2.1051 EMISSIONS AT ANTENNA PORT CONTINUED

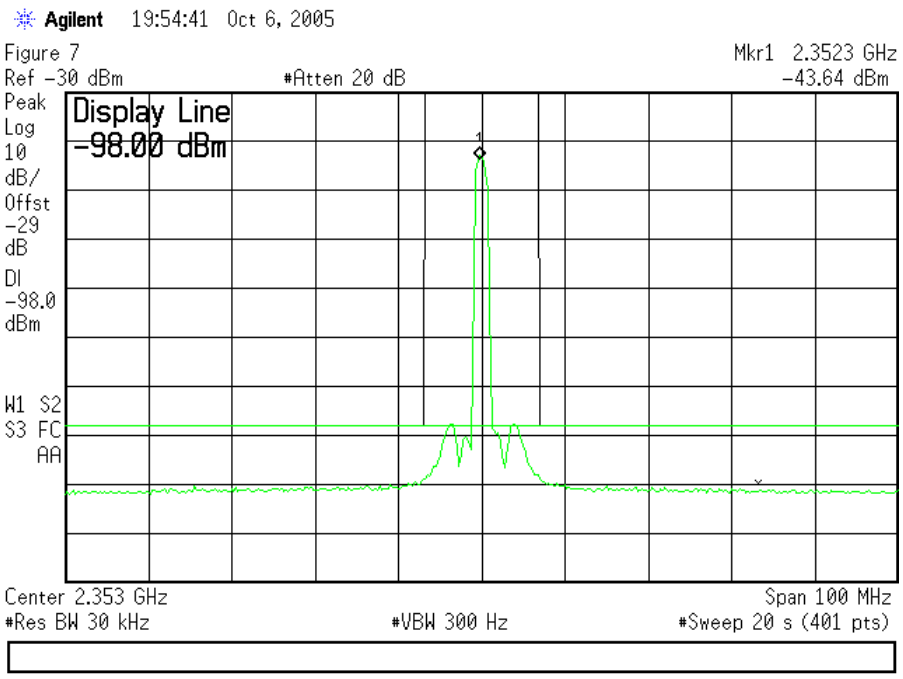


FIGURE 7

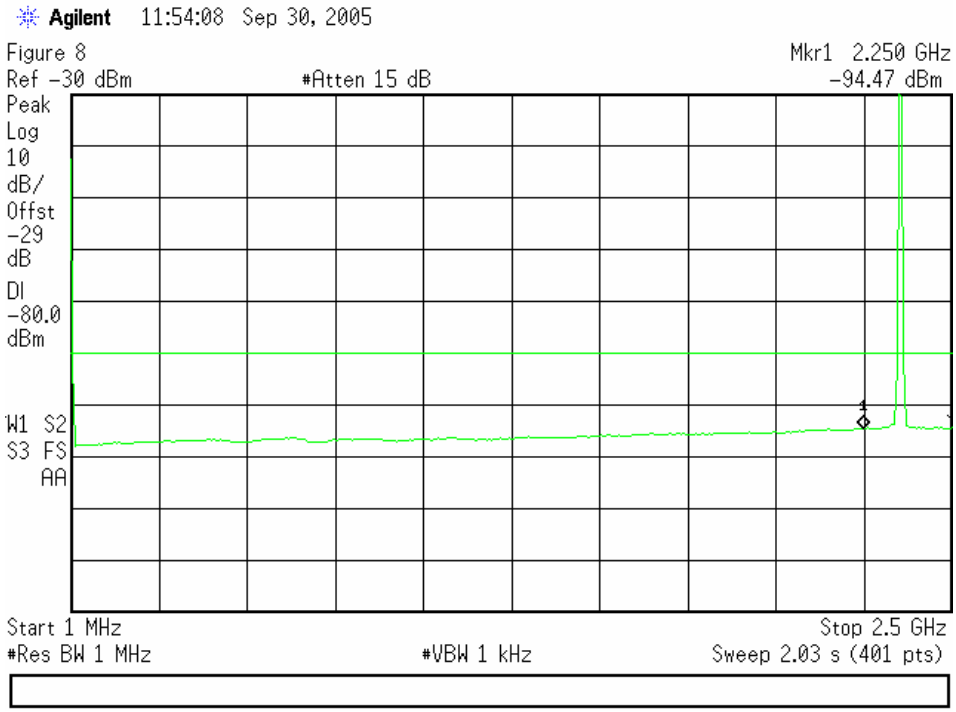


FIGURE 8

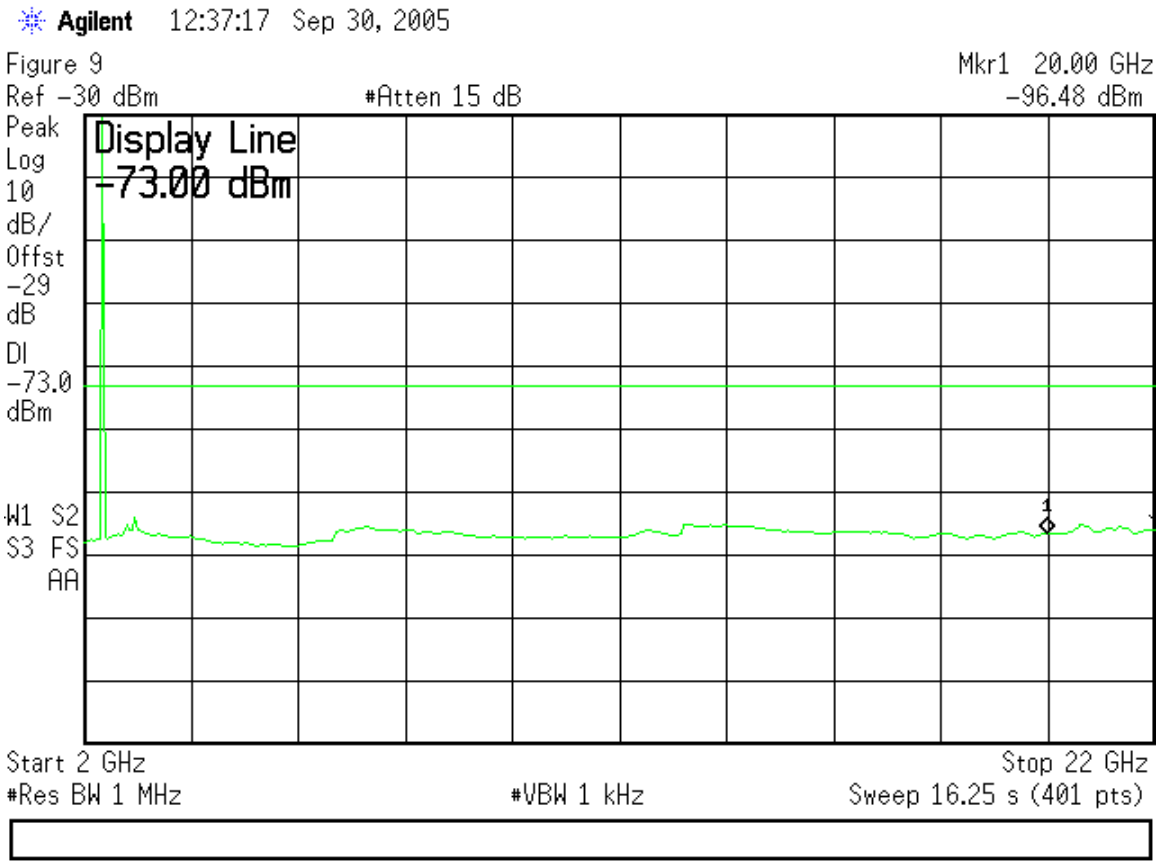

Agilent 12:37:17 Sep 30, 2005
Figure 9
Ref -30 dBm
#Atten 15 dB
Mkr1 20.00 GHz
-96.48 dBm
Peak
Log
10
dB/
Offst
-29
dB
Display Line
-73.00 dBm
Dl
-73.0
dBm
W1 S2
S3 FS
AA
Start 2 GHz
#Res BW 1 MHz
#VBW 1 kHz
Stop 22 GHz
Sweep 16.25 s (401 pts)

FIGURE 9

2.1053 FIELD OF SPURIOUS RADIATION

The spectrum emissions of the equipment were measured in an anechoic chamber at a distance of 3 meters. Measurements were made with the receiving antenna mounted both horizontally and vertically.

The measurements were made using the "Substitution Method" per TIA-603-C. The dipole equivalent power (P_d) was determined using the following formula:

P_d(dBm) = P_g(dBm) – cable loss (dB) + antenna gain (dB)

Where P_g is the generator output power into the substitution antenna.

The radiated spurious emissions (dB) was obtained for each spurious frequency using the following equation:

$10 \log_{10}$ (TX power in watts/0.001) - P_d

Measurements were made, using the substitution method, and significant (greater than 75 dB) spurious emissions were recorded.

The significant spurious emissions found are as follows:

Horizontial

Freq(MHZ)	Radiated Spurious Emissions (dB)
72.85	70.31
121	58.41
145.4	73.1
148.23	71.4
169.6	70.0
218.2	60.7
266.9	73.7
274.9	66.0
290.85	72.8
296.4	62.0
315.1	74.0
336.07	73.0
339.175	69.5
345.675	62.5
363.875	61.5
395.2	60.7
411.95	64.7
436.32	72.2
509.12	74.2
592.33	67.3
630.7	79.3
655	71.3
825	70.0
2036	62.0

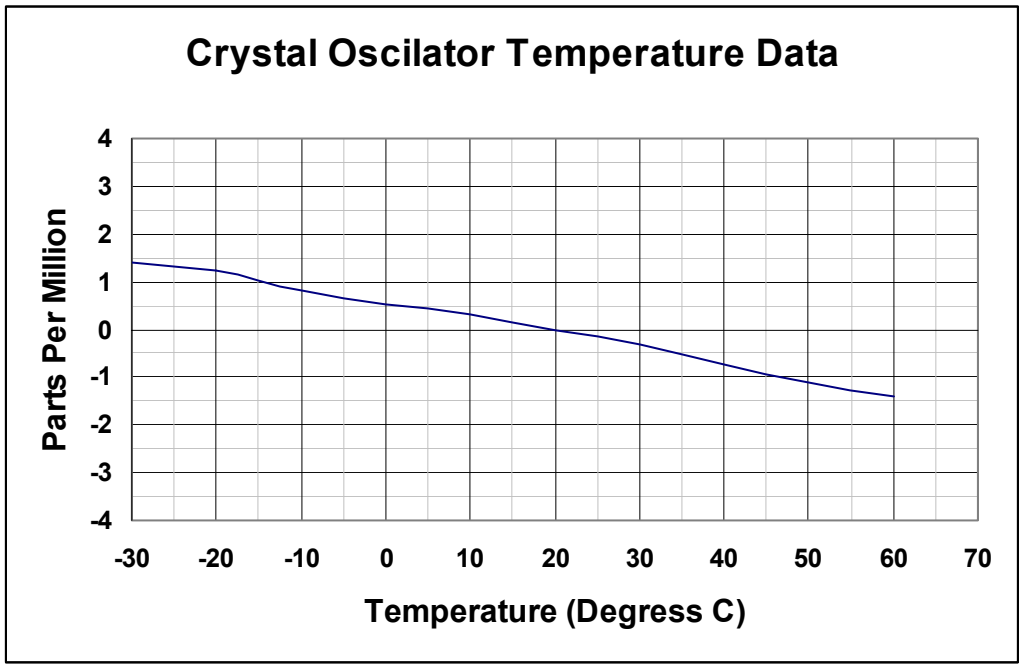
No significant spurious emissions were found above 2.37 GHz with the antenna mounted horizontally.

No significant spurious emissions were found with the antenna mounted vertically.

2.1055 FREQUENCY STABILITY

The transmit source that is used is a crystal oscillator operating in the 125 MHz range and multiplied up to the operating frequency.

Two sources were tested over a temperature range of -30 to + 50 degrees C and the largest deviation over the specified temperature range was +/- 1.5 PPM, which is adequate to maintain the transmit spectrum within the desired band of operation as per FCC Part 27.54.



The sources were also tested over the range of the DC input voltage (+/- 15%) and no significant variation in the frequency was observed.