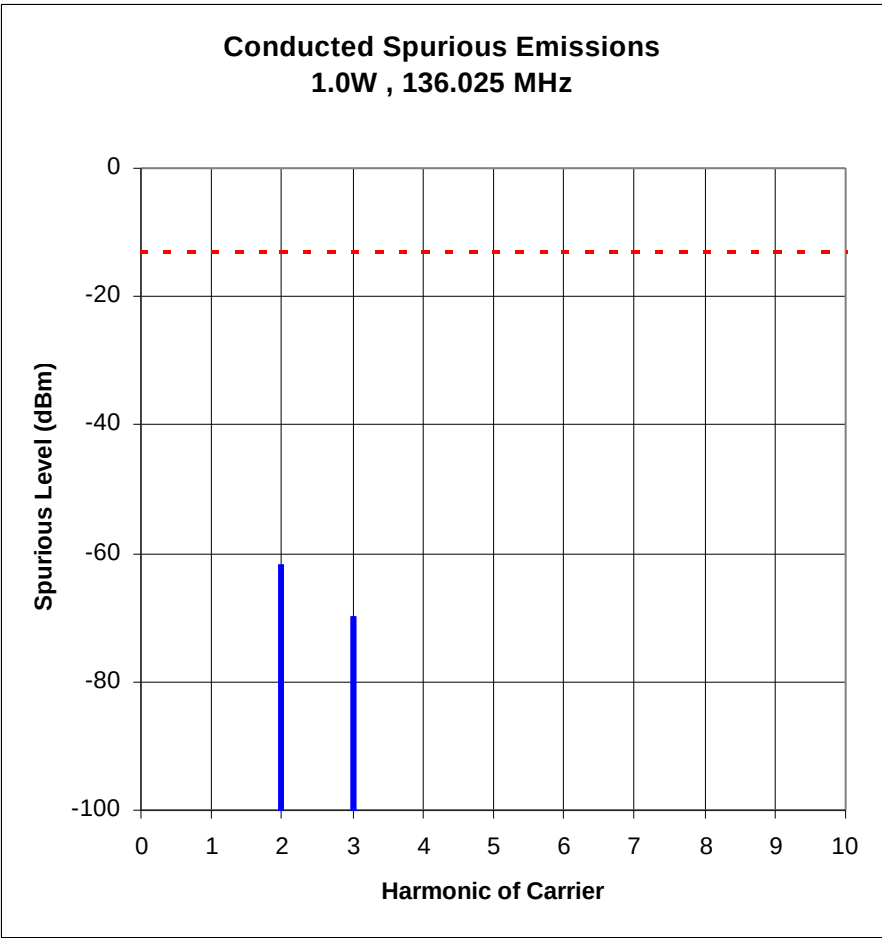
SWTime = 3sec.

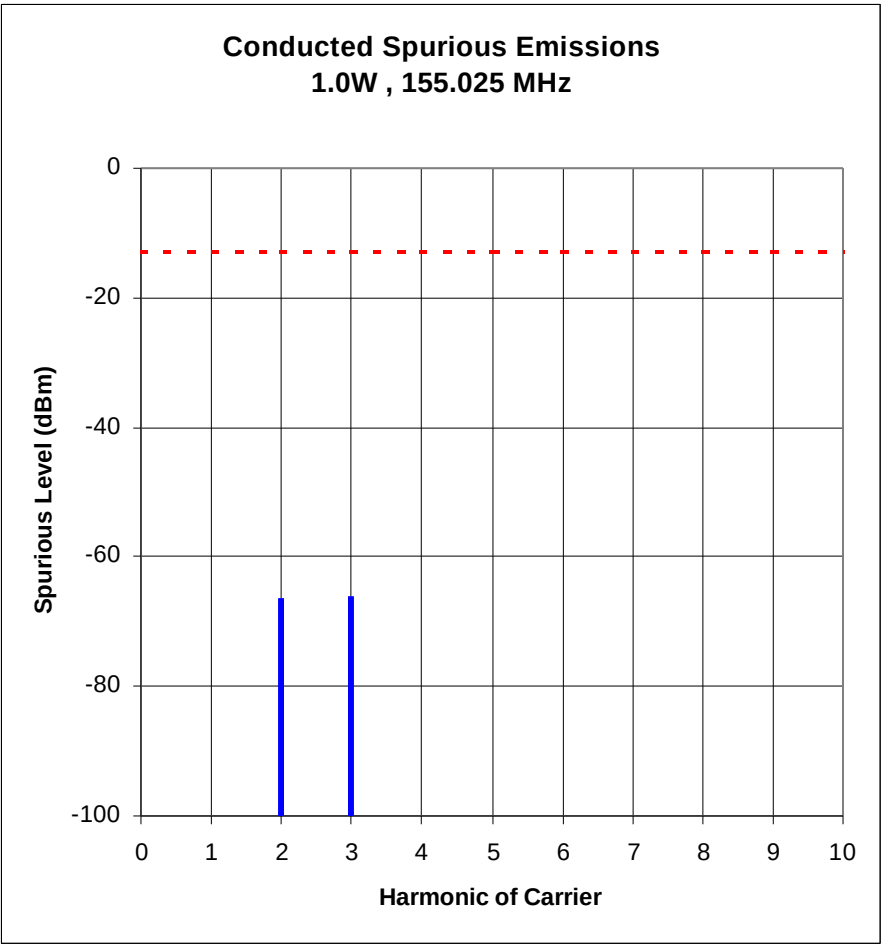
RefLevel = 14.3dBm

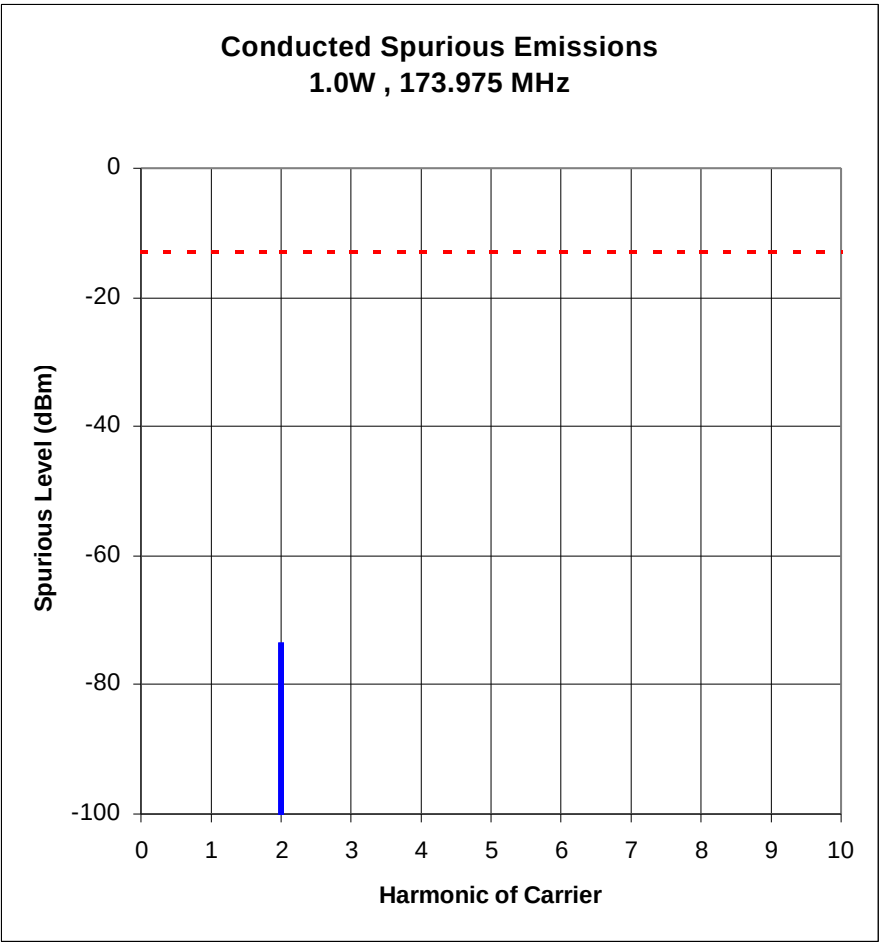








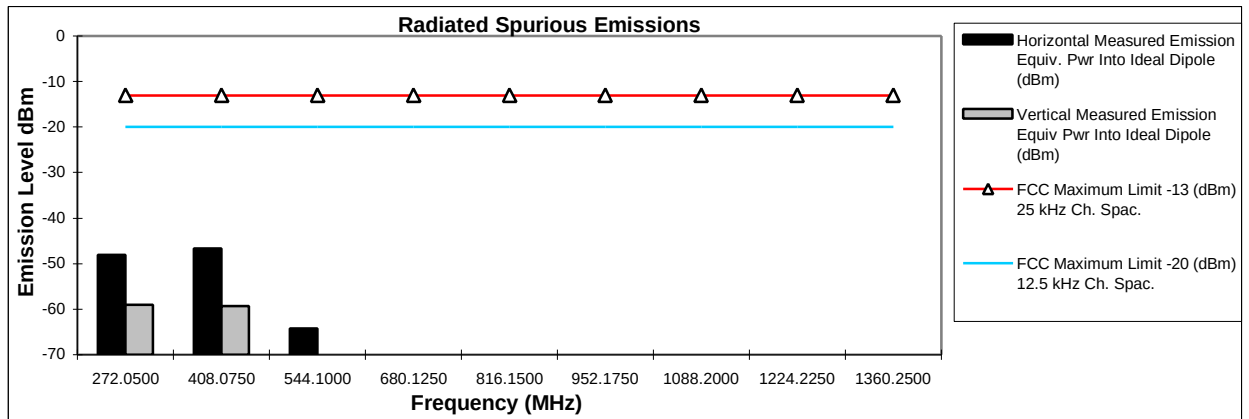




Transmitter Radiated Spurious Emissions: Waris VHF 25W Mobile

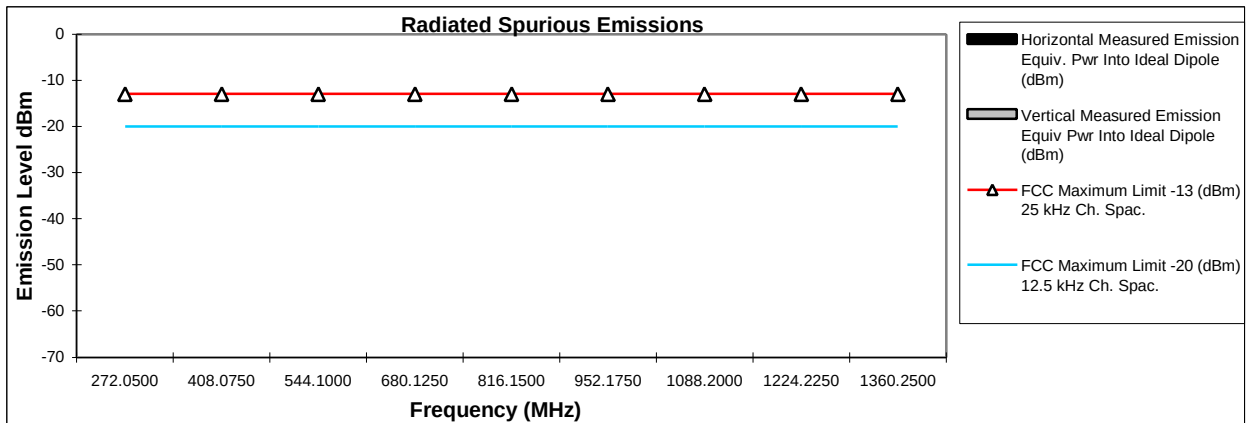
136.025 MHz - High Power (30 W) - 25 kHz CH. Spacing

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
272.0500	-13	-20	-48.2	-59.1
408.0750	-13	-20	-46.6	-59.3
544.1000	-13	-20	-64.2	-70.4
680.1250	-13	-20	-75.3	-77.2
816.1500	-13	-20	*	*
952.1750	-13	-20	*	*
1088.2000	-13	-20	*	*
1224.2250	-13	-20	*	*
1360.2500	-13	-20	*	*



136.025 MHz - Low Power (1 W) - 12.5 kHz CH. Spacing

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
272.0500	-13	-20	-79.3	-72.3
408.0750	-13	-20	-74.3	-75.6
544.1000	-13	-20	*	*
680.1250	-13	-20	*	*
816.1500	-13	-20	*	*
952.1750	-13	-20	*	*
1088.2000	-13	-20	*	*
1224.2250	-13	-20	*	*
1360.2500	-13	-20	*	*

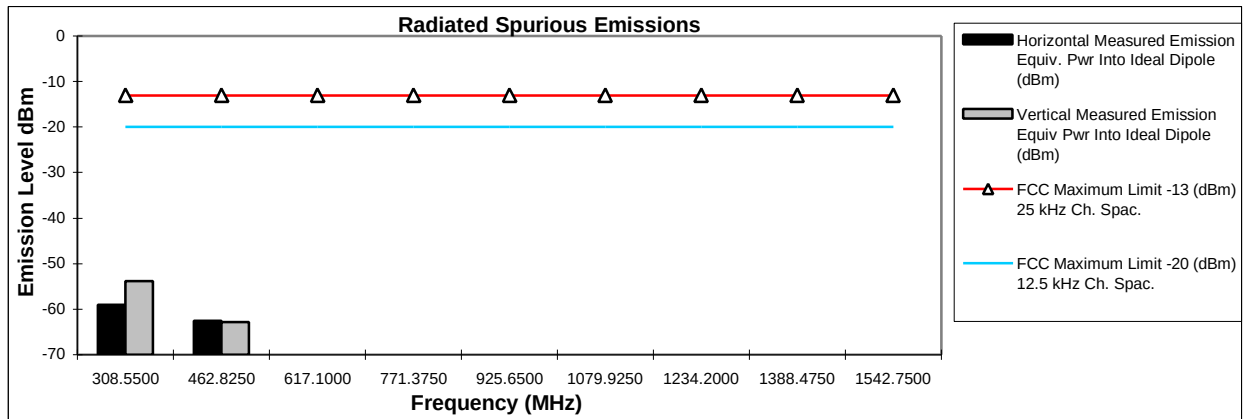


* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

Transmitter Radiated Spurious Emissions: Waris VHF 25W Mobile

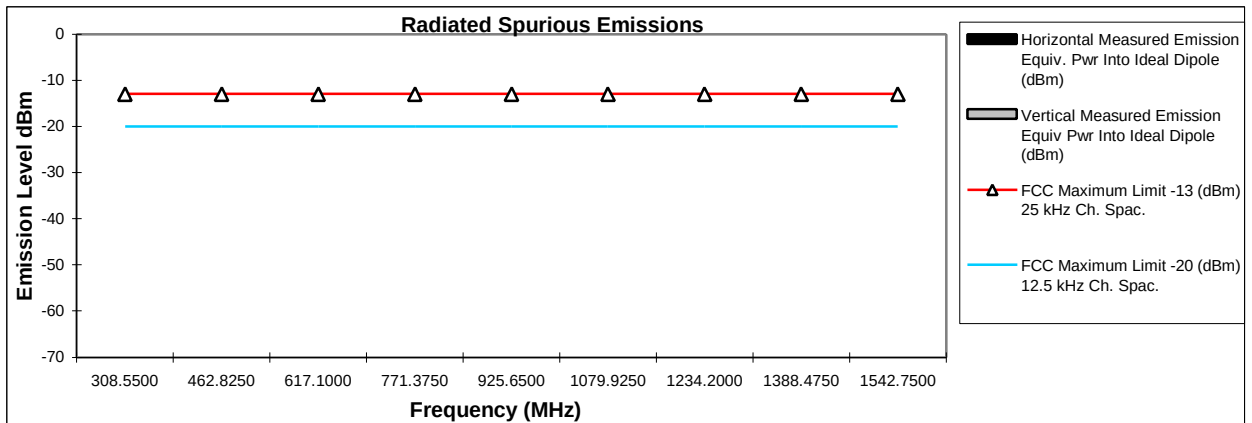
154.275 MHz - High Power (30 W) - 25 kHz CH. Spacing

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
308.5500	-13	-20	-59.1	-53.8
462.8250	-13	-20	-62.6	-62.8
617.1000	-13	-20	-79.0	-78.8
771.3750	-13	-20	-77.8	-74.6
925.6500	-13	-20	*	*
1079.9250	-13	-20	*	*
1234.2000	-13	-20	*	*
1388.4750	-13	-20	*	*
1542.7500	-13	-20	*	*



154.275 MHz - Low Power (1 W) - 12.5 kHz CH. Spacing

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
308.5500	-13	-20	-74.8	-74.3
462.8250	-13	-20	-83.3	-80.1
617.1000	-13	-20	*	*
771.3750	-13	-20	*	*
925.6500	-13	-20	*	*
1079.9250	-13	-20	*	*
1234.2000	-13	-20	*	*
1388.4750	-13	-20	*	*
1542.7500	-13	-20	*	*

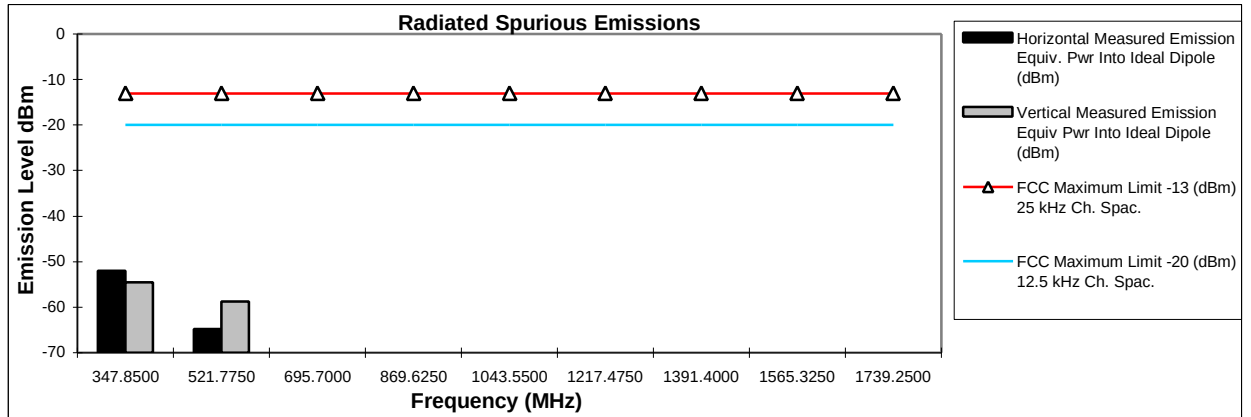


* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

Transmitter Radiated Spurious Emissions: Waris VHF 25W Mobile

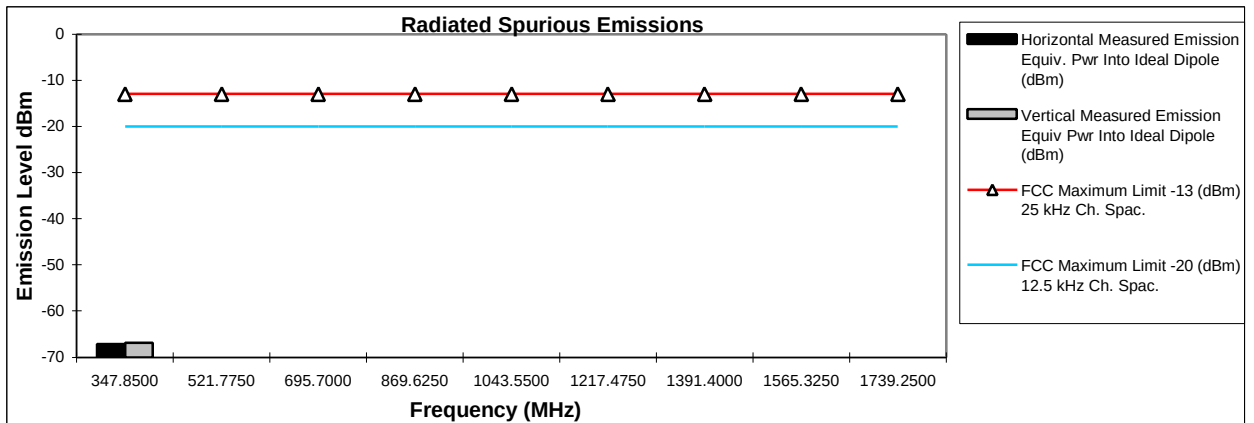
173.925 MHz - High Power (30 W) - 25 kHz CH. Spacing

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
347.8500	-13	-20	-52.1	-54.6
521.7750	-13	-20	-64.8	-58.7
695.7000	-13	-20	*	*
869.6250	-13	-20	*	*
1043.5500	-13	-20	*	*
1217.4750	-13	-20	*	*
1391.4000	-13	-20	*	*
1565.3250	-13	-20	*	*
1739.2500	-13	-20	*	*



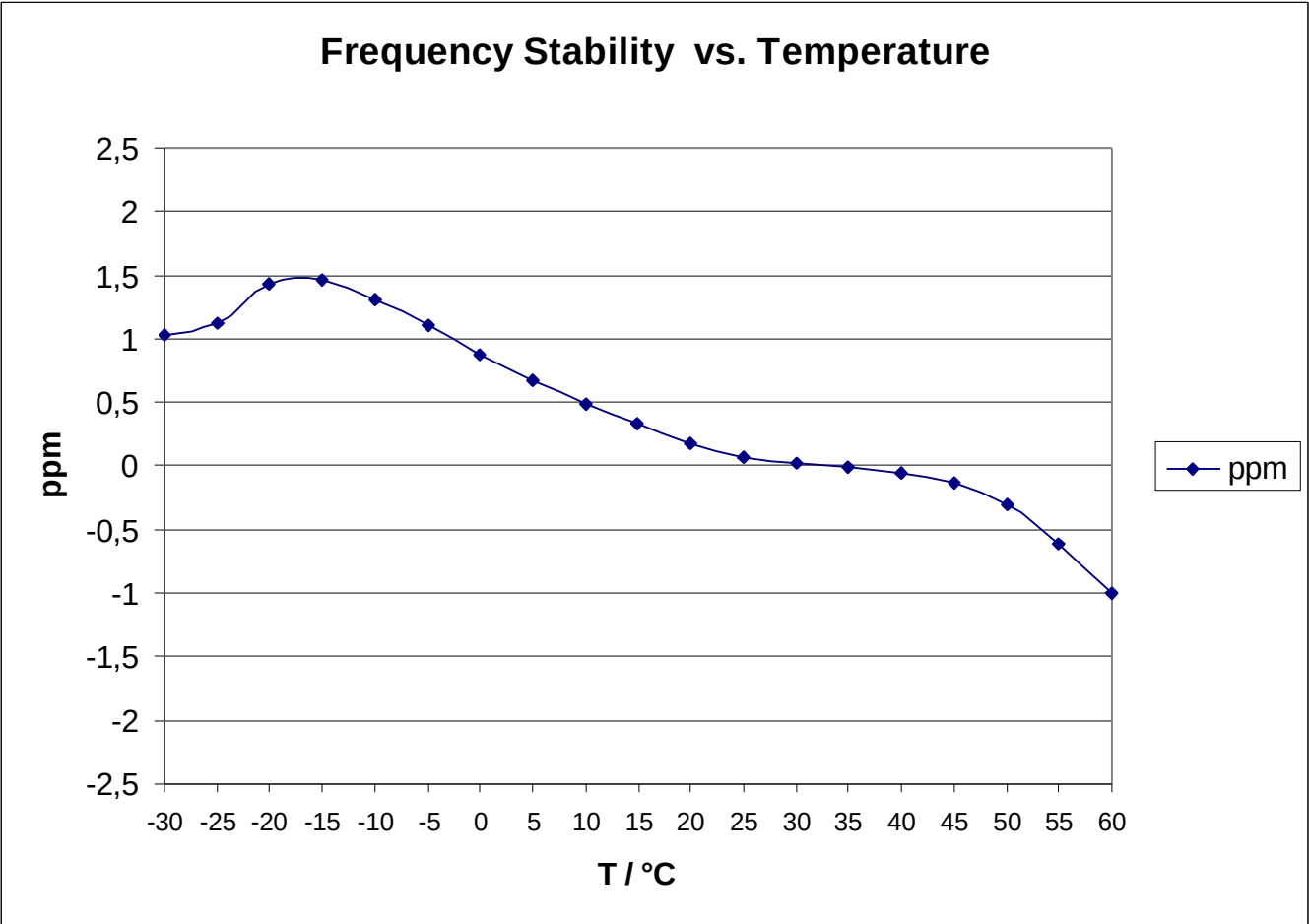
173.925 MHz - Low Power (1 W) - 12.5 kHz CH. Spacing

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
347.8500	-13	-20	-67.2	-66.9
521.7750	-13	-20	-82.9	-78.7
695.7000	-13	-20	*	*
869.6250	-13	-20	*	*
1043.5500	-13	-20	*	*
1217.4750	-13	-20	*	*
1391.4000	-13	-20	*	*
1565.3250	-13	-20	*	*
1739.2500	-13	-20	*	*

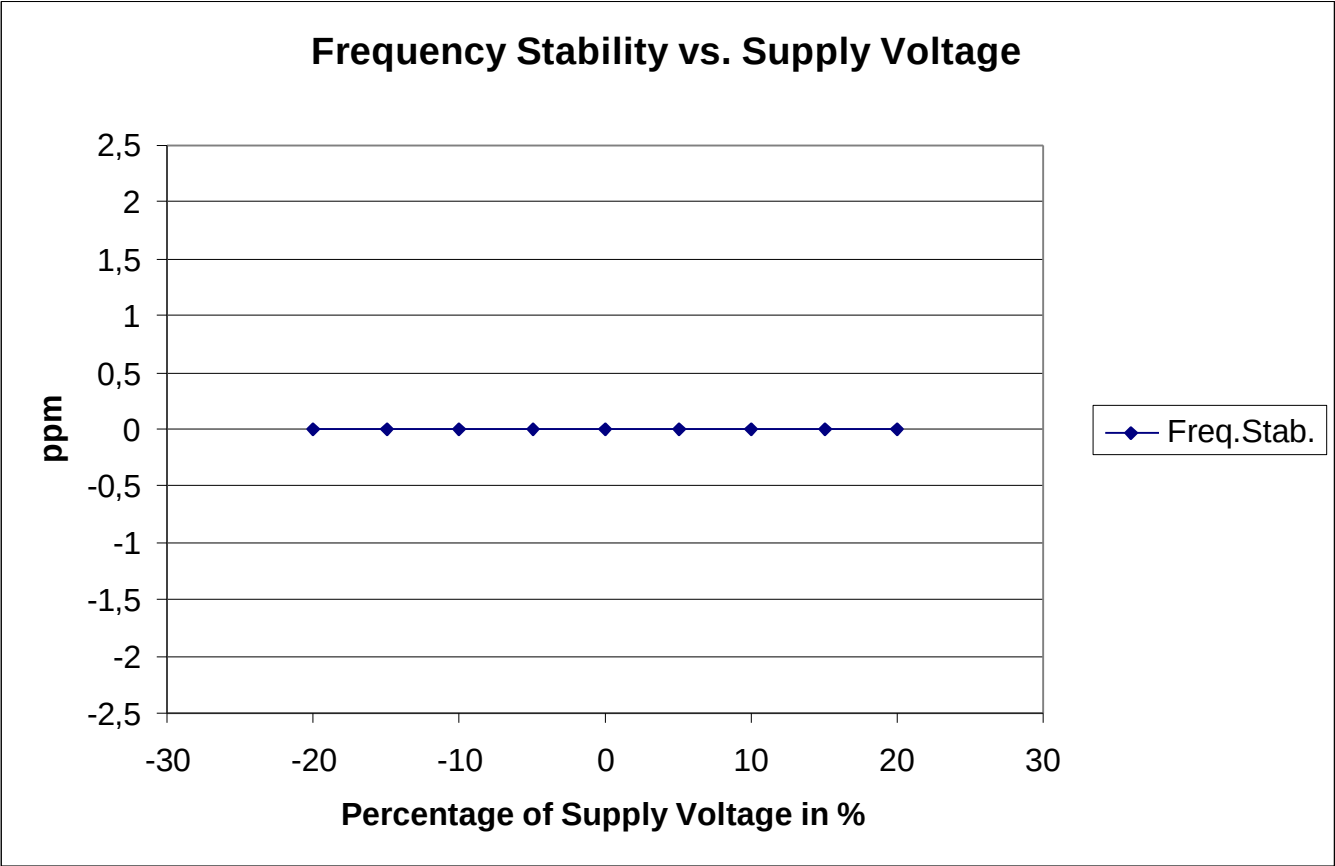


* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

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



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

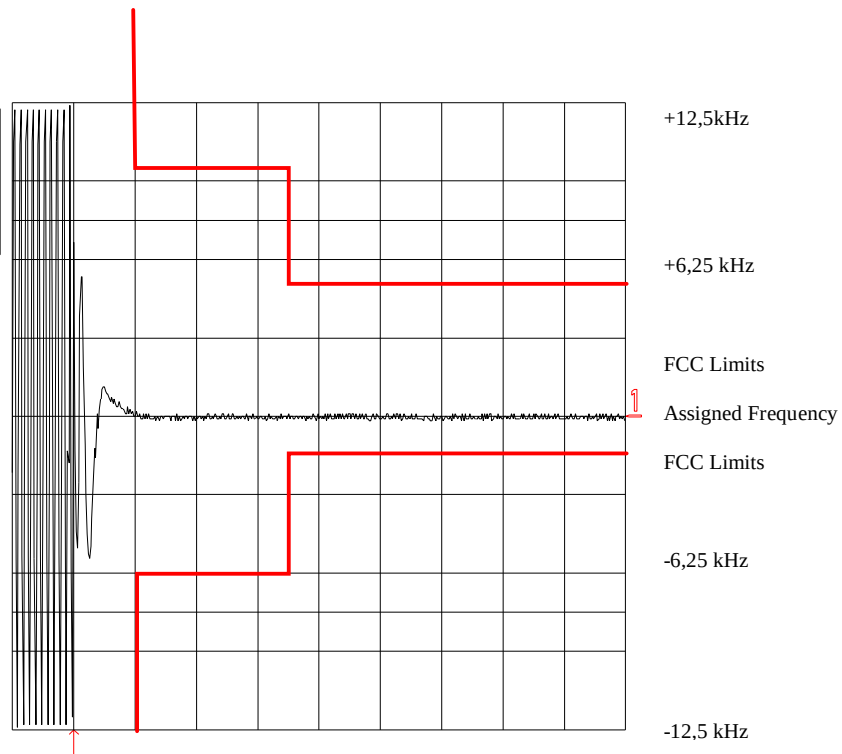


TRANSIENT FREQUENCY BEHAVIOR
30 WATTS, 155 MHz, 12.5kHz, Key-Up

27-Oct-99

14:43:05

1
10 ms
315mV



10 ms

1 315mV DC

2 2 V DC



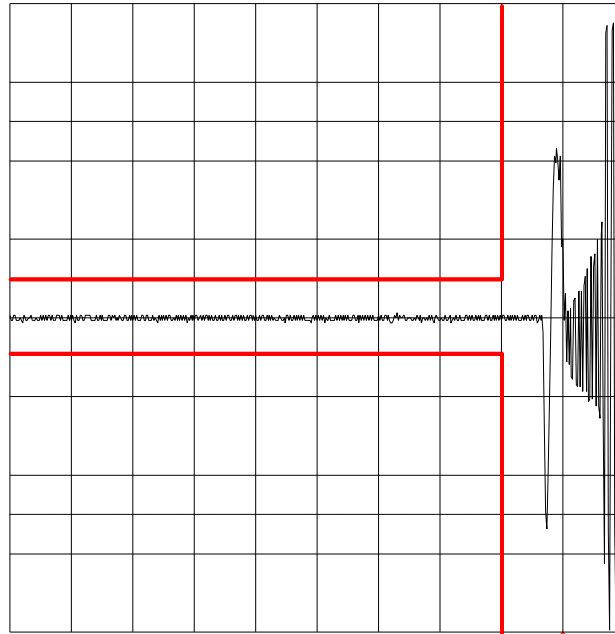
2 DC 2.88 V

STOPPED

TRANSIENT FREQUENCY BEHAVIOR 30 WATTS, 155 MHz, 12.5 kHz, DE-KEY

27-Oct-99
14:51:34

1
10 ms
315mV



+12,5 kHz

+6,25 kHz

FCC Limits

Assigned Frequency

FCC Limits

-6,25 kHz

-12,5 kHz

10 ms

1 315mV DC

2 2 V DC



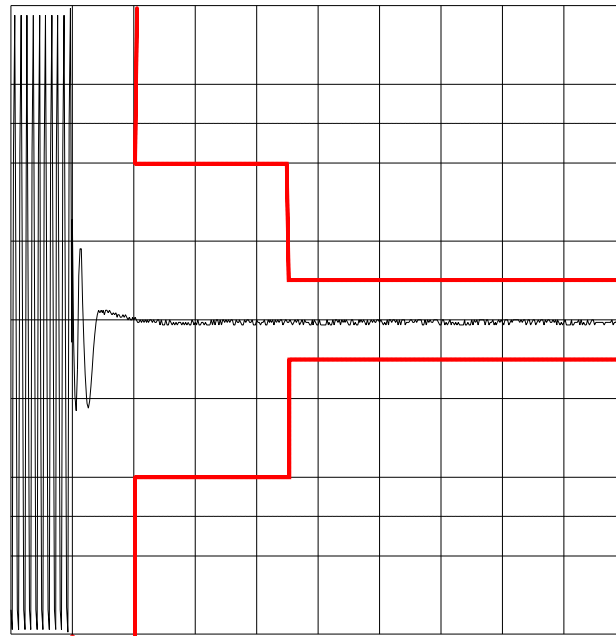
2 DC 2.88 V

STOPPED

TRANSIENT FREQUENCY BEHAVIOR
30 WATTS, 155 MHz, 25 kHz, KEY-UP

27-Oct-99
15:09:13

1
10 ms
0.63 V



10 ms

1 0.63 V DC

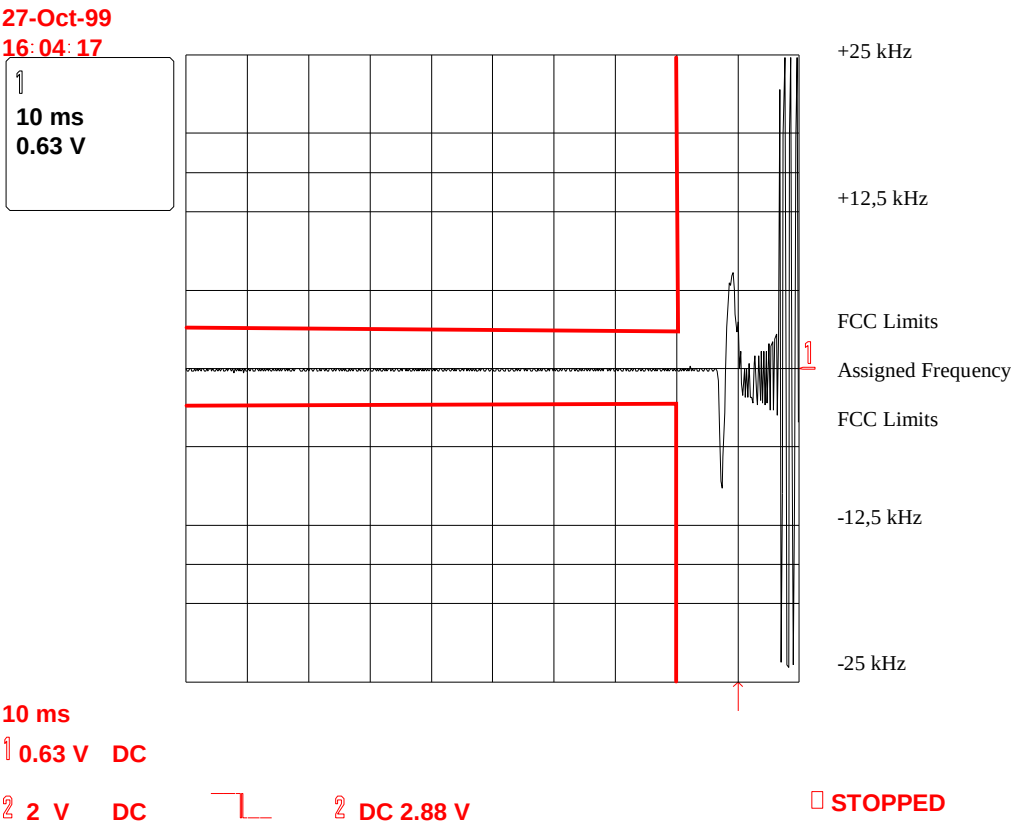
2 2 V DC



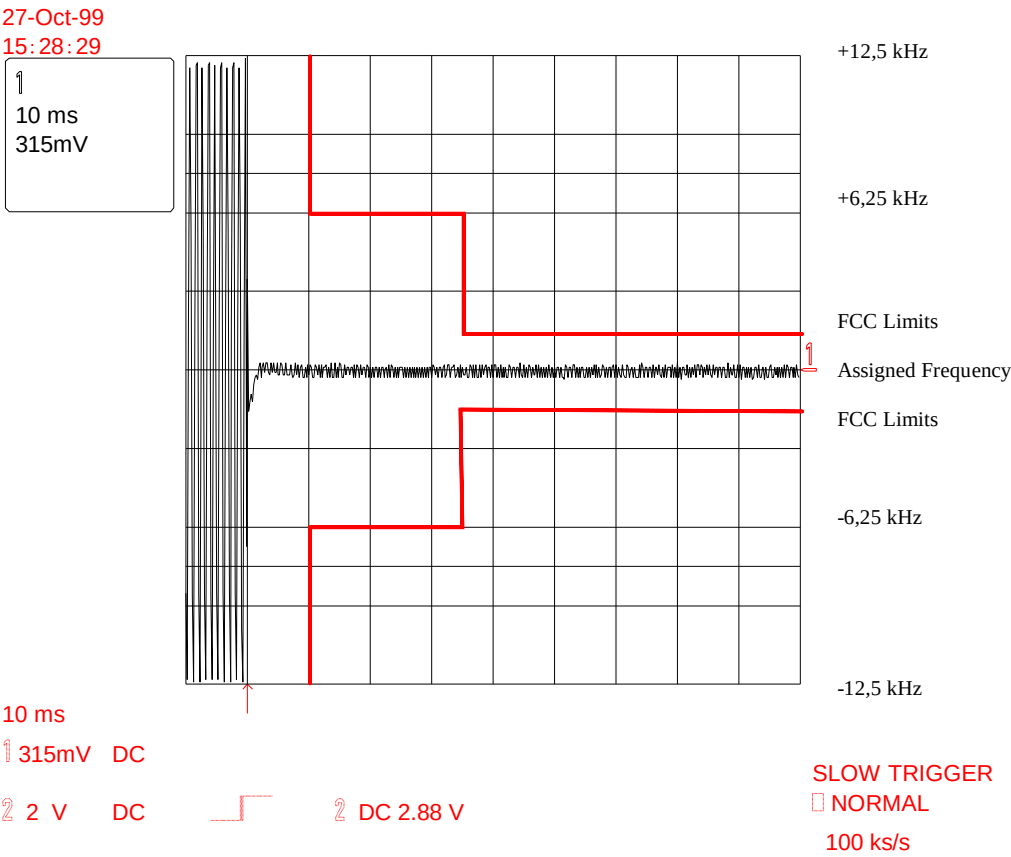
2 DC 2.88 V

STOPPED

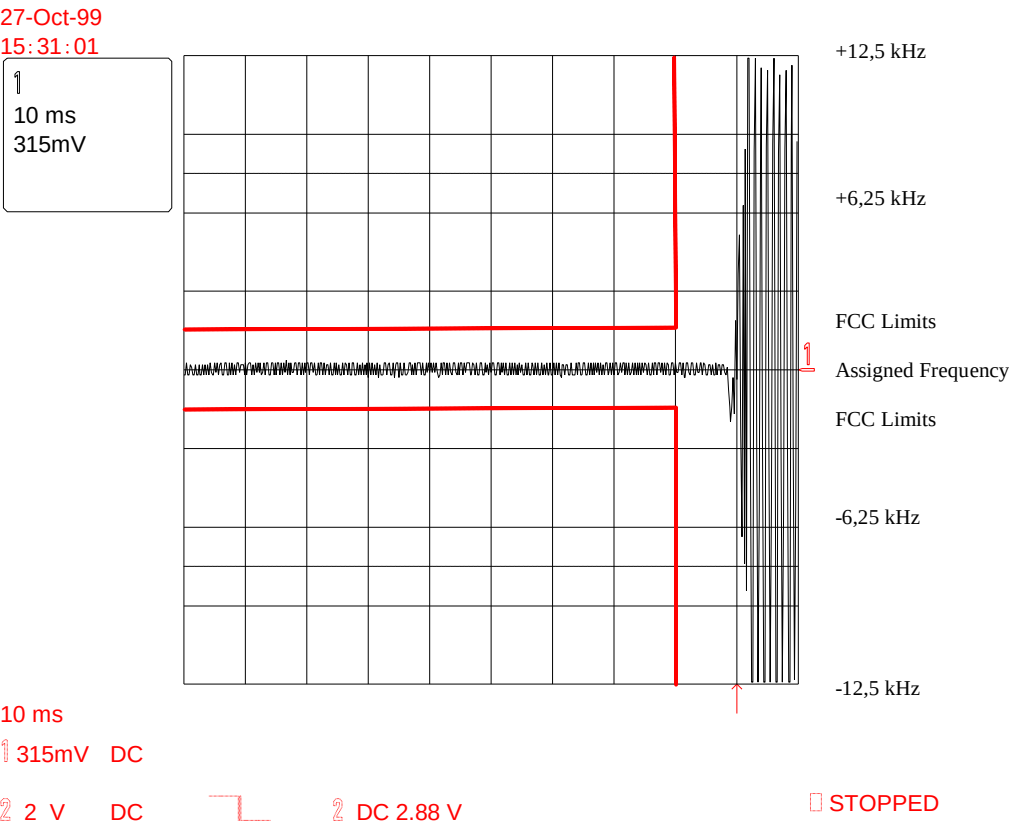
TRANSIENT FREQUENCY BEHAVIOR
30 WATTS, 155 MHz, 25 kHz, DE-KEY



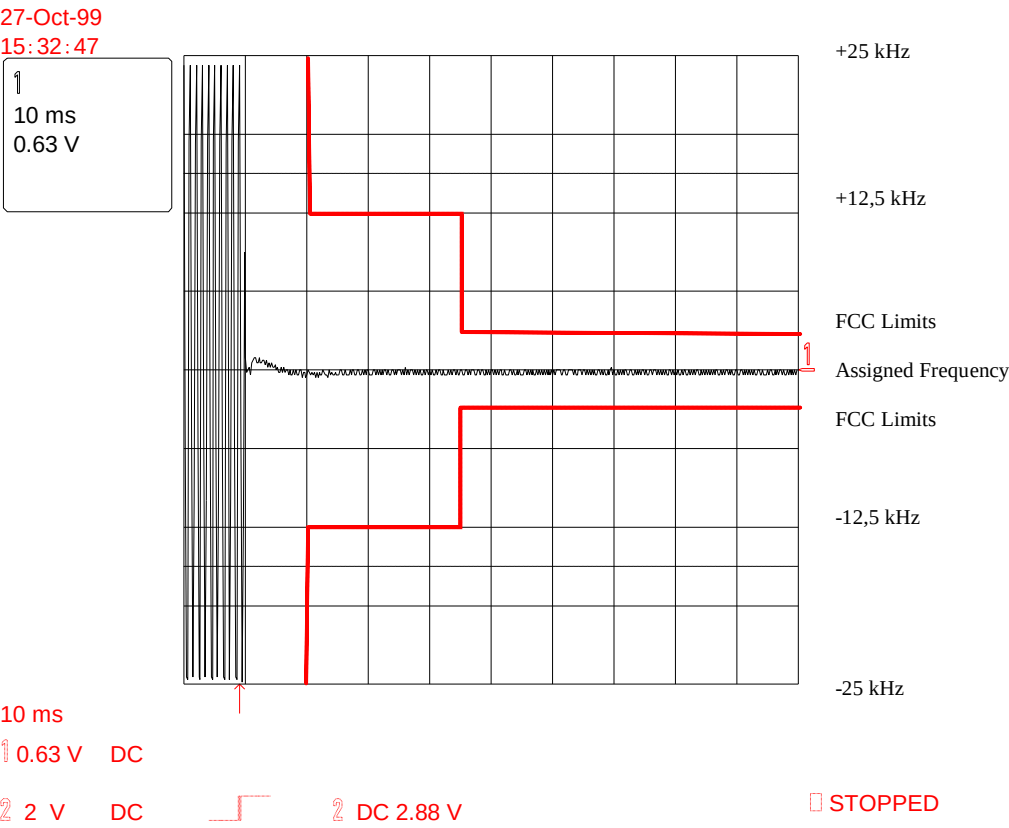
TRANSIENT FREQUENCY BEHAVIOR
1 WATT, 155 MHz, 12.5 kHz, KEY-UP



TRANSIENT FREQUENCY BEHAVIOR
1 WATT, 155 MHz, 12.5 kHz, DE-KEY



TRANSIENT FREQUENCY BEHAVIOR
1 WATT, 155 MHz, 25 kHz, KEY-UP



TRANSIENT FREQUENCY BEHAVIOR
1 WATT, 155 MHz, 25 kHz, DE-KEY

