SUBMITTED MEASURED DATA

	MEASUREMENT	EXHIBIT	# of PAGES
I	RF Power Output	9A	2
II	Audio Response	9B	1
III	Low Pass Filter Response	9C	2
IV	Modulation Limiting	9D	1
V	Occupied Bandwidth	9E	3
VI	Conducted Spurious Emissions *	9F *	2
VII	Radiated Spurious Emissions		
	C. Tx Vertical - 0.5 Watt	9G	1
	D. Tx Horizontal - 0.5 Watt	9G	1
VIII	Frequency Stability		
	A. Temperature	9H	1
	B. Supply Voltage	9H	1

*Due to this product having an integral non-removable antenna, this data is not required but was taken and submitted to reassure the FCC that the device does not have any potential spurious emission problems.

RF POWER OUTPUT DATA

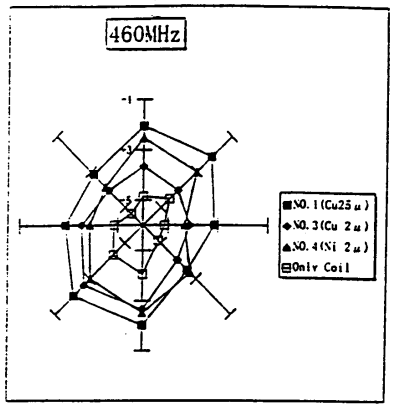
The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device.

Measured RF output	0.5	Watt
Normal DC Voltage	4.5	Volts
Normal DC Current	538	mA
Primary Supply Voltage	4.50	Volts

EXHIBIT 9A-1

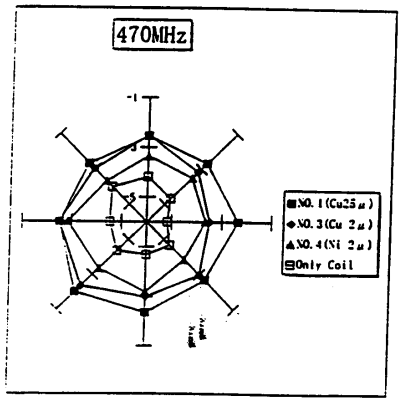
460MHz UNIT:dBi

DEGREE	NO.1(Cu25μ)	NO.3(Cu 2μ)	NO.4(Ni 2μ)	Only Coil
0	-2.05	-3.65	-2.52	-4.85
45	-2.15	-4.05	-3.02	-4.52
90	-3.15	-4.15	-4.35	-5.15
135	-3.49	-4.05	-3.35	-5.15
180	-2.02	-2.65	-2.52	-4.05
225	-2.05	-2.65	-3.02	-4.35
270	-2.95	-3.52	-3.85	-4.85
315	-3.15	-4.05	-3.95	-5.35
AVERAGE	-2.61	-3.5	-3.31	-4.78



470MHz UNIT:dBi

DEGREE	NO.1(Cu25μ)	NO.3(Cu 2μ)	NO.4(Ni 2μ)	Only Coil
0	-2.53	-2.51	-3.35	-4.18
45	-2.68	-3.15	-3.51	-4.68
90	-2.35	-3.51	-3.68	-5.18
135	-2.68	-2.99	-3.85	-4.68
180	-2.35	-2.99	-3.18	-4.68
225	-2.01	-2.35	-3.34	-4.35
270	-2.51	-2.51	-2.85	-4.52
315	-2.68	-2.99	-3.68	-4.01
ERAGE	-2.47	-2.87	-3.43	-4.53



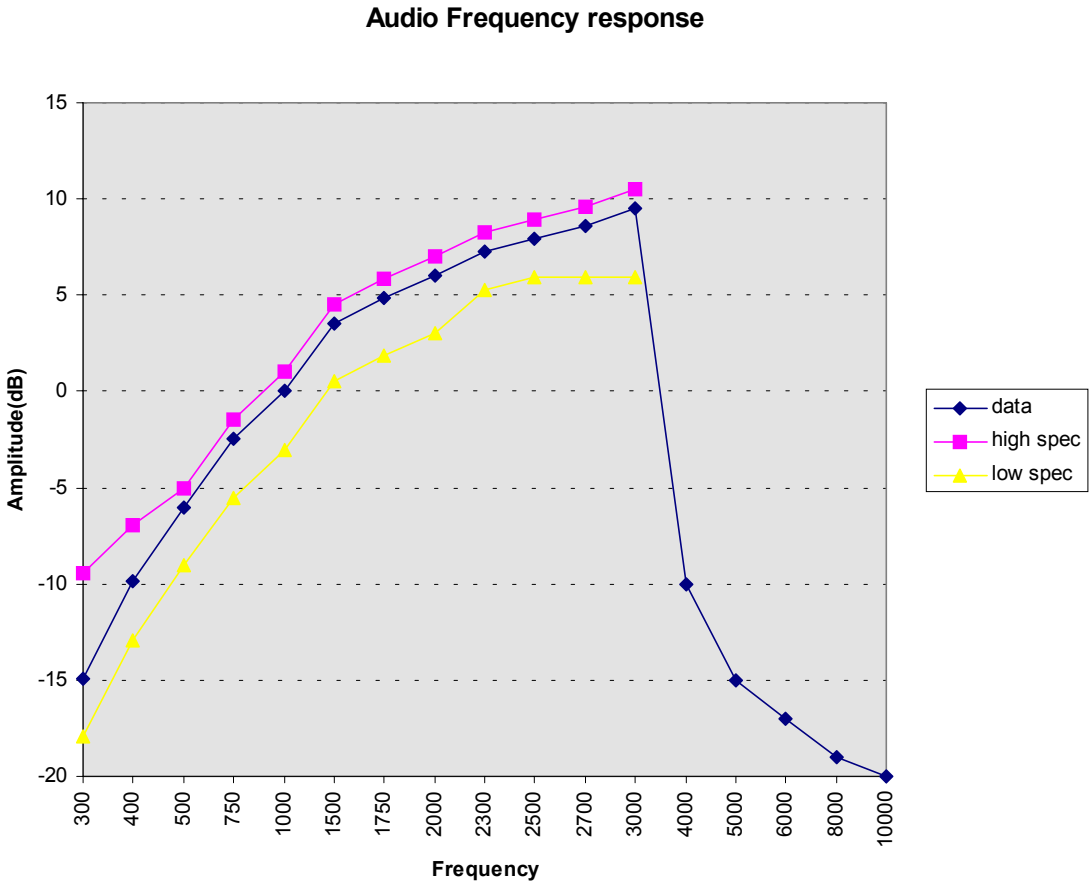

Audio Frequency response
15
10
5
0
-5
-10
-15
-20
Amplitude(dB)
300
400
500
750
1000
1500
1750
2000
2300
2500
2700
3000
4000
5000
6000
8000
10000
Frequency
data
high spec
low spec

EXHIBIT 9B

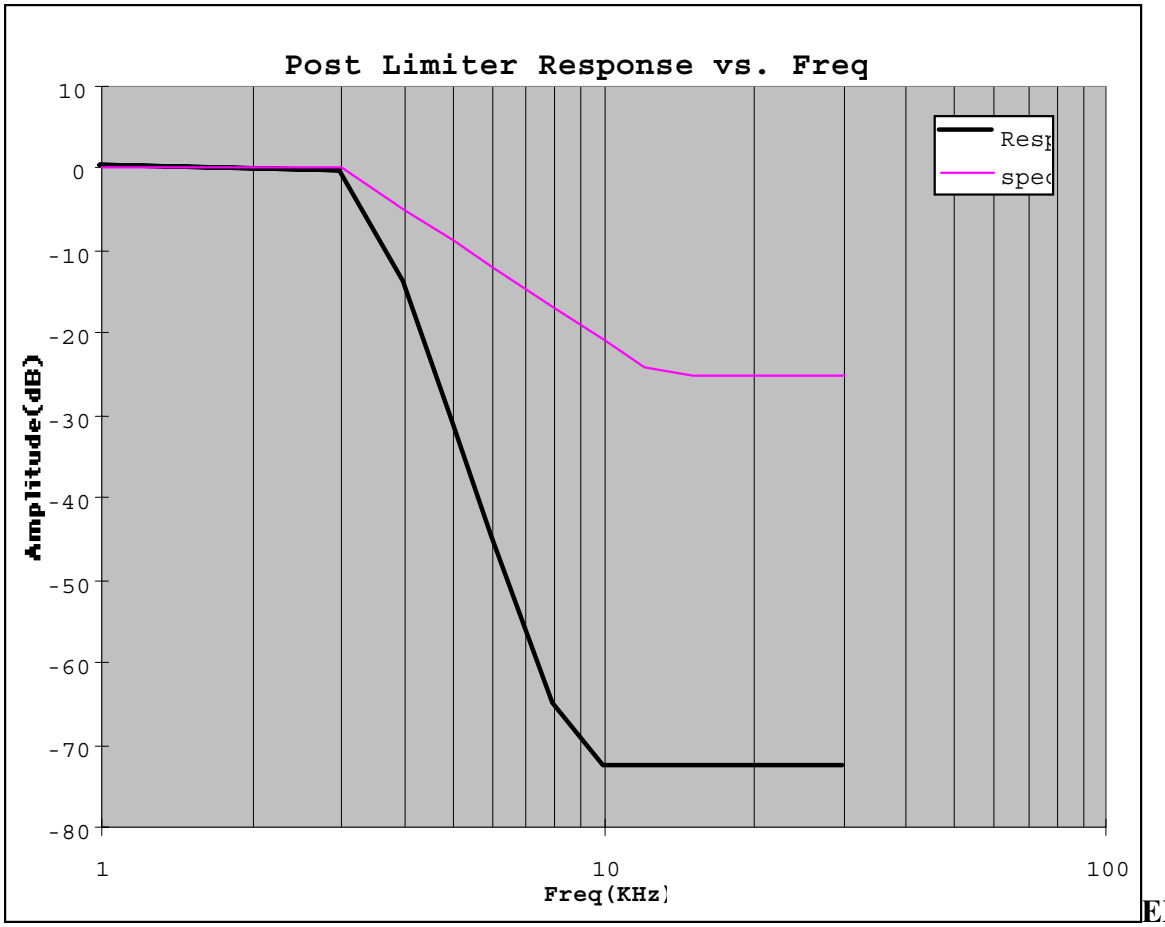

Post Limiter Response vs. Freq
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Amplitude(dB)
1
10
100
Freq(KHz)
Resp
spec

EXHIBIT 9C-1

Applicant: Motorola Inc. **Equipment Type:**

MOTOROLA INC.

Transmitter

POST-LIMITER AUDIO ROLL OFF FILTER RESPONSE

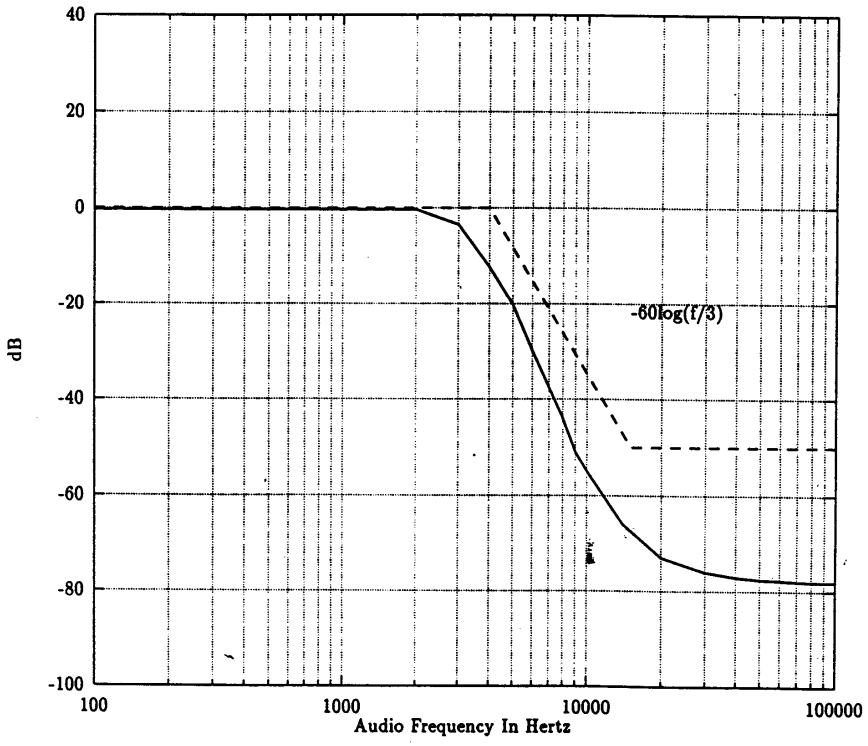
FILTER OUTPUT vs. AUDIO FREQUENCY

Reference ABZ99FT4070

Method SEE EXHIBIT 9L

Date 4/29/96

Signature L. Yonak



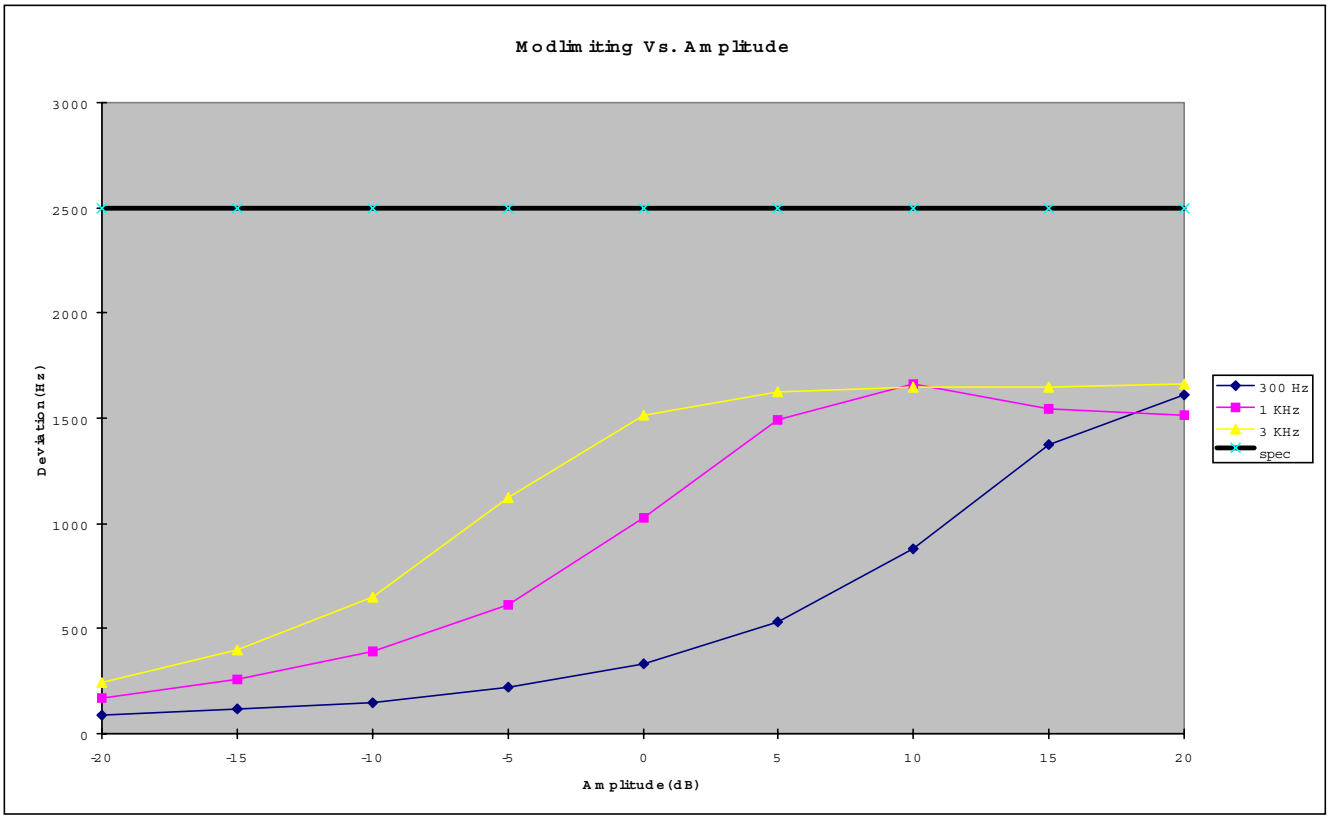

Modlimiting Vs. Amplitude
Deviation(Hz)
3000
2500
2000
1500
1000
500
0
-20
-15
-10
-5
0
5
10
15
20
Amplitude(dB)
300 Hz
1 KHz
3 KHz
spec

EXHIBIT 9D

OCCUPIED BANDWIDTH DATA

EXHIBIT 9E-1
2500 Hz Audio Modulation
Emission Type: 11K0F3E
Horizontal: 5 kHz/Div.
Vertical: 10 dB/Div.
Carrier Ref: 0 dB

EXHIBIT 9E-2
2500 Hz & 77 Hz Tone "PL" Modulation
Emission Type: 11K0F3E
Horizontal: 5 kHz/Div.
Vertical: 10 dB/Div.
Carrier Ref: 0 dB

CARSON'S RULE

BW = 2(M + D)
BW = 2 (3 kHz maximum modulation frequency + 2.5 kHz deviation)
BW = 2 (5.5)
BW = 11K0

EXHIBIT 9E

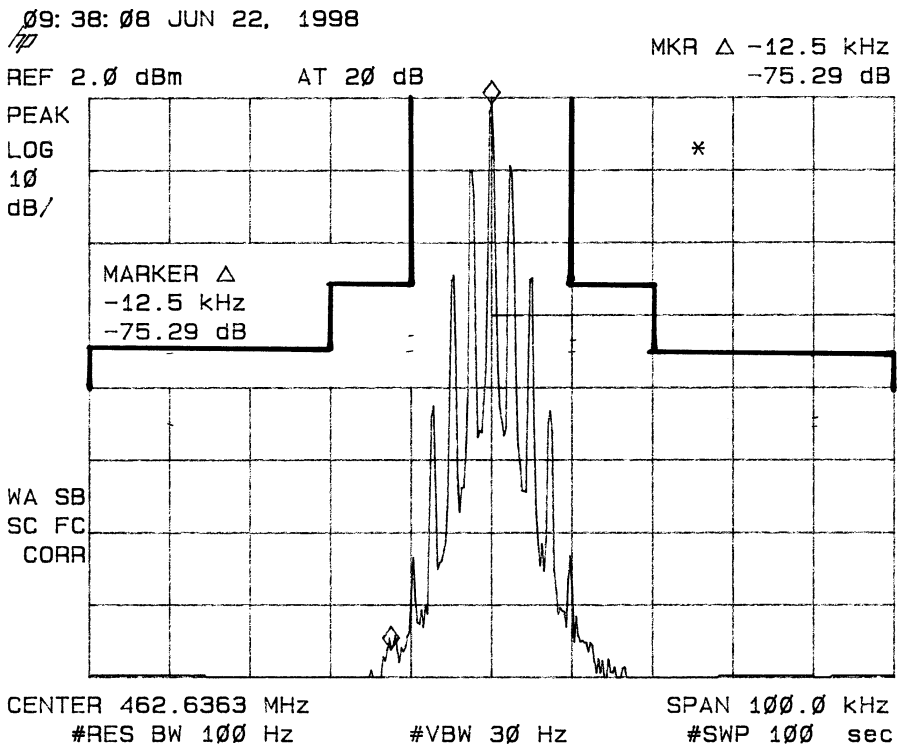

Ø9: 38: Ø8 JUN 22, 1998
MKR Δ -12.5 kHz
REF 2.Ø dBm
AT 2Ø dB
-75.29 dB
PEAK
LOG
1Ø
dB/
MARKER Δ
-12.5 kHz
-75.29 dB
WA SB
SC FC
CORR
CENTER 462.6363 MHz
SPAN 1ØØ.Ø kHz
#RES BW 1ØØ Hz
#VBW 3Ø Hz
#SWP 1ØØ sec

EXHIBIT 9E-1

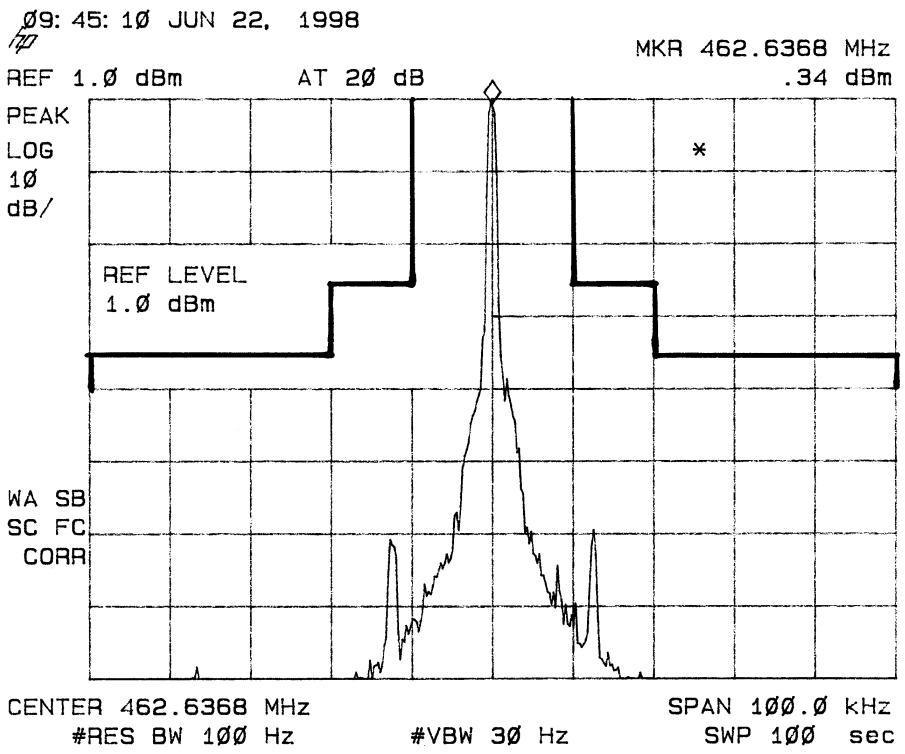

Ø9: 45: 1Ø JUN 22, 1998
MKR 462.6368 MHz
REF 1.Ø dBm
AT 2Ø dB
.34 dBm
PEAK
LOG
1Ø
dB/
REF LEVEL
1.Ø dBm
WA SB
SC FC
CORR
CENTER 462.6368 MHz
SPAN 1ØØ.Ø kHz
#RES BW 1ØØ Hz
#VBW 3Ø Hz
SWP 1ØØ sec

EXHIBIT 9E-2

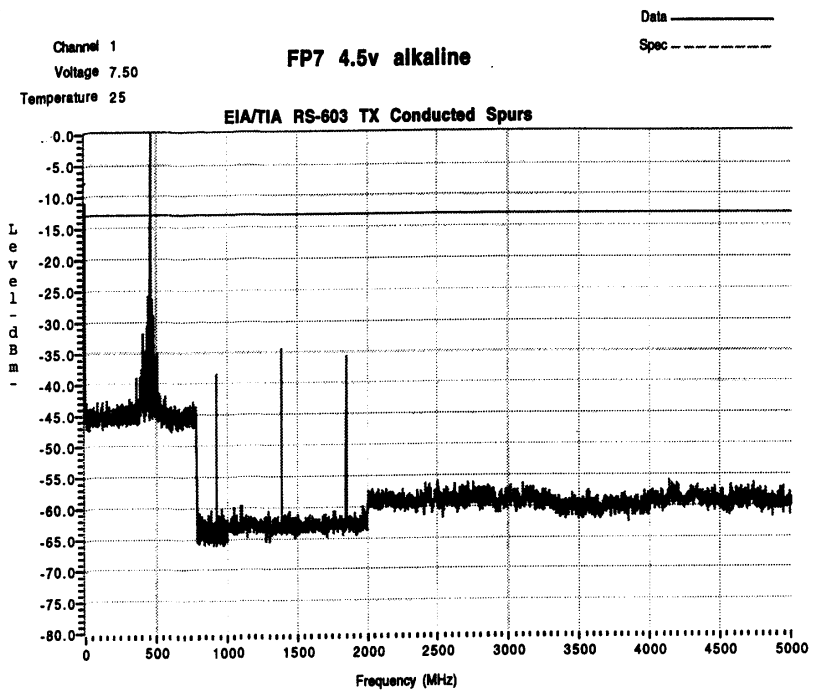

Data
Spec
Channel 1
Voltage 7.50
Temperature 25
FP7 4.5v alkaline
EIA/TIA RS-603 TX Conducted Spurs
Level-dBm
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
-55.0
-60.0
-65.0
-70.0
-75.0
-80.0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Frequency (MHz)

EXHIBIT 9F-1

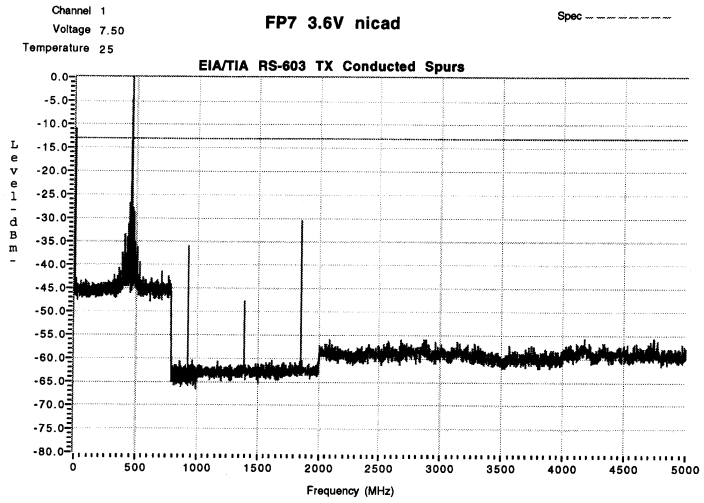


EXHIBIT 9F-2

EXHIBIT 9F-2

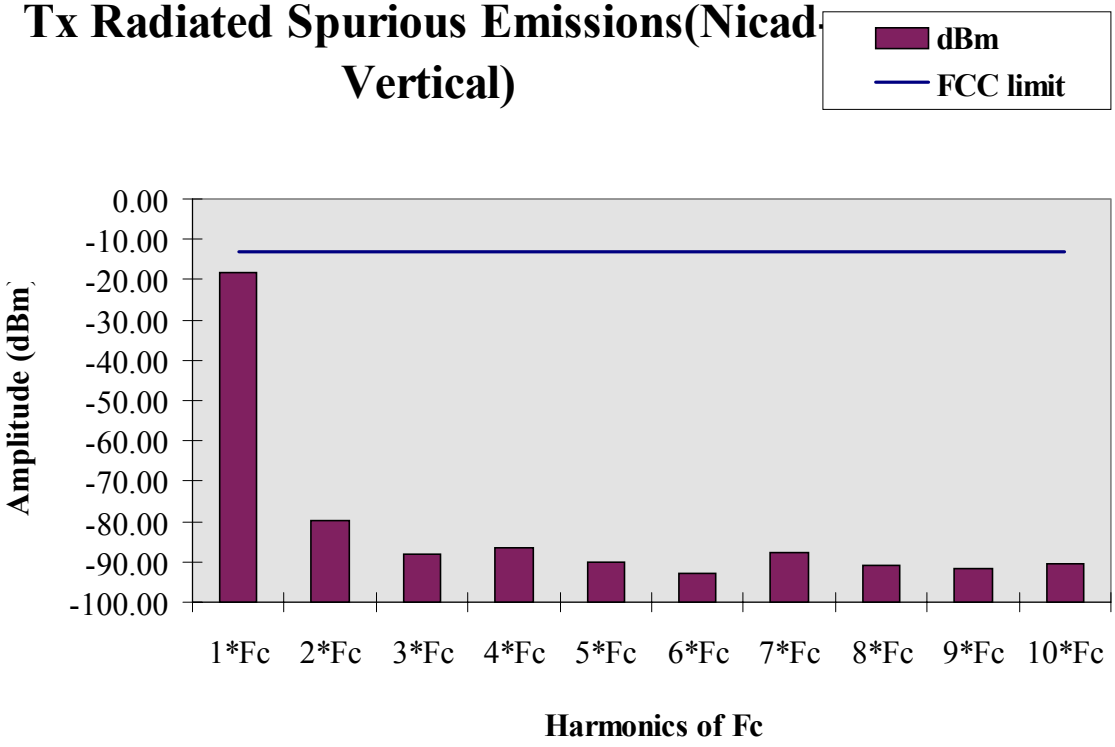

Tx Radiated Spurious Emissions(Nicad-
Vertical)
dBm
FCC limit
Amplitude (dBm)
0.00
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
-90.00
-100.00
1*Fc
2*Fc
3*Fc
4*Fc
5*Fc
6*Fc
7*Fc
8*Fc
9*Fc
10*Fc
Harmonics of Fc

EXHIBIT 9G-1

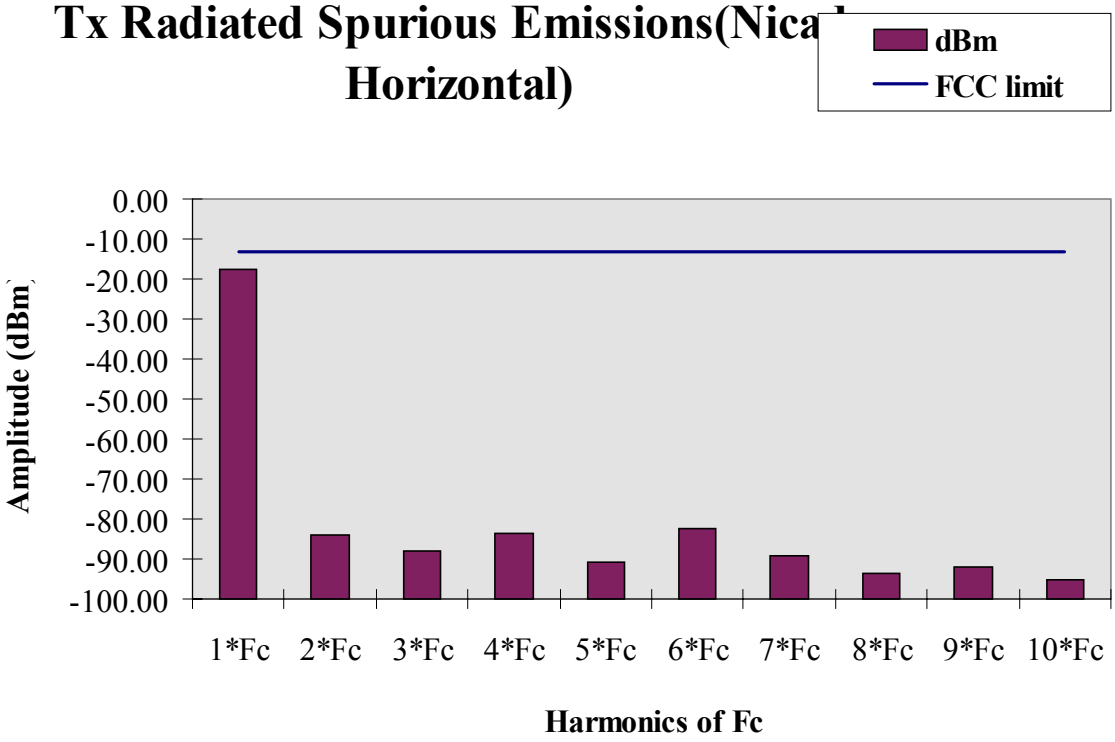

Tx Radiated Spurious Emissions(Nica
Horizontal)
dBm
FCC limit
Amplitude (dBm)
0.00
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
-90.00
-100.00
1*Fc
2*Fc
3*Fc
4*Fc
5*Fc
6*Fc
7*Fc
8*Fc
9*Fc
10*Fc
Harmonics of Fc

EXHIBIT 9G-2

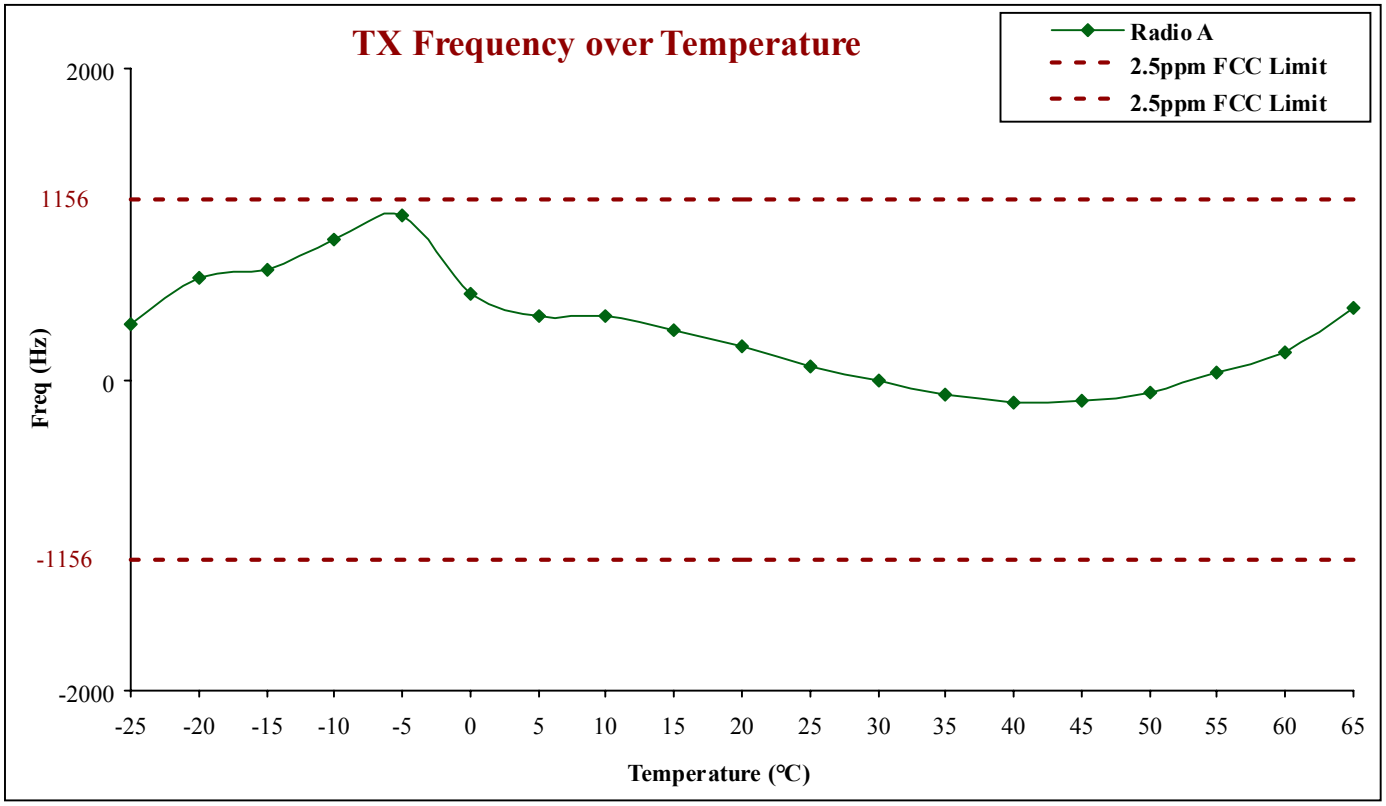

TX Frequency over Temperature
Radio A
2.5ppm FCC Limit
2.5ppm FCC Limit
2000
1156
0
-1156
-2000
Freq (Hz)
-25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65
Temperature (°C)

EXHIBIT 9H-1

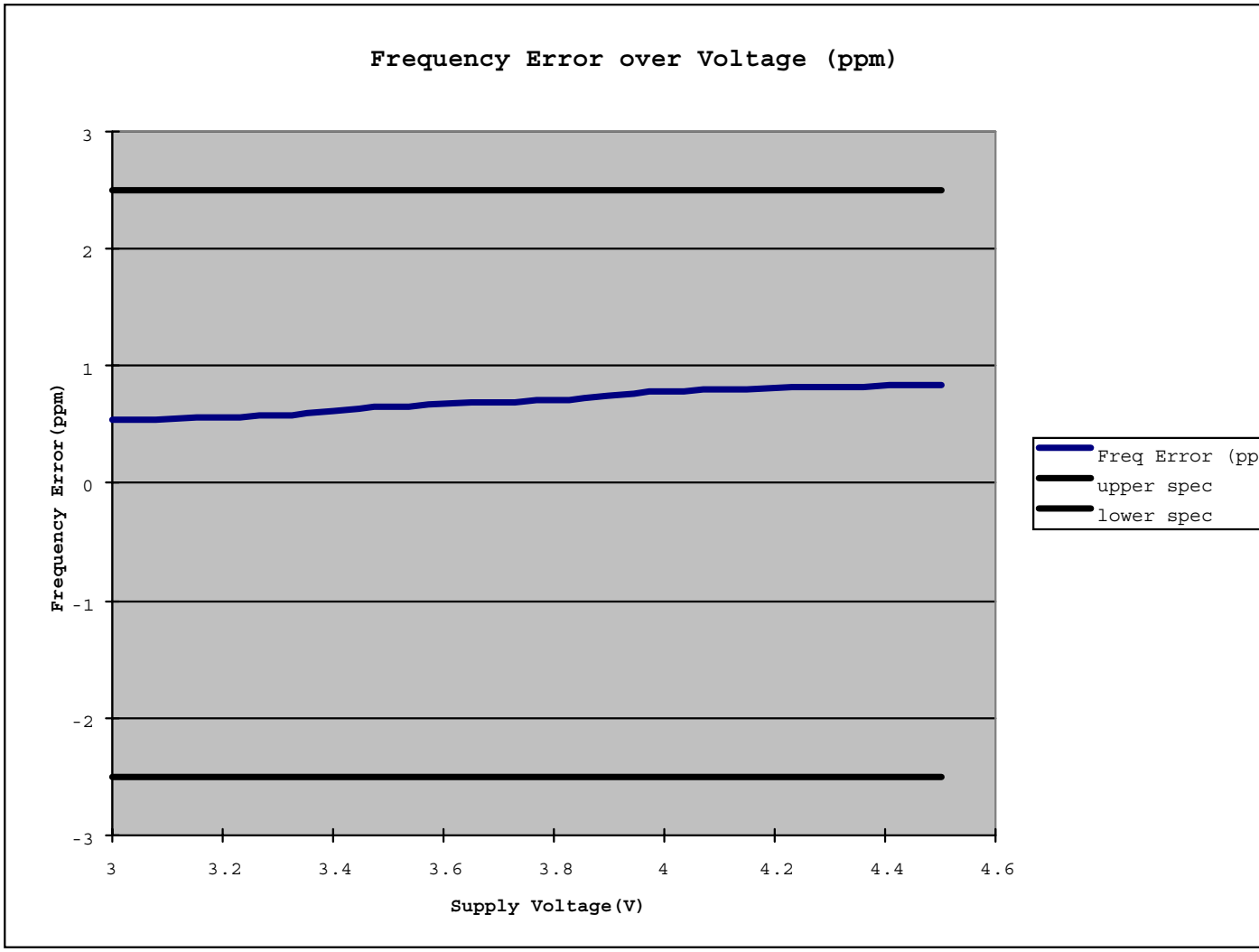


EXHIBIT 9H-2

Radio resets at 3.0 Volts.