

## EXHIBIT 6

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

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**EXHIBIT 6C – Transmit Audio Post Limiter Lowpass Filter Response (1 Graph)**

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**EXHIBIT 6A**

**RF Conducted Power Output Data - Pursuant 47 CFR 2.1046(a), 2.1033(c) (6), (7) and (8)**

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device (Q3501).

**At maximum output power setting, Frequency 403.0125 MHz:**

Output RF power:	1.00 Watts
DC Voltage:	7.50 Volts
DC Current:	0.60 Amps
DC Input Power:	4.50 Watts

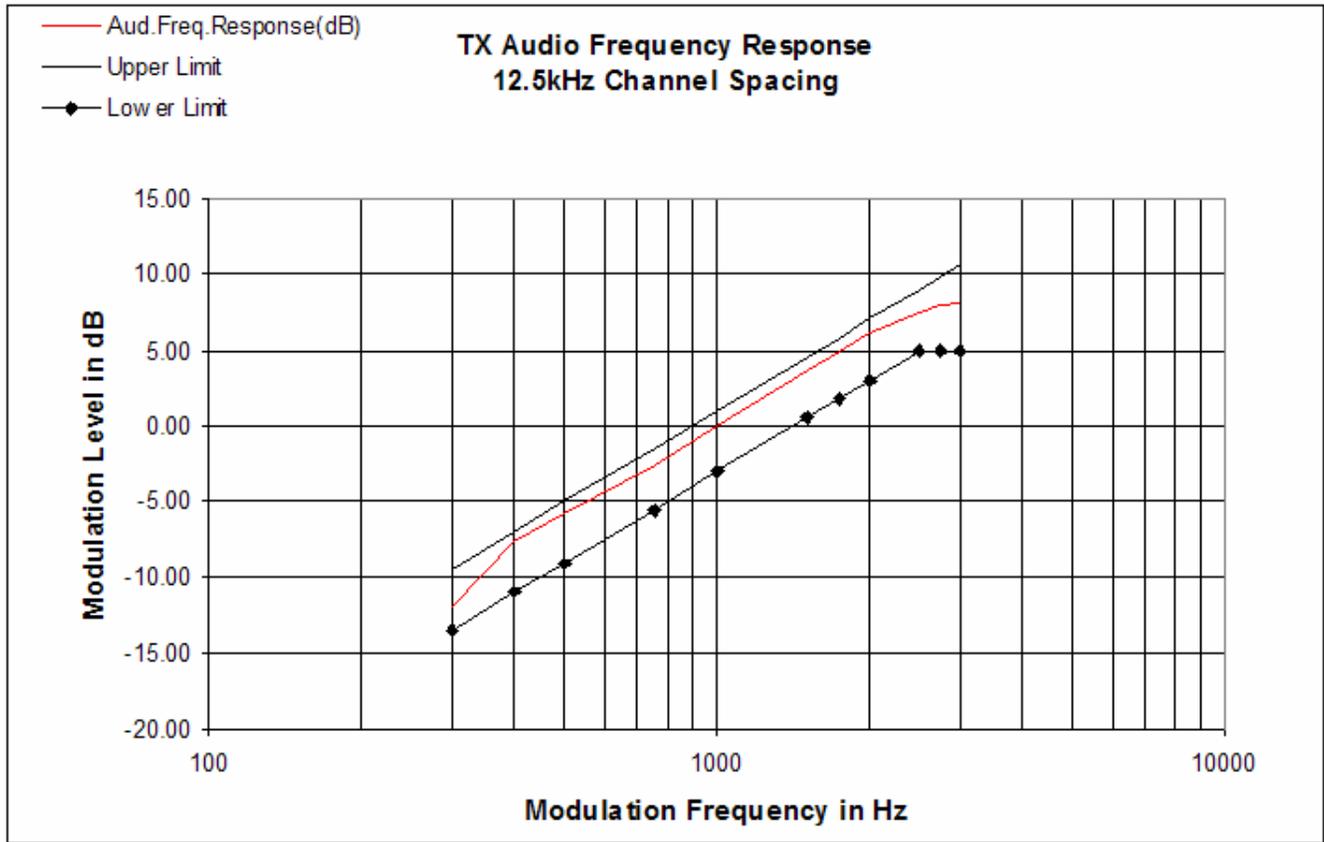
**At maximum output power setting, Frequency 436.0125 MHz:**

Output RF power:	1.01 Watts
DC Voltage:	7.50 Volts
DC Current:	0.62 Amps
DC Input Power:	4.65Watts

**At maximum output power setting, Frequency 469.9875 MHz:**

Output RF power:	1.01 Watts
DC Voltage:	7.50 Volts
DC Current:	0.62 Amps
DC Input Power:	4.65 Watts

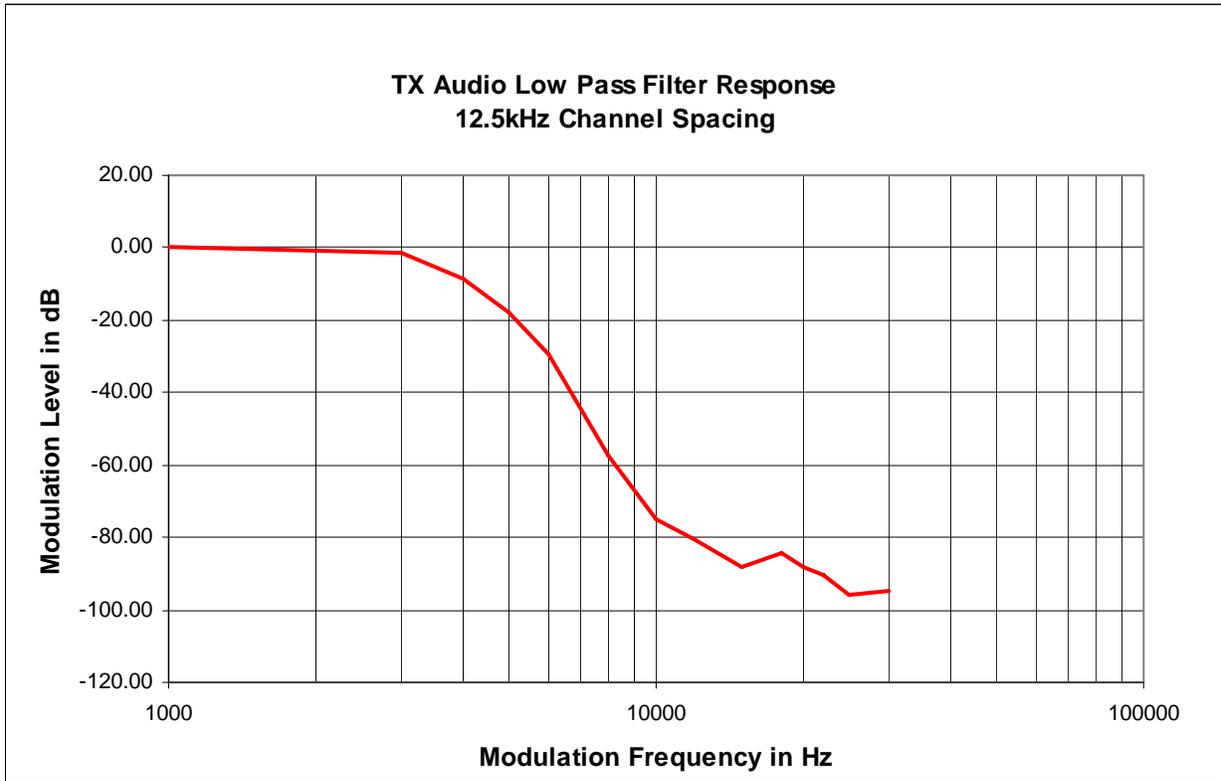
**EXHIBIT 6B**  
**Transmit Audio Frequency Response - Pursuant 47 CFR 2.1047(a)**



**Figure 6B-1:** 12.5 kHz Channel Spacing, 436.0125 MHz, Transmit Audio Frequency Response

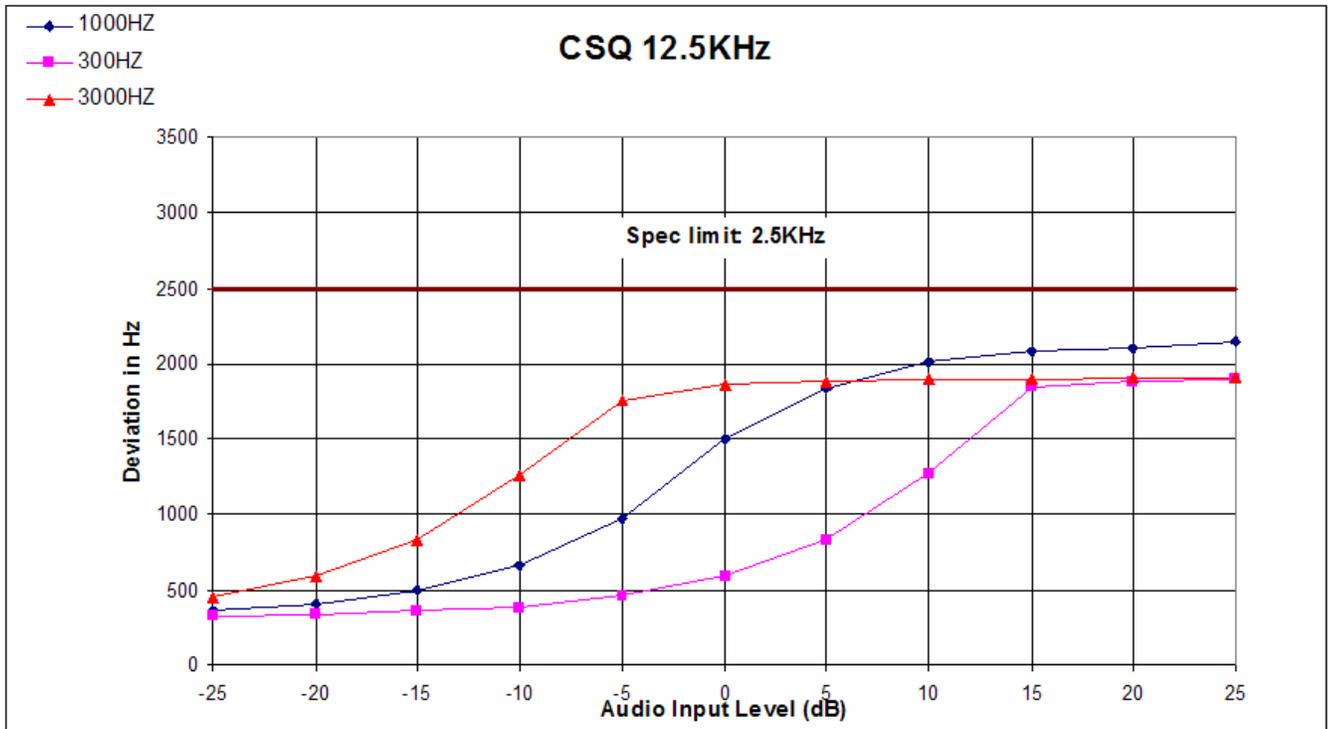
**EXHIBIT 6B**

Transmit Audio Post Limiter Lowpass Filter Response - Pursuant 47 CFR 2.1047(a)



**Figure 6C-1:** 12.5 kHz Channel Spacing, 436.0125 MHz, Transmit Audio **Post Limiter Low-pass Filter** Response

**EXHIBIT 6D**  
**Modulation Limiting - Pursuant 47 CFR 2.1047 and 2.1033(c)(13)**



**Figure 6D-1:** 12.5 kHz Channel Spacing, 436.0125 MHz, Carrier Squelch (CSQ) Mode

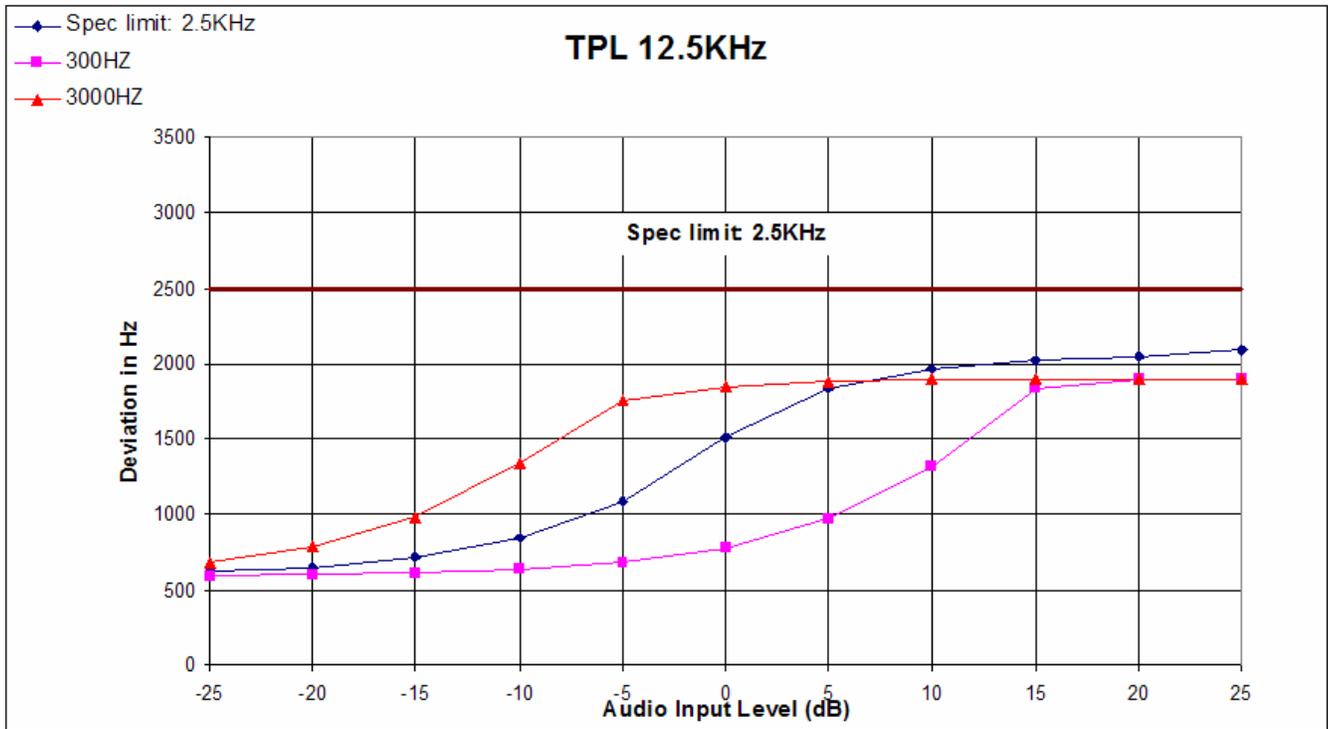


Figure 6D-2: 12.5 kHz Channel Spacing, 436.0125 MHz, Tone Private Line (TPL) Mode

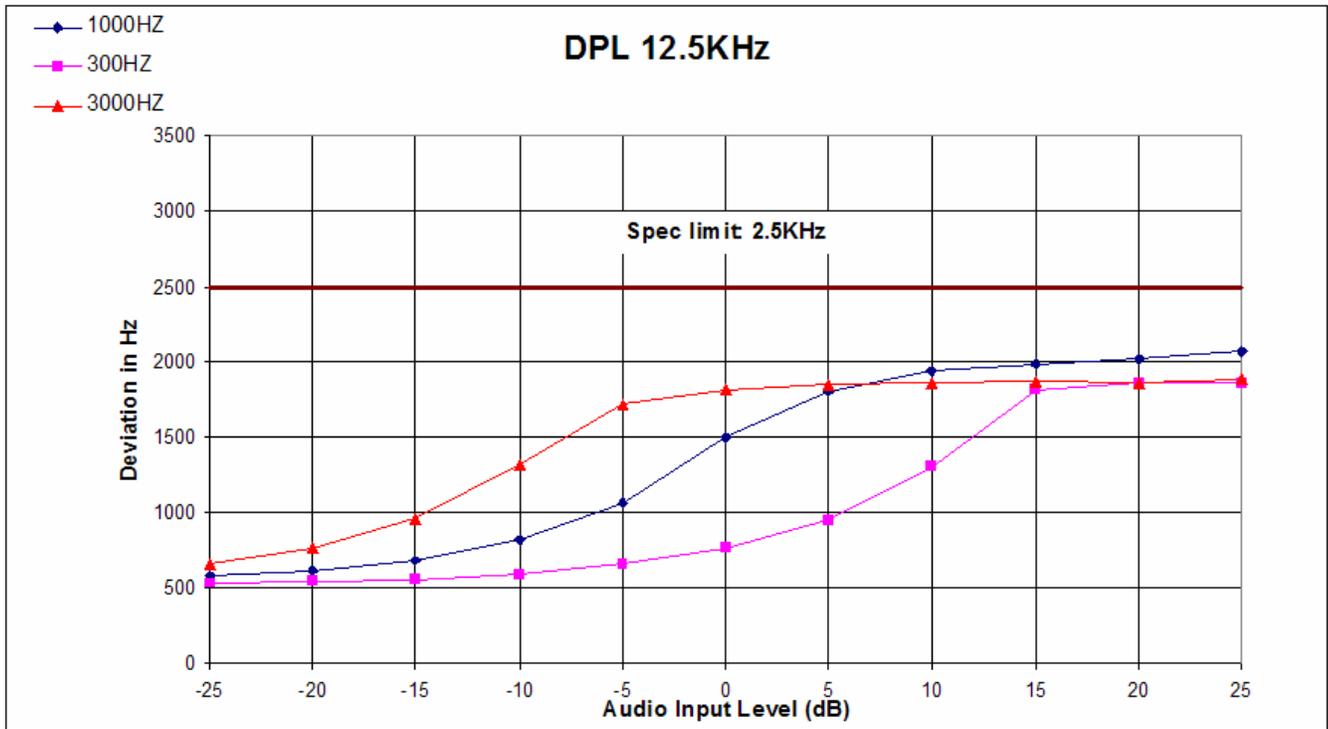


Figure 6D-3: 12.5 kHz Channel Spacing, 436.0125 MHz, Digital Private Line (DPL) Mode

EXHIBIT 6E

Occupied Bandwidth Data - Pursuant 47 CFR 2.1049, 90.210(g) and 90.691

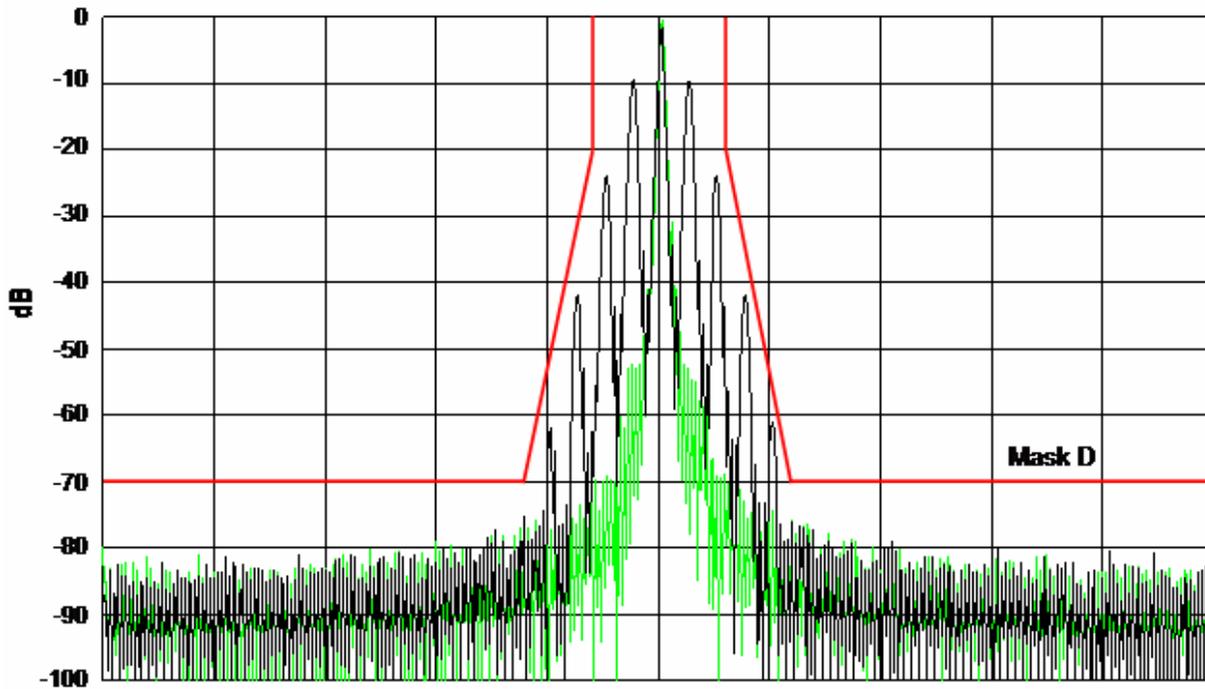


Figure 6E-1: 12.5 kHz Channel Spacing, 436.0125 MHz, 2500 Hz Audio Modulation Only, 11K03FE.

CENTER FREQUENCY(MHZ):	436.0125
RESOLUTION BANDWIDTH(HZ):	300
VIDEO BANDWIDTH(KHZ):	3
SPAN(KHZ):	100
SWEEP TIME(SEC):	3
SCALE(DB/):	10
REF LEVEL(dBm)	9.3
ATTEN (dB)	20

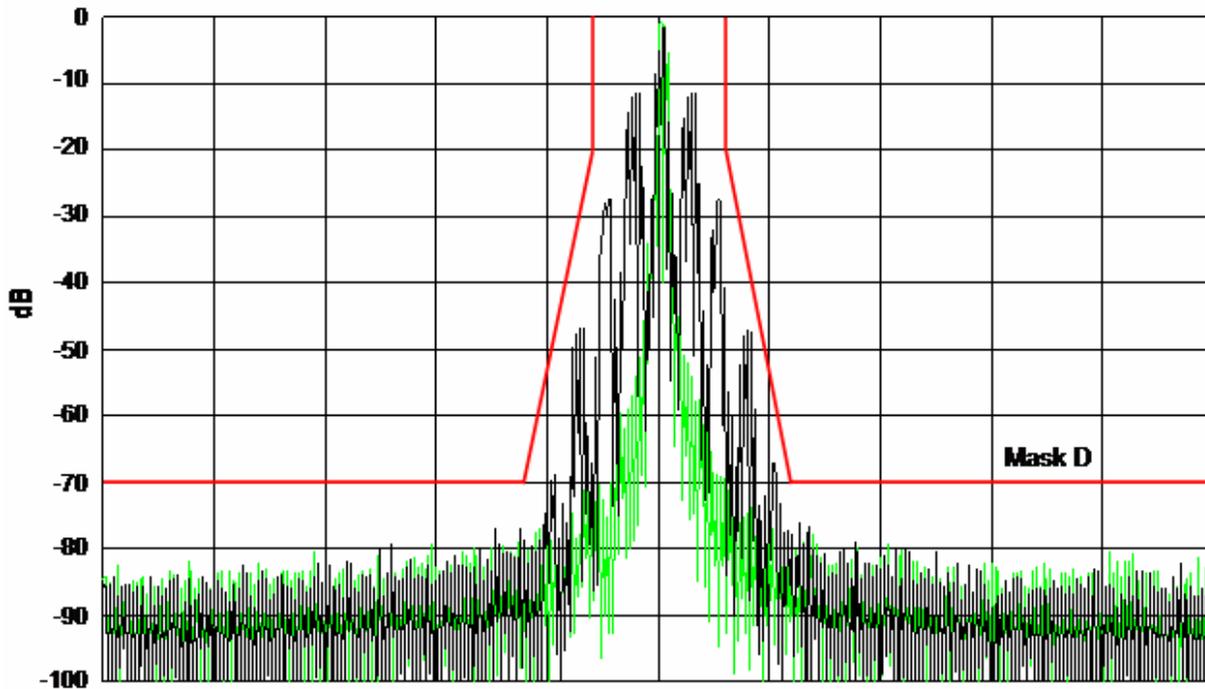


Figure 6E-2: 12.5 kHz Channel Spacing, 436.0125 MHz, 2500 Hz Audio and PL Tone Modulation, 11K0F3E.

CENTER FREQUENCY(MHZ):	436.0125
RESOLUTION BANDWIDTH(HZ):	300
VIDEO BANDWIDTH(KHZ):	3
SPAN(KHZ):	100
SWEEP TIME(SEC):	3
SCALE(DB/):	10
REF LEVEL(dBm)	9.3
ATTEN (dB)	20

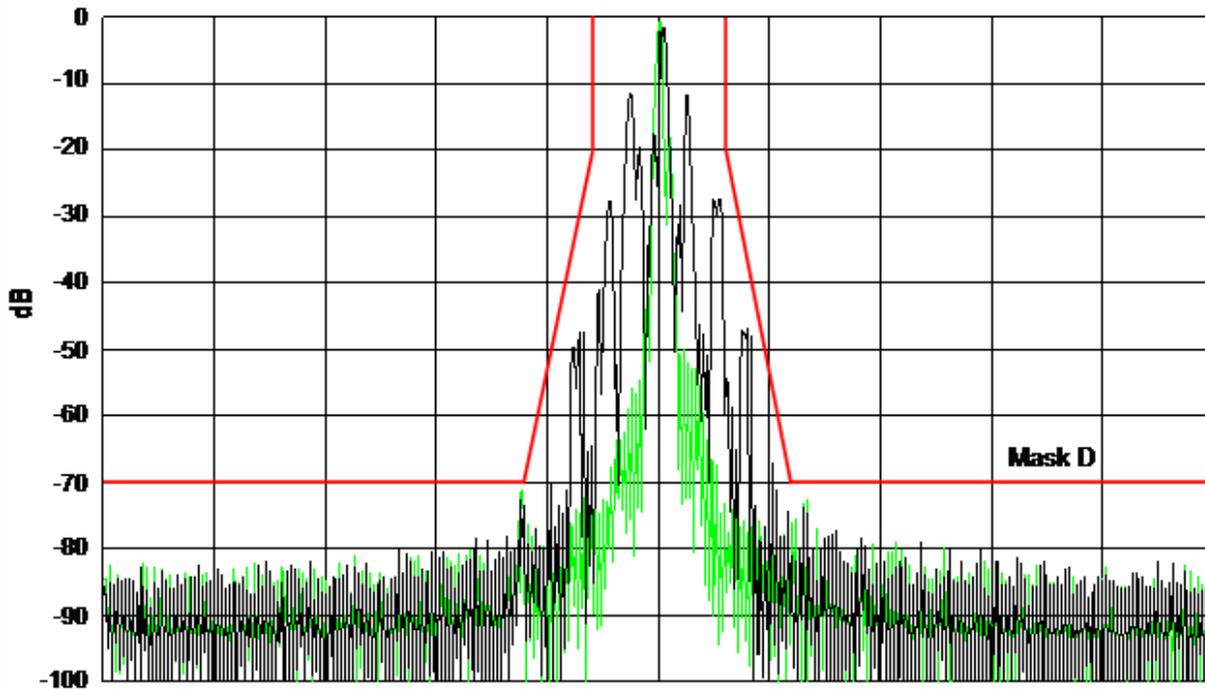


Figure 6E-3: 12.5 kHz Channel Spacing, 436.0125 MHz, 2500 Hz Audio and DPL Tone Modulation, 11K0F3E.

CENTER FREQUENCY(MHZ):	436.0125
RESOLUTION BANDWIDTH(HZ):	300
VIDEO BANDWIDTH(KHZ):	3
SPAN(KHZ):	100
SWEEP TIME(SEC):	3
SCALE(DB/):	10
REF LEVEL(dBm)	9.3
ATTEN (dB)	20

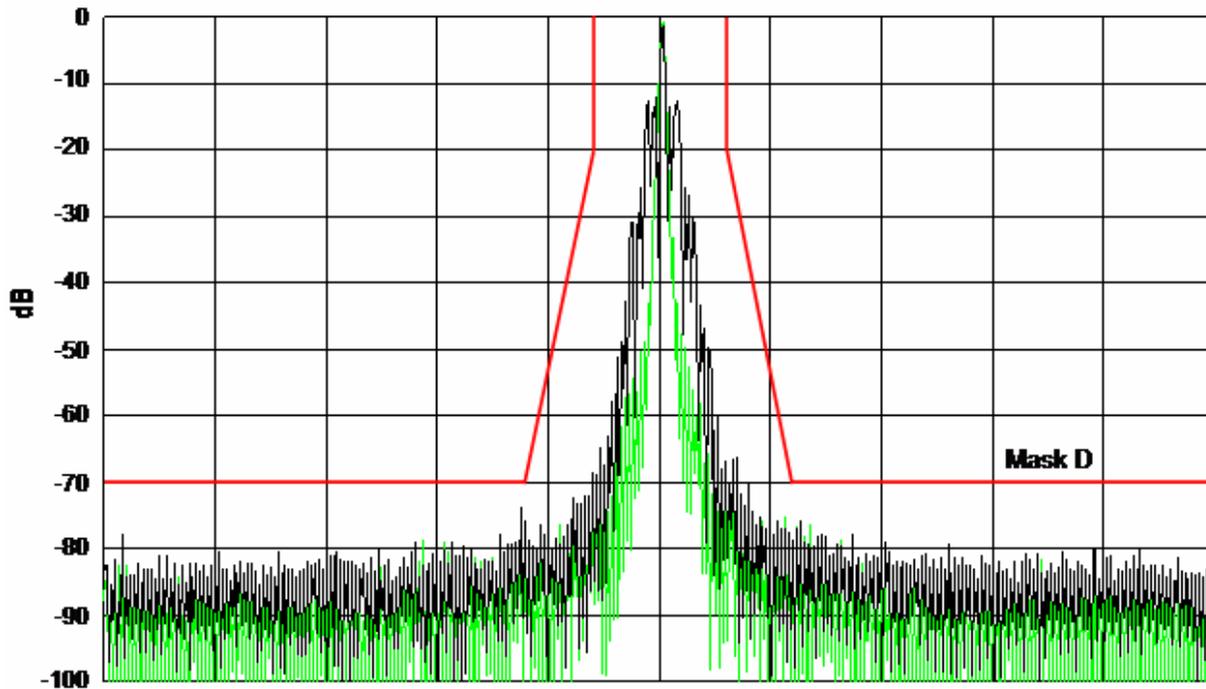


Figure 6E-4: 12.5 kHz Channel Spacing, 436.0125 MHz, DTMF Modulation Only 11K0F2D.

CENTER FREQUENCY(MHZ):	436.0125
RESOLUTION BANDWIDTH(HZ):	300
VIDEO BANDWIDTH(KHZ):	3
SPAN(KHZ):	100
SWEEP TIME(SEC):	3
SCALE(DB/):	10
REF LEVEL(dBm)	9.3
ATTEN (dB)	20

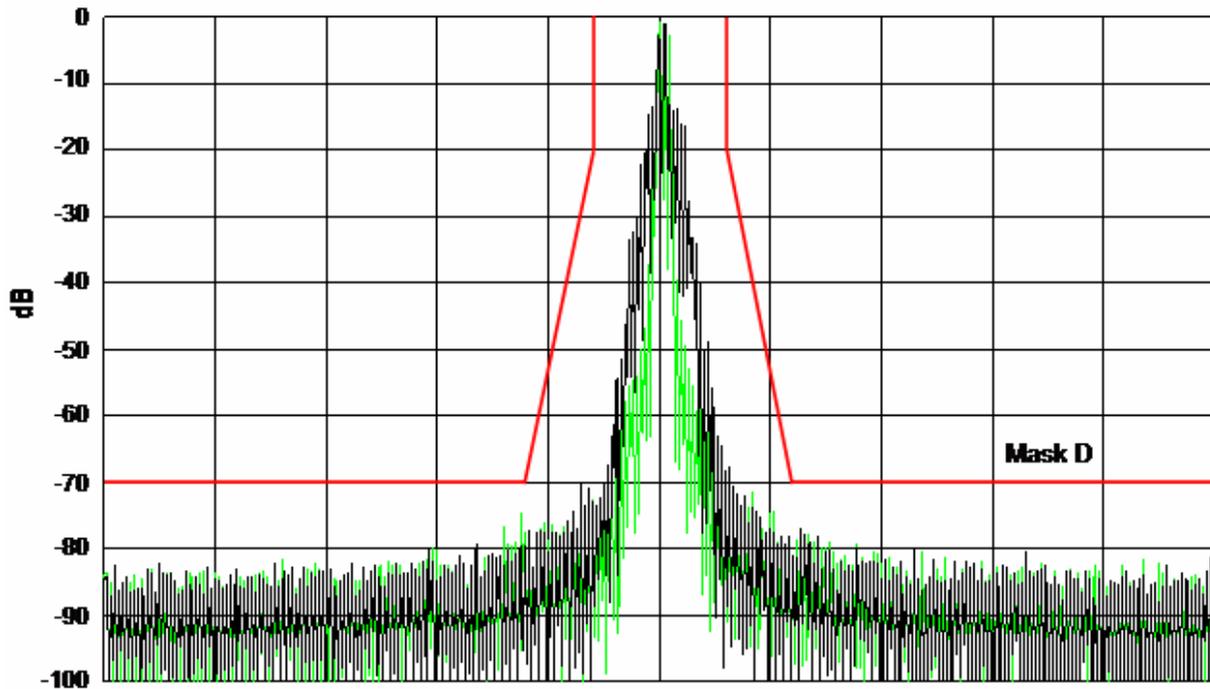


Figure 6E-5: 12.5 kHz Channel Spacing, 436.0125 MHz, DTMF Modulation and PL Tone Modulation, 11K0F2D.

CENTER FREQUENCY(MHZ):	436.0125
RESOLUTION BANDWIDTH(HZ):	300
VIDEO BANDWIDTH(KHZ):	3
SPAN(KHZ):	100
SWEEP TIME(SEC):	3
SCALE(DB/):	10
REF LEVEL(dBm)	9.3
ATTEN (dB)	20

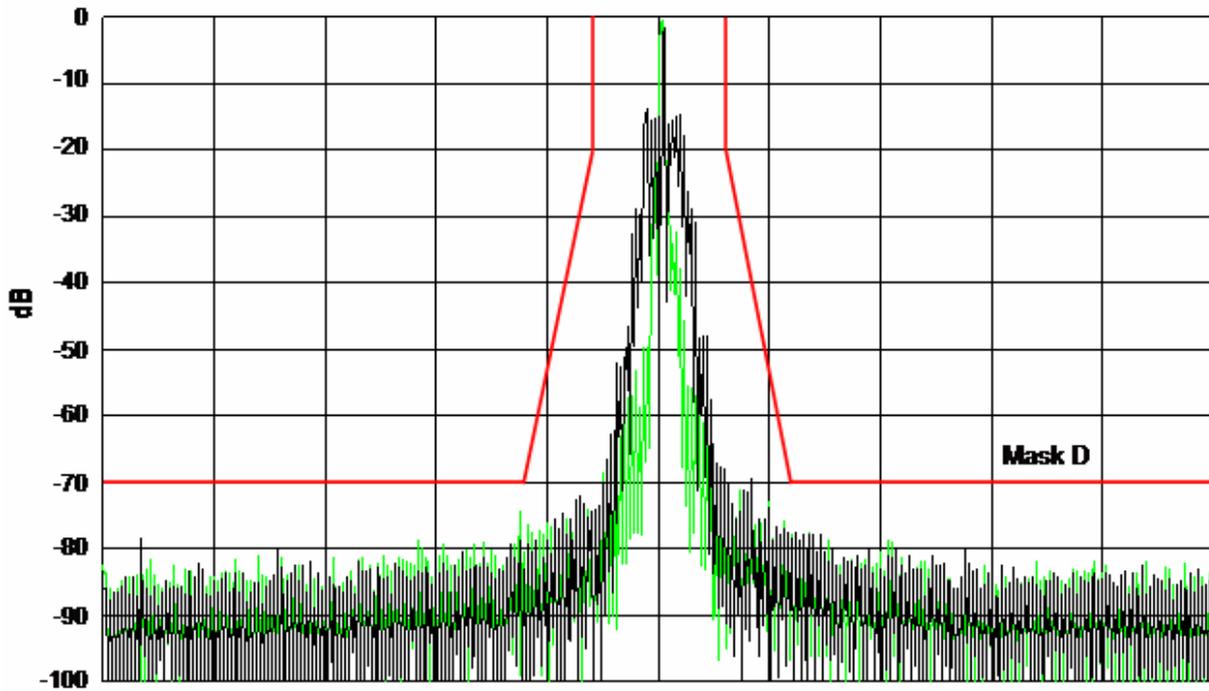


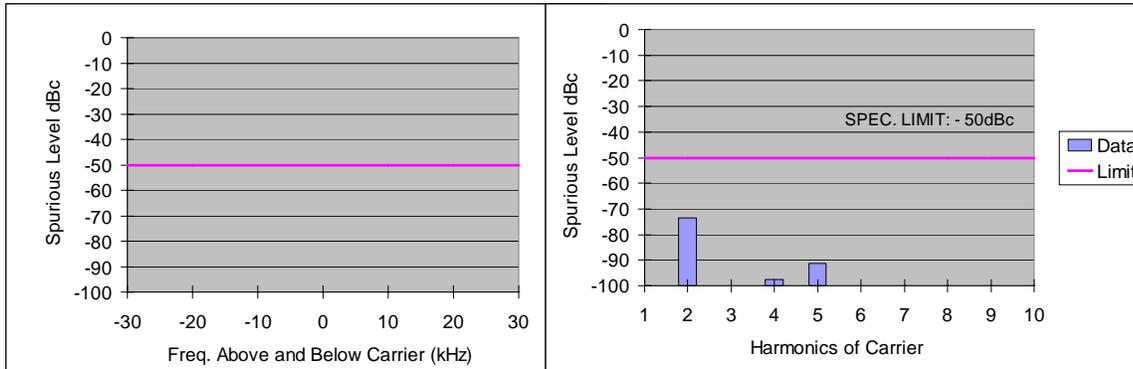
Figure 6E-6: 12.5 kHz Channel Spacing, 436.0125 MHz, DTMF Modulation and DPL Tone Modulation, 11K0F2D.

CENTER FREQUENCY(MHZ):	436.0125
RESOLUTION BANDWIDTH(HZ):	300
VIDEO BANDWIDTH(KHZ):	3
SPAN(KHZ):	100
SWEEP TIME(SEC):	3
SCALE(DB/):	10
REF LEVEL(dBm)	9.3
ATTEN (dB)	20

**EXHIBIT 6F**

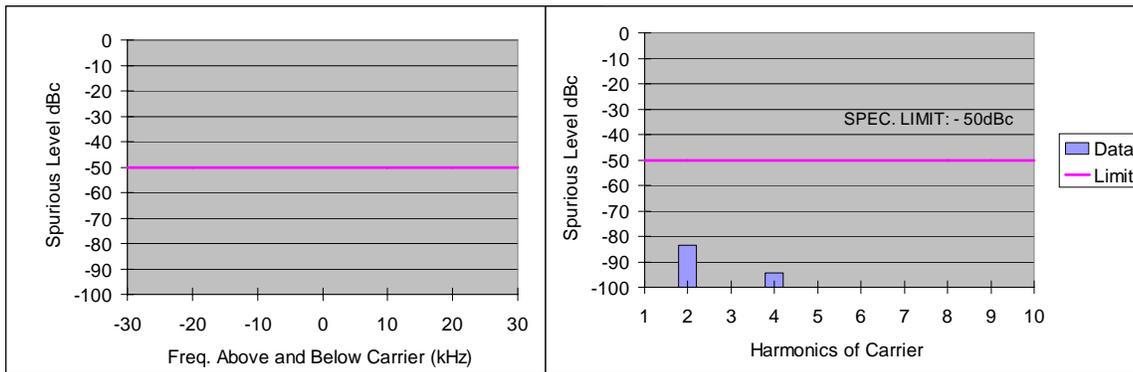
**Transmitter Conducted Spurious Emissions - Pursuant 47 CFR 2.1047 and 2.1033(c) (13)**

Note: Red lines on graphs correspond to the FCC limit of -20dBm.



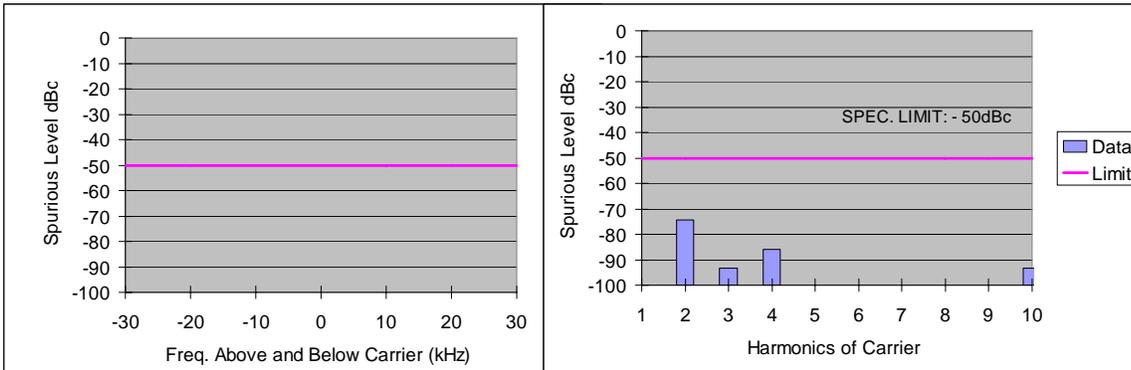
**Table 6F-1:** 1 Watt Harmonic of Carrier 403.0125 MHz, 12.5 kHz Channel Spacing

Note: Other emissions not reported were more than 50dB below the limit



**Table 6F-2:** 1 Watt Harmonic of Carrier 436.0125 MHz, 12.5 kHz Channel Spacing

Note: Other emissions not reported were more than 50dB below the limit



**Table 6F-3:** 1 Watt Harmonic of Carrier 469.9875 MHz, 12.5 kHz Channel Spacing

Note: Other emissions not reported were more than 50dB below the limit

**EXHIBIT 6G**

**Transmitter Radiated Spurious Emissions - Pursuant 47 CFR 2.1047 and 2.1033(c)(13)**

Notes: 1) The shown results are the worst case results for the given frequency. Measurements were made to the 10<sup>th</sup> harmonic, antenna polarization horizontal and vertical.

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
806.0250	-20	-52.05	-56.33
1209.0375	-20	-62.03	-60.88
1612.0500	-20	-65.08	-62.16
2015.0625	-20	-58.49	-52.29
2418.0750	-20	-56.63	-60.40
2821.0875	-20	-63.58	*
3224.1000	-20	-60.34	*
3627.1125	-20	*	*
4030.1250	-20	*	*

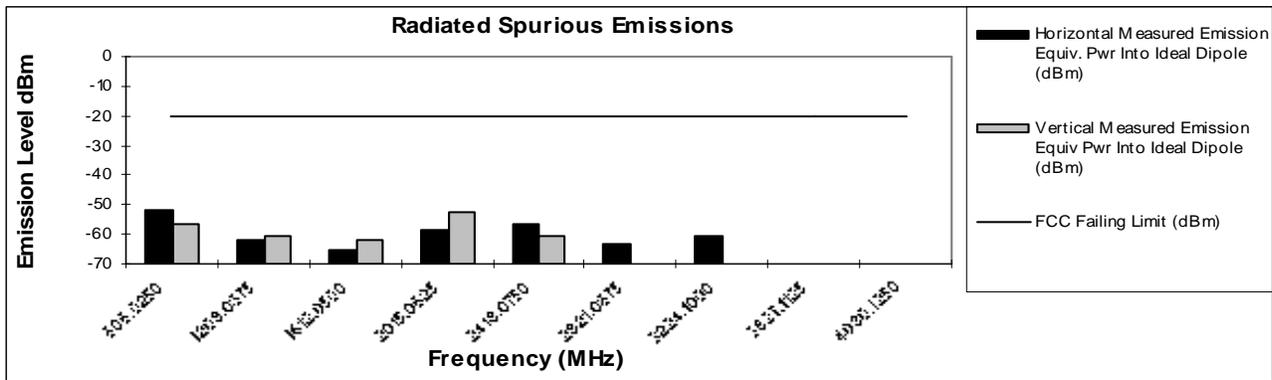


Figure 6G-1: 1 Watts, 403.0125MHz

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
872.0250	-20	*	*
1308.0375	-20	-62.17	-59.16
1744.0500	-20	-54.19	-54.13
2180.0625	-20	-63.95	-62.13
2616.0750	-20	-62.08	-61.16
3052.0875	-20	-59.92	-61.42
3488.1000	-20	*	*
3924.1125	-20	*	*
4360.1250	-20	*	*

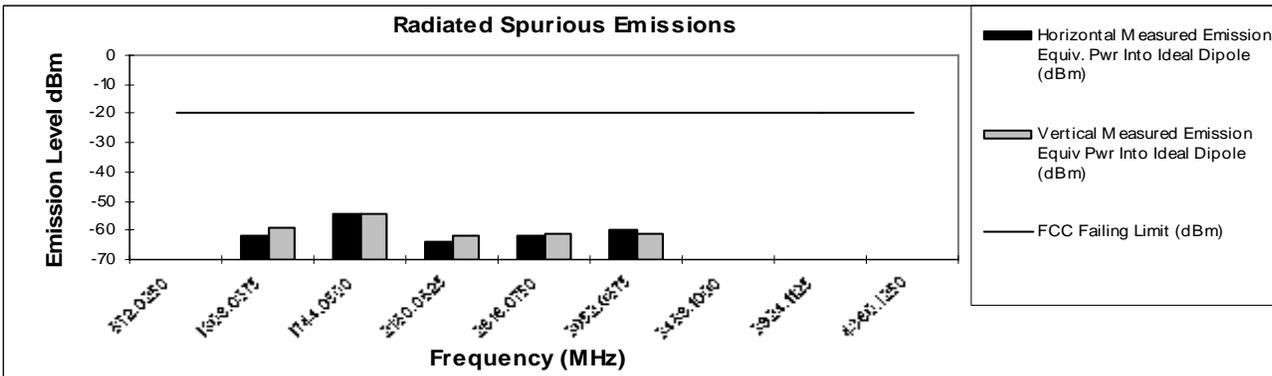


Figure 6G-2: 1 Watts, 436.0125MHz

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
939.9750	-20	-59.12	-54.87
1409.9625	-20	-67.05	-67.31
1879.9500	-20	-46.01	-44.31
2349.9375	-20	-60.87	-61.04
2819.9250	-20	-60.47	-63.11
3289.9125	-20	-59.70	*
3759.9000	-20	*	*
4229.8875	-20	*	*
4699.8750	-20	*	*

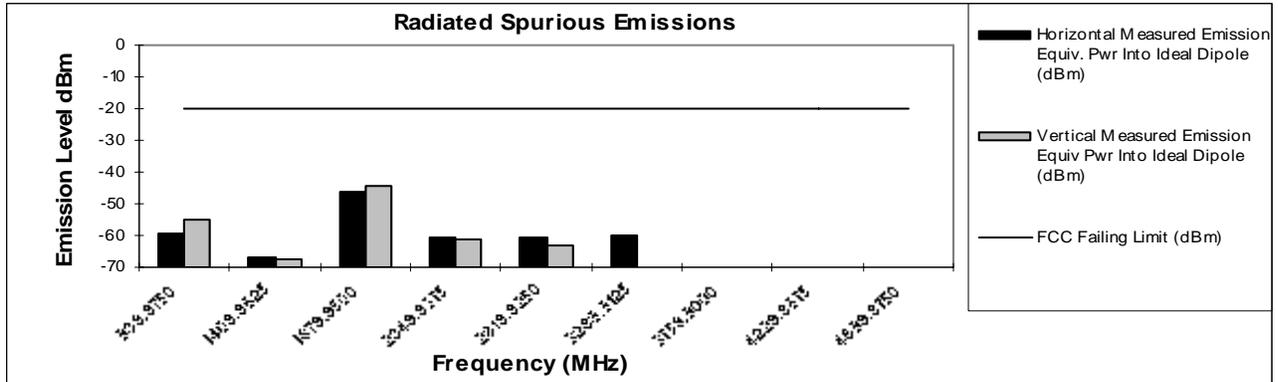
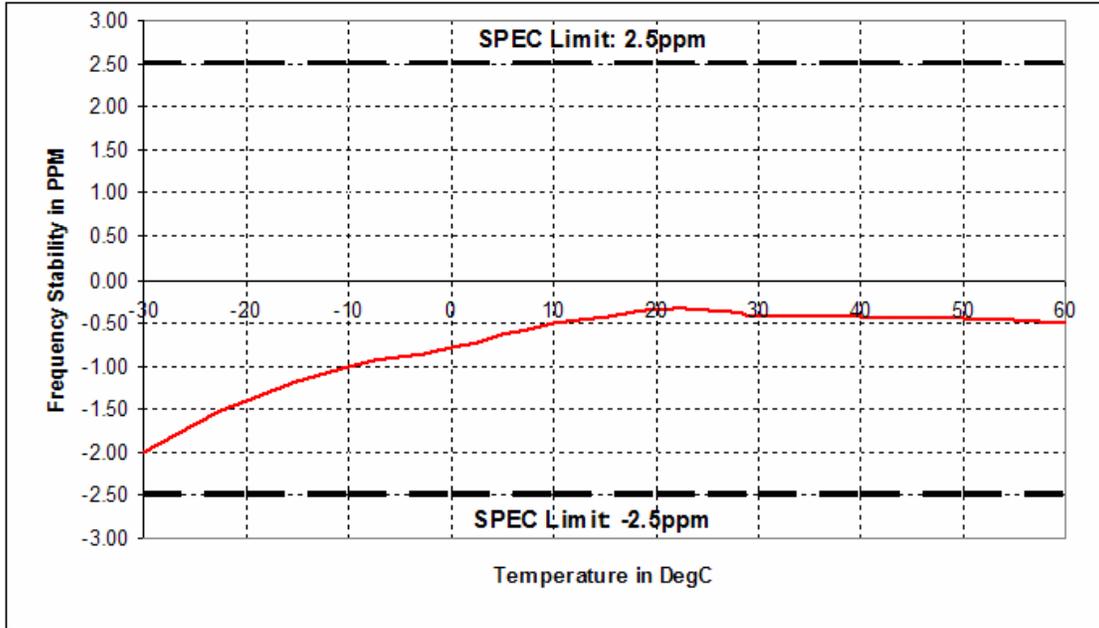
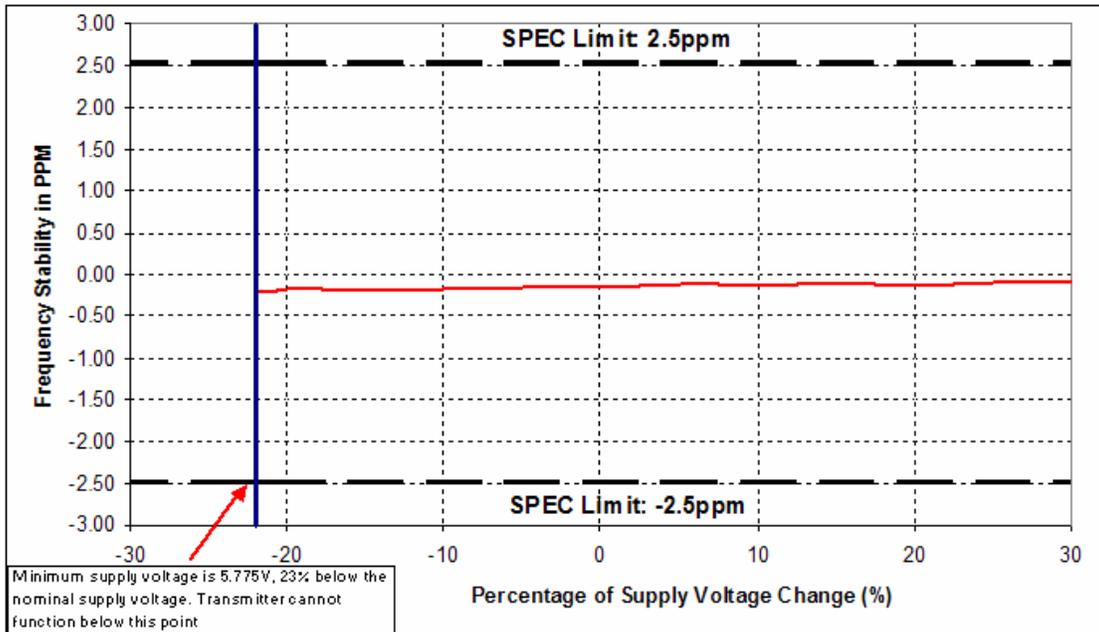


Figure 6G-3: 1 Watts, 469.9875MHz

**EXHIBIT 6H**  
**Frequency Stability - Pursuant 47 CFR 2.1047 and 2.1033(c)(13)**



**Figure 6H-1: Frequency Stability vs. Temperature**



**Figure 6H-2: Frequency Stability vs. Voltage**

EXHIBIT 6I  
Transient Frequency Behavior (FCC Rules Part 90.214)

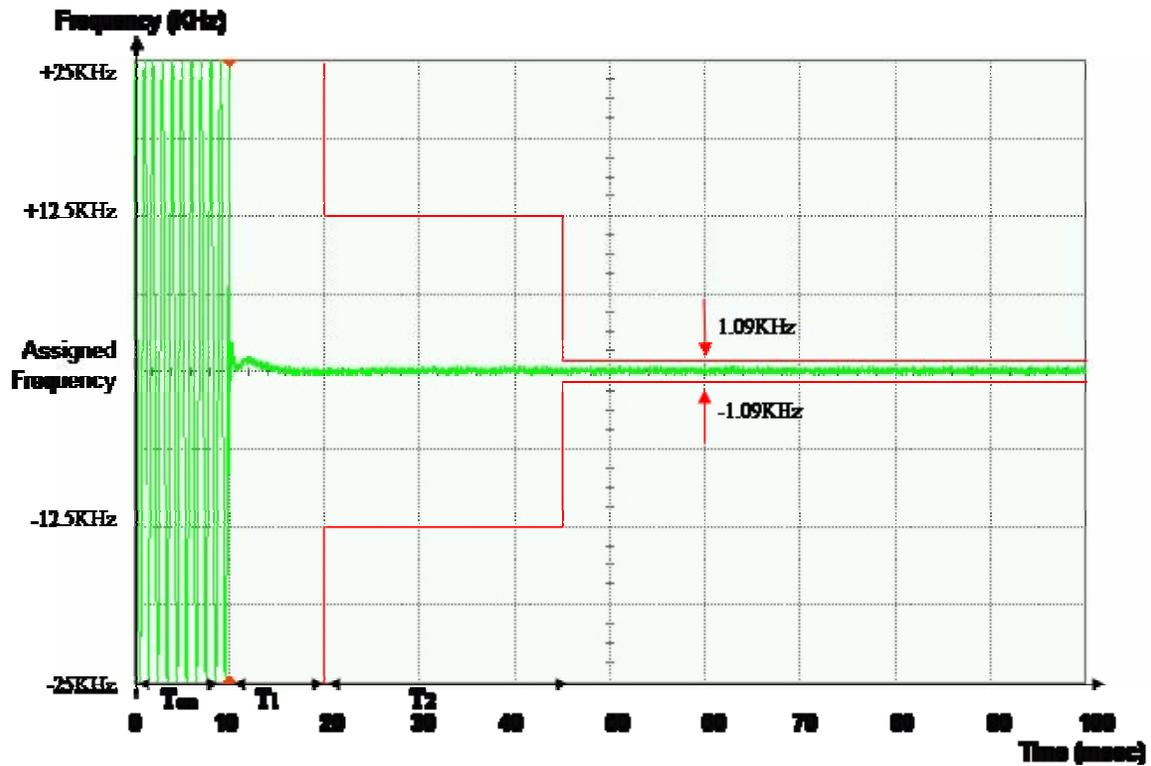


Figure 6I-1: 1 Watt, 12.5 kHz Key-Up Attack Time

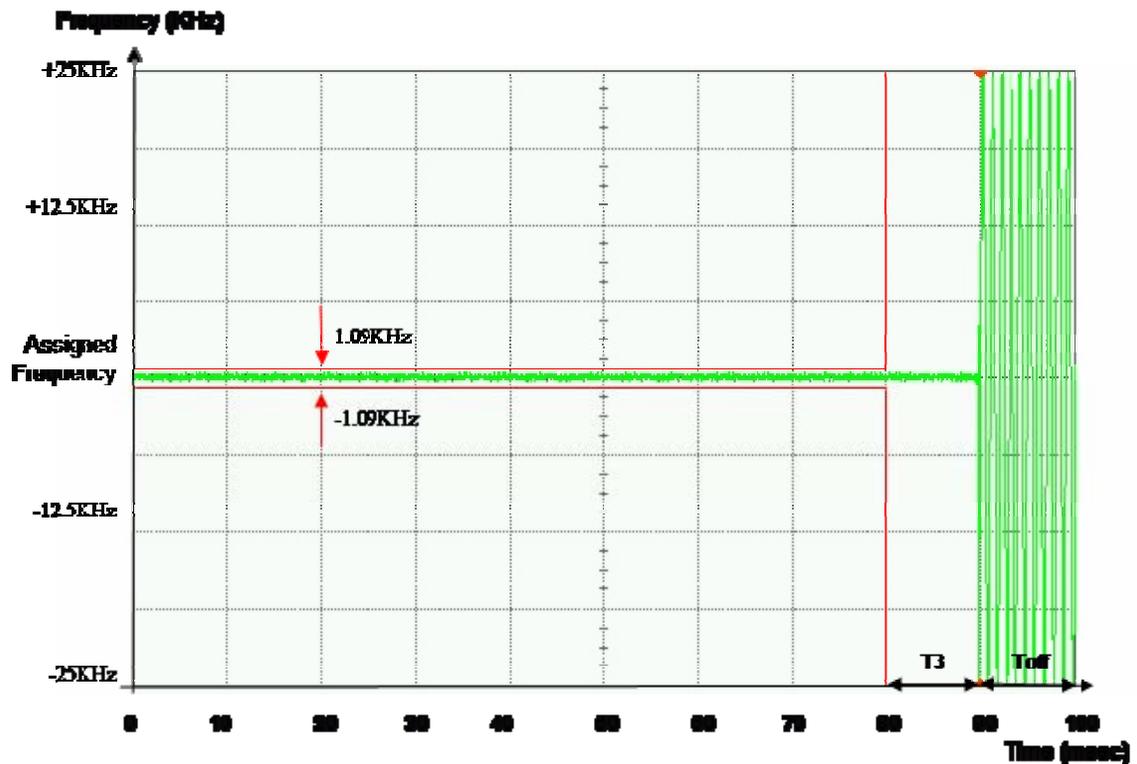
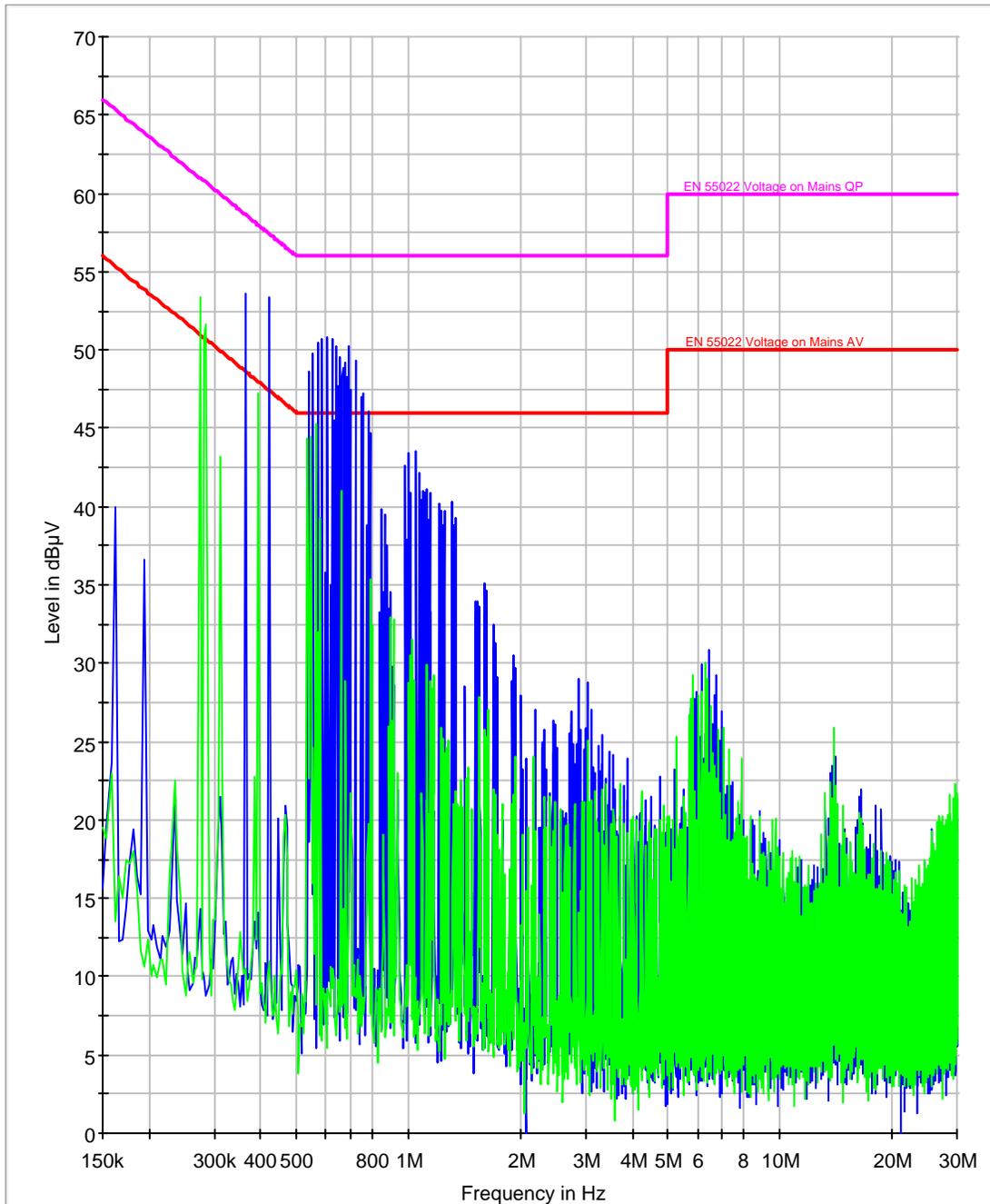


Figure 6I-2: 1 Watt, 12.5 kHz De-Key Decay Time

EXHIBIT 6J

Power Line Conducted Spurious Emissions - Pursuant to FCC Rules Part 15.107

EMI Conducted Scan latest FCC Peak det - 3816 LISN  
Auto Merge Results N (Green) L1 (Blue)  
Waris ATEX UHF R1 Radio Off



**Result Table Single Waris ATEX UHF R1 Radio Off**

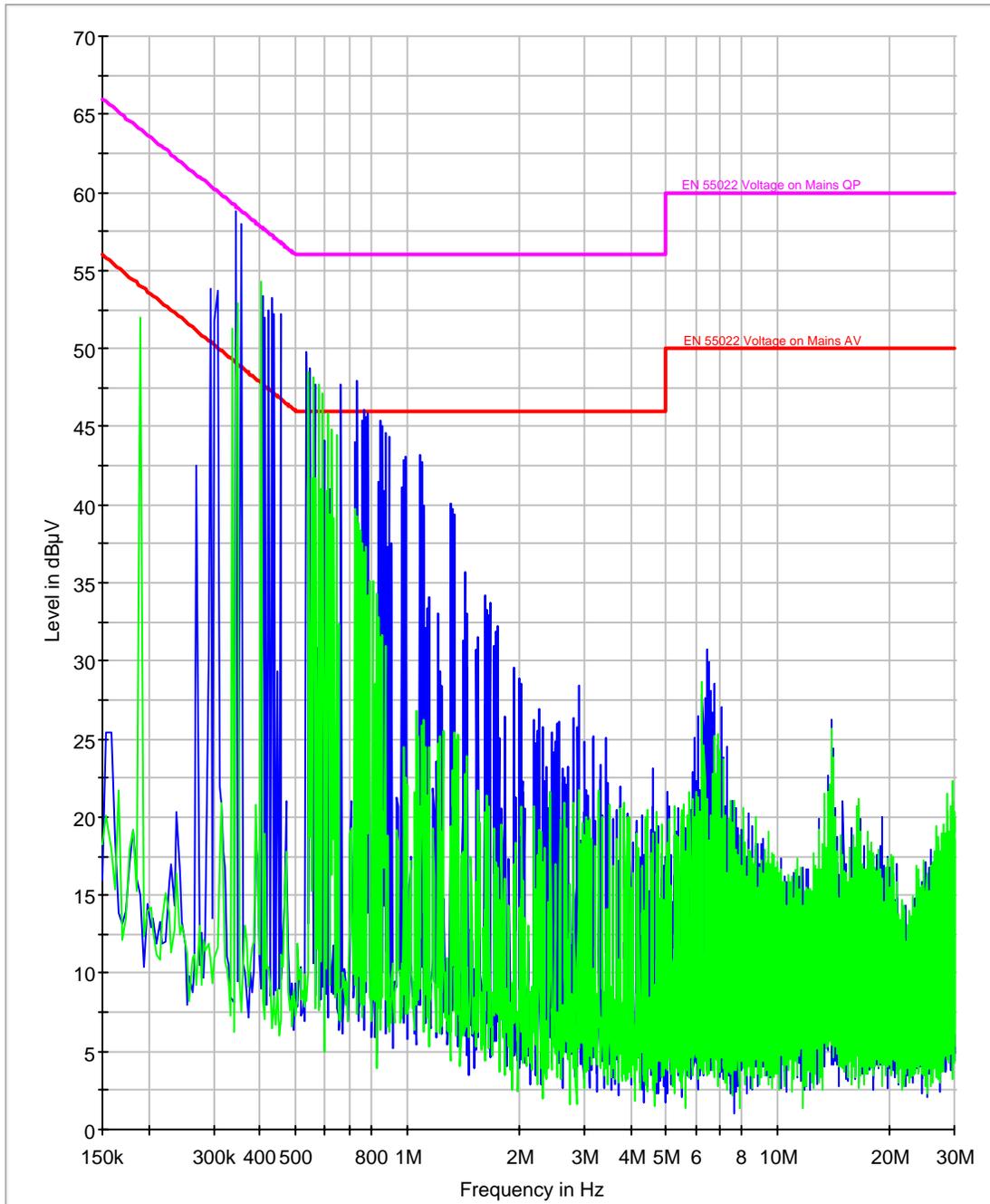
Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Bandwidth (Hz)	PE	Line
0.274000	56.4	26.2	9000.000	GND	L1
0.366000	49.5	18.2	9000.000	GND	L1
0.422000	48.3	17.0	9000.000	GND	L1
0.570000	39.5	9.2	9000.000	GND	L1
0.606000	41.6	10.4	9000.000	GND	L1
0.690000	43.1	14.0	9000.000	GND	L1
0.274000	55.5	25.7	9000.000	GND	N
0.366000	47.9	17.5	9000.000	GND	N
0.422000	46.3	16.0	9000.000	GND	N
0.570000	30.8	4.7	9000.000	GND	N
0.606000	32.0	5.8	9000.000	GND	N
0.690000	34.0	7.9	9000.000	GND	N

**Limits Waris ATEX UHF R1 Radio Off**

Frequency							
<b>&lt;= 500kHz</b>	<b>QP value</b>	<b>QP Limit</b>	<b>QP Margin</b>	<b>Avr Value</b>	<b>Avr Limit</b>	<b>Avr Margin</b>	<b>Ph</b>
274000	56.40	62.44	6.04	26.20	52.44	26.24	L1
366000	49.50	59.79	10.29	18.20	49.79	31.59	L1
422000	48.30	58.18	9.88	17.00	48.18	31.18	L1
274000	55.50	62.44	6.94	25.70	52.44	26.74	N
366000	47.90	59.79	11.89	17.50	49.79	32.29	N
422000	46.30	58.18	11.88	16.00	48.18	32.18	N
<b>500kHz - 5MHz</b>	<b>QP Value</b>	<b>QP Limit</b>	<b>QP Margin</b>	<b>Avr Value</b>	<b>Avr Limit</b>	<b>Avr Margin</b>	<b>Ph</b>
570000	39.50	56.00	16.50	9.20	46.00	36.80	L1
606000	41.60	56.00	14.40	10.40	46.00	35.60	L1
690000	43.10	56.00	12.90	14.00	46.00	32.00	L1
570000	30.80	56.00	25.20	4.70	46.00	41.30	N
606000	32.00	56.00	24.00	5.80	46.00	40.20	N
690000	34.00	56.00	22.00	7.90	46.00	38.10	N

**Figure 6J-1: Radio off Line/Neutral**

EMI Conducted Scan latest FCC Peak det - 3816 LISN  
Auto Merge Results N (Green) L1 (Blue)  
Waris ATEX UHF R1 RX 3 (469.9875MHz)



**Result Table\_Single Waris ATEX UHF R1 RX 3 (469.9875MHz)**

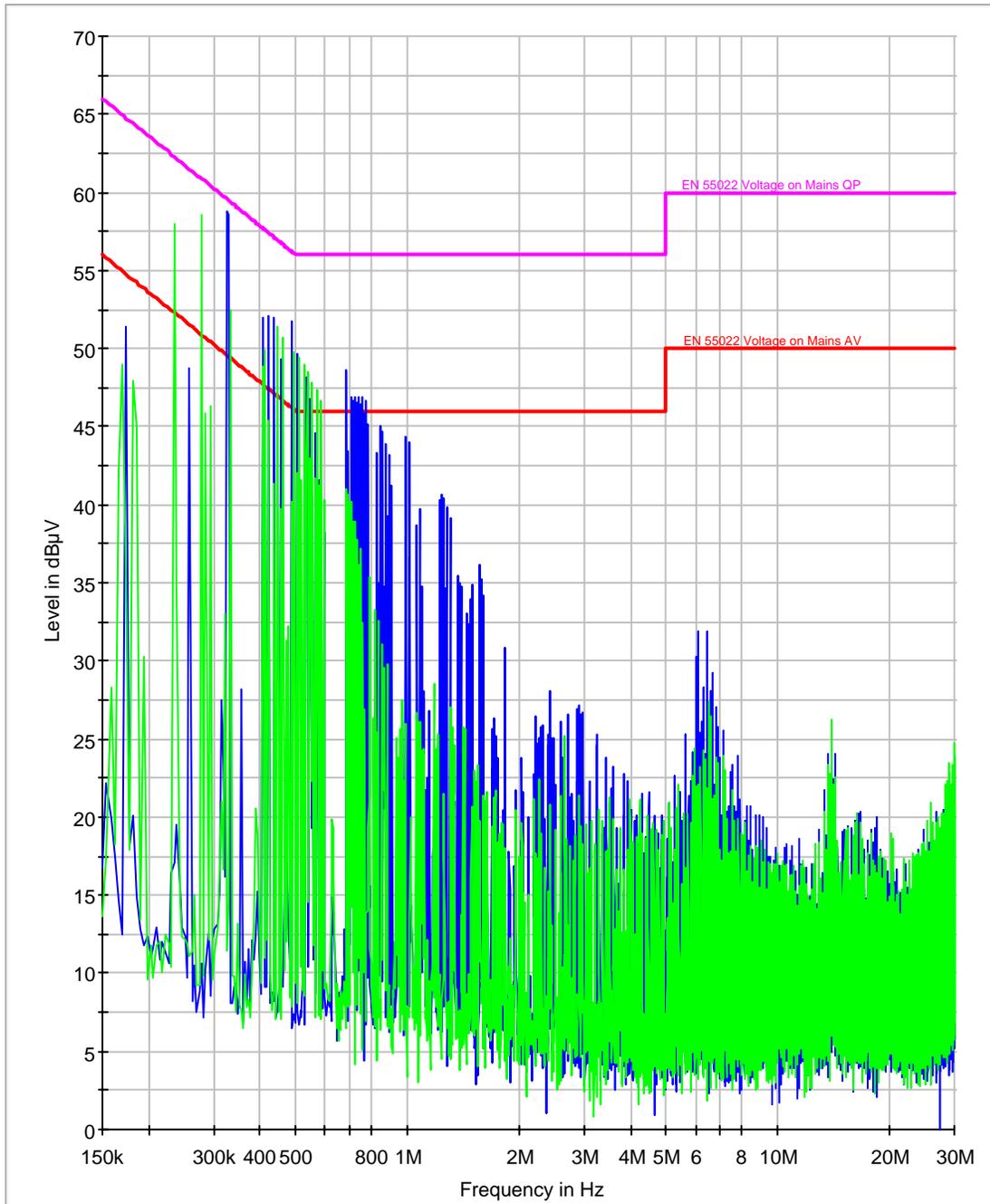
Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Bandwidth (Hz)	PE	Line
0.294000	56.5	25.1	9000.000	GND	L1
0.306000	56.7	26.2	9000.000	GND	L1
0.342500	54.6	24.8	9000.000	GND	L1
0.374000	50.2	22.3	9000.000	GND	L1
0.406000	45.5	15.1	9000.000	GND	L1
0.430000	47.2	15.4	9000.000	GND	L1
0.294000	55.5	24.9	9000.000	GND	N
0.306000	55.0	24.5	9000.000	GND	N
0.342500	53.0	23.5	9000.000	GND	N
0.374000	49.8	20.9	9000.000	GND	N
0.406000	45.4	13.8	9000.000	GND	N
0.430000	45.9	15.0	9000.000	GND	N

**Limits Waris ATEX UHF R1 RX 3 (469.9875MHz)**

Frequency	QP value	QP Limit	QP Margin	Avr Value	Avr Limit	Avr Margin	Ph
<= 500kHz							
294000	56.50	61.86	5.36	25.10	51.86	26.76	L1
306000	56.70	61.52	4.82	26.20	51.52	25.32	L1
342500	54.60	60.47	5.87	24.80	50.47	25.67	L1
374000	50.20	59.56	9.36	22.30	49.56	27.26	L1
406000	45.50	58.64	13.14	15.10	48.64	33.54	L1
430000	47.20	57.95	10.75	15.40	47.95	32.55	L1
294000	55.50	61.86	6.36	24.90	51.86	26.96	N
306000	55.00	61.52	6.52	24.50	51.52	27.02	N
342500	53.00	60.47	7.47	23.50	50.47	26.97	N
374000	49.80	59.56	9.76	20.90	49.56	28.66	N
406000	45.40	58.64	13.24	13.80	48.64	34.84	N
430000	45.90	57.95	12.05	15.00	47.95	32.95	N

**Figure 6J-2: Radio On, Rx Line/Neutral**

EMI Conducted Scan latest FCC Peak det - 3816 LISN  
Auto Merge Results N (Green) L1 (Blue)  
Waris ATEX UHF R1 TX 2 (436.0125MHz)



**Result Table\_Single Waris ATEX UHF R1 TX 2 (436.0125MHz)**

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Bandwidth (Hz)	PE	Line
0.234000	58.0	28.4	9000.000	GND	L1
0.278000	57.2	18.1	9000.000	GND	L1
0.326000	54.7	25.3	9000.000	GND	L1
0.406000	48.0	17.6	9000.000	GND	L1
0.422000	49.5	17.5	9000.000	GND	L1
0.486000	44.6	15.1	9000.000	GND	L1
0.234000	57.3	28.1	9000.000	GND	N
0.278000	55.8	25.0	9000.000	GND	N
0.326000	53.0	24.1	9000.000	GND	N
0.406000	46.7	16.4	9000.000	GND	N
0.422000	47.6	17.0	9000.000	GND	N
0.486000	43.0	12.5	9000.000	GND	N

**Limits Waris ATEX UHF R1 TX 2 (436.0125MHz)**

Frequency	QP value	QP Limit	QP Margin	Avr Value	Avr Limit	Avr Margin	Ph
<= 500kHz							
234000	58.00	63.59	5.59	28.40	53.59	25.19	L1
278000	57.20	62.32	5.12	18.10	52.32	34.22	L1
326000	54.70	60.94	6.24	25.30	50.94	25.64	L1
406000	48.00	58.64	10.64	17.60	48.64	31.04	L1
422000	49.50	58.18	8.68	17.50	48.18	30.68	L1
486000	44.60	56.34	11.74	15.10	46.34	31.24	L1
234000	57.30	63.59	6.29	28.10	53.59	25.49	N
278000	55.80	62.32	6.52	25.00	52.32	27.32	N
326000	53.00	60.94	7.94	24.10	50.94	26.84	N
406000	46.70	58.64	11.94	16.40	48.64	32.24	N
422000	47.60	58.18	10.58	17.00	48.18	31.18	N
486000	43.00	56.34	13.34	12.50	46.34	33.84	N

**Figure 6J-3: Radio on Tx Line/Neutral**