



Product Name	U-NET Series
Model No.	SP804-2
FCC ID.	FU5TR009-01

Applicant	EVERSPRING INDUSTRY CO., LTD
Address	7th fl. 609 Wan Shou Road Sec. 1,Kweishan, Taoyuan Hsien
	333, Taiwan, R.O.C.

Date of Receipt	Mar. 19, 2009
Issued Date	Apr. 03, 2009
Report No.	093312R-RFUSP07V01
Report Version	V1.0

The Test Results relate only to the samples tested.

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Test Report Certification

Issued Date: Apr. 03, 2009

Report No.: 093312R-RFUSP07V01



Product Name	U-NET Series		
Applicant	EVERSPRING INDUSTRY CO., LTD		
Address	7th fl. 609 Wan Shou Road Sec. 1,Kweishan, Taoyuan Hsien 333,Taiwan, R.O.C.		
Manufacturer	Dong-Guan Li Yuan Electronics Co., Ltd		
Model No.	SP804-2		
FCC ID.	FU5TR009-01		
Rated Voltage	DC 4.5V(Battery 1.5V*3)		
Working Voltage	DC 4.5V(Battery 1.5V*3)		
Trade Name	EVERSPRING		
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2008		
	ANSI C63.4: 2003 NVLAP Lab Code: 200533-0		
Test Result	Complied		

The Test Results relate only to the samples tested.

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Documented By: Leven Huang

(Adm. Specialist / Leven Huang)

FC

Tested By: Dino Chen

(Engineer / Dino Chen)

Approved By

Allow S

(Manager / Vincent Lin)





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Attachment 1: EUT Test Photographs Attachment 2: EUT Detailed Photographs



1. GENERAL INFORMATION

1.1. EUT Description

Product Name	U-NET Series
Trade Name	EVERSPRING
FCC ID.	FU5TR009-01
Model No.	SP804-2
Frequency Range	923MHz
Type of Modulation	FSK
Number of Channels	1
Channel Control	Auto
Antenna Type	Monopole
Antenna Gain	Refer to the table "Antenna List"

Antenna List

No.	Manufacturer	Part No.	Peak Gain
1	EVERSPRING	N/A	-5.37dBi for 923MHz

Center Frequency of Each Channel:

Channel	Frequency
Channel 1	923 MHz

- 1. The EUT is a U-NET Series with a built-in transceiver module.
- 2. These tests are conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.249.
- 3. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode	Mode 1: Transmitter
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1.2. Operation Description

The EUT is a U-NET Series with a built-in transceiver module. The EUT operation frequency is 923MHz. The signals modulated by FSK are transmitted from the Monopole Antenna of the EUT.

The detector can be used as a security device or home automation device. When the detector is cooperated with security appliances, the detector is acting as a security device by detecting changes in infra-red radiation levels. If a person moves within or across the devices field of vision, a trigger radio signal will be transmitted to cause full alarm condition in order to frighten intruders away. Alternatively, when the detector is worked with Everspring USB Dongle (SA804), the detector can be set to perform the role of home automation device by detecting both changes in infra-red radiation levels and percentage of lux levels. Once night falls, the percentage of ambient illumination is lower than preset value. If a person moves within or across the devices field of vision, a trigger radio signal will be transmitted so as to turn connected lightings for better illumination.



1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
		N/A		
Signal Cable Type		Signal cabl	e Description	
N/A				

1.4. Configuration of Test System

EUT	

1.5. EUT Exercise Software

- (1) Setup the EUT as shown in section 1.4.
- (2) Open the EUT power.
- (3) Start the continuous transmits.
- (4) Verify that the EUT works correctly.



1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site: http://tw.quietek.com/modules/myalbum/
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site: http://www.quietek.com/

Site Description: File on

Federal Communications Commission

FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046 Registration Number: 92195

Accreditation on NVLAP NVLAP Lab Code: 200533-0

Site Name: Quietek Corporation

Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,

Lin-Kou Shiang, Taipei,

Taiwan, R.O.C.

TEL: 886-2-8601-3788 / FAX: 886-2-8601-3789

E-Mail: service@quietek.com

FCC Accreditation Number: TW1014











2. Conducted Emission

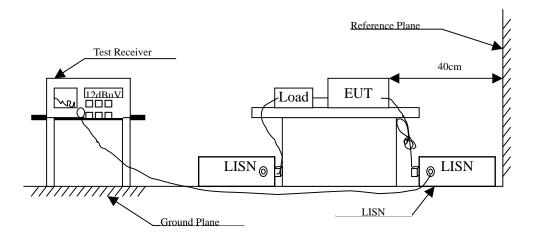
2.1. Test Equipment

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2008	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2008	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2008	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2008	
5	No.1 Shielded Room	N/A			

Note: All instruments are calibrated every one year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit						
Frequency	Limits					
MHz	QP	AV				
0.15 - 0.50	66-56	56-46				
0.50-5.0	56	46				
5.0 - 30	60	50				

Remarks: In the above table, the tighter limit applies at the band edges.



2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

± 2.26 dB



2.6. Test Result of Conducted Emission

The EUT is powered by batteries. This test item is not performed.

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3. Radiated Emission

3.1. Test Equipment

The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☐Site # 1		Test Receiver	R & S	ESVS 10 / 834468/003	May, 2008
		Spectrum Analyzer	Advantest	R3162/00803480	May, 2008
		Pre-Amplifier	Advantest	BB525C/ 3307A01812	May, 2008
		Bilog Antenna	SCHAFFNER	CBL6112B / 2697	Sep., 2008
Site # 2		Test Receiver	R & S	ESCS 30 / 836858 / 022	May, 2008
		Spectrum Analyzer	Advantest	R3162 / 100803466	May, 2008
		Pre-Amplifier	Advantest	BB525C/3307A01814	May, 2008
		Bilog Antenna	SCHAFFNER	CBL6112B / 2705	May, 2008
		Horn Antenna	ETS	3115 / 0005-6160	Sep., 2008
		Pre-Amplifier	QTK	QTK-AMP-01/0001	May, 2008
⊠Site # 3	X	Test Receiver	R & S	ESI 26 / 838786/004	May, 2008
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2008
	X	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2008
	X	Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2008
	X	Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2008
	X	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2008
	X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2008
	X	Pre-Amplifier	HP	8449B / 3008A01123	July, 2008

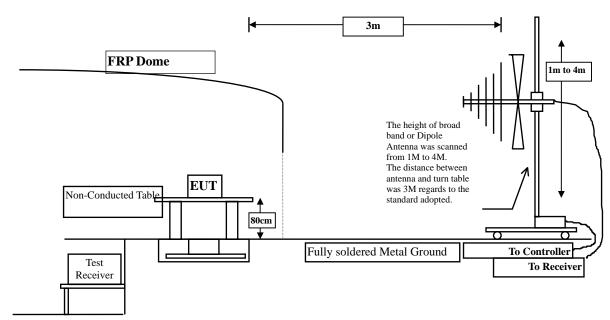
Note: 1. All equipments are calibrated every one year.

^{2.} Test equipments marked by "X" are used to measure the final test results.

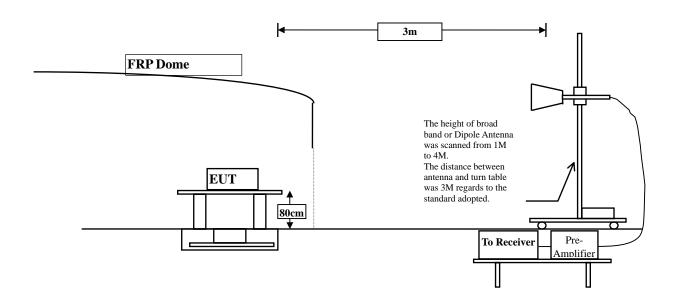


3.2. Test Setup

Below 1GHz



Above 1GHz





3.3. Limits

> Fundamental and Harmonics Emission Limits

FCC Part 15 Subpart C Paragraph 15.249 Limits							
Frequency	Field Strength	of Fundamental	Field Strength of Harmonics				
MHz	(mV/m @3m) (dBuV/m @3m)		(uV/m @3m)	(dBuV/m @3m)			
902-928	50	94	500	54			
2400-2483.5	50	94	500	54			
5725-5875	50	94	500	54			

Remarks: 1. RF Voltage $(dBuV/m) = 20 \log RF$ Voltage (uV/m)

2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits						
Frequency MHz	dBuV/m@3m					
30-88	100	40				
88-216	150	43.5				
216-960	200	46				
Above 960	500	54				

Remarks: 1. RF Voltage $(dBuV/m) = 20 \log RF$ Voltage (uV/m)

- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.



3.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

Radiated emission measurements below 1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB beamwidth of the antenna.

The worst radiated emission is measured on the Final Measurement.

The frequency range from 30MHz to 10th harminics is checked.

3.5. Uncertainty

- ± 3.9 dB above 1GHz
- ± 3.8 dB below 1GHz



3.6. Test Result of Radiated Emission

Product : U-NET Series

Test Item : Fundamental Radiated Emission

Test Site : No.3OATS

Test Mode : Mode 1: Transmitter (923MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					_
Peak Detector:					
923.000	5.816	104.240	110.056	-3.944	114.000

Note:

1. Measurement Level = Reading Level + Correct Factor.

2. Correct Factor = Antenna Factor + Cable Loss – PreAMP.

Frequency	Peak	Duty Cycle	Measurement	Margin	Limit
	Measurement	Factor	Level		
MHz	dBuV/m	dB	dBuV/m	dB	dBuV/m
Horizontal					
Average Detector:					
923.000	110.056	-20.000	90.056	-3.944	94.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle
- 2. The Duty Cycle is refer to section 5.
- 3. If Duty Cycle is smaller than -20dB,based on FCC part15 the duty cycle correction factor is -20dB for calculating average emission.



Test Item : Fundamental Radiated Emission

Test Site : No.3OATS

Test Mode : Mode 1: Transmitter (923MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Vertical					
Peak Detector:					
923.000	5.053	95.240	100.293	-13.707	114.000

Note:

1. Measurement Level = Reading Level + Correct Factor.

2. Correct Factor = Antenna Factor + Cable Loss – PreAMP.

Frequency	Peak	Duty Cycle	Measurement	Margin	Limit
	Measurement	Factor	Level		
MHz	dBuV/m	dB	dBuV/m	dB	dBuV/m
Vertical					
Average Detector:					
923	100.293	-20.000	80.293	-13.707	94.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle
- 2. The Duty Cycle is refer to section 5.
- 3. If Duty Cycle is smaller than -20dB,based on FCC part15 the duty cycle correction factor is -20dB for calculating average emission.



Test Item : Harmonic Radiated Emission Data

Test Site : No.3 OATS

Test Mode : Mode 1: Transmitter (923MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
1846.000	-4.031	51.490	47.459	-26.541	74.000
2769.000	0.758	44.890	45.648	-28.352	74.000
3692.000	-0.119	53.290	53.171	-20.829	74.000
4615.000	2.334	49.180	51.514	-22.486	74.000
5538.000	3.373	52.960	56.333	-17.667	74.000
6461.000	4.683	48.500	53.183	-20.817	74.000
7384.000	5.208	47.280	52.488	-21.512	74.000
8307.000	8.386	42.950	51.336	-22.664	74.000
9230.000	11.487	43.560	55.046	-18.954	74.000

Average Detector:

--

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the too weak instrument of signal is unable to test.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Average Detector:

Frequency	Peak	Duty Cycle	Measurement	Margin	Limit
	Measurement	Factor	Level		
MHz	dBuV/m	dB	dBuV/m	dB	dBuV/m
Horizontal					
5538	56.333	-20.000	36.333	-17.667	54.000
9230	55.046	-20.000	35.046	-18.954	54.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle
- 2. The Duty Cycle is refer to section 5.
- 3. If Duty Cycle is smaller than -20dB, based on FCC part15 the duty cycle correction factor is -20dB for calculating average emission.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.



Test Item : Harmonic Radiated Emission Data

Test Site : No.3 OATS

Test Mode : Mode 1: Transmitter (923MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Vertical					
Peak Detector:					
1846.000	-3.040	55.220	52.180	-21.820	74.000
2769.000	-0.135	43.570	43.435	-30.565	74.000
3692.000	0.034	51.150	51.183	-22.817	74.000
4615.000	2.866	48.170	51.036	-22.964	74.000
5538.000	4.688	53.070	57.758	-16.242	74.000
6461.000	4.116	47.930	52.046	-21.954	74.000
7384.000	5.891	49.270	55.161	-18.839	74.000
8307.000	9.768	44.300	54.068	-19.932	74.000
9230.000	12.427	42.130	54.556	-19.444	74.000

Average Detector:

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the too weak instrument of signal is unable to test.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Average Detector:

Frequency	Peak Measurement	Duty Cycle Factor	Measurement Level	Margin	Limit
MHz	dBuV/m	dB	dBuV/m	dB	dBuV/m
Vertical					
5538	57.758	-20.000	37.758	-16.242	54.000
7384	55.161	-20.000	35.161	-18.839	54.000
8307	54.068	-20.000	34.068	-19.932	54.000
9230	54.556	-20.000	34.556	-19.444	54.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle
- 2. The Duty Cycle is refer to section 5.
- 3. If Duty Cycle is smaller than -20dB,based on FCC part15 the duty cycle correction factor is -20dB for calculating average emission.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.



Test Item : General Radiated Emission Data

Test Site : No.3 OATS

Test Mode : Mode 1: Transmitter (923 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
307.420	-3.718	30.120	26.402	-19.598	46.000
369.500	-1.619	30.104	28.485	-17.515	46.000
460.680	1.131	29.611	30.742	-15.258	46.000
515.000	1.104	30.631	31.735	-14.265	46.000
604.240	4.254	29.909	34.164	-11.836	46.000
747.800	2.783	36.168	38.951	-7.049	46.000
Vertical					
344.280	-3.485	30.262	26.777	-19.223	46.000
458.740	-4.343	29.035	24.692	-21.308	46.000
526.640	-0.945	28.956	28.012	-17.988	46.000
606.180	-2.106	29.728	27.622	-18.378	46.000
747.800	1.653	30.200	31.853	-14.147	46.000
846.740	2.210	29.706	31.916	-14.084	46.000

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. "means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor



4. Band Edge

4.1. Test Equipment

The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Test Receiver	R & S	ESI 26 / 838786/004	May, 2008
X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2008
X	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2008
X	Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2008
X	Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2008
X	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2008
X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2008
X	Pre-Amplifier	HP	8449B / 3008A01123	July, 2008
O AT	CN 2			

OATS No.3

Note: 1. All equipments are calibrated every one year.

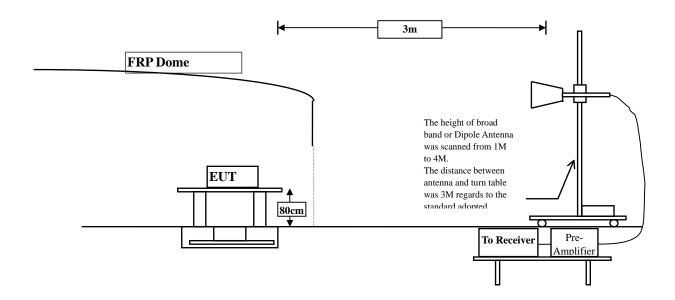
2. The test equipments marked by "X" are used to measure the final test results.



4.2. Test Setup

RF Radiated Measurement:

Above 1GHz



4.3. Limit

Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).



4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2003 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30)is 120 kHz, above 1GHz are 1 MHz.

4.5. Uncertainty

Conducted is ± 1.27 dB

Radiated is \pm 3.9 dB.



4.6. Test Result of Band Edge

Product : U-NET Series
Test Item : Band Edge Data
Test Site : No.3 OATS

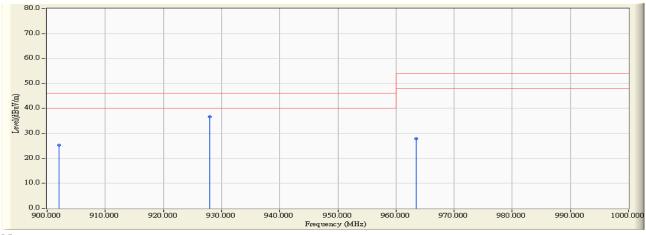
Test Mode : Mode 1: Transmitter (923MHz)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Quasi-Peak Limit (dBuV/m)	Result
01(Quasi-Peak)	902.000	4.106	21.310	25.415	46.000	Pass
01(Quasi-Peak)	928.000	4.622	31.960	36.581	46.000	Pass
01(Quasi-Peak)	963.520	5.234	22.740	27.974	54.000	Pass

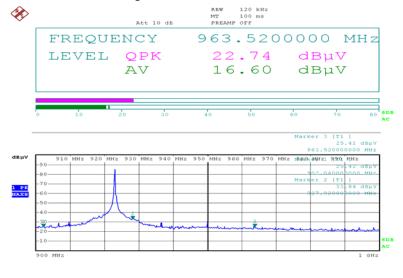
Figure Channel 01:

Horizontal (Quasi-Peak)



Note:

- 1. Quasi-Peak measurements: RBW=100kHz,VBW=1MHz,Sweep: Auto.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.



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Product : U-NET Series
Test Item : Band Edge Data
Test Site : No.3 OATS

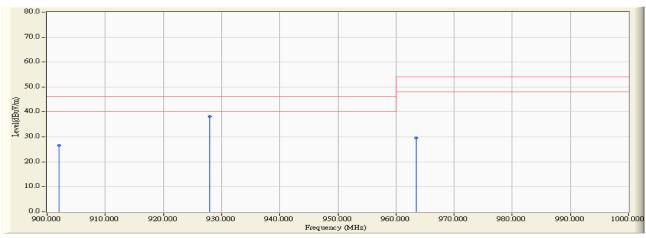
Test Mode : Mode 1: Transmitter (923MHz)

RF Radiated Measurement (Vertical):

	Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Quasi-Peak Limit (dBuV/m)	Result
Ī	01(Quasi-Peak)	902.000	5.256	21.380	26.636	46.000	Pass
	01(Quasi-Peak)	928.000	5.602	32.540	38.141	46.000	Pass
Ī	01(Quasi-Peak)	963.480	5.974	23.520	29.494	54.000	Pass

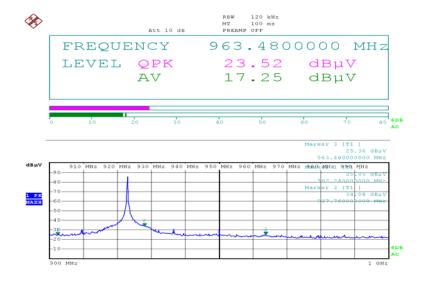
Figure Channel 01:

Vertical (Quasi-Peak)



Note:

- 1. Quasi-Peak measurements: RBW=100kHz,VBW=1MHz,Sweep: Auto.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.



Date: 30.MAR.2009 23:19:01



5. Duty Cycle

5.1. Test Equipment

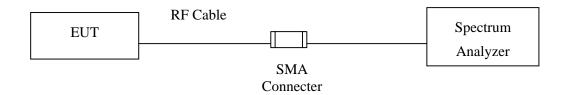
The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr, 2009

Note:

- 1. All equipments are calibrated every one year.
- 2. The test equipments marked by "X" are used to measure the final test results.

5.2. Test Setup



5.3. Uncertainty

 \pm 150Hz

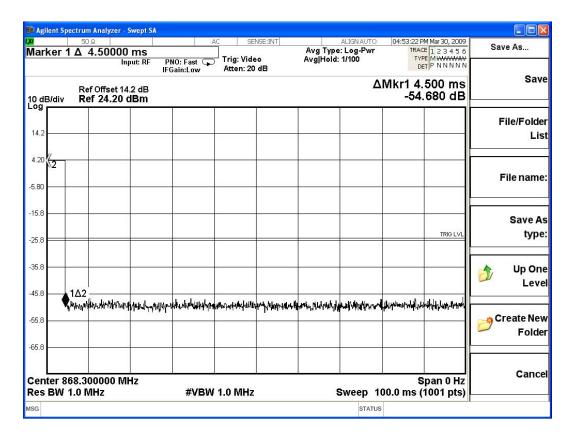


5.4. Test Result of Duty Cycle

Product : U-NET Series
Test Item : Duty Cycle Data
Test Give No. 2 OATS

Test Site : No.3 OATS

Test Mode : Mode 1: Transmitter (923MHz)



Time on of 100ms= 4.500msec

Duty Cycle= 4.5 / 100msec= 0.045

Duty Cycle correction factor= 20 LOG 0.045 = -26.936 dB

Duty Cycle correction factor	-20.00	dB
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Remark: If Duty Cycle is smaller than -20dB,based on FCC part15 the duty cycle correction factor is -20dB for calculating average emission.



6. EMI Reduction Method During Compliance Testing

No modification was made during testing.

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