



REPORT NUMBER 2004 090691 FCC – 2 – Rev 1

Nemko USA, Inc.
11696 Sorrento Valley Rd., Suite F
San Diego, CA 92121-1024
Phone (858) 793-9911 Fax (858) 793-9914



PARTS 2, 15, 22, 24

SUMMARY TEST REPORT*

For The Wireless PCMCIA PC Card

Model: KPC 650

(This is REV -1 of the report. The data on page 6 of 14 was corrected to reflect the correct cable loss and
Horn gain)*

PREPARED FOR:

Kyocera Wireless Corp.
10300 Campus Point Drive
San Diego, CA 92121

PREPARED ON SEPTEMBER 22,2004

REPORT NUMBER 2004 090691 FCC - 2

PROJECT NUMBER: 24-691-KYO



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Test Summary

The Equipment under test in this report was received at Nemko USA, Inc.'s facilities on September 19, 2004. Testing was performed on the unit described in this report on September 14, 2004 to September 22, 2004. The Test Results reported herein apply only to the Unit actually tested, and to substantially identical Units. All Test were performed by Nemko USA, Inc., located at 11696 Sorrento Valley Road, Suite F, San Diego, CA 92121

Summary of Results

1.1. Test Specification	1.2. Test Name	Compliance Status
FCC, Part 2.1053	Field Strength Spurious Radiated Emissions	PASS
FCC, Part 15.109, EUT Synthesizer Spurious Harmonics	Radiated Emissions	PASS
FCC, Part 22.917(e)	Emissions Limits for Cellular, Out of Band Emissions	PASS
FCC, Part 24.238	Emissions Limits	PASS

I certify the data, data evaluation and equipment configuration herein to be a true and accurate representation of the sample's radio frequency interference emission characteristics, as of the test date(s), and for the design of the test sample used to compile this report.

R. L. Hill
Manager of EMC Operations



A. Conducted & Radiated Emissions Measurement Uncertainties

1. Introduction

ISO Standard 17025 and ANSI/NCSL Z540-1 (1994) require that all measurements contained in a test report be “traceable”. “Traceability” is defined in the *International Vocabulary of Basic and General Terms in Metrology* (ISO: 1993) as: “the property of the result of a measurement... whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons, *all having stated uncertainties*”.

The purposes of this Appendix are to “state the *Measurement Uncertainties*” of the conducted emissions and radiated emissions measurements contained in Section 5 of this Test Report, and to provide a practical explanation of the meaning of these measurement uncertainties.

2. Statement of the Worst-Case Measurement Uncertainties for the Conducted and Radiated Emissions Measurements Contained in This Test Report

Table 1: Worst-Case Expanded Uncertainty "U" of Measurement for a k=2 Coverage Factor

Conducted Emissions Measurement Detection Systems	Applicable Frequency Range	"U" for a k=2 Coverage Factor
HP8568B Spectrum Analyzer with QPA and HP8447F Preamplifier	150 kHz - 30 MHz	+/- 3.0 dB
HP8566B Spectrum Analyzer with QPA and Preselector	9 kHz - 30 MHz	+/- 2.9 dB
Radiated Emissions Measurement Detection Systems	Applicable Frequency Range	"U" for a k=2 Coverage Factor
HP8568B Spectrum Analyzer with QPA & HP8447F Preamplifier	30 MHz - 200 MHz	+4.0 dB, -4.1 dB
HP8568B Spectrum Analyzer with QPA & HP8447F Preamplifier	200 MHz-1000 MHz	+/- 3.5 dB
HP8566B Spectrum Analyzer with QPA & Preselector	30 MHz - 200 MHz	+3.9 dB, -4.0 dB
HP8566B Spectrum Analyzer with QPA & Preselector	200 MHz-1000 MHz	+/- 3.4 dB
HP8566B Spectrum Analyzer with QPA & HP 8449A Preamplifier	1 GHz - 18 GHz	+2.5 dB, -2.6 dB
HP8566B Spectrum Analyzer with QPA & HP8449A Preamplifier	18 GHz - 40 GHz	+/- 3.4 dB

NOTES:

1. Applies to 3 and 10 meter measurement distances
2. Applies to all valid combinations of Transducers (i.e. LISNs, Line Voltage Probes, and Antennas, as appropriate)
3. Excludes the Repeatability of the EUT



3. Practical Explanation of the Meaning of the Conducted and Radiated Emissions Measurement Uncertainties

In the specific case of EMC Measurements in this test report, the measurement uncertainties of the conducted emissions measurements and the radiated emissions measurements have been calculated in accordance with the method detailed in the following documents:

- *ISO Guide to the Expression of Uncertainty in Measurement* (ISO, 1993)
- NIS 81:1994, *The Treatment of Uncertainty in EMC Measurements* (NAMAS, 1994)
- NIST Technical Note 1297(1994), *Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results* (NIST, 1994)

The calculation method used in these documents requires that the stated uncertainty of the measurements be expressed as an “*expanded uncertainty*”, U , with a $k=2$ coverage factor. The practical interpretation of this method of expressing measurement uncertainty is shown in the following example:

EXAMPLE: Assume that at 39.51 MHz, the (measured) radiated emissions level was equal to +26.5 dBuV/m, and that the ± 2 standard deviations (i.e. 95% confidence level) measurement uncertainty was ± 3.4 dB.

In the example above, the phrase “ $k = 2$ Coverage Factor” simply means that the measurement uncertainty is stated to cover ± 2 standard deviations (i.e. a 95% confidence interval) about the measurand. The measurand is the radiated emissions measurement of +26.5 dBuV/m at 39.51 MHz, and the 95% bounds for the uncertainty are -3.4 dB to $+3.4$ dB. One can thus be 95% confident that the “true” value of the radiated emissions measurement is between +23.1 dBuV/m and +29.5 dBuV/m. *In effect, this means that in the above example there is only a 2.5% chance that the “true” radiated emissions value exceeds +29.5 dBuV/m.*



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Radiated Emissions Test Equipment

Client	Kyocera Wireless Corp.		EUT Name	Wireless PCMCIA PC Card		
PAN #	24-691-KYO		EUT Model	KPC 650		
<i>Device Type</i>		<i>Model #</i>	<i>Asset #</i>	<i>Used</i>	<i>Cal Done</i>	<i>Cal Due</i>
Pre-Amplifier						
Amplifier	40dB	342	X	5/10/04	5/10/05	
Antenna OATS #1 (South)						
Antenna, Ridged Guide	3115	752	X	In House Verification	In House Verification	
Antenna, Ridged Guide	3115	529	X	3/30/04	3/30/05	
Spectrum Analyzer / Receiver						
Signal Generator, Agilent	E8254A	836	X	11/6/03	11/6/04	
Spectrum Analyzer / Receiver						
Spectrum Analyzer, Rhode and Swartz	FSEK	835	X	12/11/03	12/11/04	
1-2GHZ Bandpass Filter, Reactel, Inc.	12B2-1500-1030S11	770	X	3/25/04	3/25/05	
4GHZ High Pass Filter, K&L	9SH10-4000X1800 0-0/0	55	X	5/10/04	5/10/05	
2GHz High Pass Filter, Sage Labs	FF6549-2	56	X	5/10/04	5/10/05	



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Kyocera Wireless Corp. Signal Substitution

Model #	Frequency MHz	Target dBμV/m	Horn Gain dBi	Cable Loss dB	Signal Generator dBm	Total (ERP) dBm	Spec dBm	Margin dB
KPC 650 CDMA800 TX Mode	824.7	97.9	0	3.0	26.7	23.7	33	-9.3
	836.49	95.9	0	3.1	27.5	24.4	33	-8.6
	848.31	98.6	0	3.2	28.5	25.3	33	-7.7

NOTE: Signal substitution performed in accordance with TIA-603

Kyocera Wireless Corp. Signal Substitution

Model #	Frequency MHz	Target dBμV/m	Horn Gain dBi	Cable Loss dB	Signal Generator dBm	Total (EIRP) dBm	Spec dBm	Margin dB
KPC 650 PCS Tx Mode	1851.25	92.9	5.73	7.05	25.5	24.18	33	-8.82
	1880	92.0	5.78	7.15	24.4	23.03	33	-9.97
	1908.75	91.8	5.83	7.16	23.6	22.27	33	-10.73
	3760.00	69.7	8	10.53	-36.2	-38.73	-13	-25.73
	3817.50	81.4	7.9	10.67	-22.8	-25.57	-13	-12.57

NOTE: Signal substitution performed in accordance with TIA-603



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 Fax: (858) 452-1810

Radiated Emissions Data

Page 1 of 1

Client Name : Kyocera Wireless Corp.
 EUT Name : Wireless PCMCIA PC Card
 EUT Model # : KPC 650
 EUT Part # : NA
 EUT Serial # : 7Y-X----102FZJ
 EUT Config. : CDMA800 TX HARMONICS

Specification : FCC Part 22 - Mid,Low,High channels (ERP Measurements) Reference :
 Rod. Ant. # : NA Temp. (deg. C) : 27 Date : 9/22/2004
 Bicon Ant.#: NA Humidity (%) : 45 Time : NA
 Log Ant.#: 112 EUT Voltage : NA Staff : Mike Krumweide
 DRG Ant. # 529 EUT Frequency : NA Photo ID: NA
 Dipole Ant.#: NA Phase: NA Peak Bandwidth: 1 MHz
 Cable#: 40ft Location: RN# 90579 Video Bandwidth 1 MHz
 Preamp#: 40db Distance: 3 Fundamental RBW
 Spec An.#: 835 ERP 7.0
 QP #: NA
 PreSelect#: NA

Meas. Freq. (MHz)	Vertical (dBuV) pk	Horizontal (dBuV) pk	CF (db)	Max Level (dBm) pk	Spec. Limit (dBm) pk	Margin dB pk	EUT Rotation	Ant. Height	Pass Fail Unc.	Comment
824.70										Fundamentals
1649.40	60.3	59.2	-12.5	-47.46	-13.0	-34.5			Pass	*
2474.10	67.4	61.2	-7.9	-35.76	-13.0	-22.8			Pass	*
3298.80	53.5	51.6	-4	-45.76	-13.0	-32.8			Pass	*
4123.50	50.5	50.5	-0.8	-45.56	-13.0	-32.6			Pass	NS, NF
4948.20	50.9	50.9	-1.2	-45.56	-13.0	-32.6			Pass	NS, NF
5772.90	51.5	51.5	2.5	-41.26	-13.0	-28.3			Pass	NS, NF
6597.60	51	51	3.4	-40.86	-13.0	-27.9			Pass	NS, NF
7422.30	49.2	49.2	5.8	-40.26	-13.0	-27.3			Pass	NS, NF
8247.00	47.8	47.8	7.5	-39.96	-13.0	-27.0			Pass	NS, NF
9071.70	46.3	46.3	8.84	-40.12	-13.0	-27.1			Pass	NS, NF
836.49										Fundamentals
1672.98	63	62.4	-12.5	-44.76	-13.0	-31.8			Pass	*
2509.47	61.1	55.7	-7	-41.16	-13.0	-28.2			Pass	*
3345.96	54.1	51.8	-4	-45.16	-13.0	-32.2			Pass	*
4182.45	49.6	49.6	-0.8	-46.46	-13.0	-33.5			Pass	NS, NF
5018.94	50.2	50.2	1.7	-43.36	-13.0	-30.4			Pass	NS, NF
5855.43	51.5	51.5	2.5	-41.26	-13.0	-28.3			Pass	NS, NF
6691.92	49.8	49.8	3.4	-42.06	-13.0	-29.1			Pass	NS, NF
7528.41	48.1	48.1	7	-40.16	-13.0	-27.2			Pass	NS, NF
8364.90	47.6	47.6	7.5	-40.16	-13.0	-27.2			Pass	NS, NF
9201.39	46.6	46.6	8.84	-39.82	-13.0	-26.8			Pass	NS, NF
848.31										Fundamentals
1696.62	61.5	61.2	-12.5	-46.26	-13.0	-33.3			Pass	*
2544.93	57.6	57.2	-7	-44.66	-13.0	-31.7			Pass	*
3393.24	53.1	51.4	-4	-46.16	-13.0	-33.2			Pass	*
4241.55	50.1	50.1	-0.8	-45.96	-13.0	-33.0			Pass	NS, NF
5089.86	51.9	51.9	1.7	-41.66	-13.0	-28.7			Pass	NS, NF
5938.17	51.4	51.4	2.5	-41.36	-13.0	-28.4			Pass	NS, NF
6786.48	49.3	49.3	3.4	-42.56	-13.0	-29.6			Pass	NS, NF
7634.79	48.9	48.9	7	-39.36	-13.0	-26.4			Pass	NS, NF
8483.10	48.7	48.7	7.5	-39.06	-13.0	-26.1			Pass	NS, NF
9331.41	47.6	47.6	8.84	-38.82	-13.0	-25.8			Pass	NS, NF

Notes: * = Harmonic Identified, NS = No Signal, NF = Noise Floor Measurement



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Radiated Emissions Data

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Preliminary
Client Name : Kyocera Wireless Corp.
EUT Name : Wireless PCMCIA PC Card
EUT Model # : KPC 650
EUT Part # :
EUT Serial # : 7Y-X----102FZJ
EUT Config. : PCS TX HARMONICS

Specification : FCC Part 24 - Mid,Low,High channels (EIRP Measurements) Reference :
Rod. Ant. #: NA Temp. (deg. C) : 27 Date : 9/22/2004
Bicon Ant. #: NA Humidity (%) : 45 Time : NA
Log Ant. #: NA EUT Voltage : NA Staff : Mike Krumweide
DRG Ant. # : 625 529 EUT Frequency : NA Photo ID: NA
Dipole Ant. #: NA Phase: NA Peak Bandwidth: 1 MHz
Cable #: 40ft Location: RN# 90579 Video Bandwidth 1 MHz
Preamp #: 40db Distance: 3m
Spec An. #: 835
QP #: NA
PreSelect #: NA

Meas. Freq. (MHz)	Vertical (dBuV) pk	Horizontal (dBuV) pk	CF (db)	Max Level (dBm) pk	Spec. Limit (dBm) pk	Margin dB pk	EUT Rotation	Ant. Height	Pass Fail Unc.	Comment
1851.25										Fundamental
3702.50	59	56.7	-2.6	-40.83	-13.0	-27.8			Pass	*
5553.75	52.5	54.3	2.5	-40.43	-13.0	-27.4			Pass	*
7405.00	52.5	51.8	5.8	-38.93	-13.0	-25.9			Pass	*
9256.25	46.6	46.6	8.84	-41.79	-13.0	-28.8			Pass	NS, NF
11107.50	46.3	46.3	13.1	-37.83	-13.0	-24.8			Pass	NS, NF
12958.75	45.7	45.7	15.4	-36.13	-13.0	-23.1			Pass	NS, NF
14810.00	40.8	40.8	22.9	-33.53	-13.0	-20.5			Pass	NS, NF 500kHz RBW
16661.25	37.5	37.5	22.8	-36.93	-13.0	-23.9			Pass	NS, NF 500kHz RBW
18512.50	26.8	26.8	31.7	-38.73	-13.0	-25.7			Pass	NS, NF 100kHz RBW
20363.75	26.9	26.9	32.4	-37.93	-13.0	-24.9			Pass	NS, NF 100kHz RBW
1880.00										Fundamental
3760.00	69.7	63.6	-2.6	-30.13	-13.0	-17.1			Pass	*
5640.00	51.2	51.2	2.5	-43.53	-13.0	-30.5			Pass	NS, NF
7520.00	49.9	49.9	7	-40.33	-13.0	-27.3			Pass	NS, NF
9400.00	45.6	45.6	8.84	-42.79	-13.0	-29.8			Pass	NS, NF
11280.00	45.3	45.3	13.1	-38.83	-13.0	-25.8			Pass	NS, NF
13160.00	45.5	45.5	18.4	-33.33	-13.0	-20.3			Pass	NS, NF
15040.00	39.9	39.9	22.5	-34.83	-13.0	-21.8			Pass	NS, NF 500kHz RBW
16920.00	37.5	37.5	22.8	-36.93	-13.0	-23.9			Pass	NS, NF 500kHz RBW
18800.00	26.1	26.1	31.7	-39.43	-13.0	-26.4			Pass	NS, NF 100kHz RBW
20680.00	26.7	26.7	32.3	-38.23	-13.0	-25.2			Pass	NS, NF 100kHz RBW
1908.75										Fundamental
3817.50	81.4	74.5	-1.6	-17.43	-13.0	-4.4			Pass	*
5726.25	52.7	51.5	2.5	-42.03	-13.0	-29.0			Pass	*
7635.00	48.9	48.6	7	-41.33	-13.0	-28.3			Pass	*
9543.75	45.4	45.4	8.54	-43.29	-13.0	-30.3			Pass	NS, NF
11452.50	46	46	13.1	-38.13	-13.0	-25.1			Pass	NS, NF
13361.25	44.7	44.7	18.4	-34.13	-13.0	-21.1			Pass	NS, NF
15270.00	39.7	39.7	22.5	-35.03	-13.0	-22.0			Pass	NS, NF 500kHz RBW
17178.75	28.9	28.9	27.7	-40.63	-13.0	-27.6			Pass	NS, NF 100kHz RBW
19087.50	24.8	24.8	31.9	-40.53	-13.0	-27.5			Pass	NS, NF 100kHz RBW
20996.25	23.3	23.3	32.3	-41.63	-13.0	-28.6			Pass	NS, NF 100kHz RBW

Notes: * = Harmonic Identified, NS = No Signal, NF = Noise Floor Measurement



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Radiated Emissions Data

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Client Name : Kyocera Wireless Corp.
EUT Name : Wireless PCMCIA PC Card
EUT Model # : KPC 650
EUT Part # : NA
EUT Serial # : 7Y-X----102FZJ
EUT Config. : PCS Tx SYNTH

Specification : FCC part 15.109
Rod. Ant. # : NA Temp. (deg. C) : 24
Bicon Ant.# : NA Humidity (%) : 56
Log Ant.# : NA EUT Voltage : NA
DRG Ant. # : 529 EUT Frequency : NA
Dipole Ant.# : NA Phase : NA
Cable# : 40FT Location : RN# 90579
Preamp# : 40db Distance : 3m
Spec An.# : 835
QP # : NA
PreSelect# : NA

Reference :
Date : 9/14/2004
Time :
Staff : MP
Photo ID :
Peak Bandwidth : RBW-1MHz, VBW-1MHz
AV Bandwidth : RBW-1MHz, VBW-10Hz

Meas. Freq. (MHz)	Vertical (dBuV)		Horizontal (dBuV)		CF (db)	Max Level (dBuV/m)		Spec. Limit (dBuV/m)		Margin dB		EUT Rotation	Ant. Height	Pass Fail	Comment
	pk	av	pk	av		pk	av	pk	av	pk	av			Unc.	
1481	51.7	40.2	46.1	36.9	-13.8	37.9	26.4	74.0	54.0	-36.1	-27.6			PASS	NF
2962	49.9	37.9	50.5	38.1	-7	43.5	31.1	74.0	54.0	-30.5	-22.9			PASS	NF
4443	48.8	37.1	48.9	37	-0.8	48.1	36.3	74.0	54.0	-25.9	-17.7			PASS	NF
5924	49.5	37.8	49.5	37.8	2.5	52	40.3	74.0	54.0	-22.0	-13.7			PASS	NF
7405	38.5	28.8	46.9	35.6	5.8	52.7	41.4	74.0	54.0	-21.3	-12.6			PASS	RBW 100kHz
8886	44.9	33.4	45	33.1	7.8	52.8	41.2	74.0	54.0	-21.2	-12.8			PASS	NF
10367	42.6	31	43	31	11	54	42	74.0	54.0	-20.0	-12.0			PASS	NF RBW 100 kHz
11848	44	32.2	44.2	32.1	13.5	57.7	45.7	74.0	54.0	-16.3	-8.3			PASS	NF RBW 30 kHz
13329	41.9	30	41.7	30.3	18.4	60.3	48.7	74.0	54.0	-13.7	-5.3			PASS	NF RBW 30 kHz
14810	41.6	30.1	42.2	29.9	22.9	65.1	53	74.0	54.0	-8.9	-1.0			PASS	NF RBW 10 kHz
16291	37.1	25.1	37.3	25.3	23	60.3	48.3	74.0	54.0	-13.7	-5.7			PASS	NF RBW 10 kHz
1504	69	54	62.1	53.1	-12.5	56.5	41.5	74.0	54.0	-17.5	-12.5			PASS	*
3008	49.1	37.1	49.1	37	-4	45.1	33.1	74.0	54.0	-28.9	-20.9			PASS	NF
4512	49	37	49	36.8	-1.2	47.8	35.8	74.0	54.0	-26.2	-18.2			PASS	NF
6016	48.5	36.6	48.5	36.6	3.4	51.9	40	74.0	54.0	-22.1	-14.0			PASS	NF
7520	45.5	34.4	45.5	34.3	7	52.5	41.4	74.0	54.0	-21.5	-12.6			PASS	NF
9024	44.6	33	44.8	33	8.84	53.64	41.84	74.0	54.0	-20.4	-12.2			PASS	NF
10528	42.5	30.3	42	30	10.9	53.4	41.2	74.0	54.0	-20.6	-12.8			PASS	NF RBW 100 kHz
12032	43.9	31.7	43.8	31.5	15.6	59.5	47.3	74.0	54.0	-14.5	-6.7			PASS	NF RBW 30 kHz
13536	42	30.6	42.4	30.6	20	62.4	50.6	74.0	54.0	-11.6	-3.4			PASS	NF RBW 30 kHz
15040	40.7	29.2	41.1	29.3	22.5	63.6	51.8	74.0	54.0	-10.4	-2.2			PASS	NF RBW 10 kHz
16544	38.4	26.3	37.9	26.2	22.8	61.2	49.1	74.0	54.0	-12.8	-4.9			PASS	NF RBW 10 kHz
1527	46.8	36.7	36.4	36.7	-12.5	34.3	24.2	74.0	54.0	-39.7	-29.8			PASS	NF
3054	45.5	36.9	45.5	36.9	-4	41.5	32.9	74.0	54.0	-32.5	-21.1			PASS	NF
4581	48	36.1	48	36.1	-1.2	46.8	34.9	74.0	54.0	-27.2	-19.1			PASS	NF
6108	47.8	36.2	47.8	36.2	3.4	51.2	39.6	74.0	54.0	-22.8	-14.4			PASS	NF
7635	46	34.5	46	34.5	7	53	41.5	74.0	54.0	-21.0	-12.5			PASS	NF
9162	43.9	42	43.9	42	8.84	52.74	50.84	74.0	54.0	-21.3	-3.2			PASS	NF
10689	41.7	30.1	41.7	30.1	10.9	52.6	41	74.0	54.0	-21.4	-13.0			PASS	NF RBW 100 kHz
12216	42.9	32.8	42.9	32.8	15.6	58.5	48.4	74.0	54.0	-15.5	-5.6			PASS	NF RBW 30 kHz
13743	42	30.7	42.3	30.5	20	62.3	50.7	74.0	54.0	-11.7	-3.3			PASS	NF RBW 30 kHz
15270	39.9	28	40	28.1	22.5	62.5	50.6	74.0	54.0	-11.5	-3.4			PASS	NF RBW 10 kHz
16797	37.2	25.6	37.6	25.7	22.8	60.4	48.5	74.0	54.0	-13.6	-5.5			PASS	NF RBW 10 kHz

Notes: * = Harmonic Identified, NS = No Signal, NF = Noise Floor Measurement



REPORT NUMBER 2004 090691 FCC – 2 – Rev 1

Nemko USA, Inc.
11696 Sorrento Valley Rd., Suite F
San Diego, CA 92121-1024
Phone (858) 793-9911 Fax (858) 793-9914



NEMKO USA, Inc.

San Diego Headquarters:

11696 Sorrento Valley Rd.
San Diego, CA 92121
Tel: (858) 755-5525
Fax: (858) 452-1810

Radiated Emissions Data

Page 1 of 1

Client Name : Kyocera Wireless Corp.
EUT Name : Wireless PCMCIA PC Card
EUT Model # : KPC 650
EUT Part # : NA
EUT Serial # : 7Y-X----102FZJ
EUT Config. : CDMA 800 Rx SYNTH
With External Antenna
Specification : FCC part 15.109
Rod. Ant. # : NA Temp. (°C) : 28
Bicon Ant. # : NA Humidity (%) : 74
Log Ant. # : NA EUT Voltage : NA
DRG Ant. # : 529 EUT Frequency : NA
Dipole Ant. # : NA Phase : NA
Cable # : 40FT Location : RN# 90579
Preamp # : 40db Distance : 3m
Spec An. # : 835
QP # : NA
PreSelect # : NA
Reference :
Date : 9/19/2004
Time : NA
Staff : Mike Krumweide
Photo ID : NA
Peak Bandwidth : RBW-1MHz, VBW-1MHz
AV Bandwidth : RBW-1MHz, VBW-10Hz
2 GHz HIGH PASS FILTER used for 2nd harmonic and on

Meas. Freq. (MHz)	Vertical (dBuV)		Horizontal (dBuV)		CF (db)	Max Level (dBuV/m)		Spec. Limit (dBuV/m)		Margin dB		EUT Rotation	Ant. Height	Pass Fail Unc.	Comment
	pk	av	pk	av		pk	av	pk	av	pk	av				
1739.4	59.1	48.7	59.4	50.1	-12.5	46.9	37.6	74.0	54.0	-27.1	-16.4		1.0	PASS	*
3478.8	52.2	38.7	52.2	38.7	-4	48.2	34.7	74.0	54.0	-25.8	-19.3			PASS	NS, NF
5218.2	52.7	39.8	52.9	39.1	1.7	54.6	41.5	74.0	54.0	-19.4	-12.5			PASS	*
6957.6	48.7	35.6	48.7	35.6	3.4	52.1	39	74.0	54.0	-21.9	-15.0			PASS	NS, NF
8697	47.7	34.7	47.7	34.7	7.8	55.5	42.5	74.0	54.0	-18.5	-11.5			PASS	NS, NF
10436.4	45.5	32.1	45.1	32.1	11	56.5	43.1	74.0	54.0	-17.5	-10.9			PASS	NS, NF
12175.8	37	23.6	37	23.6	15.6	52.6	39.2	74.0	54.0	-21.4	-14.8			PASS	NF RBW 100 kHz
13915.2	30.9	17.6	30.9	17.6	20	50.9	37.6	74.0	54.0	-23.1	-16.4			PASS	NF RBW 30 kHz
15654.6	27.3	13.6	27.3	13.6	21.9	49.2	35.5	74.0	54.0	-24.8	-18.5			PASS	NF RBW 30 kHz
17394	23.3	10.1	23.3	10.1	27.7	51	37.8	74.0	54.0	-23.0	-16.2			PASS	NF RBW 30 kHz
19133.4	19.5	6.3	19.5	6.3	34.8	54.3	41.1	74.0	54.0	-19.7	-12.9			PASS	NF RBW 30 kHz
1762.98	57.6	47.6	57	45.6	-12.5	45.1	35.1	74.0	54.0	-28.9	-18.9	0.0	1.0	PASS	*
3525.96	51.8	38.7	51.8	38.7	-2.6	49.2	36.1	74.0	54.0	-24.8	-17.9			PASS	NS, NF
5288.94	52.2	39.3	51.9	38.8	1.7	53.9	41	74.0	54.0	-20.1	-13.0			PASS	*
7051.92	49.6	36.4	49.6	36.4	5.8	55.4	42.2	74.0	54.0	-18.6	-11.8			PASS	NS, NF
8814.9	48.3	34.6	48.3	34.6	7.8	56.1	42.4	74.0	54.0	-17.9	-11.6			PASS	NS, NF
10577.9	44.2	31.1	44.2	31.1	10.9	55.1	42	74.0	54.0	-18.9	-12.0			PASS	NS, NF
12340.9	34.9	22	34.9	22	15.6	50.5	37.6	74.0	54.0	-23.5	-16.4			PASS	NF RBW 100 kHz
14103.8	30.6	16.6	30.6	16.6	23.5	54.1	40.1	74.0	54.0	-19.9	-13.9			PASS	NF RBW 30 kHz
15866.8	26.4	13	26.4	13	21.9	48.3	34.9	74.0	54.0	-25.7	-19.1			PASS	NF RBW 30 kHz
17629.8	23.6	9.9	23.6	9.9	31.6	55.2	41.5	74.0	54.0	-18.8	-12.5			PASS	NF RBW 30 kHz
19392.8	19.9	6.3	19.9	6.3	34.8	54.7	41.1	74.0	54.0	-19.3	-12.9			PASS	NF RBW 30 kHz
1786.62	59.1	50.8	59.4	51.1	-12.5	46.9	38.6	74.0	54.0	-27.1	-15.4	0.0	1.0	PASS	*
3573.24	51.2	37.6	51.2	37.6	-2.6	48.6	35	74.0	54.0	-25.4	-19.0			PASS	NS, NF
5359.86	51.7	38.1	51.4	37.7	1.7	53.4	39.8	74.0	54.0	-20.6	-14.2			PASS	*
7146.48	51	37.3	51	37.3	5.8	56.8	43.1	74.0	54.0	-17.2	-10.9			PASS	NS, NF
8933.1	47.2	33.6	47.2	33.6	7.8	55	41.4	74.0	54.0	-19.0	-12.6			PASS	NS, NF
10719.7	44.3	30.8	44.3	30.8	10.9	55.2	41.7	74.0	54.0	-18.8	-12.3			PASS	NS, NF
12506.3	36.3	22.8	36.3	22.8	15.4	51.7	38.2	74.0	54.0	-22.3	-15.8			PASS	NS, NF RBW 100 kHz
14293	29.2	16.1	29.2	16.1	23.5	52.7	39.6	74.0	54.0	-21.3	-14.4			PASS	NS, NF RBW 30 kHz
16079.6	26.6	13.3	26.6	13.3	23	49.6	36.3	74.0	54.0	-24.4	-17.7			PASS	NS, NF RBW 30 kHz
17866.2	23.1	9.8	23.1	9.8	31.6	54.7	41.4	74.0	54.0	-19.3	-12.6			PASS	NS, NF RBW 30 kHz
19652.8	20.9	6.6	20.9	6.6	34.8	55.7	41.4	74.0	54.0	-18.3	-12.6			PASS	NS, NF RBW 30 kHz

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Radiated Emissions Data

Page 1 of 1

Client Name : Kyocera Wireless Corp.
EUT Name : Wireless PCMCIA PC Card
EUT Model # : KPC 650
EUT Part # : NA
EUT Serial # : 7Y-X---102FZJ
EUT Config : CDMA 800 Rx SYNTH

Specification : FCC part 15.109
Rod. Ant. # : NA Temp. (°C) : 28
Bicon Ant. # : NA Humidity (%) : 74
Log Ant. # : NA EUT Voltage : NA
DRG Ant. # : 529 EUT Frequency : NA
Dipole Ant. # : NA Phase : NA
Cable# : 40FT Location : RN# 90579
Preamp# : 40db Distance : 3m
Spec An. # : 835
QP # : NA
PreSelect# : NA

Reference :
Date : 9/17/2004
Time :
Staff : Mike Krumweide
Photo ID :
Peak Bandwidth: RBW-1MHz, VBW-1MHz
AV Bandwidth RBW-1MHz, VBW-10Hz

2 GHz HIGH PASS FILTER used for 2nd harmonic and on

Meas. Freq. (MHz)	Vertical (dBuV)		Horizontal (dBuV)		CF (db)	Max Level (dBuV/m)		Spec. Limit (dBuV/m)		Margin dB		EUT Rotation	Ant. Height	Pass Fail Unc.	Comment
	pk	av	pk	av		pk	av	pk	av	pk	av				
1739.4	57.7	47.3	59.2	48.9	-12.5	46.7	36.4	74.0	54.0	-27.3	-17.6		1.0	PASS	*
3478.8	52.2	38.7	52.2	38.7	-4	48.2	34.7	74.0	54.0	-25.8	-19.3			PASS	NS, NF
5218.2	52.4	39.3	52.4	39.3	1.7	54.1	41	74.0	54.0	-19.9	-13.0			PASS	NS, NF
6957.6	48.7	35.6	48.7	35.6	3.4	52.1	39	74.0	54.0	-21.9	-15.0			PASS	NS, NF
8697	47.7	34.7	47.7	34.7	7.8	55.5	42.5	74.0	54.0	-18.5	-11.5			PASS	NS, NF
10436.4	45.5	32.1	45.1	32.1	11	56.5	43.1	74.0	54.0	-17.5	-10.9			PASS	NS, NF
12175.8	37	23.6	37	23.6	15.6	52.6	39.2	74.0	54.0	-21.4	-14.8			PASS	NF RBW 100 kHz
13915.2	30.9	17.6	30.9	17.6	20	50.9	37.6	74.0	54.0	-23.1	-16.4			PASS	NF RBW 30 kHz
15654.6	27.3	13.6	27.3	13.6	21.9	49.2	35.5	74.0	54.0	-24.8	-18.5			PASS	NF RBW 30 kHz
17394	23.3	10.1	23.3	10.1	27.7	51	37.8	74.0	54.0	-23.0	-16.2			PASS	NF RBW 30 kHz
19133.4	19.5	6.3	19.5	6.3	34.8	54.3	41.1	74.0	54.0	-19.7	-12.9			PASS	NF RBW 30 kHz
1762.98	56.9	46.9	58.2	49.9	-12.5	45.7	37.4	74.0	54.0	-28.3	-16.6	0.0	1.0	PASS	*
3525.96	51.8	38.7	51.8	38.7	-2.6	49.2	36.1	74.0	54.0	-24.8	-17.9			PASS	NS, NF
5288.94	51.5	38.2	51.5	38.2	1.7	53.2	39.9	74.0	54.0	-20.8	-14.1			PASS	NS, NF
7051.92	49.6	36.4	49.6	36.4	5.8	55.4	42.2	74.0	54.0	-18.6	-11.8			PASS	NS, NF
8814.9	48.3	34.6	48.3	34.6	7.8	56.1	42.4	74.0	54.0	-17.9	-11.6			PASS	NS, NF
10577.9	44.2	31.1	44.2	31.1	10.9	55.1	42	74.0	54.0	-18.9	-12.0			PASS	NS, NF
12340.9	34.9	22	34.9	22	15.6	50.5	37.6	74.0	54.0	-23.5	-16.4			PASS	NF RBW 100 kHz
14103.8	30.6	16.6	30.6	16.6	23.5	54.1	40.1	74.0	54.0	-19.9	-13.9			PASS	NF RBW 30 kHz
15866.8	26.4	13	26.4	13	21.9	48.3	34.9	74.0	54.0	-25.7	-19.1			PASS	NF RBW 30 kHz
17629.8	23.6	9.9	23.6	9.9	31.6	55.2	41.5	74.0	54.0	-18.8	-12.5			PASS	NF RBW 30 kHz
19392.8	19.9	6.3	19.9	6.3	34.8	54.7	41.1	74.0	54.0	-19.3	-12.9			PASS	NF RBW 30 kHz
1786.62	57	46.6	58.7	50.1	-12.5	46.2	37.6	74.0	54.0	-27.8	-16.4	0.0	1.0	PASS	*
3573.24	51.2	37.6	51.2	37.6	-2.6	48.6	35	74.0	54.0	-25.4	-19.0			PASS	NS, NF
5359.86	50.4	37.3	50.4	37.3	1.7	52.1	39	74.0	54.0	-21.9	-15.0			PASS	NS, NF
7146.48	51	37.3	51	37.3	5.8	56.8	43.1	74.0	54.0	-17.2	-10.9			PASS	NS, NF
8933.1	50.2	37.4	50.2	37.4	7.8	58	45.2	74.0	54.0	-16.0	-8.8			PASS	NS, NF
10719.7	44.5	31.1	44.5	31.1	10.9	55.4	42	74.0	54.0	-18.6	-12.0			PASS	NS, NF
12506.3	36	23.2	36	23.2	15.4	51.4	38.6	74.0	54.0	-22.6	-15.4			PASS	NS, NF RBW 100 kHz
14293	30.5	17	30.5	17	23.5	54	40.5	74.0	54.0	-20.0	-13.5			PASS	NS, NF RBW 30 kHz
16079.6	26.6	13.3	26.6	13.3	23	49.6	36.3	74.0	54.0	-24.4	-17.7			PASS	NS, NF RBW 30 kHz
17866.2	23.1	9.8	23.1	9.8	31.6	54.7	41.4	74.0	54.0	-19.3	-12.6			PASS	NS, NF RBW 30 kHz
19652.8	20.9	6.6	20.9	6.6	34.8	55.7	41.4	74.0	54.0	-18.3	-12.6			PASS	NS, NF RBW 30 kHz

Notes: * = Harmonic Identified, NS = No Signal, NF = Noise Floor Measurement



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Radiated Emissions Data

Page 1 of 1

Client Name : Kyocera Wireless Corp.
EUT Name : Wireless PCMCIA PC Card
EUT Model #: KPC 650
EUT Part #: NA
EUT Serial #: 7Y-X----102FZJ
EUT Config.: PCS RX SYNTH

Specification : FCC part 15.109
Rod. Ant. #: NA Temp. (°C) : 28
Bicon Ant. #: NA Humidity (%) : 74
Log Ant. #: NA EUT Voltage : NA
DRG Ant. #: 529 EUT Frequency : NA
Dipole Ant. #: NA Phase: NA
Cable#: 40FT Location: RN# 90579
Preamp#: 40db Distance: 3m
Spec An. #: 835
QP #: NA
PreSelect#: NA

Reference :
Date : 9/18/2004
Time : NA
Staff : R Hill
Photo ID: NA
Peak Bandwidth: RBW-1MHz, VBW-1MHz
AV Bandwidth: RBW-1MHz, VBW-10Hz

2 GHz HIGH PASS FILTER used for 2nd harmonic and on

Meas. Freq. (MHz)	Vertical (dBuV)		Horizontal (dBuV)		CF (db)	Max Level (dBuV/m)		Spec. Limit (dBuV/m)		Margin dB		EUT Rotation	Ant. Height	Pass Fail Unc.	Comment
	pk	av	pk	av		pk	av	pk	av	pk	av				
1716.66	56.4	49	47.6	47	-12.5	43.9	36.5	74.0	54.0	-30.1	-17.5	0.0	1.0	PASS	*
3433.32	52.2	38.7	52.2	38.7	-4	48.2	34.7	74.0	54.0	-25.8	-19.3	90.0	1.0	PASS	*
5149.98	52.4	39.3	52.4	39.3	1.7	54.1	41	74.0	54.0	-19.9	-13.0			PASS	NS, NF
6866.64	48.7	35.6	48.7	35.6	3.4	52.1	39	74.0	54.0	-21.9	-15.0			PASS	NS, NF
8583.3	47.7	34.7	47.7	34.7	7.8	55.5	42.5	74.0	54.0	-18.5	-11.5			PASS	NS, NF
10300	45.5	32.1	45.1	32.1	11	56.5	43.1	74.0	54.0	-17.5	-10.9			PASS	NS, NF
12016.6	37	23.6	37	23.6	15.6	52.6	39.2	74.0	54.0	-21.4	-14.8			PASS	NF RBW 100 kHz
13733.3	30.9	17.6	30.9	17.6	20	50.9	37.6	74.0	54.0	-23.1	-16.4			PASS	NF RBW 30 kHz
15449.9	27.3	13.6	27.3	13.6	22.5	49.8	36.1	74.0	54.0	-24.2	-17.9			PASS	NF RBW 30 kHz
17166.6	23.3	10.1	23.3	10.1	27.7	51	37.8	74.0	54.0	-23.0	-16.2			PASS	NF RBW 30 kHz
18883.3	19.5	6.3	19.5	6.3	34.8	54.3	41.1	74.0	54.0	-19.7	-12.9			PASS	NF RBW 30 kHz
1742.22	57	48.1	56.5	47.9	-12.5	44.5	35.6	74.0	54.0	-29.5	-18.4	0.0	1.0	PASS	*
3484.44	51.8	38.7	51.8	38.7	-4	47.8	34.7	74.0	54.0	-26.2	-19.3	90.0	1.0	PASS	*
5226.66	51.5	38.2	51.5	38.2	1.7	53.2	39.9	74.0	54.0	-20.8	-14.1			PASS	NS, NF
6968.88	49.6	36.4	49.6	36.4	3.4	53	39.8	74.0	54.0	-21.0	-14.2			PASS	NS, NF
8711.1	48.3	34.6	48.3	34.6	7.8	56.1	42.4	74.0	54.0	-17.9	-11.6			PASS	NS, NF
10453.3	44.2	31.1	44.2	31.1	11	55.2	42.1	74.0	54.0	-18.8	-11.9			PASS	NS, NF
12195.5	34.9	22	34.9	22	15.6	50.5	37.6	74.0	54.0	-23.5	-16.4			PASS	NF RBW 100 kHz
13937.8	30.6	16.6	30.6	16.6	20	50.6	36.6	74.0	54.0	-23.4	-17.4			PASS	NF RBW 30 kHz
15680	26.4	13	26.4	13	21.9	48.3	34.9	74.0	54.0	-25.7	-19.1			PASS	NF RBW 30 kHz
17422.2	23.6	9.9	23.6	9.9	27.7	51.3	37.6	74.0	54.0	-22.7	-16.4			PASS	NF RBW 30 kHz
19164.4	19.9	6.3	19.9	6.3	34.8	54.7	41.1	74.0	54.0	-19.3	-12.9			PASS	NF RBW 30 kHz
1767.77	57	46.6	58.7	50.1	-12.5	46.2	37.6	74.0	54.0	-27.8	-16.4	0.0	1.0	PASS	*
3535.54	53.6	48.4	57.4	50.4	-2.6	54.8	47.8	74.0	54.0	-19.2	-6.2	90.0	1.0	PASS	*
5303.31	50.4	37.3	50.4	37.3	1.7	52.1	39	74.0	54.0	-21.9	-15.0			PASS	NS, NF
7071.08	51	37.3	51	37.3	5.8	56.8	43.1	74.0	54.0	-17.2	-10.9			PASS	NS, NF
8838.85	50.2	37.4	50.2	37.4	7.8	58	45.2	74.0	54.0	-16.0	-8.8			PASS	NS, NF
10606.6	50.4	37.1	50.4	37.1	10.9	61.3	48	74.0	54.0	-12.7	-6.0			PASS	NS, NF
12374.4	41.2	27.6	41.2	27.6	15.6	56.8	43.2	74.0	54.0	-17.2	-10.8			PASS	NS, NF RBW 100 kHz
14142.2	30.5	17	30.5	17	23.5	54	40.5	74.0	54.0	-20.0	-13.5			PASS	NS, NF RBW 30 kHz
15909.9	26.6	13.3	26.6	13.3	21.9	48.5	35.2	74.0	54.0	-25.5	-18.8			PASS	NS, NF RBW 30 kHz
17677.7	23.1	9.8	23.1	9.8	31.6	54.7	41.4	74.0	54.0	-19.3	-12.6			PASS	NS, NF RBW 30 kHz
19445.5	20.9	6.6	20.9	6.6	34.8	55.7	41.4	74.0	54.0	-18.3	-12.6			PASS	NS, NF RBW 30 kHz

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Specification : FCC part 15.109
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Bicon Ant.#: NA Humidity (%) : 74
Log Ant.#: NA EUT Voltage : NA
DRG Ant. # : 529 EUT Frequency : NA
Dipole Ant.#: NA Phase: NA
Cable#: 40FT Location: RN# 90579
Preamp#: 40db Distance: 3m
Spec An.#: 835
QP #: NA
PreSelect#: NA
Reference : NA
Date : 9/18/2004
Time : NA
Staff : R Hill
Photo ID: NA
Peak Bandwidth: RBW-1MHz, VBW-1MHz
AV Bandwidth: RBW-1MHz, VBW-10Hz
2 GHz HIGH PASS FILTER used for 2nd harmonic and on

Meas. Freq. (MHz)	Vertical (dBuV)		Horizontal (dBuV)		CF (db)	Max Level (dBuV/m)		Spec. Limit (dBuV/m)		Margin dB		EUT Rotation	Ant. Height	Pass Fail	Comment
	pk	av	pk	av		pk	av	pk	av	pk	av				
1716.66	53.4	46.8	55.7	47.3	-12.5	43.2	34.8	74.0	54.0	-30.8	-19.2	0.0	1.0	PASS	*
3433.32	49.5	37.9	49.5	37.9	-4	45.5	33.9	74.0	54.0	-28.5	-20.1			PASS	NS, NF
5149.98	52.4	39.3	52.4	39.3	1.7	54.1	41	74.0	54.0	-19.9	-13.0			PASS	NS, NF
6866.64	48.7	35.6	48.7	35.6	3.4	52.1	39	74.0	54.0	-21.9	-15.0			PASS	NS, NF
8583.3	47.7	34.7	47.7	34.7	7.8	55.5	42.5	74.0	54.0	-18.5	-11.5			PASS	NS, NF
10300	45.5	32.1	45.1	32.1	11	56.5	43.1	74.0	54.0	-17.5	-10.9			PASS	NS, NF
12016.6	37	23.6	37	23.6	15.6	52.6	39.2	74.0	54.0	-21.4	-14.8			PASS	NF RBW 100 kHz
13733.3	30.9	17.6	30.9	17.6	20	50.9	37.6	74.0	54.0	-23.1	-16.4			PASS	NF RBW 30 kHz
15449.9	27.3	13.6	27.3	13.6	22.5	49.8	36.1	74.0	54.0	-24.2	-17.9			PASS	NF RBW 30 kHz
17166.6	23.3	10.1	23.3	10.1	27.7	51	37.8	74.0	54.0	-23.0	-16.2			PASS	NF RBW 30 kHz
18883.3	19.5	6.3	19.5	6.3	34.8	54.3	41.1	74.0	54.0	-19.7	-12.9			PASS	NF RBW 30 kHz
1742.22	56.8	49	56.2	48.4	-12.5	44.3	36.5	74.0	54.0	-29.7	-17.5	0.0	1.0	PASS	*
3484.44	51.8	38.7	51.8	38.7	-4	47.8	34.7	74.0	54.0	-26.2	-19.3			PASS	NS, NF
5226.66	51.5	38.2	51.5	38.2	1.7	53.2	39.9	74.0	54.0	-20.8	-14.1			PASS	NS, NF
6968.88	49.6	36.4	49.6	36.4	3.4	53	39.8	74.0	54.0	-21.0	-14.2			PASS	NS, NF
8711.1	48.3	34.6	48.3	34.6	7.8	56.1	42.4	74.0	54.0	-17.9	-11.6			PASS	NS, NF
10453.3	44.2	31.1	44.2	31.1	11	55.2	42.1	74.0	54.0	-18.8	-11.9			PASS	NS, NF
12195.5	34.9	22	34.9	22	15.6	50.5	37.6	74.0	54.0	-23.5	-16.4			PASS	NF RBW 100 kHz
13937.8	30.6	16.6	30.6	16.6	20	50.6	36.6	74.0	54.0	-23.4	-17.4			PASS	NF RBW 30 kHz
15680	26.4	13	26.4	13	21.9	48.3	34.9	74.0	54.0	-25.7	-19.1			PASS	NF RBW 30 kHz
17422.2	23.6	9.9	23.6	9.9	27.7	51.3	37.6	74.0	54.0	-22.7	-16.4			PASS	NF RBW 30 kHz
19164.4	19.9	6.3	19.9	6.3	34.8	54.7	41.1	74.0	54.0	-19.3	-12.9			PASS	NF RBW 30 kHz
1767.77	56.6	49.3	56.6	50	-12.5	44.1	37.5	74.0	54.0	-29.9	-16.5	90.0	1.0	PASS	*
3535.54	49.5	38.2	49.5	38.2	-2.6	46.9	35.6	74.0	54.0	-27.1	-18.4			PASS	NS, NF
5303.31	50.4	38.9	50.4	37.3	1.7	52.1	40.6	74.0	54.0	-21.9	-13.4			PASS	*
7071.08	51	37.3	51	37.3	5.8	56.8	43.1	74.0	54.0	-17.2	-10.9			PASS	NS, NF
8838.85	50.2	37.4	50.2	37.4	7.8	58	45.2	74.0	54.0	-16.0	-8.8			PASS	NS, NF
10606.6	50.4	37.1	50.4	37.1	10.9	61.3	48	74.0	54.0	-12.7	-6.0			PASS	NS, NF
12374.4	41.2	27.6	41.2	27.6	15.6	56.8	43.2	74.0	54.0	-17.2	-10.8			PASS	NS, NF RBW 100 kHz
14142.2	30.5	17	30.5	17	23.5	54	40.5	74.0	54.0	-20.0	-13.5			PASS	NS, NF RBW 30 kHz
15909.9	26.6	13.3	26.6	13.3	21.9	48.5	35.2	74.0	54.0	-25.5	-18.8			PASS	NS, NF RBW 30 kHz
17677.7	23.1	9.8	23.1	9.8	31.6	54.7	41.4	74.0	54.0	-19.3	-12.6			PASS	NS, NF RBW 30 kHz
19445.5	20.9	6.6	20.9	6.6	34.8	55.7	41.4	74.0	54.0	-18.3	-12.6			PASS	NS, NF RBW 30 kHz

Notes: * = Harmonic Identified, NS = No Signal, NF = Noise Floor Measurement



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Nemko USA, Inc.
11696 Sorrento Valley Rd., Suite F
San Diego, CA 92121-1024
Phone (858) 793-9911 Fax (858) 793-9914

