

*FCC PART 15, SUBPART B and C
TEST REPORT**for***NANO KEY****MODEL: K-9100**

Prepared for

**GATEKEEPER SYSTEMS, INC.
8 STUDEBAKER
IRVINE, CALIFORNIA 92618**Prepared by: **KYLE FUJIMOTO**Approved by: **MICHAEL CHRISTENSEN****COMPATIBLE ELECTRONICS INC.
114 OLINDA DRIVE
BREA, CALIFORNIA 92823
(714) 579-0500****DATE: SEPTEMBER 4, 2008**

	REPORT BODY	APPENDICES					TOTAL
		<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	
PAGES	15	2	2	2	12	28	61

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1	Plot Map And Layout of Radiated Test Site – 3 Meters

GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Device Tested: Nano Key
Model: K-9100
S/N: N/A

Product Description: See Expository Statement

Modifications: The EUT was not modified in order to meet the specifications.

Manufacturer: Gatekeeper Systems, Inc.
8 Studebaker
Irvine, California 92618

Test Dates: June 23 and 24, 2008

Test Specifications: EMI requirements
CFR Title 47, Part 15 Subpart B; and Subpart C, Sections 15.205, 15.209 and 15.249

Test Procedure: ANSI C63.4

Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 150 kHz – 30 MHz	This test was not performed because the EUT cannot be plugged into the AC public mains.
2	Radiated RF Emissions, 10 kHz – 25000 MHz (Transmitter Portion)	Complies with the limits of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209, and 15.249.
3	Radiated RF Emissions, 10 kHz – 25000 MHz (Digital and Receiver Portion)	Complies with the Class B limits of CFR Title 47, Part 15, Subpart B.

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Nano Key, Model: K-9100. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B for the digital and receiver portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.249 for the transmitter portion.



2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California 92823.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

Gatekeeper Systems, Inc.

Mike James Principal Engineer

Compatible Electronics, Inc.

Kyle Fujimoto Test Engineer

Michael Christensen Lab Manager, Brea Division

2.4 Date Test Sample was Received

The test sample was received on June 23, 2008.

2.5 Disposition of the Test Sample

The sample has not been returned to Gatekeeper Systems, Inc. as of the date of this test report.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network

3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
CFR Title 47, Part 15	FCC Rules – Radio frequency devices (including digital devices)
ANSI C63.4 2003	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description Of Test Configuration - EMI

Setup and operation of the equipment under test.

Specifics of the EUT and Peripherals Tested

The Nano Key, Model: K-9100 (EUT) was tested as a stand alone unit and continuously transmitting or receiving. The EUT's antenna is a PCB style antenna and is on the PCB itself. The EUT was tested in three orthogonal axis.

The final radiated data was taken in the both transmitting and receiving modes. Please see Appendix E for the data sheets.

4.1.1 Cable Construction and Termination

There were no cables connected to the EUT.



5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT**5.1 EUT and Accessory List**

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIALNUMBER	FCC ID
NANO KEY (EUT)	GATEKEEPER SYSTEMS, INC.	K-9100	N/A	SOX-K9100



5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS					
Computer	Hewlett Packard	4530	US91912319	N/A	N/A
EMI Receiver	Rohde & Schwarz	ESIB40	100172	November 27, 2006	Nov. 27, 2008
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
Radiated Emissions Data Capture Program	Compatible Electronics	2.0	N/A	N/A	N/A
Biconical Antenna	Com Power	AB-900	15226	February 28, 2008	Feb. 28, 2009
Log Periodic Antenna	Com Power	AL-100	16060	July 9, 2007	July 9, 2008
Preamplifier	Com-Power	PA-102	1017	January 11, 2008	Jan. 11, 2009
Loop Antenna	Com Power	AL-130	17089	September 24, 2007	Sept. 24, 2009
Horn Antenna	Com Power	AH-118	10073	July 17, 2006	July 17, 2008
Microwave Preamplifier	Com Power	PA-122	181921	March 3, 2008	March 3, 2009
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A
Microwave Preamplifier	Com Power	PA-840	711013	March 3, 2008	March 3, 2009
Horn Antenna	Com-Power	AH826	71957	December 12, 2007	Dec. 12, 2009

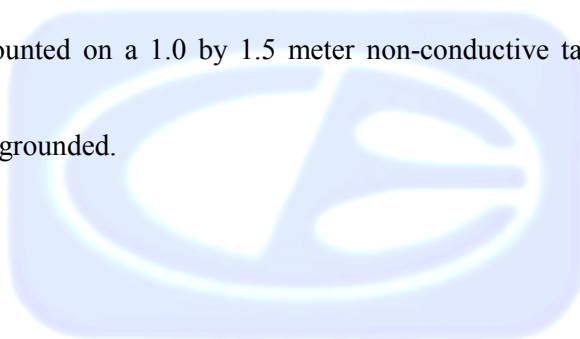
6. TEST SITE DESCRIPTION**6.1 Test Facility Description**

Please refer to section 2.1 and 7.1 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.



7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 RF Emissions

7.1.1 Radiated Emissions (Spurious and Harmonics) Test

The EMI Receiver was used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. The Com Power Preamplifier Model: PA-102 was used for frequencies from 30 MHz to 1 GHz, and the Com-Power Microwave Preamplifier Model: PA-122 was used for frequencies above 1 GHz. The EMI Receiver was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the EMI Receiver records the highest measured reading over all the sweeps.

The readings were averaged by a "duty cycle correction factor", derived from $20 \log$ (dwell time / one pulse train with blanking interval).

The measurement bandwidths and transducers used for the radiated emissions test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
9 kHz to 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 300 MHz	120 kHz	Biconical Antenna
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna
1 GHz to 25 GHz	1 MHz	Horn Antenna

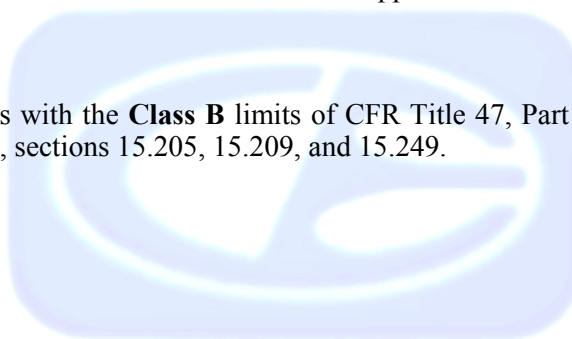
The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results. The loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results.

7.1.2 Radiated Emissions (Spurious and Harmonics) Test (Continued)

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance to obtain the final test data. The final qualification data sheets are located in Appendix E.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.249.



8. CONCLUSIONS

The Nano Key, Model: K-9100 meets all of the **Class B** specification limits defined in CFR Title 47, Part 15, Subpart B for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.249 for the transmitter portion.



APPENDIX A

LABORATORY RECOGNITIONS

LABORATORY RECOGNITIONS

Compatible Electronics has the following agency accreditations:

National Voluntary Laboratory Accreditation Program - Lab Code: 200528-0

Voluntary Control Council for Interference - Registration Numbers: R-983, C-1026, R-984 and C-1027

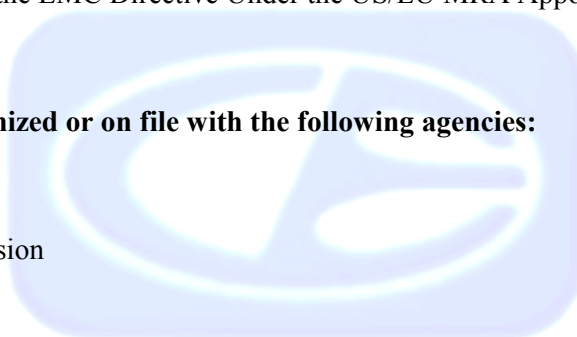
Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

Compatible Electronics is recognized or on file with the following agencies:

Federal Communications Commission

Industry Canada



APPENDIX B

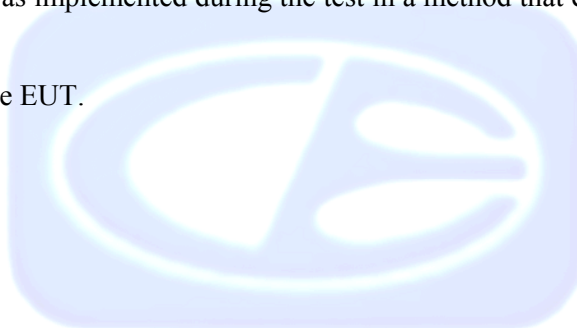
MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.249 or FCC Class B specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No modifications were made to the EUT.



APPENDIX C

***ADDITIONAL MODELS COVERED
UNDER THIS REPORT***

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Nano Key
Model: K-9100
S/N: N/A

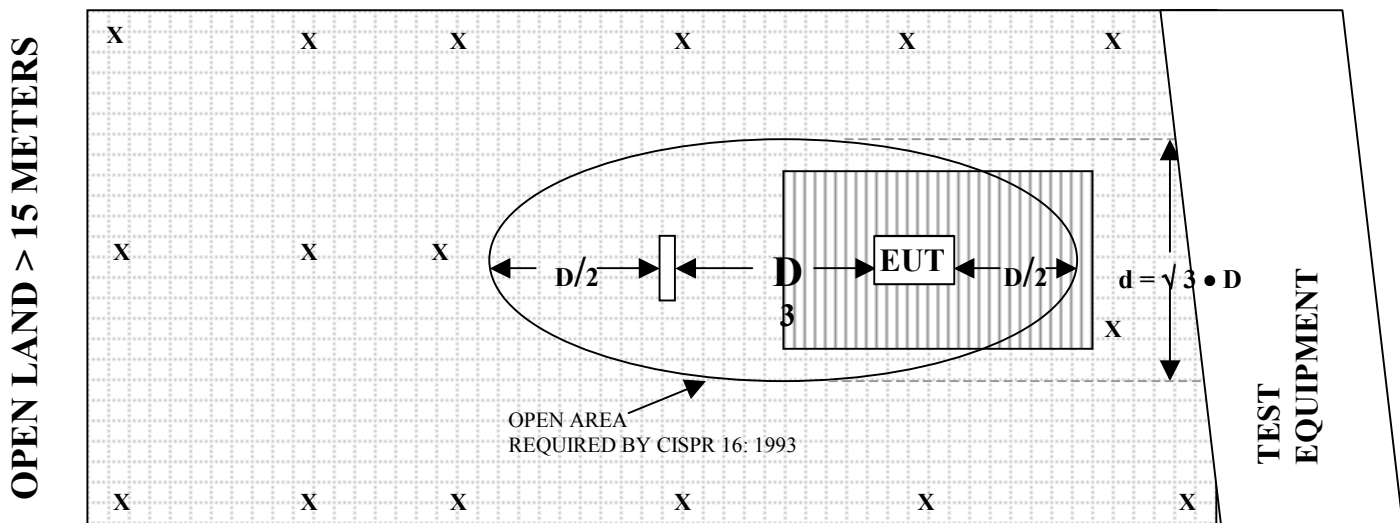
There were no additional models covered under this report.



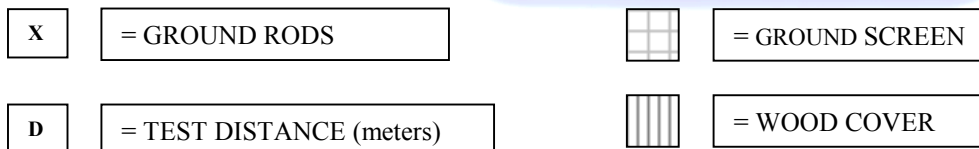
APPENDIX D***DIAGRAMS, CHARTS, AND PHOTOS***

FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED TEST SITE – 3 METERS

OPEN LAND > 15 METERS



OPEN LAND > 15 METERS



COM-POWER AB-900**BICONICAL ANTENNA****S/N: 15226****CALIBRATION DATE: FEBRUARY 28, 2008**

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	12.1	100	10.7
35	12.2	120	13.6
40	11.7	140	12.1
45	9.9	160	12.2
50	11.3	180	15.2
60	9.4	200	16.5
70	7.6	250	16.5
80	6.0	275	18.1
90	6.8	300	21.5

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16060

CALIBRATION DATE: JULY 9, 2007

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	13.5	700	20.5
400	15.8	800	21.6
500	17.0	900	21.3
600	19.2	1000	22.2

COM-POWER PA-103**PREAMPLIFIER**

S/N: 1017

CALIBRATION DATE: JANUARY 11, 2008

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	38.2	300	38.0
40	38.0	350	38.3
50	38.3	400	38.0
60	38.6	450	37.5
70	38.4	500	37.9
80	38.4	550	37.9
90	38.3	600	37.8
100	38.1	650	37.5
125	38.5	700	38.0
150	38.2	750	37.7
175	38.1	800	37.1
200	38.4	850	37.1
225	38.2	900	37.1
250	38.2	950	37.0
275	38.2	1000	36.5

COM-POWER PA-122**PREAMPLIFIER**

S/N: 181921

CALIBRATION DATE: MARCH 3, 2008

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	36.32	10.0	35.47
1.5	35.40	10.5	35.05
2.0	34.77	11.0	34.16
2.5	35.07	11.5	33.75
3.0	34.86	12.0	34.65
3.5	34.48	12.5	34.41
4.0	34.30	13.0	35.36
4.5	33.96	13.5	35.30
5.0	34.06	14.0	35.87
5.5	34.54	14.5	36.44
6.0	35.90	15.0	36.24
6.5	36.85	15.5	35.92
7.0	36.55	16.0	35.53
7.5	35.31	16.5	35.29
8.0	33.57	17.0	34.96
8.5	33.36	17.5	34.02
9.0	35.01	18.0	33.39
9.5	35.97		

COM-POWER AH-118**DOUBLE RIDGE HORN ANTENNA**

S/N: 10073

CALIBRATION DATE: JULY 17, 2006

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	25.331	10.0	42.391
1.5	27.507	10.5	39.194
2.0	31.581	11.0	38.504
2.5	30.906	11.5	40.724
3.0	30.276	12.0	41.079
3.5	30.396	12.5	41.014
4.0	30.881	13.0	41.201
4.5	32.77	13.5	42.335
5.0	34.067	14.0	43.248
5.5	33.914	14.5	45.639
6.0	34.028	15.0	43.197
6.5	35.779	15.5	41.751
7.0	38.347	16.0	42.462
7.5	39.096	16.5	41.908
8.0	39.377	17.0	40.277
8.5	38.646	17.5	48.117
9.0	37.438	18.0	54.113
9.5	38.403		

COM-POWER AL-130**LOOP ANTENNA**

S/N: 17089

CALIBRATION DATE: SEPTEMBER 24, 2007

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-41.27	10.23
0.01	-41.96	9.54
0.02	-41.73	9.77
0.03	-40.46	11.04
0.04	-40.56	10.94
0.05	-42.00	9.50
0.06	-41.30	10.20
0.1	-41.43	10.07
0.2	-43.90	7.60
0.3	-41.43	10.07
0.4	-41.40	10.10
0.5	-41.40	10.10
0.6	-40.93	10.57
1	-40.83	10.67
2	-40.3	11.20
5	-40.2	11.30
8	-40.6	10.90
9	-40.1	11.40
10	-40.4	11.10
15	-41.67	9.83
20	-41.10	10.40
25	-42.8	8.70
30	-42.8	8.70

COM-POWER PA-840**MICROWAVE PREAMPLIFIER**

S/N: 711013

CALIBRATION DATE: MARCH 3, 2008

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
18.0	27.49	29.5	26.44
18.5	28.46	30.0	26.95
19.0	28.98	30.5	26.42
19.5	28.46	31.0	27.11
20.0	28.23	31.5	27.27
20.5	27.44	32.0	26.76
21.0	26.91	32.5	24.49
21.5	26.65	33.0	23.19
22.0	26.50	33.5	22.57
22.5	27.15	34.0	22.11
23.0	27.36	34.5	23.52
23.5	27.08	35.0	24.86
24.0	26.36	35.5	25.52
24.5	24.95	36.0	25.81
25.0	26.83	36.5	22.08
25.5	27.00	37.0	23.31
26.0	27.58	37.5	26.91
26.5	26.02	38.0	25.89
27.0	24.20	38.5	24.75
27.5	23.64	39.0	25.77
28.0	26.39	39.5	25.83
28.5	26.66	40.0	27.62
29.0	26.40		

COM-POWER AH826**HORN ANTENNA****S/N: 71957****CALIBRATION DATE: DECEMBER 12, 2007**

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
18.0	33.5	22.5	35.5
18.5	33.5	23.0	35.9
19.0	34.0	23.5	35.7
19.5	34.0	24.0	35.6
20.0	34.3	24.5	36.0
20.5	34.9	25.0	36.2
21.0	34.7	25.5	36.1
21.5	35.0	26.0	36.2
22.0	35.0	26.5	35.7



FRONT VIEW

GATEKEEPER SYSTEMS, INC.

NANO KEY

MODEL: K-9100

FCC SUBPART B AND C – RADIATED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



REAR VIEW

GATEKEEPER SYSTEMS, INC.

NANO KEY

MODEL: K-9100

FCC SUBPART B AND C – RADIATED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

FCC 15.249

Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

X-Axis**Low Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4805.05	53.51	V	74	-20.49	Peak	1.43	125	
4805.05	37.0144	V	54	-16.986	Avg	1.43	125	Duty Cycle of 14.97%
7207.35	49.98	V	74	-24.02	Peak	1.35	150	
7207.35	33.4844	V	54	-20.516	Avg	1.35	150	Duty Cycle of 14.97%
9609.81	49.09	V	74	-24.91	Peak	1.35	150	
9609.81	32.5944	V	54	-21.406	Avg	1.35	150	Duty Cycle of 14.97%
12012.3		V	74	-74	Peak			No Emission
12012.3		V	54	-54	Avg			Detected
14414.7		V	74	-74	Peak			No Emission
14414.7		V	54	-54	Avg			Detected
16817.2		V	74	-74	Peak			No Emission
16817.2		V	54	-54	Avg			Detected
19216		V	74	-74	Peak			No Emission
19216		V	54	-54	Avg			Detected
21622		V	74	-74	Peak			No Emission
21622		V	54	-54	Avg			Detected
24024		V	74	-74	Peak			No Emission
24024		V	54	-54	Avg			Detected

FCC 15.249

Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

Y-Axis**Low Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4805.05	59.91	V	74	-14.09	Peak	1.99	135	
4805.05	43.4144	V	54	-10.586	Avg	1.99	135	Duty Cycle of 14.97%
7207.35	50.92	V	74	-23.08	Peak	1.73	135	
7207.35	34.4244	V	54	-19.576	Avg	1.73	135	Duty Cycle of 14.97%
9609.81	54.29	V	74	-19.71	Peak	1.55	135	
9609.81	37.7944	V	54	-16.206	Avg	1.55	135	Duty Cycle of 14.97%
12012.3		V	74	-74	Peak			No Emission
12012.3		V	54	-54	Avg			Detected
14414.7		V	74	-74	Peak			No Emission
14414.7		V	54	-54	Avg			Detected
16817.2		V	74	-74	Peak			No Emission
16817.2		V	54	-54	Avg			Detected
19216		V	74	-74	Peak			No Emission
19216		V	54	-54	Avg			Detected
21622		V	74	-74	Peak			No Emission
21622		V	54	-54	Avg			Detected
24024		V	74	-74	Peak			No Emission
24024		V	54	-54	Avg			Detected

FCC 15.249

Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

Z-Axis**Low Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4805.05	53.72	V	74	-20.28	Peak	2.21	135	
4805.05	37.2244	V	54	-16.776	Avg	2.21	135	Duty Cycle of 14.97%
7207.35	48.41	V	74	-25.59	Peak	1.89	125	
7207.35	31.9144	V	54	-22.086	Avg	1.89	125	Duty Cycle of 14.97%
9609.81	49.13	V	74	-24.87	Peak	1.89	135	
9609.81	32.6344	V	54	-21.366	Avg	1.89	135	Duty Cycle of 14.97%
12012.3		V	74	-74	Peak			No Emission
12012.3		V	54	-54	Avg			Detected
14414.7		V	74	-74	Peak			No Emission
14414.7		V	54	-54	Avg			Detected
16817.2		V	74	-74	Peak			No Emission
16817.2		V	54	-54	Avg			Detected
19216		V	74	-74	Peak			No Emission
19216		V	54	-54	Avg			Detected
21622		V	74	-74	Peak			No Emission
21622		V	54	-54	Avg			Detected
24024		V	74	-74	Peak			No Emission
24024		V	54	-54	Avg			Detected

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Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

X-Axi**Low Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4805.05	56.28	H	74	-17.72	Peak	2.48	315	
4805.05	39.7844	H	54	-14.216	Avg	2.48	315	Duty Cycle of 14.97%
7207.35	51.22	H	74	-22.78	Peak	1.41	225	
7207.35	34.7244	H	54	-19.276	Avg	1.41	225	Duty Cycle of 14.97%
9609.81	48.64	H	74	-25.36	Peak	1.41	125	
9609.81	32.1444	H	54	-21.856	Avg	1.41	125	Duty Cycle of 14.97%
12012.3		H	74	-74	Peak			No Emission
12012.3		H	54	-54	Avg			Detected
14414.7		H	74	-74	Peak			No Emission
14414.7		H	54	-54	Avg			Detected
16817.2		H	74	-74	Peak			No Emission
16817.2		H	54	-54	Avg			Detected
19216		H	74	-74	Peak			No Emission
19216		H	54	-54	Avg			Detected
21622		H	74	-74	Peak			No Emission
21622		H	54	-54	Avg			Detected
24024		H	74	-74	Peak			No Emission
24024		H	54	-54	Avg			Detected

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Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

Y-Axis**Low Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4805.05	56.75	H	74	-17.25	Peak	2.56	150	
4805.05	40.2544	H	54	-13.746	Avg	2.56	150	Duty Cycle of 14.97%
7207.35	48.37	H	74	-25.63	Peak	1.89	135	
7207.35	31.8744	H	54	-22.126	Avg	1.89	135	Duty Cycle of 14.97%
9609.81	48.29	H	74	-25.71	Peak	1.89	135	
9609.81	31.7944	H	54	-22.206	Avg	1.89	135	Duty Cycle of 14.97%
12012.3		H	74	-74	Peak			No Emission
12012.3		H	54	-54	Avg			Detected
14414.7		H	74	-74	Peak			No Emission
14414.7		H	54	-54	Avg			Detected
16817.2		H	--	--	Peak			No Emission
16817.2		H	--	--	Avg			Detected
19216		H	--	--	Peak			No Emission
19216		H	--	--	Avg			Detected
21622		H	--	--	Peak			No Emission
21622		H	--	--	Avg			Detected
24024		H	--	--	Peak			No Emission
24024		H	--	--	Avg			Detected

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Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

Z-Axis**Low Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4805.05	57.37	H	74	-16.63	Peak	1.74	315	
4805.05	40.8744	H	54	-13.126	Avg	1.74	315	Duty Cycle of 14.97%
7207.35	52.86	H	74	-21.14	Peak	1.44	225	
7207.35	36.3644	H	54	-17.636	Avg	1.44	225	Duty Cycle of 14.97%
9609.81	52.49	H	74	-21.51	Peak	1.41	125	
9609.81	35.9944	H	54	-18.006	Avg	1.41	125	Duty Cycle of 14.97%
12012.3		H	74	-74	Peak			No Emission
12012.3		H	54	-54	Avg			Detected
14414.7		H	74	-74	Peak			No Emission
14414.7		H	54	-54	Avg			Detected
16817.2		H	--	--	Peak			No Emission
16817.2		H	--	--	Avg			Detected
19216		H	--	--	Peak			No Emission
19216		H	--	--	Avg			Detected
21622		H	--	--	Peak			No Emission
21622		H	--	--	Avg			Detected
24024		H	--	--	Peak			No Emission
24024		H	--	--	Avg			Detected

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Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

X-Axis**Middle Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4878.65	56.68	V	74	-17.32	Peak	2.18	135	
4878.65	40.1844	V	54	-13.816	Avg	2.18	135	Duty Cycle of 14.97%
7317.97	48.68	V	74	-25.32	Peak	1.71	125	
7317.97	32.1844	V	54	-21.816	Avg	1.71	125	Duty Cycle of 14.97%
9757.31	51.78	V	74	-22.22	Peak	1.75	225	
9757.31	35.2844	V	54	-18.716	Avg	1.75	225	Duty Cycle of 14.97%
12196		V	74	-74	Peak			No Emission
12196		V	54	-54	Avg			Detected
14636		V	74	-74	Peak			No Emission
14636		V	54	-54	Avg			Detected
17075		V	--	--	Peak			No Emission
17075		V	--	--	Avg			Detected
19514		V	--	--	Peak			No Emission
19514		V	--	--	Avg			Detected
21954		V	--	--	Peak			No Emission
21954		V	--	--	Avg			Detected
24393		V	--	--	Peak			No Emission
24393		V	--	--	Avg			Detected

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Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

Y-Axis**Middle Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4878.65	57.94	V	74	-16.06	Peak	1.31	225	
4878.65	41.4444	V	54	-12.556	Avg	1.31	225	Duty Cycle of 14.97%
7317.97	49.47	V	74	-24.53	Peak	1.19	125	
7317.97	32.9744	V	54	-21.026	Avg	1.19	125	Duty Cycle of 14.97%
9757.31	51.95	V	74	-22.05	Peak	1.21	125	
9757.31	35.4544	V	54	-18.546	Avg	1.21	125	Duty Cycle of 14.97%
12196		V	74	-74	Peak			No Emission
12196		V	54	-54	Avg			Detected
14636		V	74	-74	Peak			No Emission
14636		V	54	-54	Avg			Detected
17075		V	--	--	Peak			No Emission
17075		V	--	--	Avg			Detected
19514		V	--	--	Peak			No Emission
19514		V	--	--	Avg			Detected
21954		V	--	--	Peak			No Emission
21954		V	--	--	Avg			Detected
24393		V	--	--	Peak			No Emission
24393		V	--	--	Avg			Detected

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Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

Z-Axis**Middle Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4878.65	53.22	V	74	-20.78	Peak	1.18	125	
4878.65	36.7244	V	54	-17.276	Avg	1.18	125	Duty Cycle of 14.97%
7317.97	48.32	V	74	-25.68	Peak	1.16	135	
7317.97	31.8244	V	54	-22.176	Avg	1.16	135	Duty Cycle of 14.97%
9757.31	51.56	V	74	-22.44	Peak	1.16	135	
9757.31	35.0644	V	54	-18.936	Avg	1.16	135	Duty Cycle of 14.97%
12196		V	74	-74	Peak			No Emission
12196		V	54	-54	Avg			Detected
14636		V	74	-74	Peak			No Emission
14636		V	54	-54	Avg			Detected
17075		V	--	--	Peak			No Emission
17075		V	--	--	Avg			Detected
19514		V	--	--	Peak			No Emission
19514		V	--	--	Avg			Detected
21954		V	--	--	Peak			No Emission
21954		V	--	--	Avg			Detected
24393		V	--	--	Peak			No Emission
24393		V	--	--	Avg			Detected

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Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

X-Axis**Middle Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4878.65	58.77	H	74	-15.23	Peak	2.14	150	
4878.65	42.2744	H	54	-11.726	Avg	2.14	150	Duty Cycle of 14.97%
7317.97	52.76	H	74	-21.24	Peak	2.14	135	
7317.97	36.2644	H	54	-17.736	Avg	2.14	135	Duty Cycle of 14.97%
9757.31	49.86	H	74	-24.14	Peak	2.15	135	
9757.31	33.3644	H	54	-20.636	Avg	2.15	135	Duty Cycle of 14.97%
12196		H	74	-74	Peak			No Emission
12196		H	54	-54	Avg			Detected
14636		H	74	-74	Peak			No Emission
14636		H	54	-54	Avg			Detected
17075		H	--	--	Peak			No Emission
17075		H	--	--	Avg			Detected
19514		H	--	--	Peak			No Emission
19514		H	--	--	Avg			Detected
21954		H	--	--	Peak			No Emission
21954		H	--	--	Avg			Detected
24393		H	--	--	Peak			No Emission
24393		H	--	--	Avg			Detected

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Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

Y-Axis**Middle Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4878.65	61.64	H	74	-12.36	Peak	2.17	0	
4878.65	45.1444	H	54	-8.8556	Avg	2.17	0	Duty Cycle of 14.97%
7317.97	48.53	H	74	-25.47	Peak	2.18	125	
7317.97	32.0344	H	54	-21.966	Avg	2.18	125	Duty Cycle of 14.97%
9757.31	54.36	H	74	-19.64	Peak	2.19	225	
9757.31	37.8644	H	54	-16.136	Avg	2.19	225	Duty Cycle of 14.97%
12196		H	74	-74	Peak			No Emission
12196		H	54	-54	Avg			Detected
14636		H	74	-74	Peak			No Emission
14636		H	54	-54	Avg			Detected
17075		H	--	--	Peak			No Emission
17075		H	--	--	Avg			Detected
19514		H	--	--	Peak			No Emission
19514		H	--	--	Avg			Detected
21954		H	--	--	Peak			No Emission
21954		H	--	--	Avg			Detected
24393		H	--	--	Peak			No Emission
24393		H	--	--	Avg			Detected

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Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

Z-Axis**Middle Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4878.65	60.22	H	74	-13.78	Peak	2.18	135	
4878.65	43.7244	H	54	-10.276	Avg	2.18	135	Duty Cycle of 14.97%
7317.97	51.41	H	74	-22.59	Peak	1.58	135	
7317.97	34.9144	H	54	-19.086	Avg	1.58	135	Duty Cycle of 14.97%
9757.31	51.73	H	74	-22.27	Peak	1.59	150	
9757.31	35.2344	H	54	-18.766	Avg	1.59	150	Duty Cycle of 14.97%
12196		H	74	-74	Peak			No Emission
12196		H	54	-54	Avg			Detected
14636		H	74	-74	Peak			No Emission
14636		H	54	-54	Avg			Detected
17075		H	--	--	Peak			No Emission
17075		H	--	--	Avg			Detected
19514		H	--	--	Peak			No Emission
19514		H	--	--	Avg			Detected
21954		H	--	--	Peak			No Emission
21954		H	--	--	Avg			Detected
24393		H	--	--	Peak			No Emission
24393		H	--	--	Avg			Detected

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Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

X-Axis**High Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4952.16	55.44	V	74	-18.56	Peak	1.82	135	
4952.16	38.9444	V	54	-15.056	Avg	1.82	135	Duty Cycle of 14.97%
7428.24	48.25	V	74	-25.75	Peak	1.69	135	
7428.24	31.7544	V	54	-22.246	Avg	1.69	135	Duty Cycle of 14.97%
9904.32	52.52	V	74	-21.48	Peak	1.71	125	
9904.32	36.0244	V	54	-17.976	Avg	1.71	125	Duty Cycle of 14.97%
12380		V	74	-74	Peak			No Emission
12380		V	54	-54	Avg			Detected
14856		V	74	-74	Peak			No Emission
14856		V	54	-54	Avg			Detected
17332		V	--	--	Peak			No Emission
17332		V	--	--	Avg			Detected
19808		V	--	--	Peak			No Emission
19808		V	--	--	Avg			Detected
22284		V	--	--	Peak			No Emission
22284		V	--	--	Avg			Detected
24760		V	--	--	Peak			No Emission
24760		V	--	--	Avg			Detected

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Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

Y-Axis**High Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4952.16	60.71	V	74	-13.29	Peak	1.27	135	
4952.16	44.2144	V	54	-9.7856	Avg	1.27	135	Duty Cycle of 14.97%
7428.24	48.41	V	74	-25.59	Peak	1.28	150	
7428.24	31.9144	V	54	-22.086	Avg	1.29	150	Duty Cycle of 14.97%
9904.32	52.13	V	74	-21.87	Peak	1.29	150	
9904.32	35.6344	V	54	-18.366	Avg	1.29	150	Duty Cycle of 14.97%
12380		V	74	-74	Peak			No Emission
12380		V	54	-54	Avg			Detected
14856		V	74	-74	Peak			No Emission
14856		V	54	-54	Avg			Detected
17332		V	--	--	Peak			No Emission
17332		V	--	--	Avg			Detected
19808		V	--	--	Peak			No Emission
19808		V	--	--	Avg			Detected
22284		V	--	--	Peak			No Emission
22284		V	--	--	Avg			Detected
24760		V	--	--	Peak			No Emission
24760		V	--	--	Avg			Detected

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Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

Z-Axis**High Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4952.16	61.04	V	74	-12.96	Peak	2.35	150	
4952.16	44.5444	V	54	-9.4556	Avg	2.35	150	Duty Cycle of 14.97%
7428.24	49.48	V	74	-24.52	Peak	2.34	135	
7428.24	32.9844	V	54	-21.016	Avg	2.34	135	Duty Cycle of 14.97%
9904.32	52.25	V	74	-21.75	Peak	2.35	150	
9904.32	35.7544	V	54	-18.246	Avg	2.35	150	Duty Cycle of 14.97%
12380		V	74	-74	Peak			No Emission
12380		V	54	-54	Avg			Detected
14856		V	74	-74	Peak			No Emission
14856		V	54	-54	Avg			Detected
17332		V	--	--	Peak			No Emission
17332		V	--	--	Avg			Detected
19808		V	--	--	Peak			No Emission
19808		V	--	--	Avg			Detected
22284		V	--	--	Peak			No Emission
22284		V	--	--	Avg			Detected
24760		V	--	--	Peak			No Emission
24760		V	--	--	Avg			Detected

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Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

X-Axis**High Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4952.16	58.22	H	74	-15.78	Peak	2.23	135	
4952.16	41.7244	H	54	-12.276	Avg	2.23	135	Duty Cycle of 14.97%
7428.24	52.26	H	74	-21.74	Peak	1.49	125	
7428.24	35.7644	H	54	-18.236	Avg	1.49	125	Duty Cycle of 14.97%
9904.32	52.04	H	74	-21.96	Peak	1.48	125	
9904.32	35.5444	H	54	-18.456	Avg	1.48	125	Duty Cycle of 14.97%
12380		H	74	-74	Peak			No Emission
12380		H	54	-54	Avg			Detected
14856		H	74	-74	Peak			No Emission
14856		H	54	-54	Avg			Detected
17332		H	--	--	Peak			No Emission
17332		H	--	--	Avg			Detected
19808		H	--	--	Peak			No Emission
19808		H	--	--	Avg			Detected
22284		H	--	--	Peak			No Emission
22284		H	--	--	Avg			Detected
24760		H	--	--	Peak			No Emission
24760		H	--	--	Avg			Detected

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Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

Y-Axis**High Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4952.16	62.02	H	74	-11.98	Peak	2.15	135	
4952.16	45.5244	H	54	-8.4756	Avg	2.15	135	Duty Cycle of 14.97%
7428.24	48.15	H	74	-25.85	Peak	2.16	150	
7428.24	31.6544	H	54	-22.346	Avg	2.16	150	Duty Cycle of 14.97%
9904.32	51.76	H	74	-22.24	Peak	2.19	125	
9904.32	35.2644	H	54	-18.736	Avg	2.19	125	Duty Cycle of 14.97%
12380		H	74	-74	Peak			No Emission
12380		H	54	-54	Avg			Detected
14856		H	74	-74	Peak			No Emission
14856		H	54	-54	Avg			Detected
17332		H	--	--	Peak			No Emission
17332		H	--	--	Avg			Detected
19808		H	--	--	Peak			No Emission
19808		H	--	--	Avg			Detected
22284		H	--	--	Peak			No Emission
22284		H	--	--	Avg			Detected
24760		H	--	--	Peak			No Emission
24760		H	--	--	Avg			Detected

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Gatekeeper Systems, Inc.

Nano Key

Model: K-9100

Date: 06/24/08

Lab: B

Tested By: Kyle Fujimoto

Z-Axis**High Channel**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4952.16	60.01	H	74	-13.99	Peak	1.41	125	
4952.16	43.5144	H	54	-10.486	Avg	1.41	125	Duty Cycle of 14.97%
7428.24	48.11	H	74	-25.89	Peak	1.42	125	
7428.24	31.6144	H	54	-22.386	Avg	1.42	125	Duty Cycle of 14.97%
9904.32	53.24	H	74	-20.76	Peak	1.42	125	
9904.32	36.7444	H	54	-17.256	Avg	1.42	125	Duty Cycle of 14.97%
12380		H	74	-74	Peak			No Emission
12380		H	54	-54	Avg			Detected
14856		H	74	-74	Peak			No Emission
14856		H	54	-54	Avg			Detected
17332		H	--	--	Peak			No Emission
17332		H	--	--	Avg			Detected
19808		H	--	--	Peak			No Emission
19808		H	--	--	Avg			Detected
22284		H	--	--	Peak			No Emission
22284		H	--	--	Avg			Detected
24760		H	--	--	Peak			No Emission
24760		H	--	--	Avg			Detected

BAND EDGES

DATA SHEETS

FCC 15.249

Gatekeeper Systems, Inc.
 Nano Key
 Model: K-9100

Date: 06/24/08
 Lab: B
 Tested By: Kyle Fujimoto

Band Edges and Fundamental of Low and High Channel - Vertical Polarization
Duty Cycle = 14.97%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2402.38	84.98	V	114	-29.02	Peak	1.65	180	Fundamental of Low Channel
2402.38	68.4844	V	94	-25.516	Avg	1.65	180	@ 3 Meters - X-Axis
2400	58.96	V	74	-15.04	Peak	1.64	180	Band Edge Low Channel
2400	42.4644	V	54	-11.536	Avg	1.64	180	X-Axis
2402.38	91.31	V	114	-22.69	Peak	2.11	135	Fundamental of Low Channel
2402.38	74.8144	V	94	-19.186	Avg	2.11	135	@ 3 Meters - Y-Axis
2400	65.98	V	74	-8.02	Peak	2.11	135	Band Edge Low Channel
2400	49.4844	V	54	-4.5156	Avg	2.11	135	Y-Axis
2402.38	83.69	V	114	-30.31	Peak	1.15	225	Fundamental of Low Channel
2402.38	67.1944	V	94	-26.806	Avg	1.15	225	@ 3 Meters - Z-Axis
2400	57.11	V	74	-16.89	Peak	1.15	225	Band Edge Low Channel
2400	40.6144	V	54	-13.386	Avg	1.15	225	Z-Axis
2476.25	85.47	V	114	-28.53	Peak	1.65	180	Fundamental of High Channel
2476.25	68.9744	V	94	-25.026	Avg	1.65	180	@ 3 Meters - X-Axis
2483.5	52.98	V	74	-21.02	Peak	1.56	180	Band Edge High Channel
2483.5	36.4844	V	54	-17.516	Avg	1.56	180	X-Axis
2476.25	88.59	V	114	-25.41	Peak	1.94	135	Fundamental of High Channel
2476.25	72.0944	V	94	-21.906	Avg	1.94	135	@ 3 Meters - Y-Axis
2483.5	55.14	V	74	-18.86	Peak	1.94	90	Band Edge High Channel
2483.5	38.6444	V	54	-15.356	Avg	1.94	90	Y-Axis
2476.25	85.76	V	114	-28.24	Peak	2.31	90	Fundamental of High Channel
2476.25	69.2644	V	94	-24.736	Avg	2.31	90	@ 3 Meters - Z-Axis
2483.5	52.71	V	74	-21.29	Peak	2.31	90	Band Edge High Channel
2483.5	36.2144	V	54	-17.786	Avg	2.31	90	Z-Axis

Gatekeeper Systems, Inc.
Nano Key
Model: K-9100

Date: 06/24/08
Lab: B
Tested By: Kyle Fujimoto

Fundamental of Middle Channel - Vertical and Horizontal Polarization
Duty Cycle = 14.97%

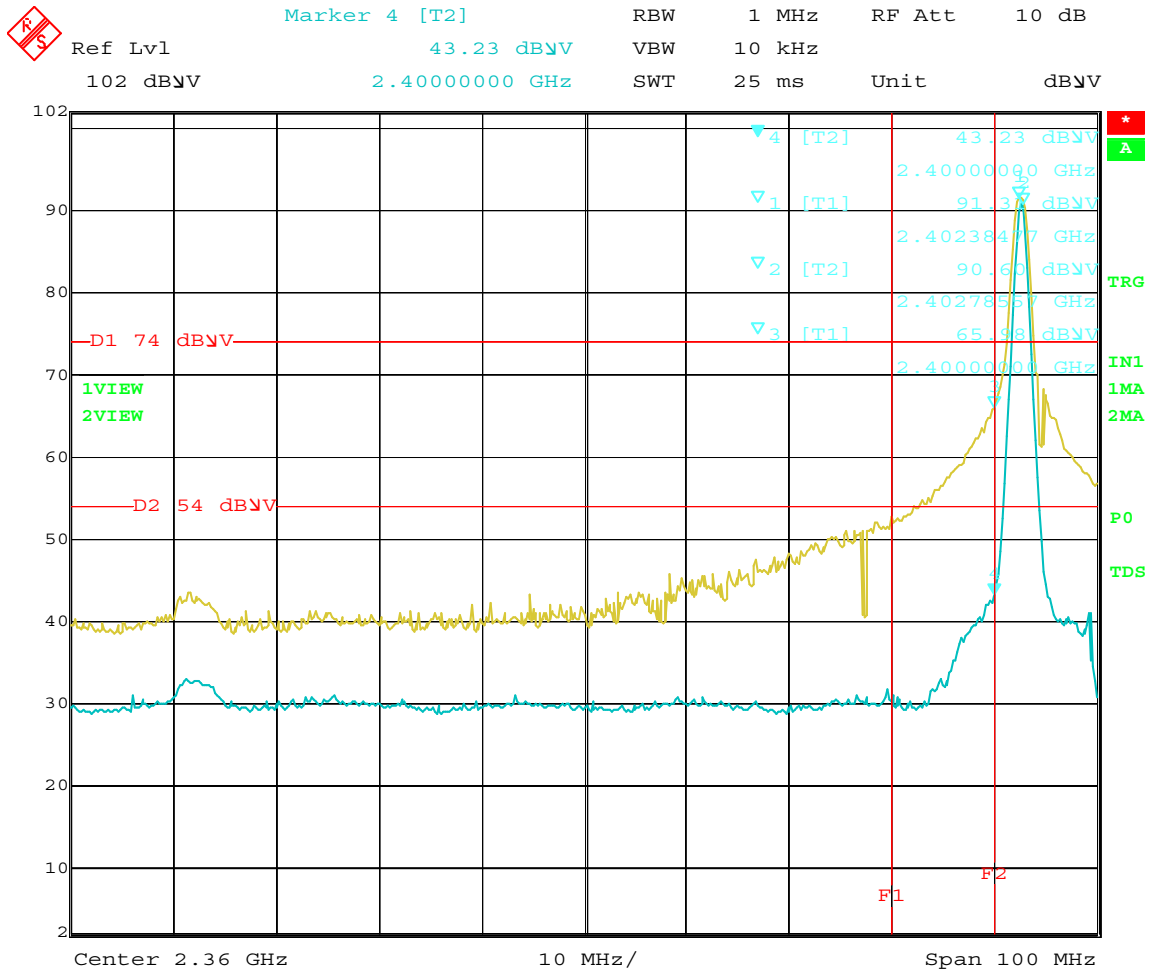
[illegible]

Gatekeeper Systems, Inc.
Nano Key
Model: K-9100

Date: 06/24/08
Lab: B
Tested By: Kyle Fujimoto

Band Edges and Fundamental of Low and High Channel - Horizontal Polarization
Duty Cycle = 14.97%

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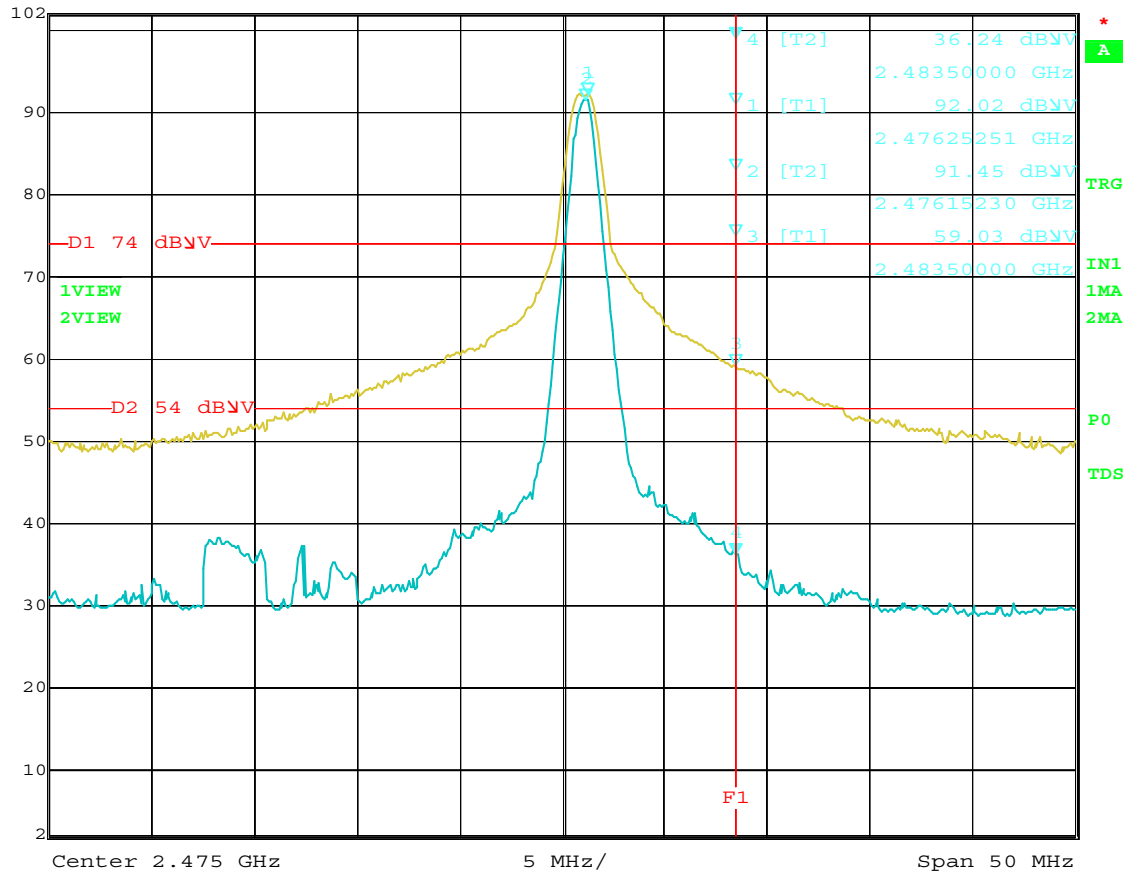


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Band Edge – Low Channel – Y-Axis (Worst Case) – Vertical Polarization (Worst Case)



Marker 4 [T2] RBW 1 MHz RF Att 10 dB
Ref Lvl 36.24 dBV VBW 10 kHz
102 dBV 2.48350000 GHz SWT 12.5 ms Unit dBV



Date: 24.JUN.2008 16:03:32

Band Edge – High Channel – X-Axis (Worst Case)
Horizontal Polarization (Worst Case)