

**EXHIBIT 6**

**INDEX OF SUBMITTED MEASURED DATA**

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

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**EXHIBIT 6A – RF Conducted Power Output Data** – Pursuant 47 CFR 2.1046(a), 2.1033(c)(6), 2.1033(c)(7)

and 2.1033(c)(8)

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device.

**At High Power setting, Low Frequency 29.7 MHz:**

Output RF power	132 Watts
DC Voltage	13.4 Volts
DC Current	17.5 Amps

**At Nominal Power setting, Low Frequency 29.7 MHz:**

Output RF power	118.2 Watts
DC Voltage	13.4 Volts
DC Current	16.8 Amps

**At Low Power setting, Low Frequency 29.7 MHz:**

Output RF power	49.27Watts
DC Voltage	13.4 Volts
DC Current	12.5 Amps

**At High power setting, Medium Frequency 33.35 MHz:**

Output RF power	131.9 Watts
DC Voltage	13.4 Volts
DC Current	17.09 Amps

**At Nominal Power setting, Medium Frequency 33.35 MHz:**

Output RF power	119.4 Watts
DC Voltage	13.4 Volts
DC Current	16.5 Amps

**At Low output power setting, Medium Frequency 33.35 MHz:**

Output RF power	48.010 Watts
DC Voltage	13.6 Volts
DC Current	12.72Amps

**At High power setting, High Frequency 37 MHz:**

Output RF power	132 Watts
DC Voltage	13.4 Volts
DC Current	17.48 Amps

**At Nominal Power setting, High Frequency 37 MHz:**

Output RF power	118.6 Watts
DC Voltage	13.4 Volts
DC Current	16.3 Amps

**At Low power setting, High Frequency 37 MHz:**

Output RF power	49.27 Watts
DC Voltage	13.4 Volts
DC Current	12.4 Amps

EXHIBIT 6B – Transmit Audio Response – Pursuant 47 CFR 2.1047 and 2.1033(c) (13)

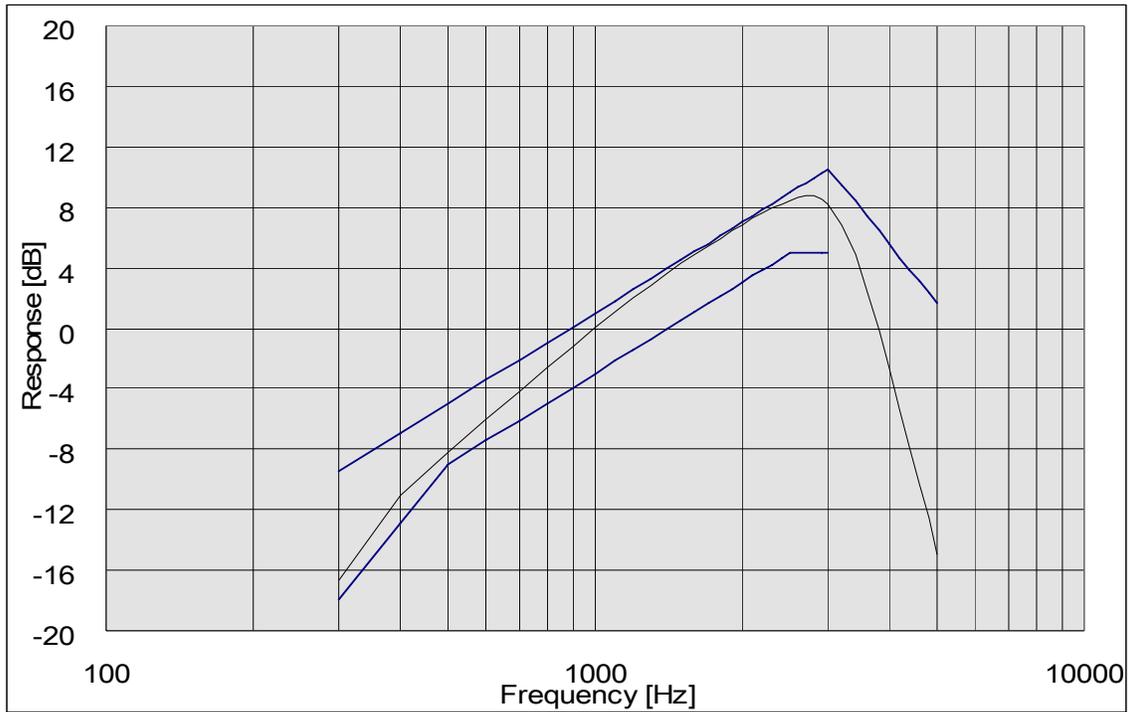


Figure 6B-1: 20 kHz Channel Spacing, Transmit Audio Response

EXHIBIT 6C – Transmit Audio Post Limiter Low Pass Filter Response – Pursuant 47 CFR 2.1047 and 2.1033(c)(13)

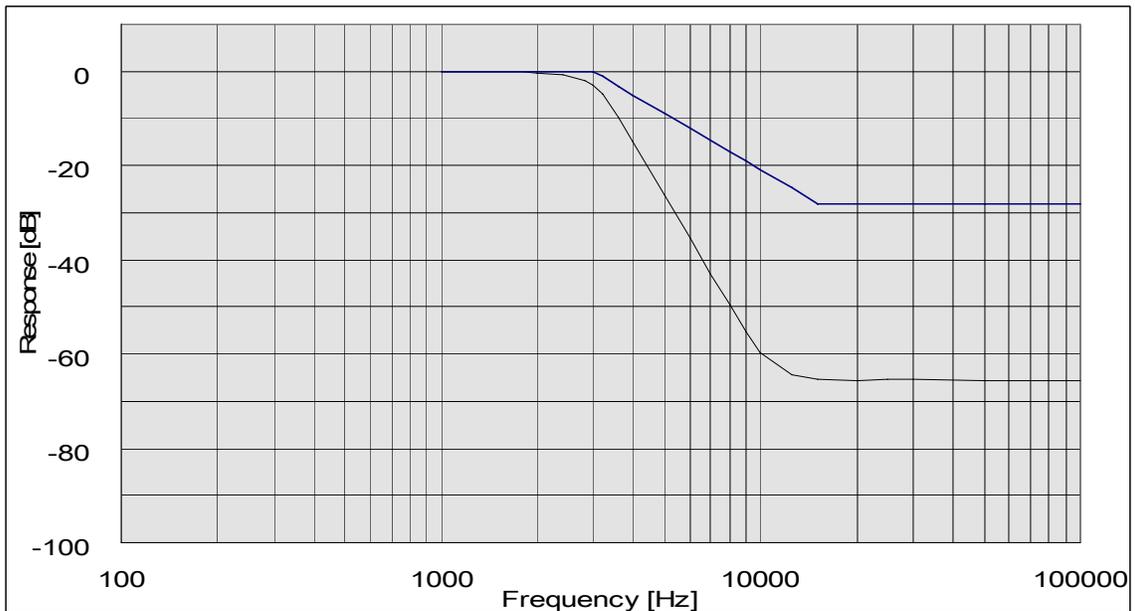


Figure 6C-1: 20 kHz Channel Spacing, Transmit Audio Low Pass Filter Response,

EXHIBIT 6D – Modulation Limiting Characteristics – Pursuant 47 CFR 2.1047 and 2.1033(c)(13)

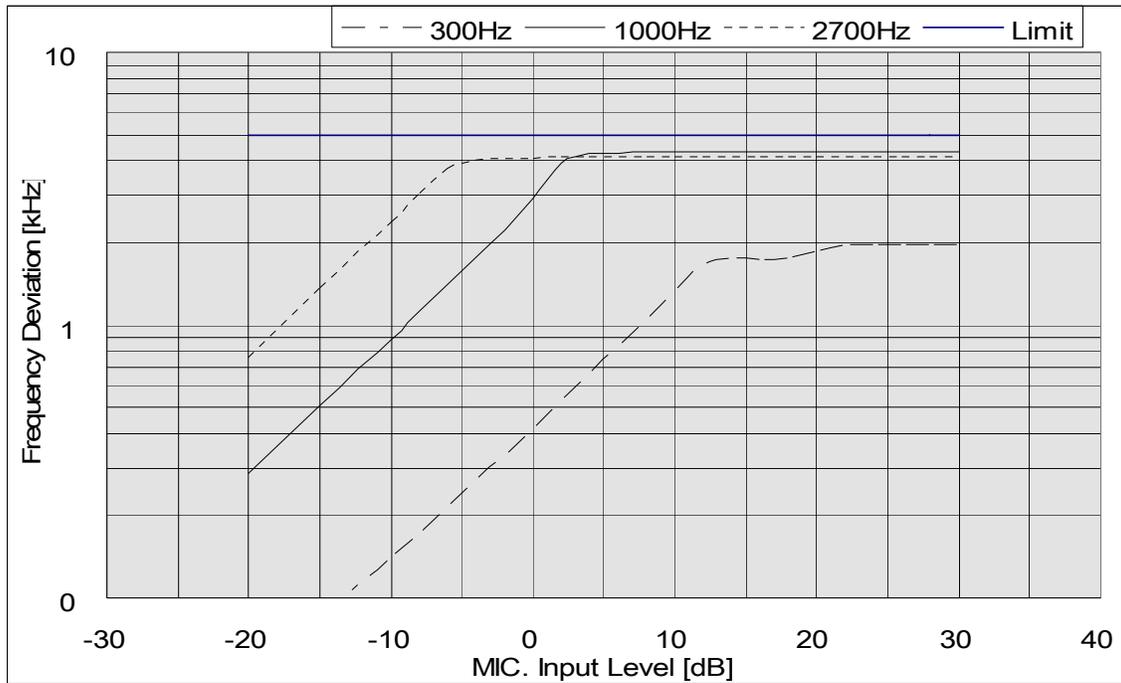


Figure 6D-1: 20 kHz Channel Spacing, Positive Peak, Carrier Squelch Mode,

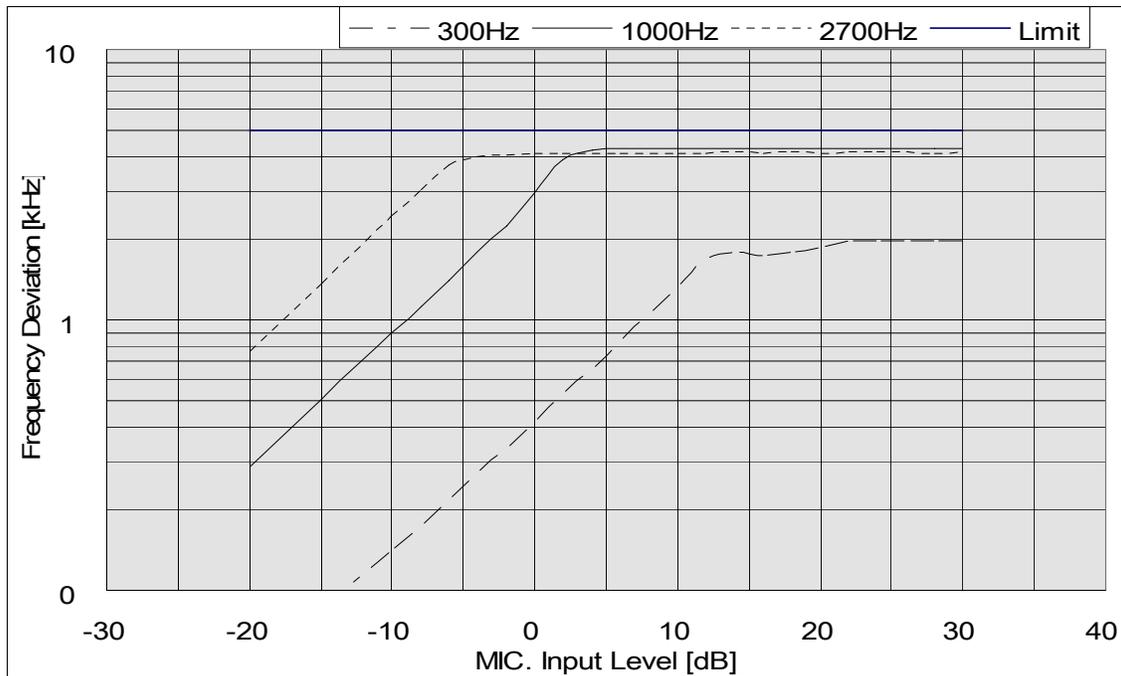


Figure 6D-2: 20kHz Channel Spacing, Negative Peak, Carrier Squelch Mode

EXHIBIT 6E- Occupied Bandwidth Data – Pursuant 47 CFR 2.1049, 90.210(g) and 90.691

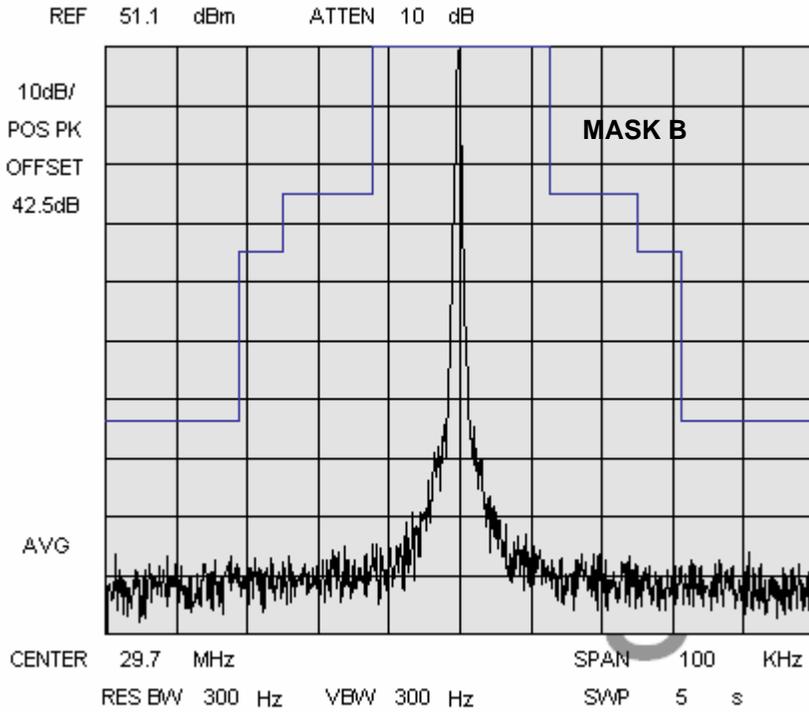


Figure 6E-1: 20 kHz Channel Spacing, High Power, 29.7 MHz, 16K0F3E

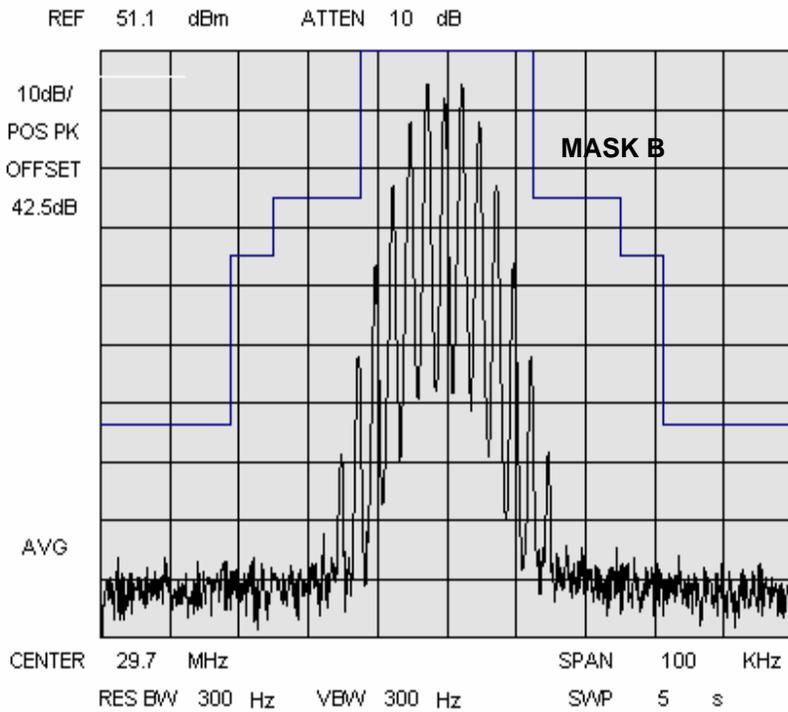


Figure 6E-2: 20 kHz Channel Spacing, High Power, 29.7MHz, 16K0F3E

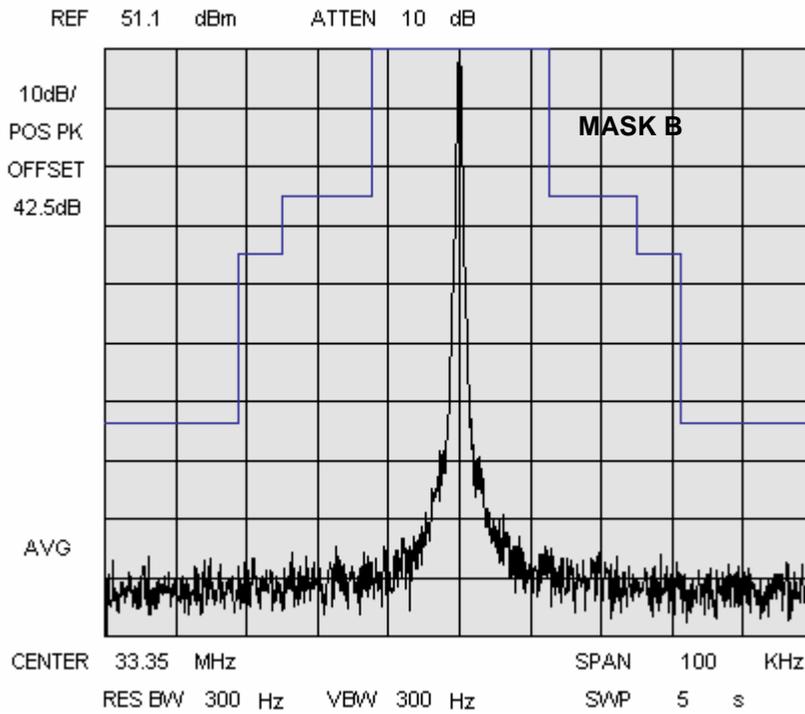


Figure 6E-3: 20 kHz Channel Spacing, High Power, 33.35MHz, 16K0F3E

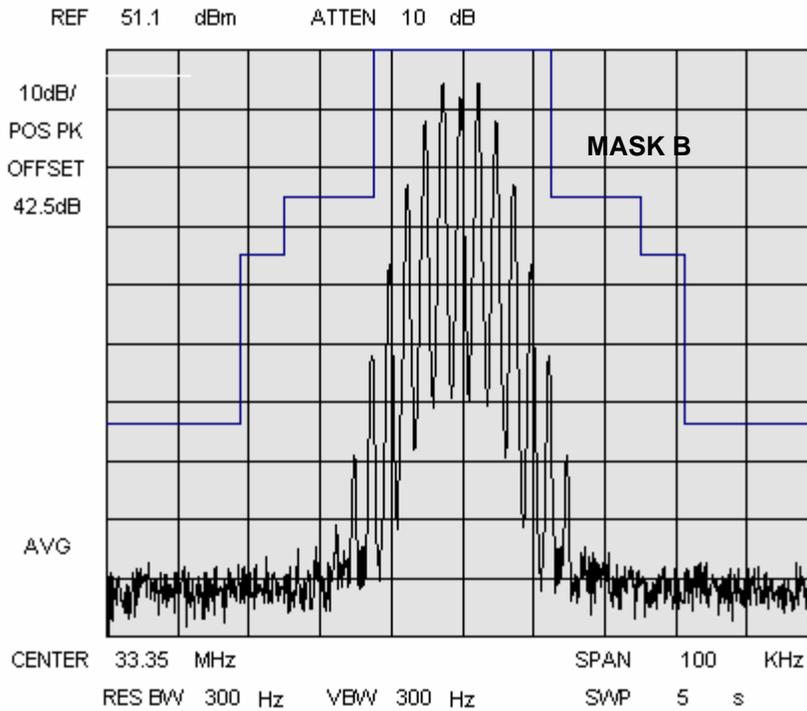


Figure 6E-4: 20 kHz Channel Spacing, High Power, 33.35MHz, 16K0F3E

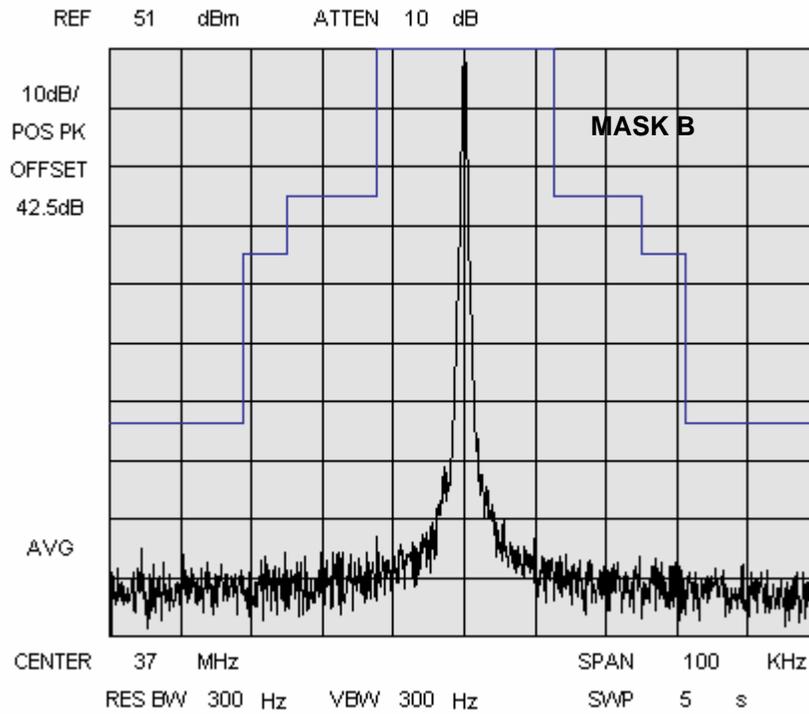


Figure 6E-5: 20 kHz Channel Spacing, High Power, 37MHz, 16K0F3E

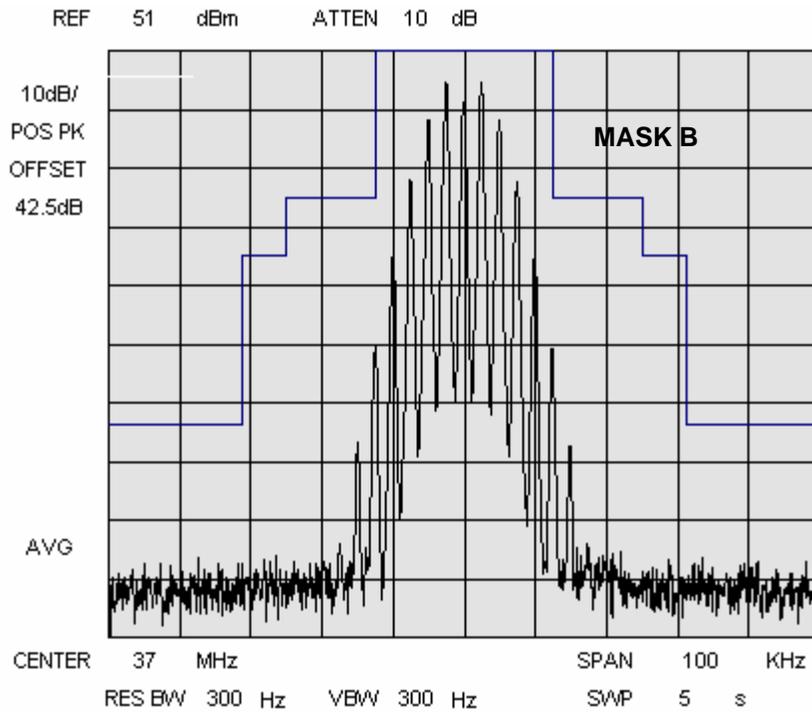


Figure 6E-6: 20 kHz Channel Spacing, High Power, 37MHz, 16K0F3E

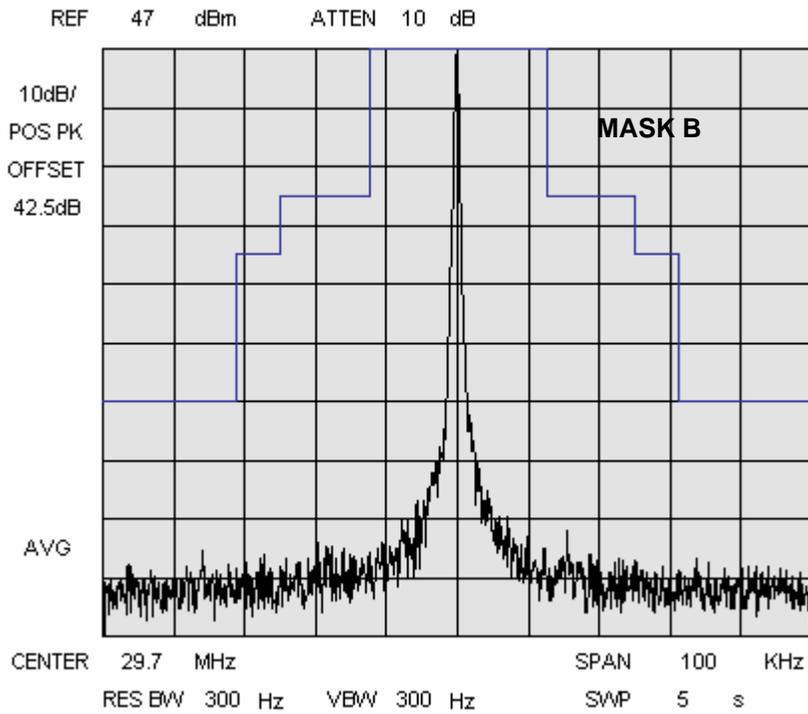


Figure 6E-7: 20 kHz Channel Spacing, Low Power, 29.7MHz, 16K0F3E

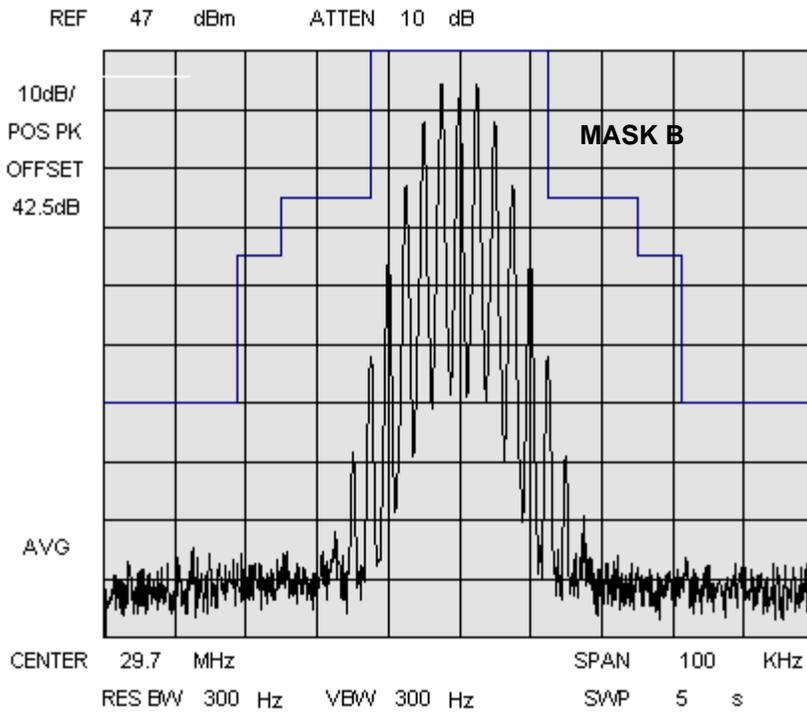


Figure 6E-8: 20 kHz Channel Spacing, Low Power, 29.7MHz, 16K0F3E

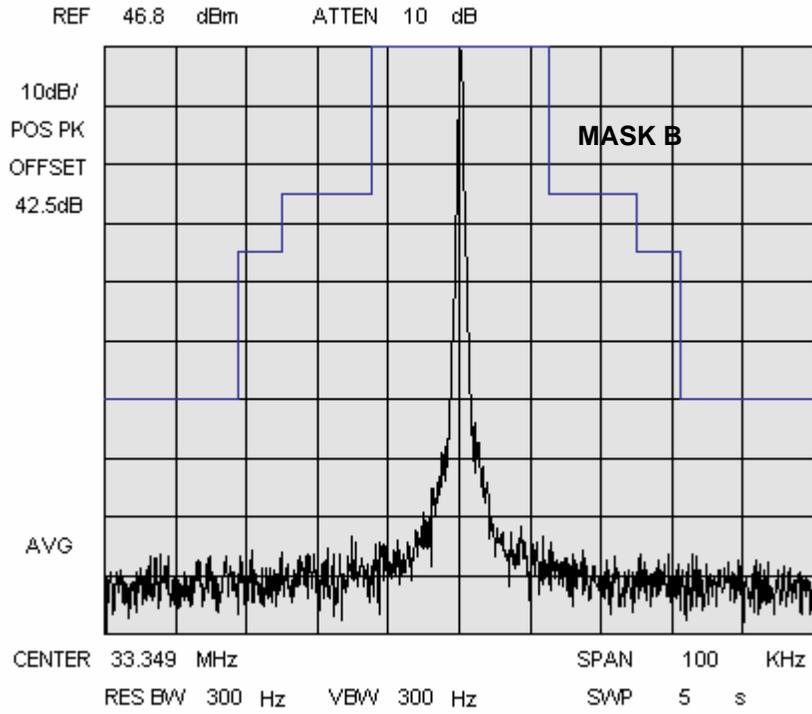


Figure 6E-9: 20 kHz Channel Spacing, Low Power, 33.35MHz, 16K0F3E

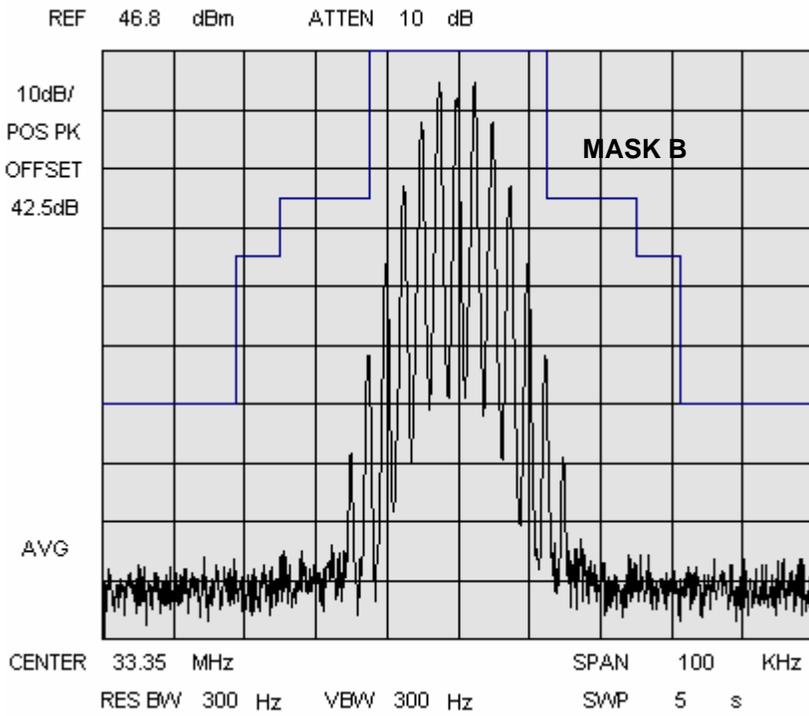


Figure 6E-10: 20 kHz Channel Spacing, Low Power, 33.35MHz, 16K0F3E

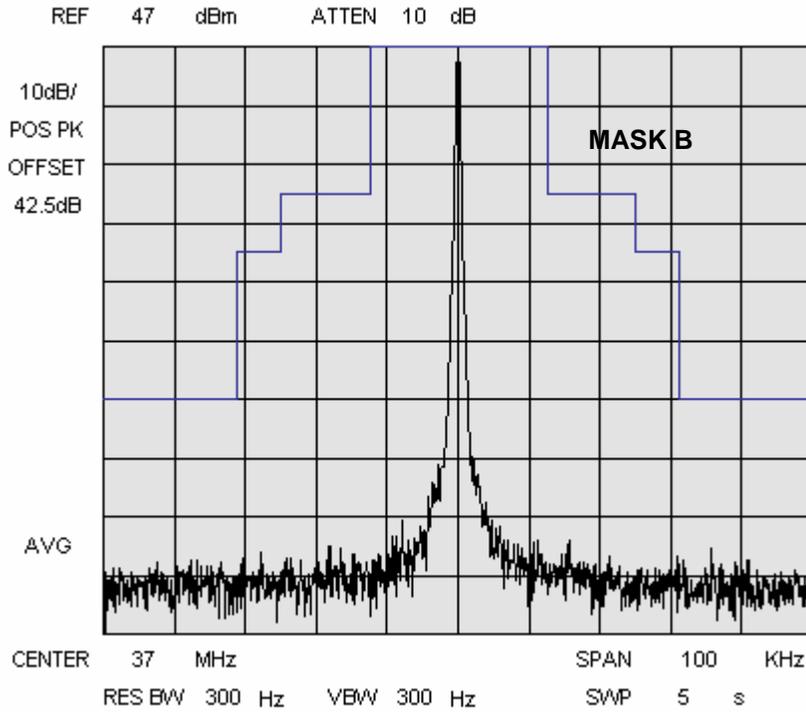


Figure 6E-11: 20 kHz Channel Spacing, Low Power, 37MHz, 16K0F3E

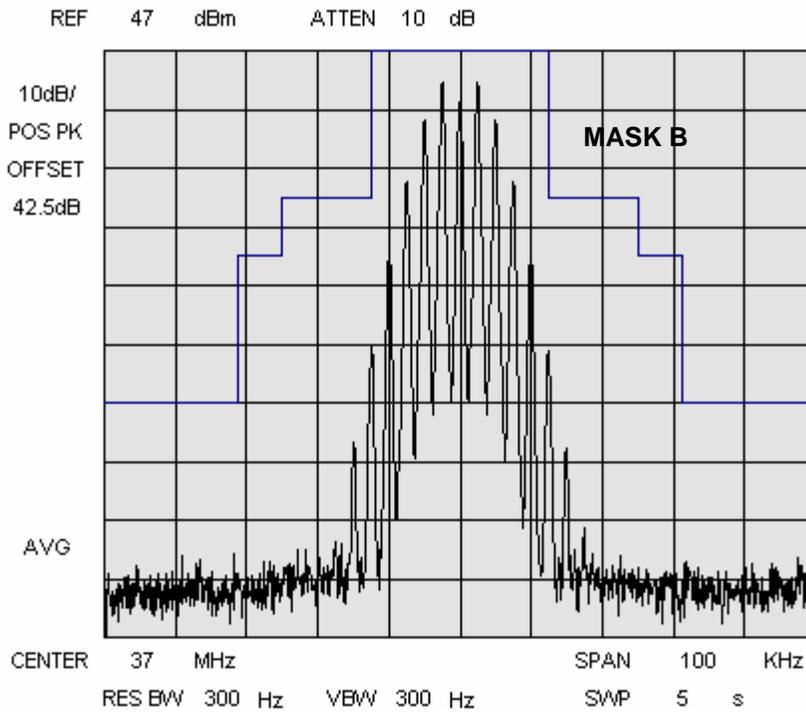


Figure 6E-12: 20 kHz Channel Spacing, Low Power, 37MHz, 16K0F3E

EXHIBIT 6F – Conducted Spurious Emissions – Pursuant 47 CFR 2.1047 and 2.1033(c)(13)

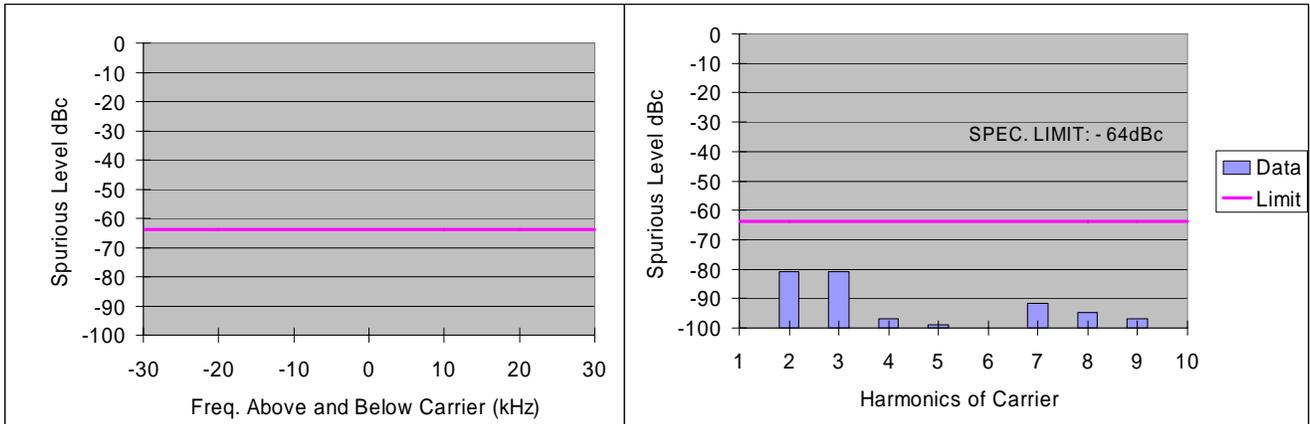


Figure 6F-1: High Power, 29.725 MHz, 20 kHz Channel Spacing

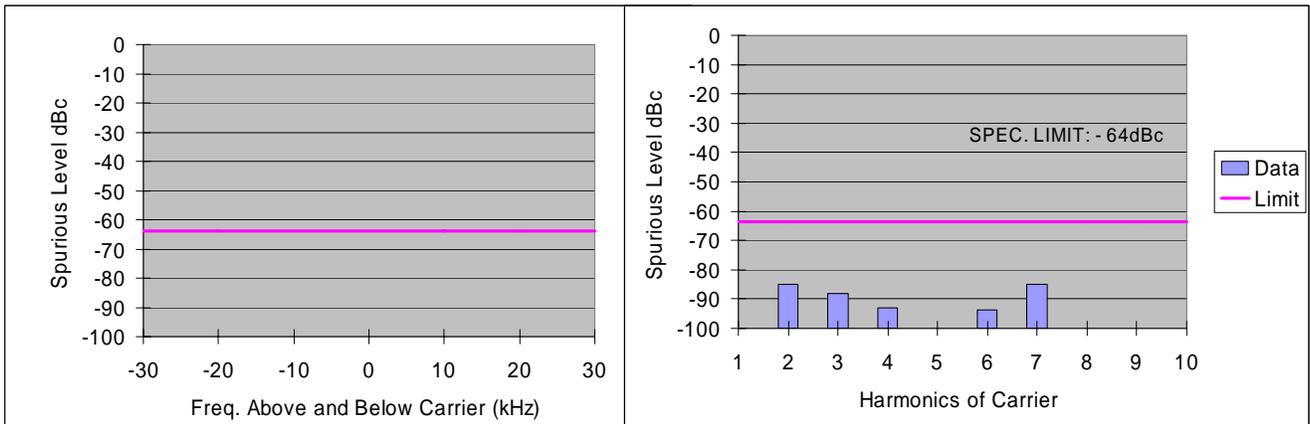


Figure 6F-2: High Power, 33.4 MHz, 20 kHz Channel Spacing

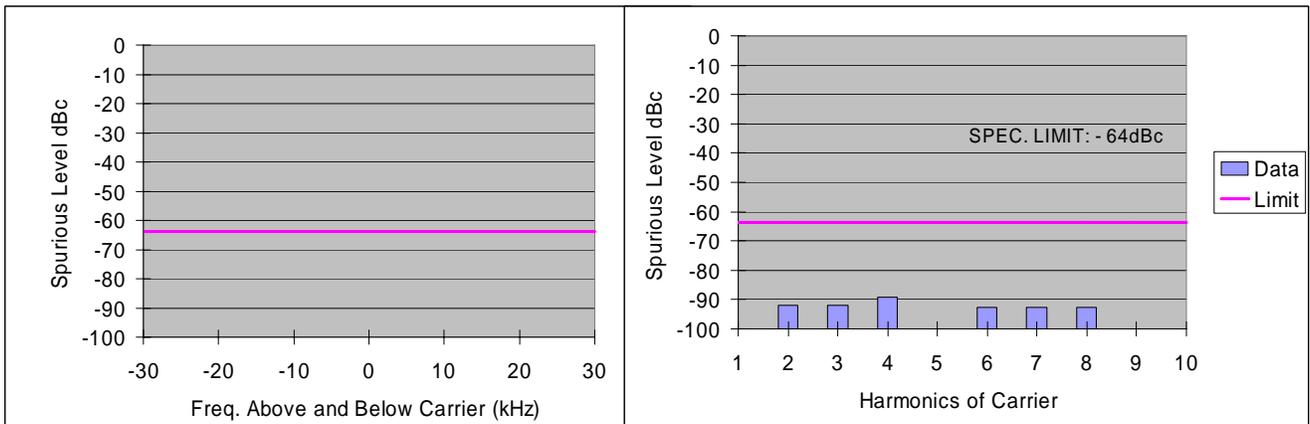


Figure 6F-3: High Power, 36.975 MHz, 20 kHz Channel Spacing

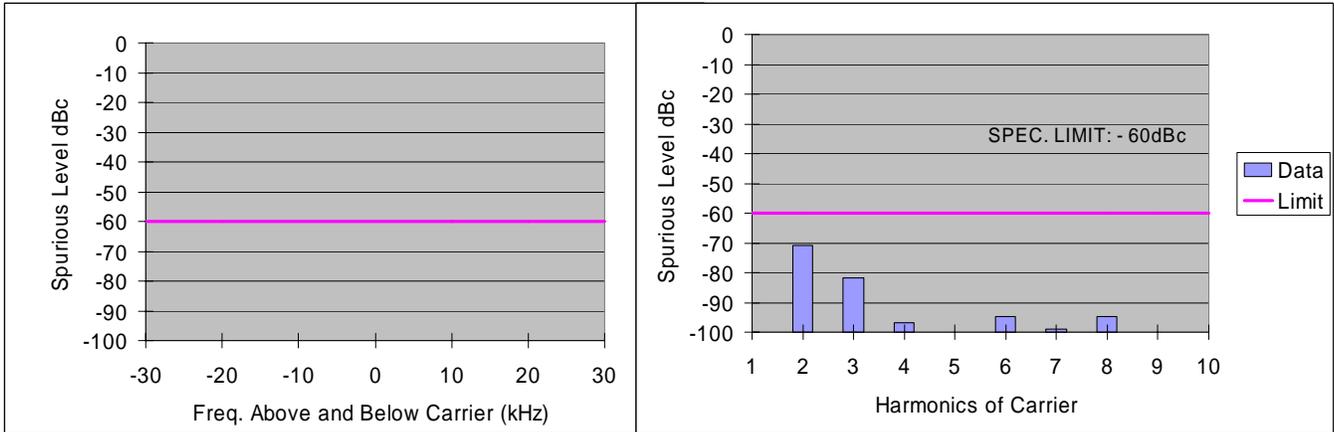


Figure 6F-4: Low Power, 29.725 MHz, 20 kHz Channel Spacing

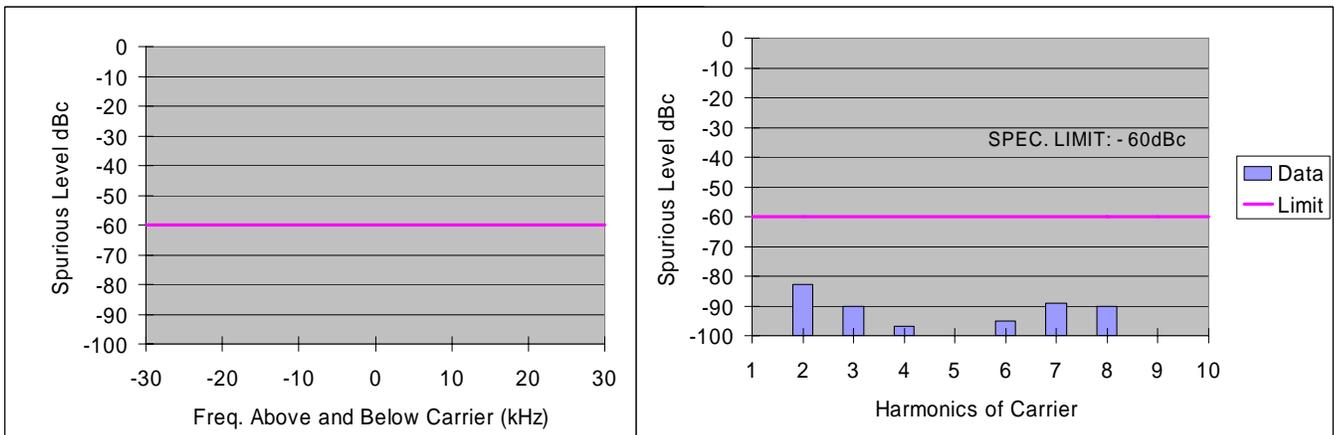


Figure 6F-5: Low Power, 33.4 MHz, 20 kHz Channel Spacing

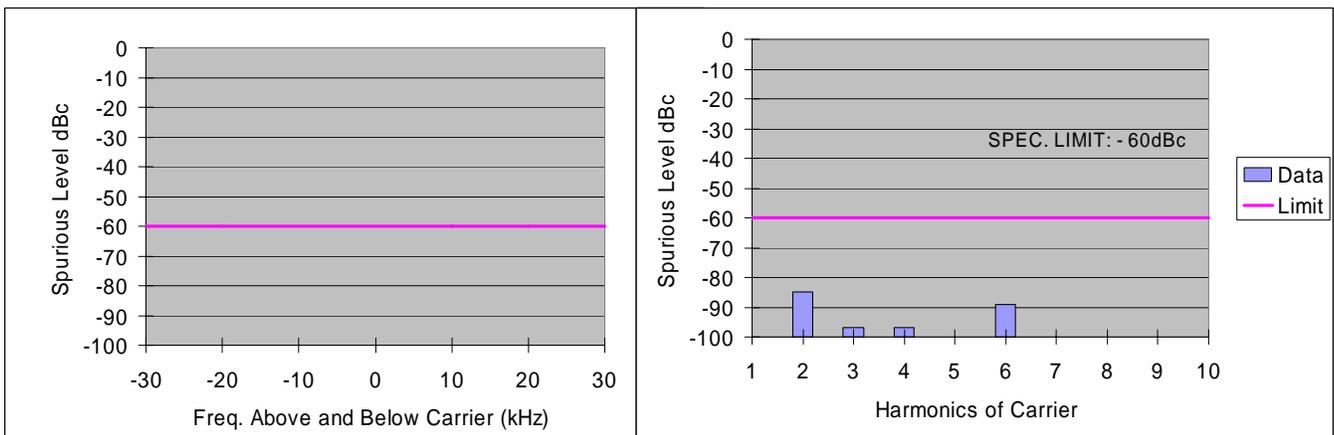


Figure 6F-6: Low Power, 36.975 MHz, 20 kHz Channel Spacing

Tx Power: 120 Watts

29.725 MHz

Channel Spacing 20kHz | S/N 1591HE0005

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
59.4500	-13	*	-58.80
89.1750	-13	-38.11	-37.02
118.9000	-13	-40.46	-42.06
148.6250	-13	-40.75	-43.86
178.3500	-13	-42.03	-44.06
208.0750	-13	-51.97	-52.30
237.8000	-13	-48.23	-47.85
267.5250	-13	-49.16	-48.63
297.2500	-13	-48.19	-50.60

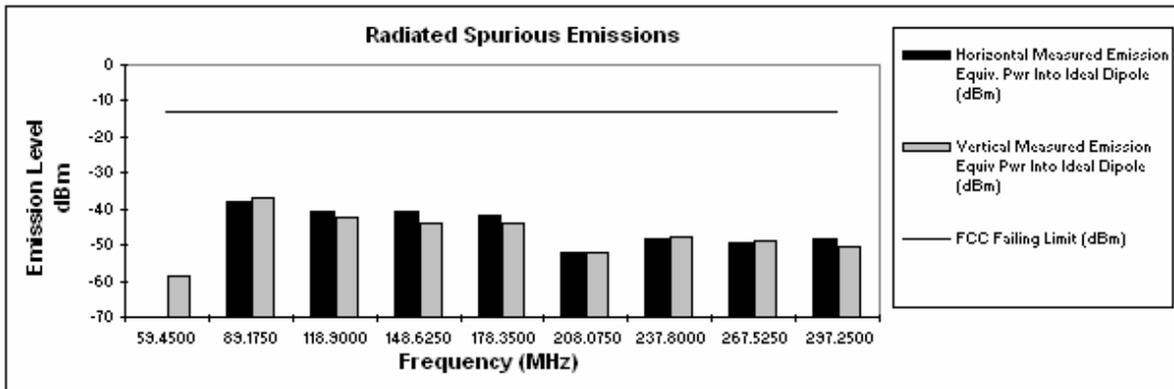


Figure 6G-1: High Power, 29.725 MHz, 20 kHz Channel Spacing  
Tx Power: 120 Watts

33.4 MHz

Channel Spacing 20kHz | S/N 1591HE0005

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
66.8000	-13	*	*
100.2000	-13	-31.40	-27.44
133.6000	-13	-37.63	-35.95
167.0000	-13	-55.73	-48.27
200.4000	-13	-51.59	-41.46
233.8000	-13	-37.03	-32.63
267.2000	-13	-46.88	-47.11
300.6000	-13	-36.53	-44.05
334.0000	-13	-45.67	-45.23

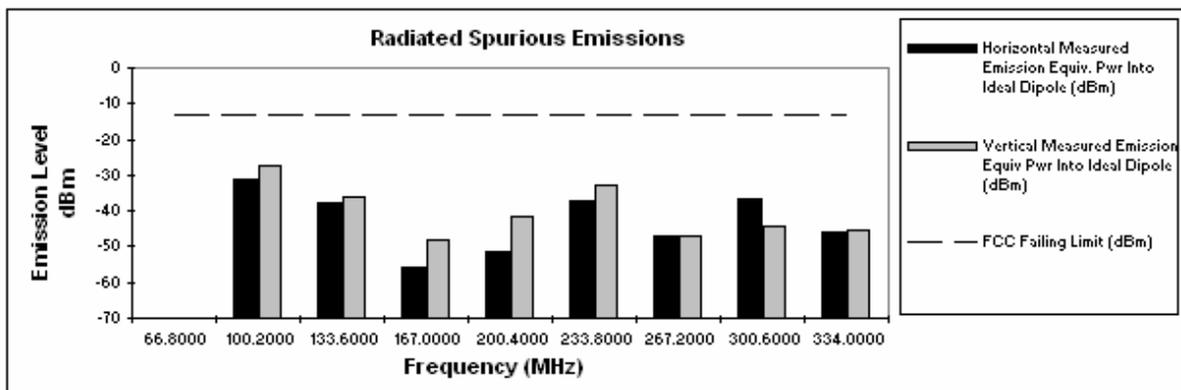


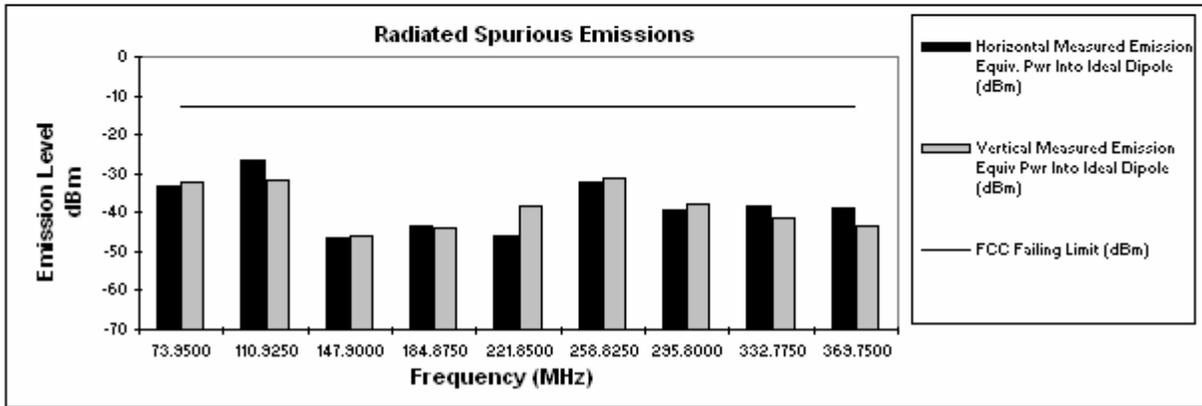
Figure 6G-2: High Power, 33.400 MHz, 20 kHz Channel Spacing

**Tx Power: 120 Watts**

**36.975 MHz**

**Channel Spacing 20kHz | S/N 1591HE0005**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
73.9500	-13	-33.13	-32.39
110.9250	-13	-26.38	-31.46
147.9000	-13	-46.57	-46.08
184.8750	-13	-43.43	-43.96
221.8500	-13	-45.83	-38.25
258.8250	-13	-32.10	-30.98
295.8000	-13	-39.28	-37.85
332.7750	-13	-38.46	-41.64
369.7500	-13	-38.65	-43.49



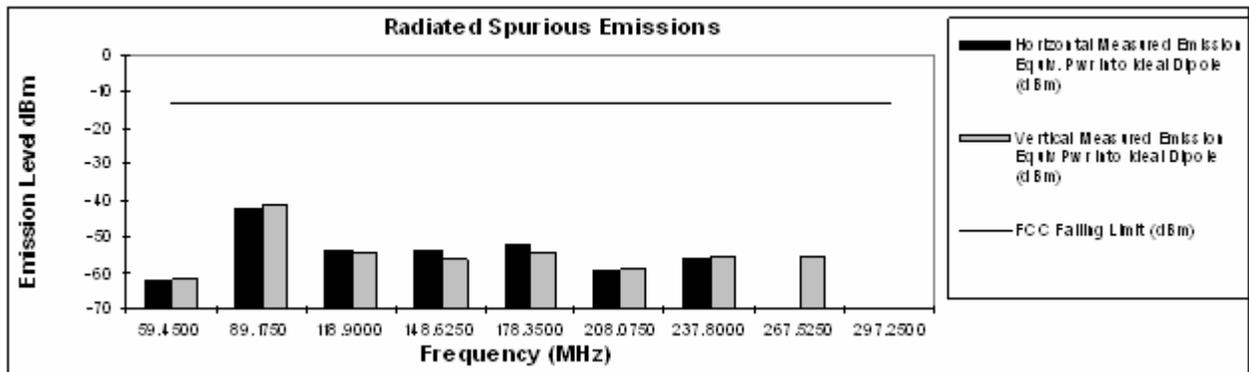
**Figure 6G-3: High Power, 36.975 MHz, 20 kHz Channel Spacing**

**Tx Power: 50 Watts**

**29.725 MHz**

**Channel Spacing 20kHz | S/N 1591HE0005**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
59.4500	-13	-62.19	-61.60
89.1750	-13	-42.26	-41.37
118.9000	-13	-53.48	-54.35
148.6250	-13	-53.78	-56.47
178.3500	-13	-52.06	-54.11
208.0750	-13	-59.81	-59.06
237.8000	-13	-55.82	-55.40
267.5250	-13	*	-55.57
297.2500	-13	*	*



**Figure 6G-4: Low Power, 29.725 MHz, 20 kHz Channel Spacing**

Tx Power: 50 Watts

33.4 MHz

Channel Spacing 20kHz | S/N 1591HE0005

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
66.8000	-13	*	*
100.2000	-13	*	*
133.6000	-13	-50.79	-52.23
167.0000	-13	-52.95	-54.62
200.4000	-13	-58.75	-60.37
233.8000	-13	-54.43	-50.89
267.2000	-13	*	*
300.6000	-13	*	*
334.0000	-13	*	*

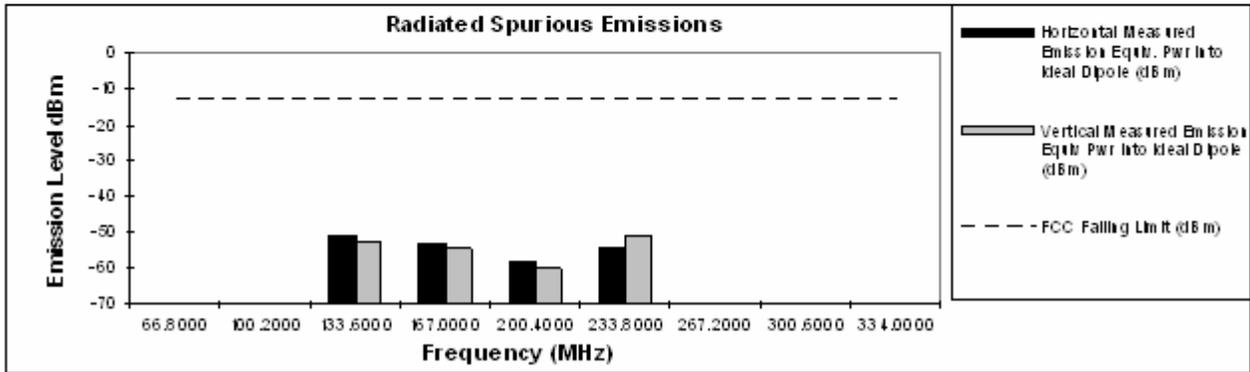


Figure 6G-5: Low Power, 33.400 MHz, 20 kHz Channel Spacing

Tx Power: 50 Watts

36.975 MHz

Channel Spacing 20kHz | S/N 1591HE0005

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
73.9500	-13	-57.93	-60.45
110.9250	-13	-39.67	-38.65
147.9000	-13	-53.49	*
184.8750	-13	*	-51.35
221.8500	-13	-44.32	-53.02
258.8250	-13	-56.07	*
295.8000	-13	*	*
332.7750	-13	*	*
369.7500	-13	*	*

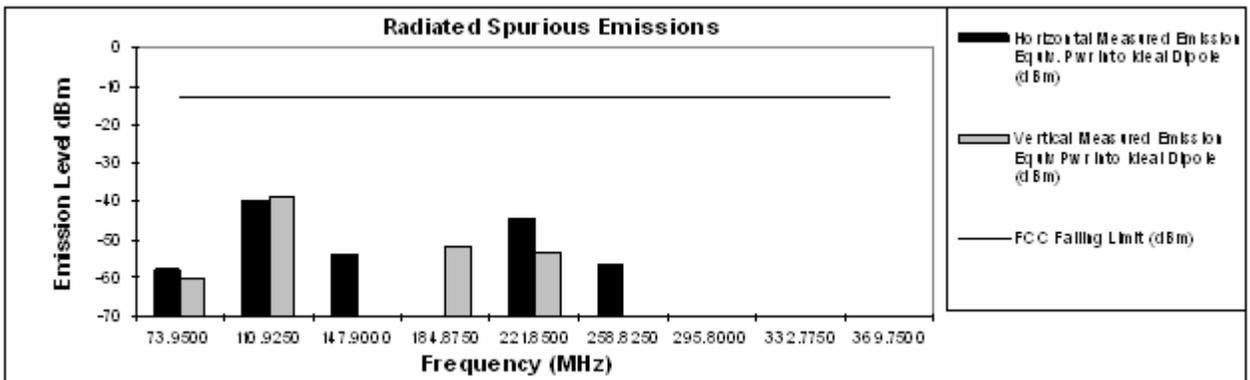


Figure 6G-6: Low Power, 36.975 MHz, 20 kHz Channel Spacing

EXHIBIT 6H – Frequency Stability (Temperature/Supply Voltage) - Pursuant 47 CFR 2.1047 and 2.1033(c)(13)

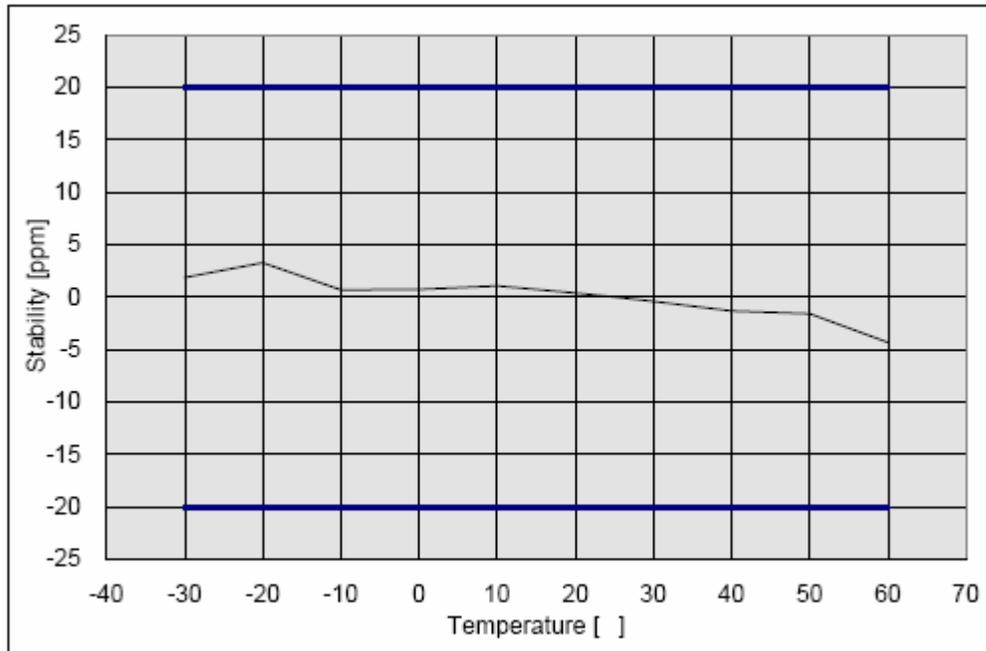


Figure 6H-1: Frequency Stability vs. Temperature, 33.35MHz

% of STV	Voltage	Frequency, MHz	Change, Hz	Change, ppm
85	11.39	33.350035	35	1.05
100	13.40	33.350035	35	1.05
115	15.41	33.350035	35	1.05

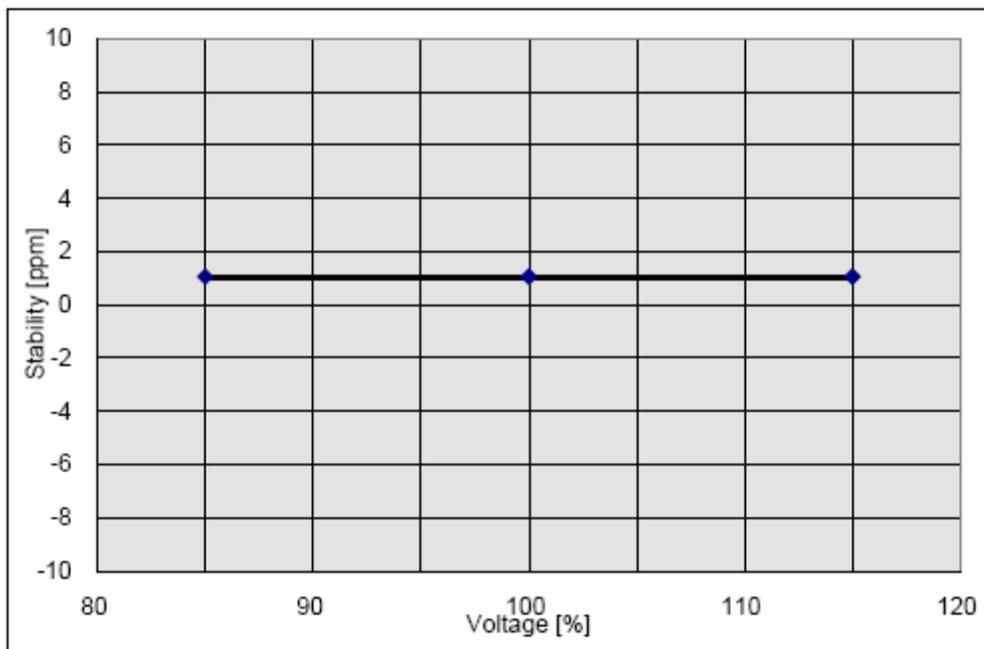


Figure 6H-2: Frequency Stability vs. Percentage of Supply Voltage Change, 33.35MHz