

**RADIATED EMISSIONS**

**DATA**

**FOR**

**KYOCERA WIRELESS  
10300 Campus Point Drive  
San Diego, CA 92121**

**Prepared by**

**TÜV AMERICA  
10040 Mesa Rim Road  
San Diego, CA 92121-2912**

Measurement Requirements (CFR 47 Part 15, Paragraphs 15.109(a) and 15.209(a); Part 22, Paragraph 22.917(b)(2); and Part 24, Paragraph 24.238(a))

The following measurements were performed by TÜV America. To the best of my knowledge these tests were conducted in accordance with the procedures outlined in Part 2 of the Commission's Rules and Regulations. The data presented below demonstrates compliance with the appropriate technical standards.

Testing Start Date: 26 May 2004

Testing End Date: 28 May 2004

- TÜV AMERICA, INC. -

Reviewing Engineer:



Jim Owen  
(EMC Manager)

Test Engineer:



Alan Laudani  
(EMC Engineer)

**Emissions Test Conditions: SPURIOUS RADIATED EMISSIONS**

Roof (small open area test site)  
 SR-3, Shielded Room, 12' x 20' x 8', Metal Chamber (Prescans)

**The *Spurious Radiated Emissions* measurements were performed using the following equipment:**

**Test Equipment Used:**

| <b>Model No.</b>                                 | <b>Prop. No.</b> | <b>Description</b>       | <b>Manufacturer</b>  | <b>Serial No.</b> | <b>Date Cal'ed</b> |
|--------------------------------------------------|------------------|--------------------------|----------------------|-------------------|--------------------|
| HP8566B                                          | 744              | Spectrum Analyzer        | Hewlett Packard      | 2618A02913        | 01/04              |
| AMF-5D-010180-35-10P                             | 719              | PreAmp                   | TUV America          | 549460            | NCR*               |
| 3115                                             | 453              | Antenna, Horn            | Electro Mechanics Co | 3564              | 02/04              |
| FF6549-1                                         | 778              | 900 MHz High Pass Filter | Sage                 | 005               | NCR*               |
| FF6549-2                                         | 783              | 900 MHz High Pass Filter | ABES                 | 008               | NCR*               |
| 12A-18                                           | 6377             | Horn Antenna             | MI Technologies      | 21554MB           | NCR*               |
| 1 Meter Prescan 30 MHz - 1000 MHz Equipment List |                  |                          |                      |                   |                    |
| CBL6111                                          | 461              | Bilog Antenna            | Chase Electronics Li | 1291              | NCR*               |
| E4440A                                           | 6814             | Spectrum Analyzer        | Hewlett Packard      | MY42510441        | 08/03              |

**Remarks:** One year calibration cycle for all test equipment and sites. (\*) No Calibration Required.

No emissions detected between 30 MHz to 1000 MHz. See Appendix for prescans.

## **Technical Documentation**

**Test Data Sheets**

**and**

**Test Setups**

**Kyocera Substitution SC402509**

Model K7LE K494LC  
5/23/04  
Mode Transmit PCS FCC 24.238(a)

| Frequency | target<br>level | Horn<br>Gain | cable<br>loss | Signal<br>Generator | Total<br>(EIRP) | Spec | Margin        |
|-----------|-----------------|--------------|---------------|---------------------|-----------------|------|---------------|
| MHz       | dBuV/m          | dBi          | dB            | dBm                 | dBm             | dBm  | Subst.<br>dBm |

No emissions needed substitution

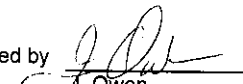
## Substitution Procedure:

1. Select emissions that pass with less than 20 dB margin, note the Target level -- reading on spectrum analyzer.
2. Duplicate this targeted reading with Signal Generator, allowing for antenna horn gain and cable insertion loss.
3. Compare calculated power output to specification.

Tested by

  
A. Laudani

Reviewed by

  
J. Owen

REPORT No: SC402509 TESTER: Alan Laudani SPEC: FCC Part 15 para 15.109(a)  
 CUSTOMER: Kyocera Wireless Corporation TEST DIST: 3 Meters  
 EUT: K7LE Trimode Color Energi Roof  
 "K494LC" sn 7A-X--0W9LTF  
 EUT MODE: Receive CDMA rx Synth BICONICAL: N/A  
 DATE: May 27, 2004 LOG: N/A  
 NOTES: Temp. 16°C, RH = 70 % OTHER: 453  
 above 1GHz: RBW & VBW 1 MHz for Pk; RBW 1MHz and VBW 10Hz for AVG

CF = Antenna Factor + Cable Loss - Pre-amplifier Gain 900 MHz filter

| FREQ<br>(MHz) | VERTICAL<br>(dBuV) |      | HORIZONTAL<br>(dBuV) |      | CF (dBm) | MAX LEVEL<br>(dBuV/m) |      | SPEC LIMIT<br>(dBuV/m) |    | MARGIN<br>(dB) |       | Antenna<br>Height | Notes                        |
|---------------|--------------------|------|----------------------|------|----------|-----------------------|------|------------------------|----|----------------|-------|-------------------|------------------------------|
|               | pk                 | av   | pk                   | av   |          | pk                    | av   | pk                     | av | pk             | av    |                   |                              |
| 1739.4        | 45.6               | 34.8 | 45.3                 | 34.9 | -9.1     | 36.5                  | 25.8 | 74                     | 54 | -37.5          | -28.2 | 1                 | noise floor                  |
| 3478.8        | 44.7               | 33.7 | 43.4                 | 33.7 | -0.9     | 43.8                  | 32.8 | 74                     | 54 | -30.2          | -21.2 | 1                 | noise floor                  |
| 5218.2        | 45.6               | 33.2 | 43.4                 | 33.2 | 1.9      | 47.5                  | 35.1 | 74                     | 54 | -26.5          | -18.9 | 1                 | noise floor                  |
| 6957.6        | 45.9               | 36.2 | 46.1                 | 35.7 | 7.2      | 53.3                  | 43.4 | 74                     | 54 | -20.7          | -10.6 | 1                 | noise floor                  |
| 8897.0        | 45.4               | 35.7 | 46                   | 36.2 | 9.3      | 55.3                  | 45.5 | 74                     | 54 | -18.7          | -8.5  | 1                 | noise floor                  |
| 10436.4       | 46.8               | 34.2 | 45.3                 | 35.6 | 11.8     | 58.6                  | 47.4 | 74                     | 54 | -15.4          | -6.6  | 1                 | noise floor                  |
| 12175.8       | 37.4               | 34.4 | 39.1                 | 34.3 | 13.0     | 52.1                  | 47.4 | 74                     | 54 | -21.9          | -6.6  | 1                 | noise floor                  |
| 13915.2       | 38.3               | 28.7 | 39.1                 | 28.8 | 13.9     | 53.0                  | 42.7 | 74                     | 54 | -21.0          | -11.3 | 1                 | res bw = 100 kHz noise floor |
| 15654.6       | 39.8               | 28.5 | 39.8                 | 28.6 | 15.5     | 55.3                  | 44.1 | 74                     | 54 | -18.7          | -9.9  | 1                 | res bw = 100 kHz noise floor |
| 17394.0       | 30.2               | 22.7 | 33.6                 | 28.2 | 21.8     | 55.4                  | 50.0 | 74                     | 54 | -18.6          | -4.0  | 1                 | res bw = 30 kHz noise floor  |
| 1762.98       | 56.1               | 40.5 | 55.3                 | 37.7 | -8.9     | 47.2                  | 31.6 | 74                     | 54 | -26.8          | -22.4 | 1                 | noise floor                  |
| 3525.96       | 44.0               | 33.8 | 45.4                 | 33.8 | -0.8     | 44.6                  | 33.0 | 74                     | 54 | -29.4          | -21.0 | 1                 | noise floor                  |
| 5288.94       | 43.3               | 32.6 | 43.6                 | 32.8 | 2.3      | 45.9                  | 35.1 | 74                     | 54 | -28.1          | -18.9 | 1                 | noise floor                  |
| 7051.92       | 46.7               | 35.7 | 47.2                 | 35.8 | 7.4      | 54.6                  | 43.2 | 74                     | 54 | -19.4          | -10.8 | 1                 | noise floor                  |
| 8814.90       | 46.3               | 36.3 | 47.2                 | 36.3 | 9.6      | 56.8                  | 45.9 | 74                     | 54 | -17.2          | -8.1  | 1                 | noise floor                  |
| 10577.88      | 47.2               | 35.8 | 42.7                 | 35.7 | 12.2     | 59.4                  | 48.0 | 74                     | 54 | -14.6          | -6.0  | 1                 | noise floor                  |
| 12340.86      | 45.9               | 34.7 | 46.2                 | 34.7 | 13.3     | 59.5                  | 48.0 | 74                     | 54 | -14.5          | -6.0  | 1                 | noise floor                  |
| 14103.84      | 35.0               | 28.7 | 35.2                 | 28.7 | 13.7     | 48.9                  | 42.4 | 74                     | 54 | -25.1          | -11.6 | 1                 | res bw = 100 kHz noise floor |
| 15866.82      | 38.3               | 28.7 | 38.7                 | 28.6 | 15.5     | 54.2                  | 44.2 | 74                     | 54 | -19.8          | -9.8  | 1                 | res bw = 100 kHz noise floor |
| 17629.80      | 33.5               | 23.4 | 32.9                 | 23.3 | 23.0     | 56.5                  | 46.4 | 74                     | 54 | -17.5          | -7.6  | 1                 | res bw = 30 kHz noise floor  |
| 1786.62       | 47.2               | 35.1 | 46.0                 | 35.2 | -8.8     | 38.4                  | 26.4 | 74                     | 54 | -35.6          | -27.6 | 1                 | noise floor                  |
| 3573.24       | 45.5               | 33.9 | 44.9                 | 34.0 | -0.7     | 44.8                  | 33.3 | 74                     | 54 | -29.2          | -20.7 | 1                 | noise floor                  |
| 5358.86       | 43.4               | 32.9 | 43.4                 | 33.0 | 2.8      | 46.2                  | 35.8 | 74                     | 54 | -27.8          | -18.2 | 1                 | noise floor                  |
| 7146.48       | 46.6               | 35.9 | 46.9                 | 35.9 | 7.5      | 54.4                  | 43.4 | 74                     | 54 | -19.6          | -10.6 | 1                 | noise floor                  |
| 8933.1        | 47.6               | 36.5 | 47.3                 | 36.6 | 9.8      | 57.4                  | 46.4 | 74                     | 54 | -16.6          | -7.6  | 1                 | noise floor                  |
| 10719.72      | 45.9               | 35.5 | 46.1                 | 35.5 | 12.5     | 58.6                  | 48.0 | 74                     | 54 | -15.4          | -6.0  | 1                 | noise floor                  |
| 12506.34      | 38.2               | 26.3 | 37.9                 | 28.4 | 13.6     | 51.8                  | 42.0 | 74                     | 54 | -22.2          | -12.0 | 1                 | res bw = 100 kHz noise floor |
| 14292.96      | 38.2               | 28.7 | 40.4                 | 28.8 | 14.0     | 54.4                  | 42.8 | 74                     | 54 | -19.6          | -11.2 | 1                 | res bw = 100 kHz noise floor |
| 16079.58      | 39.5               | 28.7 | 39.6                 | 28.7 | 15.4     | 55.0                  | 44.1 | 74                     | 54 | -19.0          | -9.9  | 1                 | res bw = 100 kHz noise floor |
| 17866.2       | 33.0               | 22.9 | 31.9                 | 22.6 | 23.3     | 56.3                  | 46.2 | 74                     | 54 | -17.7          | -7.8  | 1                 | res bw = 30 kHz noise floor  |

REPORT No. SC402509 TESTER: Alan Laudant SPEC: FCC Part 22 para 22.917(b)(2)

CUSTOMER: Kyocera Wireless Corporation

TEST DIST: 3 Meters

EUT: K7LE Trimode Color Rave  
"K494LC" sn 7A-X-0W9L TF

TEST SITE: Roof

EUT MODE: Transmit CDMA tx harmonics

BICONICAL: N/A

DATE: May 27, 2004 ERP Factor 7

LOG: N/A

NOTES: Temp. 18°C, RH = 60 %

HORN: 453

Part 22 - RBW 30 KHz

CF = Antenna Factor + Cable Loss - Preamp Gain 900 MHz Filter

| FREQ<br>(MHz) | VERTICAL<br>(dBuV)<br>pk | HORIZONTAL<br>(dBuV)<br>pk | CF (dBm) | MAX LEVEL<br>(dBm)<br>pk | SPEC LIMIT<br>(dBm)<br>pk | MARGIN<br>(dB)<br>pk | EUT Rotation | Antenna<br>Height | Notes                   |
|---------------|--------------------------|----------------------------|----------|--------------------------|---------------------------|----------------------|--------------|-------------------|-------------------------|
| 824.7         |                          |                            |          |                          |                           |                      |              |                   | Fundamental (Low Band)  |
| 1649.4        | 49.5                     | 51.3                       | -9.6     | -55.7                    | -13.0                     | -42.7                | 224          | 1.5               |                         |
| 2474.1        | 42.9                     | 40.8                       | -5.8     | -60.2                    | -13.0                     | -47.2                |              | 1                 | noise floor             |
| 3298.8        | 45.0                     | 45.8                       | -1.5     | -53.1                    | -13.0                     | -40.1                |              | 1                 | noise floor             |
| 4123.5        | 44.9                     | 45.9                       | -0.5     | -52.0                    | -13.0                     | -39.0                |              | 1                 | noise floor             |
| 4948.2        | 44.8                     | 44.8                       | 0.3      | -52.3                    | -13.0                     | -39.3                |              | 1                 | noise floor             |
| 5772.9        | 43.3                     | 45.5                       | 4.8      | -47.0                    | -13.0                     | -34.0                |              | 1                 | noise floor             |
| 6597.6        | 47.2                     | 47.7                       | 6.3      | -43.3                    | -13.0                     | -30.3                |              | 1                 | noise floor             |
| 7422.3        | 47.2                     | 47.1                       | 7.8      | -42.4                    | -13.0                     | -29.4                |              | 1                 | noise floor             |
| 8247.0        | 47.9                     | 47.6                       | 8.6      | -40.9                    | -13.0                     | -27.9                |              | 1                 | noise floor             |
| 836.49        |                          |                            |          |                          |                           |                      |              |                   | Fundamental (Mid Band)  |
| 1672.98       | 47.3                     | 49.9                       | -9.5     | -57.0                    | -13.0                     | -44.0                | 229          | 1.2               |                         |
| 2509.47       | 46.2                     | 47.4                       | -5.6     | -55.6                    | -13.0                     | -42.6                |              | 1                 | noise floor             |
| 3345.96       | 44.4                     | 44.9                       | -1.4     | -53.8                    | -13.0                     | -40.8                |              | 1                 | noise floor             |
| 4182.45       | 46.8                     | 45.6                       | -0.7     | -51.3                    | -13.0                     | -38.3                |              | 1                 | noise floor             |
| 5018.94       | 45.0                     | 45.4                       | 0.6      | -51.3                    | -13.0                     | -38.3                |              | 1                 | noise floor             |
| 5855.43       | 49.0                     | 48.0                       | 5.2      | -43.2                    | -13.0                     | -30.2                |              | 1                 | noise floor             |
| 6691.92       | 47.0                     | 46.8                       | 6.6      | -43.8                    | -13.0                     | -30.8                |              | 1                 | noise floor             |
| 7528.41       | 47.5                     | 46.9                       | 7.9      | -41.9                    | -13.0                     | -28.9                |              | 1                 | noise floor             |
| 8364.90       | 47.7                     | 47.4                       | 8.7      | -41.0                    | -13.0                     | -28.0                |              | 1                 | noise floor             |
| 848.31        |                          |                            |          |                          |                           |                      |              |                   | Fundamental (High Band) |
| 1696.62       | 49.4                     | 50.3                       | -9.3     | -56.4                    | -13.0                     | -43.4                | 220          | 1                 |                         |
| 2544.93       | 47.9                     | 46.9                       | -5.4     | -54.9                    | -13.0                     | -41.9                |              | 1                 | noise floor             |
| 3393.24       | 44.4                     | 44.9                       | -1.2     | -53.6                    | -13.0                     | -40.6                |              | 1                 | noise floor             |
| 4241.55       | 46.5                     | 46.2                       | -0.9     | -51.8                    | -13.0                     | -38.8                |              | 1                 | noise floor             |
| 5089.86       | 44.6                     | 45.2                       | 1.1      | -51.1                    | -13.0                     | -38.1                |              | 1                 | noise floor             |
| 5938.17       | 47.6                     | 49.1                       | 5.5      | -42.7                    | -13.0                     | -29.7                |              | 1                 | noise floor             |
| 6786.48       | 47.0                     | 46.6                       | 6.8      | -43.6                    | -13.0                     | -30.6                |              | 1                 | noise floor             |
| 7634.79       | 46.5                     | 46.9                       | 8.0      | -42.4                    | -13.0                     | -29.4                |              | 1                 | noise floor             |
| 8483.1        | 46.8                     | 47.4                       | 8.8      | -41.2                    | -13.0                     | -28.2                |              | 1                 | noise floor             |

REPORT No: SC402509 TESTER: Alan Laudani SPEC: FCC Part 15 para 15.109(e)

CUSTOMER: Kyocera Wireless Corporation

TEST DIST: 3 Meters

EUT: K7LE Trimode Color Energi  
"K494LC" sn 7A-X---0W9LTF

TEST SITE: Roof

EUT MODE: Receive FM x Synth

BICONICAL: N/A

DATE: May 28, 2004

LOG: N/A

NOTES: Temp. 17°C, RH = 71 % OTHER: 453  
above 1GHz: RBW & VBW 1 MHz for Pk; RBW 1MHz and VBW 10Hz for AVG

| FREQ<br>(MHz) | VERTICAL<br>(dBuV) |      | HORIZONTAL<br>(dBuV) |      | CF<br>(dB/m) | MAX LEVEL<br>(dBuV/m) |      | SPEC LIMIT<br>(dBuV/m) |    | MARGIN<br>(dB) |       | Antenna<br>Height | Notes                        |
|---------------|--------------------|------|----------------------|------|--------------|-----------------------|------|------------------------|----|----------------|-------|-------------------|------------------------------|
|               | pk                 | av   | pk                   | av   |              | pk                    | av   | pk                     | av | pk             | av    |                   |                              |
| 1738.104      | 45.6               | 33.9 | 45.3                 | 33.9 | -9.1         | 36.5                  | 24.8 | 74                     | 54 | -37.5          | -29.2 | 1                 | noise floor                  |
| 3476.208      | 45.3               | 34.0 | 45.0                 | 34.1 | -0.9         | 44.4                  | 33.2 | 74                     | 54 | -29.6          | -20.8 | 1                 | noise floor                  |
| 5214.312      | 45.6               | 33.8 | 45.2                 | 33.8 | 1.9          | 47.5                  | 35.7 | 74                     | 54 | -26.5          | -18.3 | 1                 | noise floor                  |
| 6952.416      | 46.4               | 35.9 | 46.6                 | 35.9 | 7.2          | 53.8                  | 43.1 | 74                     | 54 | -20.2          | -10.9 | 1                 | noise floor                  |
| 8690.520      | 48.3               | 36.7 | 47.8                 | 36.7 | 9.3          | 57.6                  | 46.0 | 74                     | 54 | -16.4          | -8.0  | 1                 | noise floor                  |
| 10428.624     | 47.0               | 35.8 | 46.6                 | 35.8 | 11.8         | 58.8                  | 47.6 | 74                     | 54 | -15.2          | -6.4  | 1                 | noise floor                  |
| 12166.728     | 45.6               | 34.8 | 46.1                 | 34.8 | 13.0         | 59.1                  | 47.8 | 74                     | 54 | -14.9          | -6.2  | 1                 | noise floor                  |
| 13904.832     | 39.9               | 28.9 | 39.3                 | 29   | 13.9         | 53.2                  | 42.9 | 74                     | 54 | -20.8          | -11.1 | 1                 | res bw = 100 kHz noise floor |
| 15842.936     | 39.2               | 29.1 | 39.3                 | 29.1 | 15.5         | 54.8                  | 44.6 | 74                     | 54 | -19.2          | -9.4  | 1                 | res bw = 100 kHz noise floor |
| 17381.040     | 34.0               | 23.6 | 33.6                 | 23.8 | 21.7         | 55.7                  | 45.5 | 74                     | 54 | -18.3          | -8.5  | 1                 | res bw = 30 kHz noise floor  |
| 1763.004      | 44.4               | 33.8 | 44.6                 | 33.8 | -8.9         | 35.7                  | 24.9 | 74                     | 54 | -38.3          | -29.1 | 1                 | noise floor                  |
| 3526.008      | 44.9               | 33.9 | 44.8                 | 33.9 | -0.8         | 44.1                  | 33.1 | 74                     | 54 | -29.9          | -20.9 | 1                 | noise floor                  |
| 5289.012      | 44.1               | 33.0 | 44.1                 | 33.0 | 2.3          | 46.4                  | 35.3 | 74                     | 54 | -27.6          | -18.7 | 1                 | noise floor                  |
| 7052.016      | 46.7               | 35.9 | 47.4                 | 35.9 | 7.4          | 54.8                  | 43.3 | 74                     | 54 | -19.2          | -10.7 | 1                 | noise floor                  |
| 8815.020      | 47.3               | 36.3 | 47.7                 | 36.3 | 9.6          | 57.3                  | 45.9 | 74                     | 54 | -16.7          | -8.1  | 1                 | noise floor                  |
| 10578.024     | 45.0               | 33.8 | 47.9                 | 34.1 | 12.2         | 60.1                  | 46.3 | 74                     | 54 | -13.9          | -7.7  | 1                 | noise floor                  |
| 12341.028     | 42.0               | 29.9 | 41.2                 | 29.9 | 13.3         | 55.3                  | 43.2 | 74                     | 54 | -18.7          | -10.8 | 1                 | noise floor                  |
| 14104.032     | 43.3               | 32.4 | 43.5                 | 32.4 | 13.7         | 57.2                  | 46.1 | 74                     | 54 | -16.8          | -7.9  | 1                 | noise floor                  |
| 15867.036     | 34.4               | 23.3 | 34.2                 | 23.2 | 15.5         | 49.9                  | 38.8 | 74                     | 54 | -24.1          | -15.2 | 1                 | res bw = 100 kHz noise floor |
| 17630.040     | 30.5               | 20.7 | 31.5                 | 20.7 | 23.0         | 54.5                  | 43.7 | 74                     | 54 | -19.5          | -10.3 | 1                 | res bw = 100 kHz noise floor |
| 1787.964      | 43.4               | 32.4 | 43.5                 | 32.4 | -8.8         | 34.7                  | 23.6 | 74                     | 54 | -39.3          | -30.4 | 1                 | noise floor                  |
| 3575.928      | 43.3               | 32.4 | 43.0                 | 32.4 | -0.7         | 42.6                  | 31.7 | 74                     | 54 | -31.4          | -22.3 | 1                 | noise floor                  |
| 5363.892      | 43.1               | 31.7 | 43.3                 | 31.6 | 2.8          | 46.1                  | 34.5 | 74                     | 54 | -27.9          | -19.5 | 1                 | noise floor                  |
| 7151.856      | 41.8               | 30.9 | 42.0                 | 30.9 | 7.5          | 49.5                  | 38.4 | 74                     | 54 | -24.5          | -15.6 | 1                 | noise floor                  |
| 8939.820      | 44.1               | 32.8 | 44.1                 | 32.9 | 9.9          | 54.0                  | 42.8 | 74                     | 54 | -20.0          | -11.2 | 1                 | noise floor                  |
| 10727.784     | 41.8               | 30.6 | 40.9                 | 30.6 | 12.5         | 54.3                  | 43.1 | 74                     | 54 | -19.7          | -10.9 | 1                 | noise floor                  |
| 12515.748     | 45.1               | 34.1 | 45.2                 | 34.2 | 13.6         | 58.8                  | 47.8 | 74                     | 54 | -15.2          | -6.2  | 1                 | noise floor                  |
| 14303.712     | 44.0               | 32.7 | 43.5                 | 32.8 | 14.0         | 58.0                  | 46.8 | 74                     | 54 | -16.0          | -7.2  | 1                 | noise floor                  |
| 16091.676     | 33.8               | 23.2 | 34.0                 | 23.2 | 15.4         | 49.4                  | 38.6 | 74                     | 54 | -24.6          | -15.4 | 1                 | res bw = 100 kHz noise floor |
| 17879.640     | 30.5               | 20.4 | 30.1                 | 20.4 | 23.3         | 53.8                  | 43.7 | 74                     | 54 | -20.2          | -10.3 | 1                 | res bw = 100 kHz noise floor |

CF = Antenna Factor + Cable Loss - Preamp Gain **900 MHz Filter** vdata

REPORT No: SC402509 TESTER: Alan Laudani SPEC: FCC Part 22 para 22.917(b)(2)

CUSTOMER: Kyocera Wireless Corporation TEST DIST: 3 Meters

E U T: K7LE Trimode Color Energi TEST SITE: Roof  
"K494LC" sn 7A-X---0W9LTF

EUT MODE: Transmit FM tx harmonics BICONICAL: N/A

DATE: May 28, 2004 ERP Factor 7 LOG: N/A

NOTES: Temp. 16°C, RH = 72 % HORN: 453  
Part 22 - RBW 30 kHz

| CF = Antenna Factor + Cable Loss - Preamp/Filter Gain 900 MHz Filter |                          |                            |          |                          |                           |                      |              |                   |                         |
|----------------------------------------------------------------------|--------------------------|----------------------------|----------|--------------------------|---------------------------|----------------------|--------------|-------------------|-------------------------|
| FREQ<br>(MHz)                                                        | VERTICAL<br>(dBuV)<br>pk | HORIZONTAL<br>(dBuV)<br>pk | CF (dBm) | MAX LEVEL<br>(dBm)<br>pk | SPEC LIMIT<br>(dBm)<br>pk | MARGIN<br>(dB)<br>pk | EUT Rotation | Antenna<br>Height | Notes                   |
| 824.04                                                               | 46.4                     | 45.3                       | -9.7     | -60.6                    | -13.0                     | -47.6                |              | 1                 | Fundamental (Low Band)  |
| 1648.08                                                              | 43.0                     | 43.9                       | -5.8     | -59.3                    | -13.0                     | -46.3                |              | 1                 | noise floor             |
| 2472.12                                                              | 44.4                     | 45.4                       | -1.5     | -53.5                    | -13.0                     | -40.5                |              | 1                 | noise floor             |
| 3296.16                                                              | 45.6                     | 45.6                       | -0.5     | -52.3                    | -13.0                     | -39.3                |              | 1                 | noise floor             |
| 4120.2                                                               | 43.8                     | 43.8                       | 0.2      | -53.2                    | -13.0                     | -40.2                |              | 1                 | noise floor             |
| 4944.24                                                              | 43.3                     | 44.6                       | 4.8      | -47.9                    | -13.0                     | -34.9                |              | 1                 | noise floor             |
| 5768.28                                                              | 47.5                     | 47.5                       | 6.3      | -43.4                    | -13.0                     | -30.4                |              | 1                 | noise floor             |
| 6592.32                                                              | 46.4                     | 47.2                       | 7.8      | -42.4                    | -13.0                     | -29.4                |              | 1                 | noise floor             |
| 7416.36                                                              | 48.2                     | 48                         | 8.6      | -40.6                    | -13.0                     | -27.6                |              | 1                 | noise floor             |
| 8240.40                                                              |                          |                            |          |                          |                           |                      |              |                   |                         |
| 836.49                                                               |                          |                            |          |                          |                           |                      |              |                   | Fundamental (Mid Band)  |
| 1672.98                                                              | 46.0                     | 45.4                       | -9.5     | -60.9                    | -13.0                     | -47.9                |              | 1                 | noise floor             |
| 2509.47                                                              | 46.3                     | 45.9                       | -5.6     | -56.7                    | -13.0                     | -43.7                |              | 1                 | noise floor             |
| 3345.96                                                              | 44.9                     | 45.4                       | -1.4     | -53.3                    | -13.0                     | -40.3                |              | 1                 | noise floor             |
| 4182.45                                                              | 46.0                     | 46.1                       | -0.7     | -52.0                    | -13.0                     | -39.0                |              | 1                 | noise floor             |
| 5018.94                                                              | 45.7                     | 45.3                       | 0.6      | -51.0                    | -13.0                     | -38.0                |              | 1                 | noise floor             |
| 5855.43                                                              | 48.0                     | 47.0                       | 5.2      | -44.2                    | -13.0                     | -31.2                |              | 1                 | noise floor             |
| 6691.92                                                              | 48.0                     | 46.9                       | 6.6      | -42.8                    | -13.0                     | -29.8                |              | 1                 | noise floor             |
| 7528.41                                                              | 47.6                     | 47.1                       | 7.9      | -41.8                    | -13.0                     | -28.8                |              | 1                 | noise floor             |
| 8364.90                                                              | 47.4                     | 47.5                       | 8.7      | -41.2                    | -13.0                     | -28.2                |              | 1                 | noise floor             |
| 848.97                                                               |                          |                            |          |                          |                           |                      |              |                   | Fundamental (High Band) |
| 1697.94                                                              | 46.1                     | 45.1                       | -9.3     | -60.6                    | -13.0                     | -47.6                |              | 1                 | noise floor             |
| 2546.91                                                              | 47.3                     | 47.4                       | -5.4     | -55.4                    | -13.0                     | -42.4                |              | 1                 | noise floor             |
| 3396.88                                                              | 46.3                     | 45.3                       | -1.2     | -52.2                    | -13.0                     | -39.2                |              | 1                 | noise floor             |
| 4244.85                                                              | 46.9                     | 46.5                       | -0.9     | -51.4                    | -13.0                     | -38.4                |              | 1                 | noise floor             |
| 5093.82                                                              | 45.7                     | 45.7                       | 1.1      | -50.6                    | -13.0                     | -37.6                |              | 1                 | noise floor             |
| 5942.79                                                              | 47.9                     | 47.6                       | 5.6      | -43.9                    | -13.0                     | -30.9                |              | 1                 | noise floor             |
| 6791.76                                                              | 47.5                     | 47.2                       | 6.8      | -43.1                    | -13.0                     | -30.1                |              | 1                 | noise floor             |
| 7640.73                                                              | 46.9                     | 47.5                       | 8.0      | -41.8                    | -13.0                     | -28.8                |              | 1                 | noise floor             |
| 8489.70                                                              | 47.1                     | 47.4                       | 8.8      | -41.2                    | -13.0                     | -28.2                |              | 1                 | noise floor             |

REPORT No: SC402509 TESTER: Alan Laudani SPEC: FCC Part 15 para 15.109(a)  
 CUSTOMER: Kyocera Wireless Corporation TEST DIST: 3 Meters  
 E U T: K7LE Trimode Color Energi Roof  
 "K494LC" sn 7A-X-0W9LTF  
 EUT MODE: Receive PCS rx Synth BICONICAL: N/A  
 DATE: May 28, 2004 LOG: N/A  
 NOTES: Temp. 18°C, RH = 77 % OTHER: 453  
 above 1GHz: RBW & VBW 1 MHz for Pk, RBW 1MHz and VBW 10Hz for AVG

CF = Antenna Factor + Cable Loss - Preamp/Filter Gain 2000 MHz Filter

| FREQ<br>(MHz) | VERTICAL<br>(dBuV) |      | HORIZONTAL<br>(dBuV) |      | CF (dBm) | MAX LEVEL<br>(dBuV/m) |      | SPEC LIMIT<br>(dBuV/m) |    | MARGIN<br>(dB) |       | Antenna<br>Height | Notes                        |
|---------------|--------------------|------|----------------------|------|----------|-----------------------|------|------------------------|----|----------------|-------|-------------------|------------------------------|
|               | pk                 | av   | pk                   | av   |          | pk                    | av   | pk                     | av | pk             | av    |                   |                              |
| 1716.667      | 45.1               | 34.3 | 45.4                 | 34.3 | -9.2     | 36.2                  | 25.1 | 74                     | 54 | -37.8          | -28.9 | 1                 | noise floor                  |
| 3433.333      | 45.1               | 34.2 | 45.1                 | 34.3 | -1.0     | 44.1                  | 33.3 | 74                     | 54 | -29.9          | -20.7 | 1                 | noise floor                  |
| 5150.000      | 45.2               | 34.3 | 45.2                 | 34.2 | 1.5      | 46.7                  | 35.8 | 74                     | 54 | -27.3          | -18.2 | 1                 | noise floor                  |
| 6866.666      | 47.7               | 36.8 | 48.1                 | 36.7 | 7.0      | 55.1                  | 43.8 | 74                     | 54 | -18.9          | -10.2 | 1                 | noise floor                  |
| 8583.333      | 48.1               | 36.9 | 47.7                 | 36.9 | 9.0      | 57.1                  | 45.9 | 74                     | 54 | -16.9          | -8.1  | 1                 | noise floor                  |
| 10300.000     | 46.5               | 35.7 | 46.5                 | 35.7 | 11.4     | 57.9                  | 47.1 | 74                     | 54 | -16.1          | -8.9  | 1                 | noise floor                  |
| 12016.666     | 45.9               | 35.0 | 45.8                 | 35.0 | 12.7     | 58.6                  | 47.7 | 74                     | 54 | -15.4          | -6.3  | 1                 | noise floor                  |
| 13733.333     | 37.7               | 29.5 | 37.9                 | 29.4 | 14.6     | 52.5                  | 44.1 | 74                     | 54 | -21.5          | -9.9  | 1                 | res bw = 100 kHz noise floor |
| 15449.999     | 39.1               | 29.3 | 40.7                 | 29.1 | 15.6     | 56.3                  | 44.9 | 74                     | 54 | -17.7          | -9.1  | 1                 | res bw = 100 kHz noise floor |
| 17166.666     | 33.4               | 23.9 | 34.6                 | 23.8 | 20.9     | 55.5                  | 44.8 | 74                     | 54 | -18.5          | -9.2  | 1                 | res bw = 30 kHz noise floor  |
| 1742.222      | 45.1               | 34.0 | 44.8                 | 34.0 | -9.0     | 36.1                  | 25.0 | 74                     | 54 | -37.9          | -29.0 | 1                 | noise floor                  |
| 3484.444      | 45.1               | 33.9 | 44.8                 | 33.9 | -0.9     | 44.2                  | 33.0 | 74                     | 54 | -29.8          | -21.0 | 1                 | noise floor                  |
| 5226.667      | 44.1               | 33.3 | 43.8                 | 33.4 | 2.0      | 46.1                  | 35.4 | 74                     | 54 | -27.9          | -18.6 | 1                 | noise floor                  |
| 6968.889      | 47.2               | 35.8 | 46.3                 | 35.8 | 7.2      | 54.4                  | 43.0 | 74                     | 54 | -19.6          | -11.0 | 1                 | noise floor                  |
| 8711.111      | 47.4               | 36.4 | 47.2                 | 36.3 | 9.3      | 56.7                  | 45.7 | 74                     | 54 | -17.3          | -8.3  | 1                 | noise floor                  |
| 10453.333     | 46.5               | 35.9 | 46.5                 | 35.9 | 11.9     | 58.4                  | 47.8 | 74                     | 54 | -15.6          | -6.2  | 1                 | noise floor                  |
| 12195.555     | 45.6               | 34.5 | 45.8                 | 34.5 | 13.1     | 58.9                  | 47.6 | 74                     | 54 | -15.1          | -6.4  | 1                 | noise floor                  |
| 13937.778     | 36.9               | 29.0 | 36.1                 | 29.0 | 13.8     | 51.9                  | 42.8 | 74                     | 54 | -22.1          | -11.2 | 1                 | res bw = 100 kHz noise floor |
| 15680.000     | 38.8               | 28.9 | 37.3                 | 28.8 | 15.5     | 54.3                  | 44.4 | 74                     | 54 | -19.7          | -9.6  | 1                 | res bw = 100 kHz noise floor |
| 17422.222     | 30.4               | 23.2 | 33.1                 | 23.0 | 21.9     | 55.0                  | 45.1 | 74                     | 54 | -19.0          | -8.9  | 1                 | res bw = 30 kHz noise floor  |
| 1767.777      | 45.1               | 33.8 | 44.5                 | 33.8 | -8.9     | 36.2                  | 24.9 | 74                     | 54 | -37.8          | -29.1 | 1                 | noise floor                  |
| 3535.554      | 45.2               | 34.1 | 44.9                 | 34.0 | -0.8     | 44.4                  | 33.3 | 74                     | 54 | -29.6          | -20.7 | 1                 | noise floor                  |
| 5303.331      | 38.4               | 32.7 | 42.6                 | 32.6 | 2.4      | 45.0                  | 35.1 | 74                     | 54 | -29.0          | -18.9 | 1                 | noise floor                  |
| 7071.108      | 47.2               | 35.9 | 47.5                 | 36.0 | 7.4      | 54.9                  | 43.4 | 74                     | 54 | -19.1          | -10.6 | 1                 | noise floor                  |
| 8836.885      | 46.8               | 36.4 | 47.2                 | 36.5 | 9.6      | 56.8                  | 46.1 | 74                     | 54 | -17.2          | -7.9  | 1                 | noise floor                  |
| 10606.862     | 46.3               | 35.5 | 46.5                 | 35.5 | 12.2     | 58.7                  | 47.7 | 74                     | 54 | -15.3          | -6.3  | 1                 | noise floor                  |
| 12374.439     | 45.7               | 34.6 | 46.5                 | 34.6 | 13.7     | 59.1                  | 48.0 | 74                     | 54 | -14.9          | -6.0  | 1                 | noise floor                  |
| 14142.216     | 39.5               | 29.1 | 39.4                 | 29.8 | 13.7     | 53.2                  | 43.5 | 74                     | 54 | -20.8          | -10.5 | 1                 | res bw = 100 kHz noise floor |
| 15909.993     | 39.3               | 29.1 | 39.0                 | 29.2 | 15.4     | 54.7                  | 44.6 | 74                     | 54 | -19.3          | -9.4  | 1                 | res bw = 100 kHz noise floor |
| 17677.77      | 33.7               | 23.2 | 33.5                 | 23.3 | 23.3     | 57.0                  | 46.6 | 74                     | 54 | -17.0          | -7.4  | 1                 | res bw = 30 kHz noise floor  |

REPORT No: SC402509 TESTER: Alan Laudani SPEC: FCC Part 15 para 15.209(a)  
 CUSTOMER: Kyocera Wireless Corporation TEST DIST: 3 Meters  
 EUT: K7LE Trimode Color Energi Roof  
 "K494LC" sn 7A-X---0W9LTF TEST SITE:  
 EUT MODE: Transmit PCS & Synth BICONICAL: N/A  
 DATE: May 27, 2004 LOG: N/A  
 NOTES: Temp: 18°C RH 60% OTHER: 453  
 above 1GHz: RBW & VBW 1 MHz for Pk; RBW 1MHz and VBW 10Hz for AVG

CF = Antenna Factor + Cable Loss - Preamp/Gain **1.006 MHz** **1.006 MHz** **1.006 MHz**

| FREQ<br>(MHz) | VERTICAL<br>(dBuV) |      | HORIZONTAL<br>(dBuV) |      | CF (dB/m) |      | MAX LEVEL<br>(dBuV/m) |    | SPEC LIMIT<br>(dBuV/m) |       | MARGIN<br>(dB) |     | Antenna<br>Height | Notes                        |
|---------------|--------------------|------|----------------------|------|-----------|------|-----------------------|----|------------------------|-------|----------------|-----|-------------------|------------------------------|
|               | pk                 | av   | pk                   | av   | pk        | av   | pk                    | av | pk                     | av    | pk             | av  |                   |                              |
| 1481          | 46.6               | 35.5 | 46.2                 | 35.5 | -10.8     | 35.8 | 24.7                  | 74 | 54                     | -38.2 | -29.3          |     | 1                 | noise floor                  |
| 2962          | 45.3               | 34.2 | 45.0                 | 34.2 | -2.8      | 42.5 | 31.4                  | 74 | 54                     | -31.5 | -22.6          |     | 1                 | noise floor                  |
| 4443          | 46.1               | 33.9 | 45.9                 | 34.5 | -1.6      | 44.5 | 32.9                  | 74 | 54                     | -29.5 | -21.1          |     | 1                 | noise floor                  |
| 5924          | 48.3               | 36.9 | 48.1                 | 36.9 | 5.5       | 53.8 | 42.4                  | 74 | 54                     | -20.2 | -11.6          |     | 1                 | noise floor                  |
| 7405          | 47.6               | 37.0 | 47.8                 | 35.8 | 7.8       | 55.6 | 44.8                  | 74 | 54                     | -18.4 | -9.2           |     | 1                 | noise floor                  |
| 8886          | 47.2               | 36.4 | 47.6                 | 36.5 | 9.7       | 57.3 | 46.2                  | 74 | 54                     | -16.7 | -7.8           |     | 1                 | noise floor                  |
| 10367         | 46.3               | 35.5 | 46.4                 | 35.5 | 11.6      | 58.0 | 47.1                  | 74 | 54                     | -16.0 | -6.9           |     | 1                 | noise floor                  |
| 11848         | 45.6               | 35.0 | 46.3                 | 34.9 | 12.8      | 59.1 | 47.8                  | 74 | 54                     | -14.9 | -6.2           |     | 1                 | noise floor                  |
| 13329         | 40.4               | 29.0 | 39.0                 | 29.0 | 14.5      | 54.9 | 43.5                  | 74 | 54                     | -19.1 | -10.5          |     | 1                 | res bw = 100 kHz noise floor |
| 14810         | 38.0               | 28.6 | 38.6                 | 28.6 | 15.2      | 53.8 | 43.8                  | 74 | 54                     | -20.2 | -10.2          |     | 1                 | res bw = 100 kHz noise floor |
| 1504          | 47.2               | 35.9 | 47.0                 | 35.9 | -10.6     | 36.6 | 25.3                  | 74 | 54                     | -37.4 | -28.7          |     | 1                 | noise floor                  |
| 3008          | 46.7               | 34.9 | 46.4                 | 34.9 | -2.6      | 44.1 | 32.3                  | 74 | 54                     | -29.9 | -21.7          |     | 1                 | noise floor                  |
| 4512          | 46.9               | 35.3 | 46.1                 | 35.3 | -1.7      | 45.2 | 33.6                  | 74 | 54                     | -28.8 | -20.4          |     | 1                 | noise floor                  |
| 6016          | 47.3               | 35.3 | 46.0                 | 35.3 | 5.8       | 53.1 | 41.1                  | 74 | 54                     | -20.9 | -12.9          |     | 1                 | noise floor                  |
| 7520          | 49.6               | 39.8 | 48.9                 | 38.7 | 7.9       | 57.5 | 47.7                  | 74 | 54                     | -16.5 | -6.3           | 169 | 1.4               | noise floor                  |
| 9024          | 47.7               | 36.4 | 47.5                 | 36.4 | 10.0      | 57.7 | 46.4                  | 74 | 54                     | -16.3 | -7.6           |     | 1                 | noise floor                  |
| 10528         | 31.0               | 26.3 | 36.8                 | 26.4 | 12.1      | 48.9 | 38.5                  | 74 | 54                     | -25.1 | -15.5          |     | 1                 | res bw = 100 kHz noise floor |
| 12032         | 35.4               | 25.3 | 36.4                 | 25.5 | 12.8      | 49.2 | 38.3                  | 74 | 54                     | -24.8 | -15.7          |     | 1                 | res bw = 100 kHz noise floor |
| 13536         | 36.2               | 24.8 | 34.4                 | 24.8 | 15.4      | 51.6 | 40.2                  | 74 | 54                     | -22.4 | -13.8          |     | 1                 | res bw = 100 kHz noise floor |
| 15040         | 38.2               | 28.6 | 38.7                 | 28.5 | 15.8      | 54.5 | 44.4                  | 74 | 54                     | -19.5 | -9.6           |     | 1                 | res bw = 100 kHz noise floor |
| 1527          | 46.7               | 35.5 | 46.5                 | 35.5 | -10.4     | 36.3 | 25.1                  | 74 | 54                     | -37.7 | -28.9          |     | 1                 | noise floor                  |
| 3054          | 45.7               | 34.4 | 45.7                 | 34.4 | -2.4      | 43.3 | 32.0                  | 74 | 54                     | -30.7 | -22.0          |     | 1                 | noise floor                  |
| 4581          | 45.6               | 34.9 | 46.0                 | 35.0 | -1.4      | 44.6 | 33.6                  | 74 | 54                     | -29.4 | -20.4          |     | 1                 | noise floor                  |
| 6108          | 48.3               | 37.0 | 48                   | 37.1 | 5.9       | 54.2 | 43.0                  | 74 | 54                     | -19.8 | -11.0          |     | 1                 | noise floor                  |
| 7635          | 51.8               | 41.2 | 48.8                 | 37.5 | 8.0       | 59.8 | 49.2                  | 74 | 54                     | -14.2 | -4.8           | 190 | 1                 | noise floor                  |
| 9162          | 47.2               | 36.6 | 47.6                 | 36.6 | 9.7       | 57.3 | 46.3                  | 74 | 54                     | -16.7 | -7.7           |     | 1                 | noise floor                  |
| 10689         | 46.6               | 35.5 | 46.3                 | 35.5 | 12.4      | 59.0 | 47.9                  | 74 | 54                     | -15.0 | -6.1           |     | 1                 | noise floor                  |
| 12216         | 45.0               | 34.5 | 45.6                 | 34.5 | 13.1      | 58.7 | 47.6                  | 74 | 54                     | -15.3 | -6.4           |     | 1                 | noise floor                  |
| 13743         | 38.1               | 29.0 | 37.9                 | 29.0 | 14.6      | 52.7 | 43.6                  | 74 | 54                     | -21.3 | -10.4          |     | 1                 | res bw = 100 kHz noise floor |
| 15270         | 38.4               | 28.6 | 38.3                 | 28.5 | 15.7      | 54.1 | 44.3                  | 74 | 54                     | -19.9 | -9.7           |     | 1                 | res bw = 100 kHz noise floor |

REPORT No. SC402509      TESTER: Alan Laudani      SPEC: FCC Part 24 para 24.238(a)

CUSTOMER: Kyocera Wireless Corporation      TEST DIST: 3 Meters

E U T: K7LE Trimode Color Energi "K494LC" sn 7A-X-0W9LTF      TEST SITE: Roof

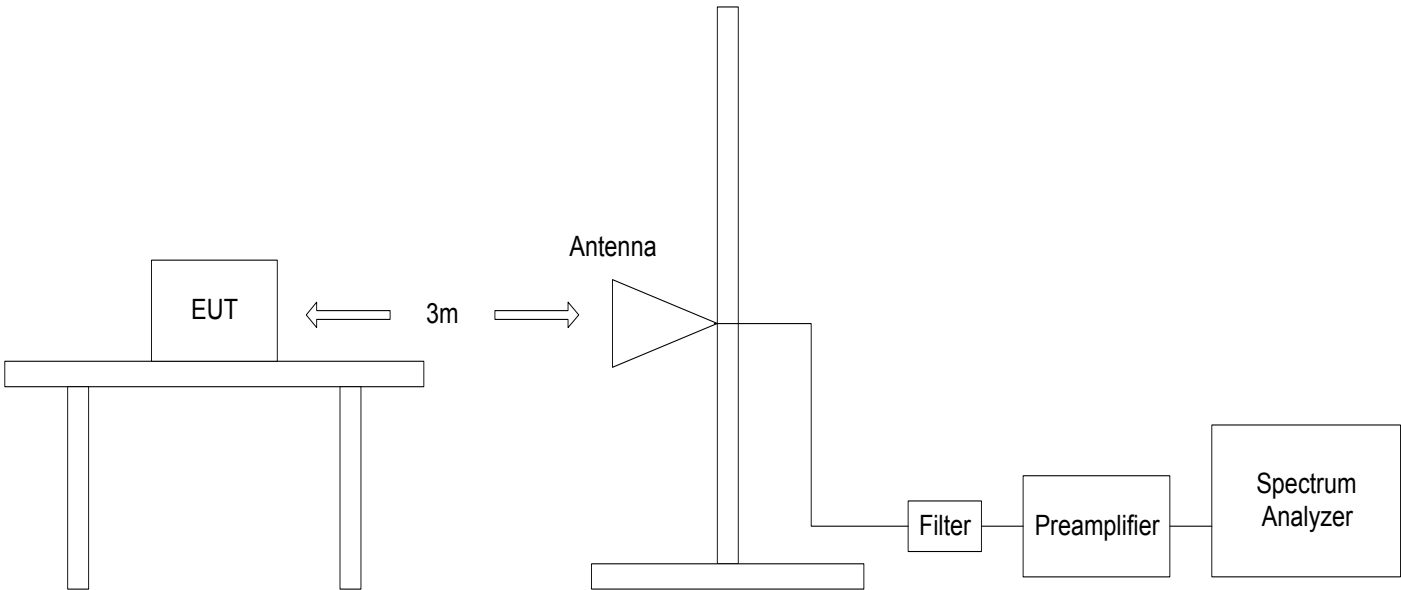
EUT MODE: Transmit PCS tx harmonics      BICONICAL: N/A

DATE: May 26, 2004      EIRP Factor: 5.5      LOG: N/A

NOTES: Temp. 19°C, RH = 60 %      HORN: 453

| Part 24 - RBW 1 MHz                                                        |                    |                      |              |                    |                     |                |              |                |                              |
|----------------------------------------------------------------------------|--------------------|----------------------|--------------|--------------------|---------------------|----------------|--------------|----------------|------------------------------|
| CF = Antenna Factor + Cable Loss - Pre-amplifier Gain      2000 MHz Filter |                    |                      |              |                    |                     |                |              |                |                              |
| FREQ (MHz)                                                                 | VERTICAL (dBuv) pk | HORIZONTAL (dBuv) pk | CF (dB/m) pk | MAX LEVEL (dBm) pk | SPEC LIMIT (dBm) pk | MARGIN (dB) pk | EUT Rotation | Antenna Height | Notes                        |
| 1851.25                                                                    |                    |                      |              |                    |                     |                |              |                | Fundamental (Low Band)       |
| 3702.50                                                                    | 49.3               | 48.1                 | -0.5         | -46.5              | -13.0               | -33.5          | 104          | 1.1            |                              |
| 5553.75                                                                    | 45.2               | 44.7                 | 3.9          | -46.1              | -13.0               | -33.1          | 180          | 1              |                              |
| 7405.00                                                                    | 46.8               | 48.1                 | 7.8          | -39.4              | -13.0               | -26.4          | 100          | 1              |                              |
| 9256.25                                                                    | 47.8               | 48.4                 | 9.5          | -37.4              | -13.0               | -24.4          |              | 1              | noise floor                  |
| 11107.50                                                                   | 46.4               | 45.2                 | 13.1         | -35.8              | -13.0               | -22.8          |              | 1              | noise floor                  |
| 12958.75                                                                   | 50.2               | 50.0                 | 12.5         | -32.6              | -13.0               | -19.6          |              | 1              | noise floor                  |
| 14810.00                                                                   | 49.3               | 49.4                 | 15.2         | -30.6              | -13.0               | -17.6          |              | 1              | noise floor                  |
| 16661.25                                                                   | 50.4               | 49.9                 | 18.2         | -26.7              | -13.0               | -13.7          |              | 1              | noise floor                  |
| 18512.50                                                                   | 49.6               | 49.2                 | 21.1         | -24.6              | -13.0               | -11.6          |              | 1              | noise floor                  |
| 1880                                                                       |                    |                      |              |                    |                     |                |              |                | Fundamental (Mid Band)       |
| 3760                                                                       | 50.3               | 48.6                 | -0.4         | -45.4              | -13.0               | -32.4          | 128          | 1.1            |                              |
| 5640                                                                       | 43.4               | 42.7                 | 4.3          | -47.6              | -13.0               | -34.6          | 110          | 1              |                              |
| 7520                                                                       | 49.9               | 48.0                 | 7.9          | -37.4              | -13.0               | -24.4          |              |                |                              |
| 9400                                                                       | 47.4               | 47.0                 | 9.2          | -38.7              | -13.0               | -25.7          |              | 1              | noise floor                  |
| 11280                                                                      | 46.0               | 46.3                 | 13.0         | -35.9              | -13.0               | -22.9          |              | 1              | noise floor                  |
| 13160                                                                      | 50.6               | 49.9                 | 13.4         | -31.2              | -13.0               | -18.2          |              | 1              | noise floor                  |
| 15040                                                                      | 50.1               | 49.9                 | 15.8         | -29.4              | -13.0               | -16.4          |              | 1              | noise floor                  |
| 16920                                                                      | 50.1               | 49.1                 | 19.7         | -25.4              | -13.0               | -12.4          |              | 1              | noise floor                  |
| 18800                                                                      | 51.8               | 52.2                 | 23.7         | -19.4              | -13.0               | -6.4           |              | 1              | noise floor                  |
| 1908.75                                                                    |                    |                      |              |                    |                     |                |              |                | Fundamental (High Band)      |
| 3817.50                                                                    | 53.1               | 48.3                 | -0.4         | -42.5              | -13.0               | -29.5          | 141          | 1.1            |                              |
| 5726.25                                                                    | 45.8               | 45                   | 4.7          | -44.8              | -13.0               | -31.8          | 221          | 1.1            |                              |
| 7635.00                                                                    | 54.0               | 52.8                 | 8.0          | -33.2              | -13.0               | -20.2          | 223          | 1              |                              |
| 9543.75                                                                    | 47.3               | 47.9                 | 9.1          | -38.2              | -13.0               | -25.2          |              | 1              | noise floor                  |
| 11452.50                                                                   | 45.0               | 45.8                 | 13.0         | -36.5              | -13.0               | -23.5          |              | 1              | noise floor                  |
| 13361.25                                                                   | 49.9               | 50.3                 | 14.7         | -30.3              | -13.0               | -17.3          |              | 1              | noise floor                  |
| 15270.00                                                                   | 49.8               | 49.8                 | 15.7         | -29.8              | -13.0               | -16.8          |              | 1              | noise floor                  |
| 17176.75                                                                   | 50.0               | 49.0                 | 20.9         | -24.3              | -13.0               | -11.3          |              | 1              | noise floor                  |
| 19087.50                                                                   | 38.7               | 40.0                 | 26.1         | -29.1              | -13.0               | -16.1          |              | 1              | res bw 100 kHz - noise floor |

**Test Setup for Spurious Radiated Emissions**



Photograph of Test Setup



Photograph of Test Setup



## **Appendix**

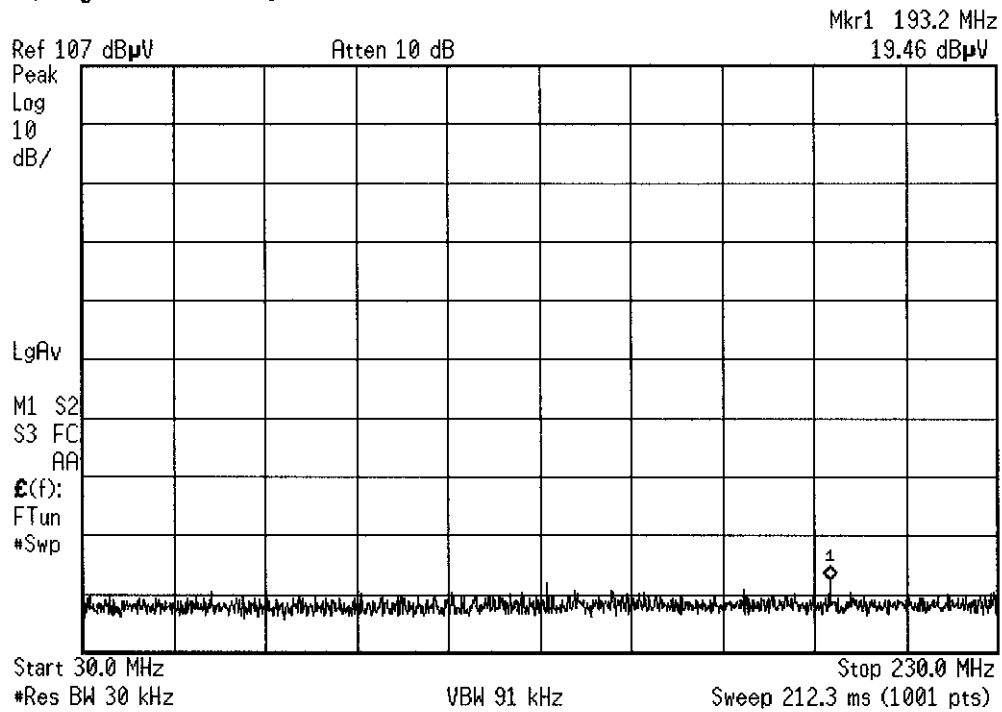
### **Supplemental Information**

**TÜV**  
**PRODUCT SERVICE**

[illegible]

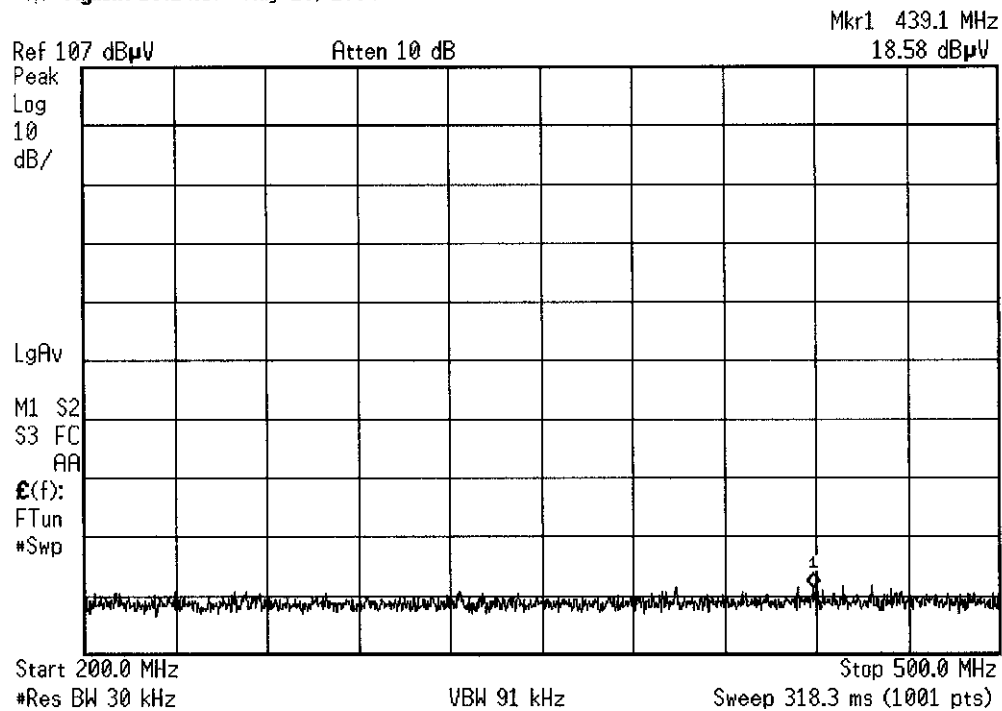
NOTES: 1. 30-1000 MHz Scanned  
2. \_\_\_\_\_

\* Agilent 13:25:16 May 26, 2004



K7LE Energy  
CDMA  
"K494LC"

✱ Agilent 13:24:57 May 26, 2004

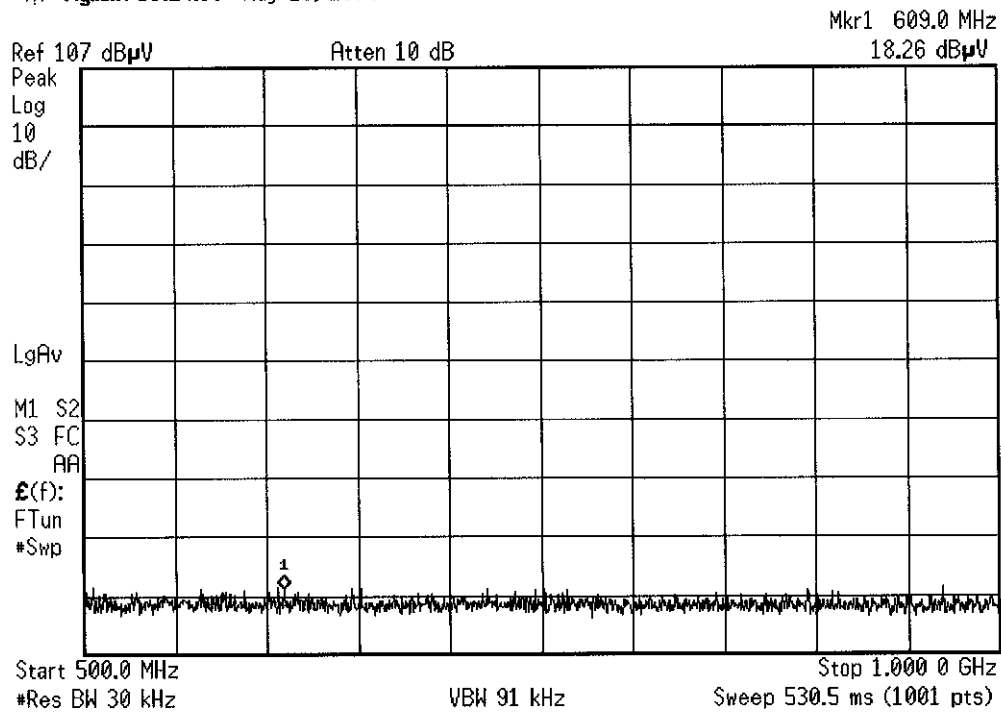


*K7LE Energy*

*CDMA*

*"K494LC"*

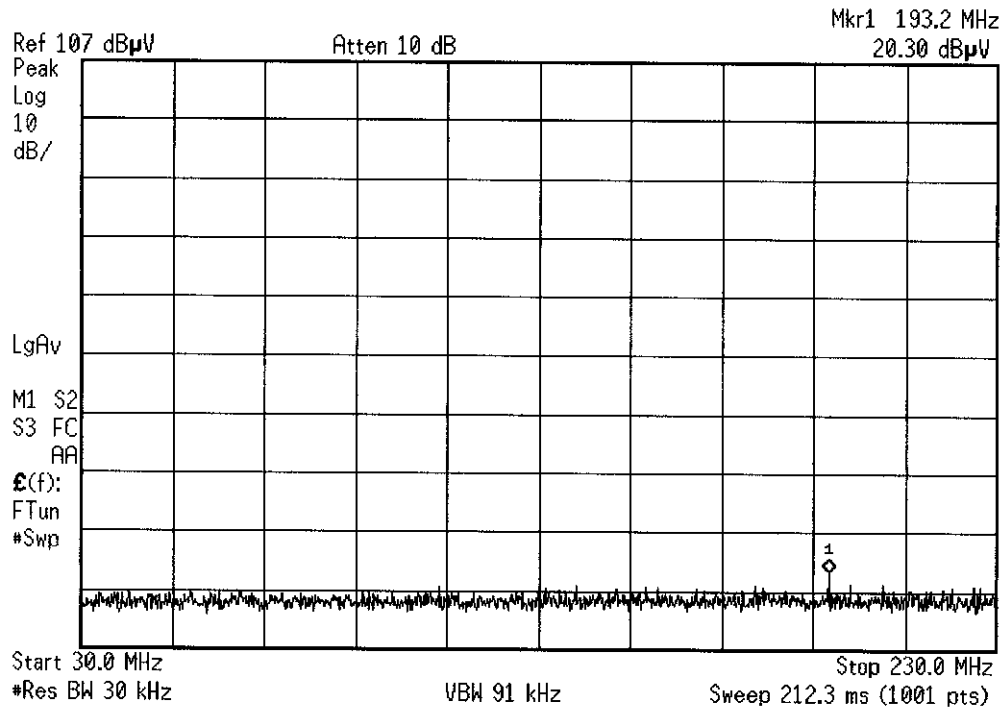
\* Agilent 13:24:36 May 26, 2004



*K7LE Energy*  
*CDMA*

*'K494LC'*

✱ Agilent 13:27:10 May 26, 2004

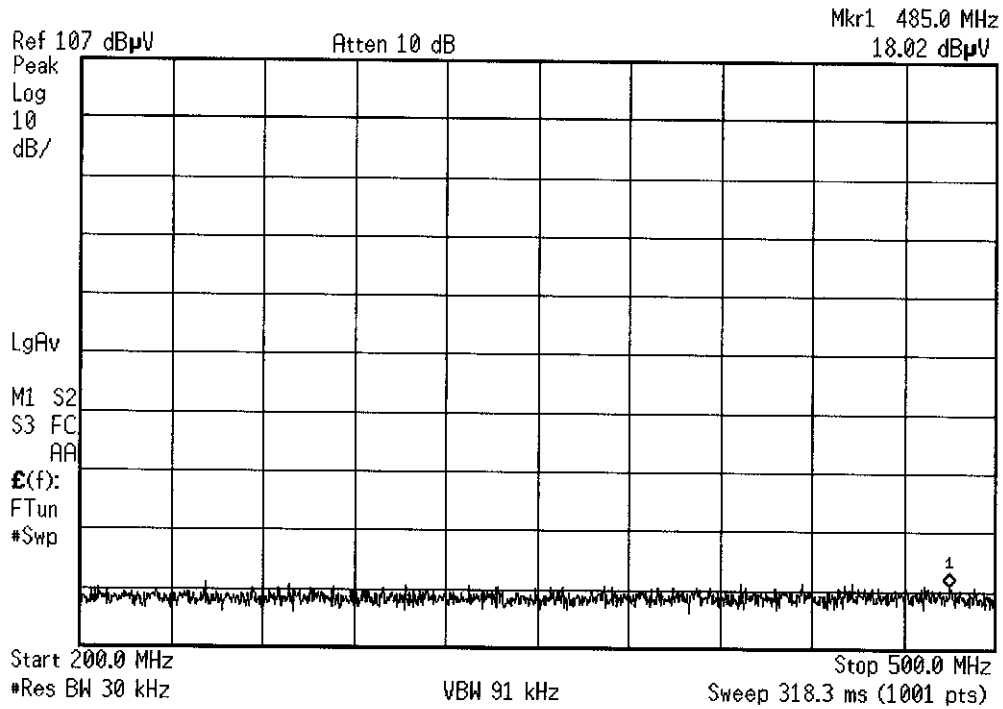


*K7LE Energy*

*FM*

*"K494LE"*

\* Agilent 13:27:30 May 26, 2004

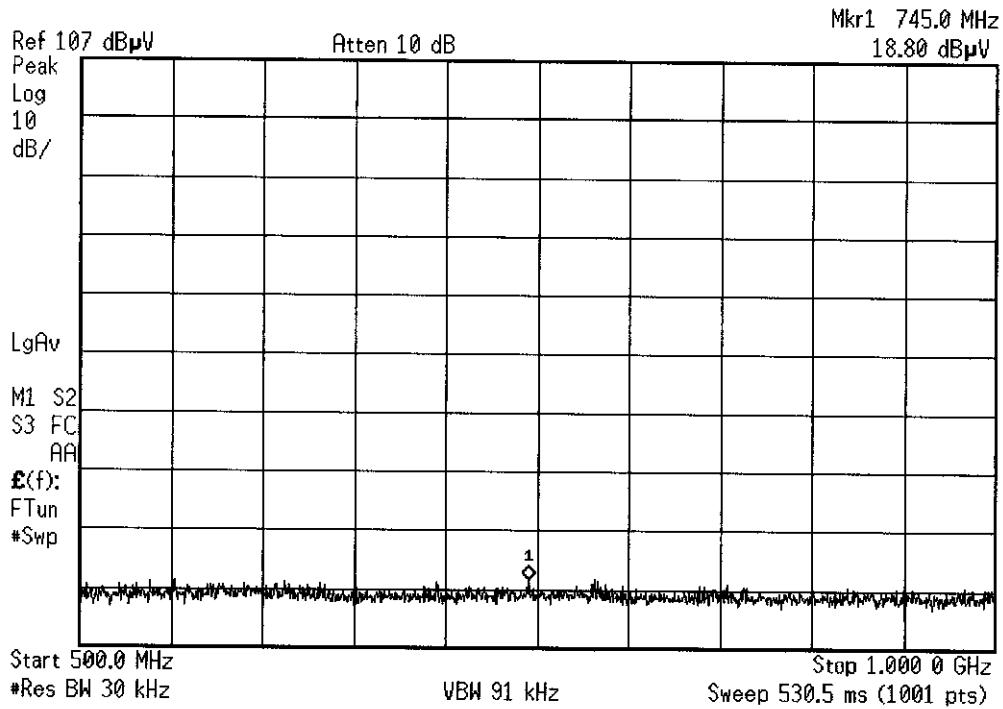


K7LE Energy

FM

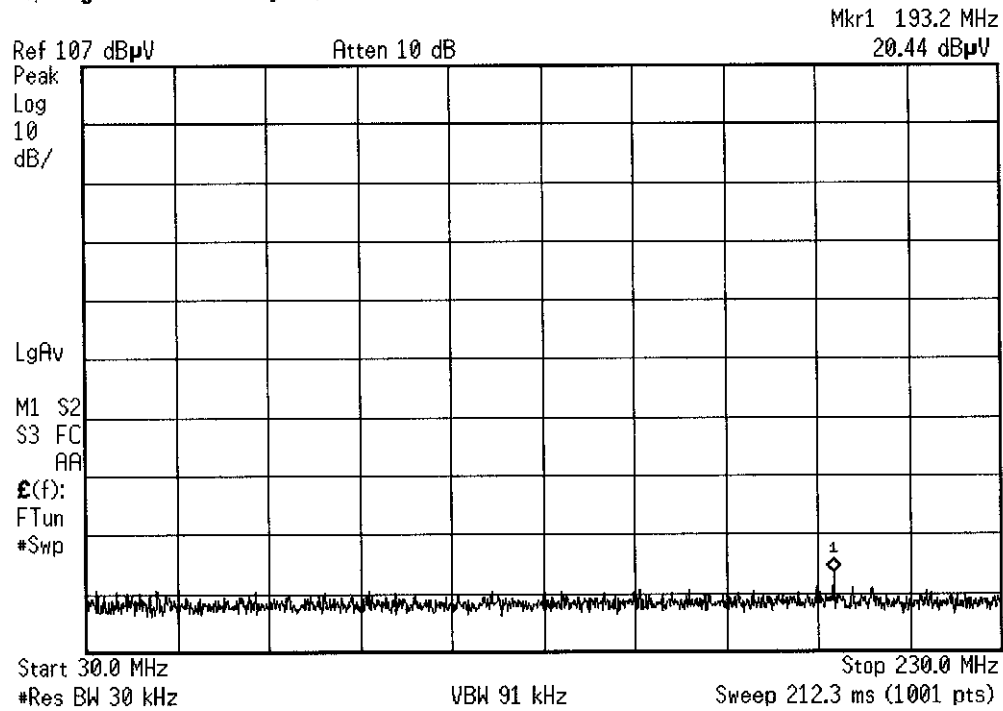
"K494LC"

\* Agilent 13:27:47 May 26, 2004



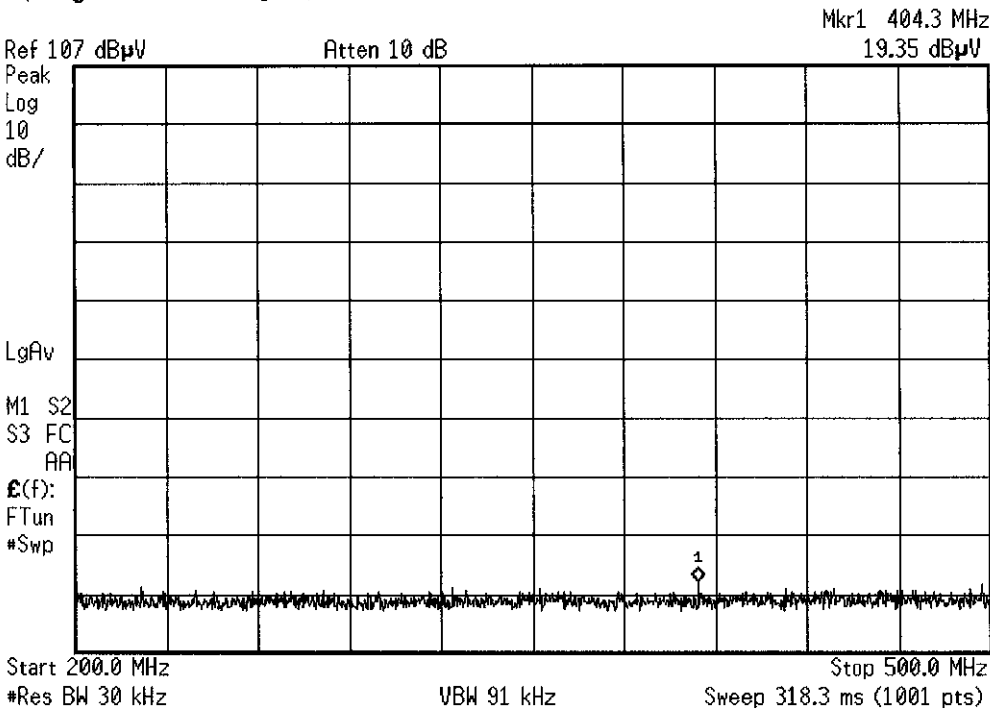
K7LE Energy  
FM  
"K494 LC"

\* Agilent 13:20:37 May 26, 2004

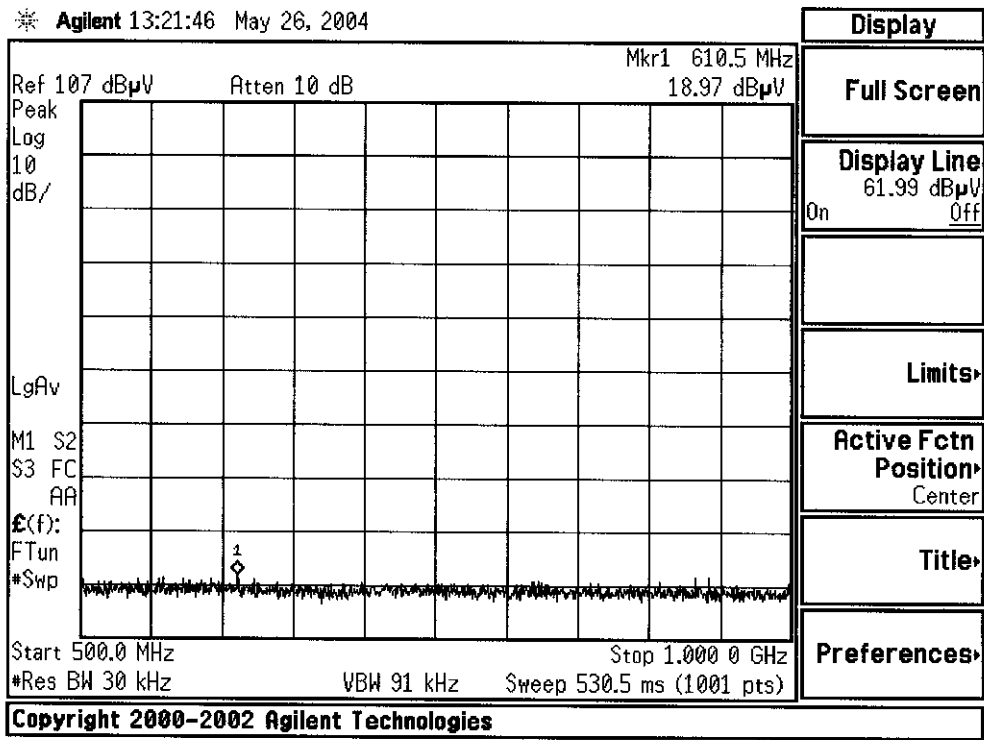


K7LE Energy  
PCS  
"K494LC"

\* Agilent 13:21:26 May 26, 2004



*K7LE Energy*  
*PCS*  
*"K494LC"*



K7LE Energy  
PCS  
"K494 LC"