

**Exhibit 17**

**SECTION 2.1055 MEASUREMENT OF FREQUENCY STABILITY**

**RESPONSE:**

The following frequency stability test data for the **BCR/ AS5CMP-24** was measured as installed and tested, per Figure 17A (at end of tables), in an **AUTOPLEX**® Compact 850 CDMA Outdoor Minicell. The entire Compact 850 CDMA Minicell was subjected to the FCC specified environments while operating at full rated power. The evaluation was performed on four **BCR**'s. The **BCR**'s represented two samples of each specific agile synthesizer circuit.

The following list the BCR Serial Numbers and their corresponding agile synthesizers:

BCR #	BCR Serial Number	Agile Synthesizer Type
3	99CB05441512	M/A Com
4	99CB05451506	M/A Com
6	99CB05440708	Panasonic
8	99CB06452106	Panasonic

The BCR was tested in an Outdoor 850 CDMA Compact Minicell. The testing was performed in the Whippany Design Verification Test Laboratory by Tamala Jamieson-Harley under the direction of W.S. Majkowski.

Both carrier center frequency and reference oscillator deviations were measured. The FCC specified voltage variance was applied to the DC input of the Compact 850 CDMA Minicell.

**RESULTS:**

The measured data below is the FCC Frequency Stability Test Results for the **BCR**, 44WR1 version 2:14, **FCC ID: AS5CMP-24**

This system exceeds the frequency stability requirements necessary for **AUTOPLEX**® system compliance with FCC Rules for frequency stability. These devices are also compliant with FCC Part 2, 22 and 15 rules when powered by and installed in a Lucent Technologies Inc. **AUTOPLEX**® Series II Frame

The frequency stability performance for the **BCR / FCC ID AS5CMP-24** when operated with a RFTG and integrated into an **AUTOPLEX**® Cellular equipment is compliant with FCC requirements. The data provided below documents that the worst case frequency stability over temperature and voltage was 0.0013 and 0.015 ppm respectively. The average stability over temperature was 0.00129 ppm and the standard deviation was 0.0068 ppm.

### Exhibit 17

The data below is a summary of the data from the tables which follow.

BCR ID	BCR Serial Number	Agile Synthesizer Type	Over Temp Maximum Frequency delta, ppm	Over Temp Average Frequency Delta, ppm	Over Temp Frequency Stn Dev, ppm	85% Vin Maximum Frequency delta, ppm	115% Vin Maximum Frequency delta, ppm
<b>BCR #3</b>	99CB05441512	M/A Com	<b>0.01172</b>	<b>0.00068</b>	<b>0.00441</b>	<b>0.01298</b>	<b>0.01172</b>
<b>BCR #4</b>	99CB05451506	M/A Com	<b>0.01195</b>	<b>0.00068</b>	<b>0.00441</b>	<b>0.01412</b>	<b>0.00694</b>
<b>BCR #6</b>	99CB05440708	Panasonic	<b>0.01548</b>	<b>0.00123</b>	<b>0.00687</b>	<b>0.00171</b>	<b>0.00899</b>
<b>BCR #8</b>	99CB06452106	Panasonic	<b>0.01400</b>	<b>0.00129</b>	<b>0.00601</b>	<b>0.01184</b>	<b>0.01229</b>

### Tables of Test Results

#### BCR #3

Cellular Tested: Cellular Channel 283, 878.49MHz BCR #3 S/N 99CB05441512

#### Baseline Measurement

Reference and Transmit Frequency Deviation From GPS at 25°C at 100% STV, 24VDC		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	1.7
0.5	.28	0.6
1	.26	-0.4
1.5	.27	0.0
2	.27	0.7
2.5	.27	1.0
3	.27	1.8
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level at 24VDC = 44.36 dBm

The BCR Transmit power level at 24 VDC = -0.29 dBm

**BCR #3**

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 85%STV, 20.4VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	0.6
0.5	.26	0.0
1	.27	-0.3
1.5	.27	0.7
2	.27	-0.5
2.5	.26	-1.4
3	.27	-0.4
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 24VDC = 1.07 dB

The BCR Transmit power level deviation from 24VDC = 0.01 dB

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 115%STV, 27.6VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-4.8
0.5	.27	-1.9
1	.27	-2.2
1.5	.28	0.1
2	.27	-3.8
2.5	.28	0.0
3	.27	1.3
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 24VDC = 0.2 dB

The BCR Transmit power level deviation from 24VDC = 0.03 dB

**BCR #3**

Cellular Tested: Cellular Channel 283, 878.49MHz BCR #3 S/N 99CB05441512

<b>Reference and Transmit Frequency Deviation From GPS at -30°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	5.2
0.5	.27	2.2
1	.27	-1.3
1.5	.27	-0.2
2	.27	1.5
2.5	.27	1.2
3	.26	0.4
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 MHz (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.37 dB

The BCR Transmit power level deviation from 25°C = 0.01 dB

<b>Reference and Transmit Frequency Deviation From GPS at -20°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-0.7
0.5	.27	-5.7
1	.27	6.1
1.5	.27	-2.8
2	.27	-2.5
2.5	.27	0.8
3	.27	1.0
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.27 dB

The BCR Transmit power level deviation from 25°C = 0.13 dB

<b>Reference and Transmit Frequency Deviation From GPS at -10°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-6.2
0.5	.27	-8.4
1	.27	-1.7
1.5	.28	-3.9
2	.27	6.6
2.5	.27	-1.8
3	.27	-2.7
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.39 dB

The BCR Transmit power level deviation from 25°C = 0.12 dB

**BCR #3**

Cellular Tested: Cellular Channel 283, 878.49MHz BCR #3 S/N 99CB05441512

<b>Reference and Transmit Frequency Deviation From GPS at 0°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	0.7
0.5	.27	-1.9
1	.27	-3.3
1.5	.27	2.5
2	.27	-3.2
2.5	.27	-3.1
3	.27	4.4
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.25 dB

The BCR Transmit power level deviation from 25°C = 0.19 dB

<b>Reference and Transmit Frequency Deviation From GPS at +10°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-6.1
0.5	.27	-0.2
1	.28	4.2
1.5	.27	-0.9
2	.27	-2.5
2.5	.27	2.8
3	.27	-5.1
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.21 dB

The BCR Transmit power level deviation from 25°C = 0.30 dB

<b>Reference and Transmit Frequency Deviation From GPS at +20°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.28	1.5
0.5	.27	-0.7
1	.28	4.9
1.5	.27	5.0
2	.27	0.5
2.5	.27	-1.4
3	.27	-4.0
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.04 dB

The BCR Transmit power level deviation from 25°C = 0.39 dB

**BCR #3**

Cellular Tested: Cellular Channel 283, 878.49MHz BCR #3 S/N 99CB05441512

<b>Reference and Transmit Frequency Deviation From GPS at +30°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-3.1
0.5	.28	0.6
1	.28	5.5
1.5	.27	3.9
2	.27	7.0
2.5	.27	5.6
3	.27	-1.1
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.03 dB

The BCR Transmit power level deviation from 25°C = 0.40 dB

<b>Reference and Transmit Frequency Deviation From GPS at +40°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	6.4
0.5	.28	7.2
1	.27	2.5
1.5	.27	-4.6
2	.27	0.8
2.5	.27	10.3
3	.28	-0.3
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.19 dB

The BCR Transmit power level deviation from 25°C = 0.15 dB

<b>Reference and Transmit Frequency Deviation From GPS at +50°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation. from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-1.5
0.5	.26	3.7
1	.27	2.6
1.5	.27	0.0
2	.27	4.6
2.5	.27	8.2
3	.27	-4.4
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.71 dB

The BCR Transmit power level deviation from 25°C = 0.04 dB

**BCR #3**

Returned to 25°C and reset cell.

Cellular Tested: Cellular Channel 283, 878.49MHz

BCR #3 S/N 99CB05441512

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 100%STV, 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	0.03	6.3
0.5	0.02	3.5
1	0.03	9.6
1.5	0.03	-5.5
2	0.01	1.8
2.5	0.02	-1.2
3	0.02	2.6
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from Baseline 24VDC= 0.21 dB

The BCR Transmit power level deviation from Baseline 24VDC= 0.49 dB

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 85%STV, 20.4VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	0.02	-0.7
0.5	0.02	5.4
1	0.01	5.2
1.5	0.02	10.3
2	0.03	-2.4
2.5	0.03	4.4
3	0.02	1.7
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from Baseline 24.0VDC = 1.16 dB

The BCR Transmit power level deviation from Baseline 24.0VDC = 0.45 dB

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 115%STV, 27.6VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	0.03	2.6
0.5	0.04	-2.4
1	0.03	0.8
1.5	0.03	5.0
2	0.03	-9.8
2.5	0.04	9.5
3	0.02	11.4
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from Baseline 24.0VDC = 0.17 dB

The BCR Transmit power level deviation from Baseline 24.0VDC = 0.42 dB

**BCR #4**

Cellular Tested: Cellular Channel 283, 878.49MHz BCR # 4 S/N 99CB05451506

Baseline Measurement

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 100% STV, 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-1.3
0.5	.28	0.1
1	.26	1.7
1.5	.27	0.9
2	.27	-0.1
2.5	.27	1.6
3	.27	0.7
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level at 24VDC = 44.09 dBm

The BCR Transmit power level at 24 VDC = -0.07 dBm

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 85%STV, 20.4VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-0.9
0.5	.26	-1.5
1	.27	-2.2
1.5	.27	-1.4
2	.27	-0.2
2.5	.26	-1.3
3	.27	0.2
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 24VDC = 1.3 dB

The BCR Transmit power level deviation from 24VDC = 0.35 dB

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 115%STV, 27.6VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	2.4
0.5	.27	-3.7
1	.27	-2.4
1.5	.28	6.3
2	.27	-3.5
2.5	.28	-4.7
3	.27	-3.2
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 24VDC = 0.35 dB

The BCR Transmit power level deviation from 24VDC = 0.05 dB



**BCR #4**

Cellular Tested: Cellular Channel 283, 878.49MHz BCR # 4 S/N 99CB05451506

<b>Reference and Transmit Frequency Deviation From GPS at -30°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation. (Hz)
0	.27	-3.7
0.5	.27	-3.6
1	.27	-1.9
1.5	.27	2.9
2	.27	3.6
2.5	.27	7.4
3	.26	-0.3
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 MHz (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.77 dB

The BCR Transmit power level deviation from 25°C = 0.16 dB

<b>Reference and Transmit Frequency Deviation From GPS at -20°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-2.7
0.5	.27	1.9
1	.27	0.0
1.5	.27	-4.6
2	.27	4.9
2.5	.27	-6.9
3	.27	-1.8
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.47 dB

The BCR Transmit power level deviation from 25°C = 0.22 dB

<b>Reference and Transmit Frequency Deviation From GPS at -10°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-1.9
0.5	.27	-0.9
1	.27	5.7
1.5	.28	6.1
2	.27	5.1
2.5	.27	4.1
3	.27	-2.5
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.15 dB

The BCR Transmit power level deviation from 25°C = 0.14 dB

**BCR #4**

Cellular Tested: Cellular Channel 283, 878.49MHz BCR # 4 S/N 99CB05451506

<b>Reference and Transmit Frequency Deviation From GPS at 0°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	2.1
0.5	.27	1.1
1	.27	-1.8
1.5	.27	-1.4
2	.27	3.4
2.5	.27	-2.5
3	.27	1.0
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.39 dB

The BCR Transmit power level deviation from 25°C = 0.27 dB

<b>Reference and Transmit Frequency Deviation From GPS at +10°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-1.8
0.5	.27	-4.5
1	.28	-1.2
1.5	.27	3.1
2	.27	2.6
2.5	.27	2.0
3	.27	-3.2
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.14 dB

The BCR Transmit power level deviation from 25°C = 0.39 dB

<b>Reference and Transmit Frequency Deviation From GPS at +20°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.28	-0.2
0.5	.27	2.4
1	.28	-1.9
1.5	.27	7.5
2	.27	-0.8
2.5	.27	-5.0
3	.27	-3.0
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.15 dB

The BCR Transmit power level deviation from 25°C = 0.38 dB

**BCR #4**

Cellular Tested: Cellular Channel 283, 878.49MHz BCR # 4 S/N 99CB05451506

<b>Reference and Transmit Frequency Deviation From GPS at +30°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	5.6
0.5	.28	-2.6
1	.28	2.2
1.5	.27	-0.8
2	.27	0.2
2.5	.27	-1.8
3	.27	7.3
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.11 dB

The BCR Transmit power level deviation from 25°C = 0.23 dB

<b>Reference and Transmit Frequency Deviation From GPS at +40°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	5.6
0.5	.28	0.1
1	.27	-2.9
1.5	.27	-3.6
2	.27	0.9
2.5	.27	-1.5
3	.28	4.5
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.08 dB

The BCR Transmit power level deviation from 25°C = 0.05 dB

<b>Reference and Transmit Frequency Deviation From GPS at +50°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation. from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	4.1
0.5	.26	3.5
1	.27	-4.7
1.5	.27	0.7
2	.27	-6.0
2.5	.27	7.4
3	.27	10.5
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.71 dB

The BCR Transmit power level deviation from 25°C = 0 dB

**BCR #4**

Returned to 25°C and reset cell.

Cellular Tested: Cellular Channel 283, 878.49MHz

BCR # 4 S/N 99CB05451506

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 100%STV, 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	0.03	5.3
0.5	0.02	-4.1
1	0.03	-0.6
1.5	0.03	3.3
2	0.01	2.5
2.5	0.02	-7.5
3	0.02	1.7
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from Baseline 24VDC= 0.33 dB

The BCR Transmit power level deviation from Baseline 24VDC= 0.39 dB

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 85%STV, 20.4VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	0.02	12.4
0.5	0.02	-7.2
1	0.01	0.7
1.5	0.02	-7.5
2	0.03	0.5
2.5	0.03	-1.6
3	0.02	5.2
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from Baseline 24.0VDC = 0.95 dB

The BCR Transmit power level deviation from Baseline 24.0VDC = 0.45 dB

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 115%STV, 27.6VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	0.03	-3.5
0.5	0.04	4.9
1	0.03	-0.5
1.5	0.03	6.1
2	0.03	-1.4
2.5	0.04	3.9
3	0.02	-2.9
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from Baseline 24.0VDC = 1.03 dB

The BCR Transmit power level deviation from Baseline 24.0VDC = 0.41 dB

**BCR #6**

Cellular Tested: Cellular Channel 283, 878.49MHz BCR #6 S/N 99CB05440708

Baseline Measurement

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 100% STV, 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-2.4
0.5	.28	-1.3
1	.26	-2.5
1.5	.27	-1.7
2	.27	0.8
2.5	.27	1.4
3	.27	2.1
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level at 24VDC = 44.28 dBm

The BCR Transmit power level at 24 VDC = 0.41 dBm

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 85%STV, 20.4VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-1.3
0.5	.26	0.4
1	.27	-1.4
1.5	.27	-2.1
2	.27	0.1
2.5	.26	1.5
3	.27	0.7
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 24VDC = 0.97 dB

The BCR Transmit power level deviation from 24VDC = 0.04 dB

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 115%STV, 27.6VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-0.4
0.5	.27	-4.5
1	.27	3.5
1.5	.28	7.9
2	.27	1.9
2.5	.28	7.0
3	.27	-1.9
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 24VDC = 0.28 dB

The BCR Transmit power level deviation from 24VDC = 0.02 dB

**BCR #6**

Cellular Tested: Cellular Channel 283, 878.49MHz

BCR #6 S/N 99CB05440708

<b>Reference and Transmit Frequency Deviation From GPS at -30°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation. (Hz)
0	.27	10.4
0.5	.27	-1.7
1	.27	3.6
1.5	.27	4.2
2	.27	0.1
2.5	.27	-3.1
3	.26	0.4
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 MHz (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.30 dB

The BCR Transmit power level deviation from 25°C = 0.0 dB

<b>Reference and Transmit Frequency Deviation From GPS at -20°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-7.3
0.5	.27	-6.9
1	.27	-1.6
1.5	.27	1.8
2	.27	-0.4
2.5	.27	4.4
3	.27	6.0
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.30 dB

The BCR Transmit power level deviation from 25°C = 0.04 dB

<b>Reference and Transmit Frequency Deviation From GPS at -10°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	5.2
0.5	.27	-0.8
1	.27	0.0
1.5	.28	4.4
2	.27	-1.9
2.5	.27	3.6
3	.27	-4.6
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.6 dB

The BCR Transmit power level deviation from 25°C = 0.34 dB

**BCR #6**

Cellular Tested: Cellular Channel 283, 878.49MHz

BCR #6 S/N 99CB05440708

<b>Reference and Transmit Frequency Deviation From GPS at 0°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-3.4
0.5	.27	1.1
1	.27	6.1
1.5	.27	-3.7
2	.27	-2.0
2.5	.27	8.1
3	.27	1.6
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.12 dB

The BCR Transmit power level deviation from 25°C = 0.02 dB

<b>Reference and Transmit Frequency Deviation From GPS at +10°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-5.3
0.5	.27	4.1
1	.28	-9.1
1.5	.27	6.5
2	.27	5.3
2.5	.27	-1.1
3	.27	9.9
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.06 dB

The BCR Transmit power level deviation from 25°C = 0.04 dB

<b>Reference and Transmit Frequency Deviation From GPS at +20°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.28	1.8
0.5	.27	7.8
1	.28	11.3
1.5	.27	-5.7
2	.27	-8.3
2.5	.27	8.2
3	.27	-10.9
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.19 dB

The BCR Transmit power level deviation from 25°C = 0.20 dB

**BCR #6**

Cellular Tested: Cellular Channel 283, 878.49MHz BCR #6 S/N 99CB05440708

<b>Reference and Transmit Frequency Deviation From GPS at +30°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-1.2
0.5	.28	8.9
1	.28	4.6
1.5	.27	9.4
2	.27	2.6
2.5	.27	12.4
3	.27	-0.8
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.05 dB

The BCR Transmit power level deviation from 25°C = 0.11 dB

<b>Reference and Transmit Frequency Deviation From GPS at +40°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	13.6
0.5	.28	-11.3
1	.27	4.6
1.5	.27	-3.8
2	.27	-4.5
2.5	.27	-6.6
3	.28	0.4
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.20 dB

The BCR Transmit power level deviation from 25°C = 0.03 dB

<b>Reference and Transmit Frequency Deviation From GPS at +50°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation. from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	1.8
0.5	.26	6.6
1	.27	-3.3
1.5	.27	-2.8
2	.27	-7.1
2.5	.27	11.0
3	.27	-4.5
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.54 dB

The BCR Transmit power level deviation from 25°C = 0.08 dB



**BCR #6**

Return to 25°C and reset cell.

Cellular Tested: Cellular Channel 283, 878.49MHz **BCR #6 S/N 99CB05440708**

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 100%STV, 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	0.03	-1.2
0.5	0.02	1.6
1	0.03	2.8
1.5	0.03	-0.4
2	0.01	6.7
2.5	0.02	-2.2
3	0.02	7.0
<b>SPECIFICATION</b>	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
<b>RESULT</b>	<b>PASSED</b>	<b>PASSED</b>

The J4 RF Transmit power level deviation from Baseline 24VDC= 0.01 dB

The BCR Transmit power level deviation from Baseline 24VDC= 0.13 dB

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 85%STV, 20.4VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	0.02	3.7
0.5	0.02	7.5
1	0.01	8.9
1.5	0.02	11.2
2	0.03	-9.3
2.5	0.03	-6.1
3	0.02	0.3
<b>SPECIFICATION</b>	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
<b>RESULT</b>	<b>PASSED</b>	<b>PASSED</b>

The J4 RF Transmit power level deviation from Baseline 24.0VDC = 0.94 dB

The BCR Transmit power level deviation from Baseline 24.0VDC = 0.17dB

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 115%STV, 27.6VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	0.03	3.5
0.5	0.04	12.1
1	0.03	1.1
1.5	0.03	15.0
2	0.03	12.4
2.5	0.04	13.3
3	0.02	-4.0
<b>SPECIFICATION</b>	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
<b>RESULT</b>	<b>PASSED</b>	<b>PASSED</b>

The J4 RF Transmit power level deviation from Baseline 24.0VDC = 0.25 dB

The BCR Transmit power level deviation from Baseline 24.0VDC = 0.15 dB

**BCR #8**

Cellular Tested: Cellular Channel 283, 878.49MHz BCR #8 S/N 99CB06452106

Baseline Measurement

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 100% STV, 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	2.1
0.5	.28	-2.9
1	.26	-0.2
1.5	.27	-1.4
2	.27	0.4
2.5	.27	1.5
3	.27	-0.5
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level at 24VDC = 44.31 dBm

The BCR Transmit power level at 24 VDC = 0.49 dBm

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 85%STV, 20.4VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	0.5
0.5	.26	-0.7
1	.27	0.1
1.5	.27	1.7
2	.27	1.4
2.5	.26	0.3
3	.27	-0.3
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 24VDC = 1.36 dB

The BCR Transmit power level deviation from 24VDC = 0.06 dB

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 115%STV, 27.6VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-3.8
0.5	.27	0.5
1	.27	4.9
1.5	.28	-2.1
2	.27	-9.1
2.5	.28	-5.7
3	.27	6.7
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 24VDC = 0.31 dB

The BCR Transmit power level deviation from 24VDC = 0.05 dB

**BCR #8**

Cellular Tested: Cellular Channel 283, 878.49MHz BCR #8 S/N 99CB06452106

<b>Reference and Transmit Frequency Deviation From GPS at -30°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation. (Hz)
0	.27	-6.9
0.5	.27	-1.6
1	.27	-7.8
1.5	.27	0.2
2	.27	3.6
2.5	.27	-7.9
3	.26	4.4
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 MHz (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.35 dB

The BCR Transmit power level deviation from 25°C = 0.17 dB

<b>Reference and Transmit Frequency Deviation From GPS at -20°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	5.9
0.5	.27	1.5
1	.27	-3.1
1.5	.27	-5.9
2	.27	-3.7
2.5	.27	-5.8
3	.27	-4.2
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.33 dB

The BCR Transmit power level deviation from 25°C = 0.25 dB

<b>Reference and Transmit Frequency Deviation From GPS at -10°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	-1.8
0.5	.27	-2.3
1	.27	-5.9
1.5	.28	1.3
2	.27	2.5
2.5	.27	5.4
3	.27	9.1
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.29 dB

The BCR Transmit power level deviation from 25°C = 0.08 dB

**BCR #8**

Cellular Tested: Cellular Channel 283, 878.49MHz BCR #8 S/N 99CB06452106

<b>Reference and Transmit Frequency Deviation From GPS at 0°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	4.9
0.5	.27	-1.4
1	.27	3.1
1.5	.27	-6.7
2	.27	-2.2
2.5	.27	-7.5
3	.27	-2.9
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.25 dB

The BCR Transmit power level deviation from 25°C = 0.22 dB

<b>Reference and Transmit Frequency Deviation From GPS at +10°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	2.2
0.5	.27	-2.6
1	.28	3.5
1.5	.27	7.7
2	.27	0.0
2.5	.27	-2.8
3	.27	0.2
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.01 dB

The BCR Transmit power level deviation from 25°C = 0.28 dB

<b>Reference and Transmit Frequency Deviation From GPS at +20°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.28	8.0
0.5	.27	6.9
1	.28	0.2
1.5	.27	5.4
2	.27	10.2
2.5	.27	3.7
3	.27	-2.5
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1 ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.15 dB

The BCR Transmit power level deviation from 25°C = 0.29 dB

**BCR #8**

Cellular Tested: Cellular Channel 283, 878.49MHz BCR #8 S/N 99CB06452106

<b>Reference and Transmit Frequency Deviation From GPS at +30°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	8.8
0.5	.28	-0.3
1	.28	2.3
1.5	.27	5.5
2	.27	11.8
2.5	.27	1.2
3	.27	6.1
SPECIFICATION	15.0000 (+/- 1 ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.31 dB

The BCR Transmit power level deviation from 25°C = 0.16 dB

<b>Reference and Transmit Frequency Deviation From GPS at +40°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	6.8
0.5	.28	5.3
1	.27	-7.2
1.5	.27	5.6
2	.27	5.0
2.5	.27	12.3
3	.28	2.2
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.27 dB

The BCR Transmit power level deviation from 25°C = 0.03 dB

<b>Reference and Transmit Frequency Deviation From GPS at +50°C at 24VDC</b>		
Time (minutes)	15 MHz Deviation. from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	.27	1.1
0.5	.26	9.0
1	.27	3.9
1.5	.27	0.5
2	.27	-4.8
2.5	.27	-2.3
3	.27	-5.8
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from 25°C = 0.66 dB

The BCR Transmit power level deviation from 25°C = 0.14 dB

**BCR #8**

Returned to 25°C and reset cell.

Cellular Tested: Cellular Channel 283, 878.49MHz **BCR #8 S/N 99CB06452106**

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 100%STV, 24VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	0.03	-6.0
0.5	0.02	12.0
1	0.03	2.0
1.5	0.03	0.7
2	0.01	5.8
2.5	0.02	6.9
3	0.02	3.8
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from Baseline 24VDC= 0.02 dB

The BCR Transmit power level deviation from Baseline 24VDC= 0.23 dB

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 85%STV, 20.4VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	0.02	-2.1
0.5	0.02	-1.9
1	0.01	3.8
1.5	0.02	6.0
2	0.03	-3.0
2.5	0.03	-5.7
3	0.02	-10.4
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from Baseline 24.0VDC = 1.35 dB

The BCR Transmit power level deviation from Baseline 24.0VDC = 0.25 dB

<b>Reference and Transmit Frequency Deviation From GPS at 25°C at 115%STV, 27.6VDC</b>		
Time (minutes)	15 MHz Deviation from GPS (Hz)	Transmit Carrier Deviation (Hz)
0	0.03	5.6
0.5	0.04	6.9
1	0.03	-2.3
1.5	0.03	8.1
2	0.03	10.8
2.5	0.04	5.9
3	0.02	5.2
SPECIFICATION	15.0000 (+/- 1ppm)	878.49 (+/- 1ppm)
RESULT	PASSED	PASSED

The J4 RF Transmit power level deviation from Baseline 24.0VDC = 0.26 dB

The BCR Transmit power level deviation from Baseline 24.0VDC = 0.21 dB

