

# FCC Test Report

Product Name	FIELDBOOK
Model No.	E1
FCC ID	XGIFBE1

Applicant	LOGIC INSTRUMENT S.A.
Address	43 Avenue de l'Europe, BP60012, 95330 DOMONT cedex, France.

Date of Receipt	Jul. 04, 2013
Issued Date	Aug. 13, 2013
Report No.	137173R-RFUSP39V01
Report Version	V1.0



The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of QuietTek Corporation.  
This report must not be used to claim product endorsement by TAF any agency of the U.S. Government

# Test Report Certification

Issued Date: Aug. 13, 2013

Report No.: 137173R-RFUSP39V01



Product Name	FIELDBOOK
Applicant	LOGIC INSTRUMENT S.A.
Address	43 Avenue de l'Europe, BP60012, 95330 DOMONT cedex, France.
Manufacturer	Ubiqconn Technology, Inc.
Model No.	E1
FCC ID.	XGIFBE1
EUT Rated Voltage	AC 100-240V, 50-60Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	TETRA RUGGED COMPUTERS
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2012 ANSI C63.4: 2003, ANSI C63.10: 2009
Test Result	Complied

Test results relate only to the samples tested.

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Documented By :

A handwritten signature in blue ink that reads 'Joanne Lin'.

( Senior Adm. Specialist / Joanne Lin )

Tested By :

A handwritten signature in blue ink that reads 'Nowal Kuo'.

( Assistant Engineer / Nowal Kuo )

Approved By :

A handwritten signature in black ink that reads 'Vincent Lin'.

( 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	FIELDBOOK
Trade Name	TETRA RUGGED COMPUTERS
Model No.	E1
FCC ID	XGIFBE1
Frequency Range	13.56MHz
Modulation	ASK
Antenna Type	Loop Antenna
Power Adapter	MFR: ELEMENTECH, M/N: AU12412030 Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 12V, 2A Cable Out: Non-Shielded, 1.6m

Frequency of Each Channel:

Channel	Frequency
Channel 1:	13.56 MHz

Note:

1. This device is an FIELDBOOK , Contains functions and so on WiFi 、 Bluetooth 、 NFC 、 GPS , This report for NFC.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.225
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: Transmit mode
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## **1.2. Operational Description**

EUT is an FIELDBOOK with a built-in 13.56MHz transceiver with ASK modulation. The signal will be transmitted through 13.56 MHz RF signal from the Connector antenna.

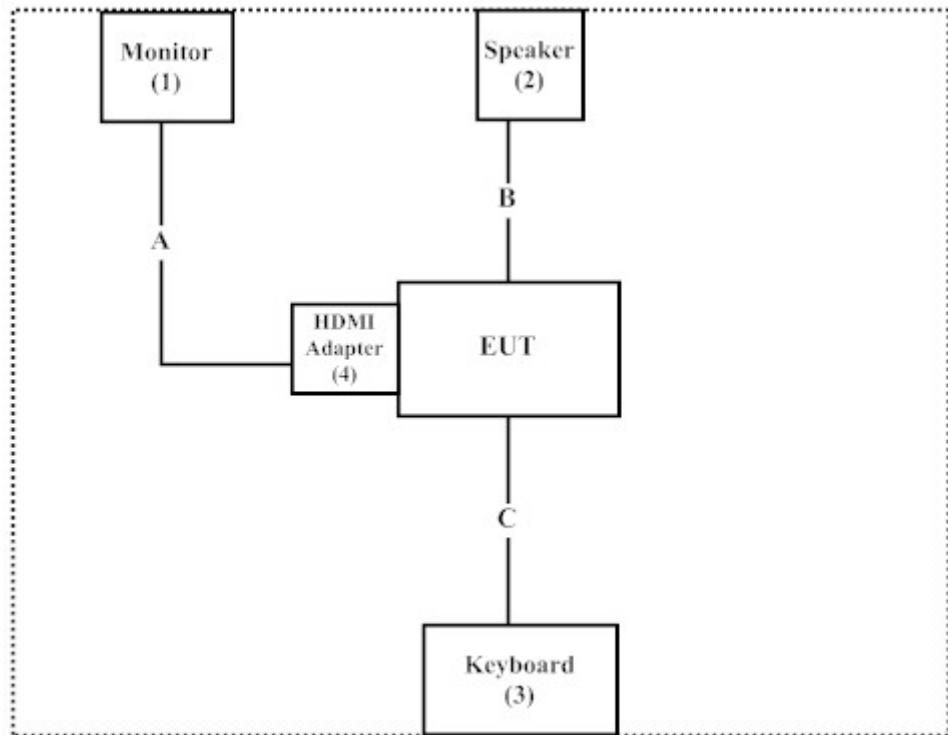
### 1.3. Tested System Details

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
1	Monitor	DELL	ST232029	N/A	N/A
2	Speaker	PHILIPS	SBP1100	HS1A0825057486	N/A
3	Keyboard	Logitech	Y-UR83	SY853UK	N/A
4	HDMI Adapter	Avier	N/A	N/A	N/A

Signal Cable Type		Signal cable Description
A	HDMI Cable	Non-Shielded, 1.5m
B	Speaker Cable	Non-Shielded, 1.5m
C	Keyboard Cable	Non-Shielded, 1.2m

### 1.4. Configuration of tested System



## 1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Turn on the power of all equipments.
- (3) Start the continuous transmitter.
- (4) Verify that the EUT works properly.

## 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://www.quietek.com/tw/ctg/cts/accreditations.htm>

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

Site Description: Accredited by TAF  
Accredited Number: 0914

Site Name: Quietek Corporation  
Site Address: No.5-22, Ruishukeng,  
Linkou Dist. New Taipei City 24451,  
Taiwan, R.O.C.  
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789  
E-Mail : [service@quietek.com](mailto:service@quietek.com)

FCC Accreditation Number: TW1014

## 2. Conducted Emission

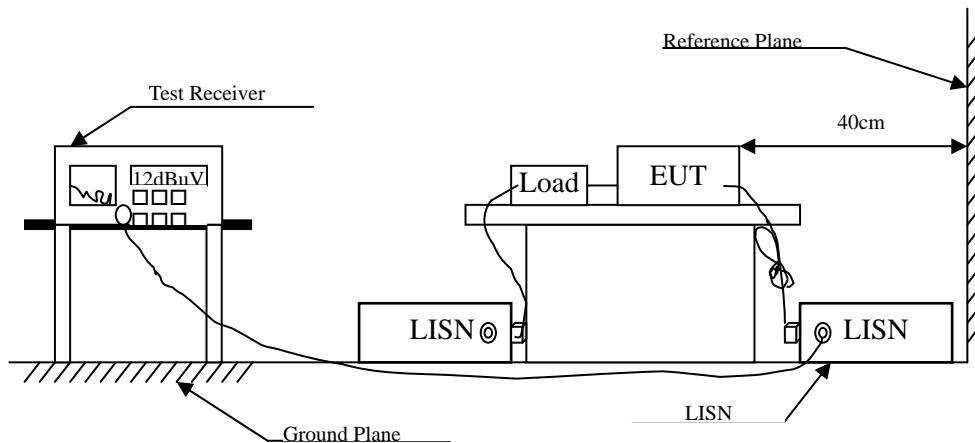
### 2.1. Test Equipment

Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
X Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2012	
X Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2013	Peripherals
X LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2013	EUT
DC LISN	Schwarzbeck	8226 / 176	Mar., 2013	EUT
X Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2013	
No.1 Shielded Room				

Note:

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

### 2.2. Test Setup



## 2.3. Limits

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

## 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 C63.10: 2009 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

Product : FIELDBOOK  
 Test Item : Conducted Emission Test  
 Power Line : Line 1  
 Test Mode : Mode 1: Transmit mode

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
<b>LINE 1</b>					
<b>Quasi-Peak</b>					
0.185	9.698	40.940	50.638	-14.362	65.000
0.216	9.699	33.250	42.949	-21.165	64.114
0.263	9.702	32.030	41.732	-21.039	62.771
0.439	9.710	34.560	44.270	-13.473	57.743
0.986	9.734	22.520	32.254	-23.746	56.000
5.232	9.830	14.840	24.670	-35.330	60.000
<b>Average</b>					
0.185	9.698	25.530	35.228	-19.772	55.000
0.216	9.699	15.280	24.979	-29.135	54.114
0.263	9.702	19.390	29.092	-23.679	52.771
0.439	9.710	24.690	34.400	-13.343	47.743
0.986	9.734	11.030	20.764	-25.236	46.000
5.232	9.830	8.100	17.930	-32.070	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : FIELDBOOK  
 Test Item : Conducted Emission Test  
 Power Line : Line 2  
 Test Mode : Mode 1: Transmit mode

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
<b>LINE 2</b>					
<b>Quasi-Peak</b>					
0.181	9.678	40.080	49.758	-15.356	65.114
0.244	9.681	30.360	40.041	-23.273	63.314
0.306	9.684	27.600	37.284	-24.259	61.543
0.443	9.690	29.540	39.230	-18.399	57.629
1.084	9.729	23.530	33.259	-22.741	56.000
4.779	9.820	23.570	33.390	-22.610	56.000
<b>Average</b>					
0.181	9.678	21.800	31.478	-23.636	55.114
0.244	9.681	13.430	23.111	-30.203	53.314
0.306	9.684	15.940	25.624	-25.919	51.543
0.443	9.690	15.750	25.440	-22.189	47.629
1.084	9.729	14.370	24.099	-21.901	46.000
4.779	9.820	17.500	27.320	-18.680	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “  “ means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

### 3. Radiated Emission

#### 3.1. Test Equipment

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

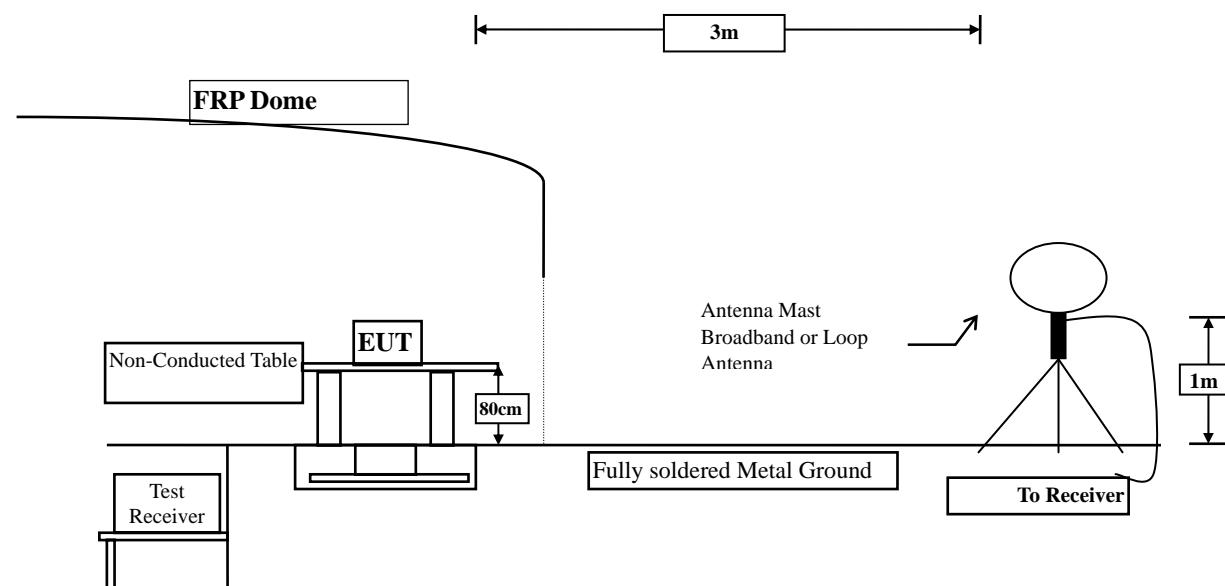
Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X Loop Antenna		Teseq	HLA6120 / 26739	Jul., 2013
	X Bilog Antenna		Schaffner Chase	CBL6112B/2673	Sep., 2012
	X Horn Antenna		Schwarzbeck	BBHA9120D/D305	Sep., 2012
	X Horn Antenna		Schwarzbeck	BBHA9170/208	Jul., 2013
	X Pre-Amplifier		Agilent	8447D/2944A09549	Sep., 2012
	X Spectrum Analyzer		Agilent	E4407B / US39440758	May, 2013
	X Test Receiver		R & S	ESCS 30/ 825442/018	Sep., 2012
	X Coaxial Cable		QuieTek	QTK-CABLE/ CAB5	Feb., 2013
	X Controller		QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	X Coaxial Switch		Anritsu	MP59B/6200265729	N/A

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

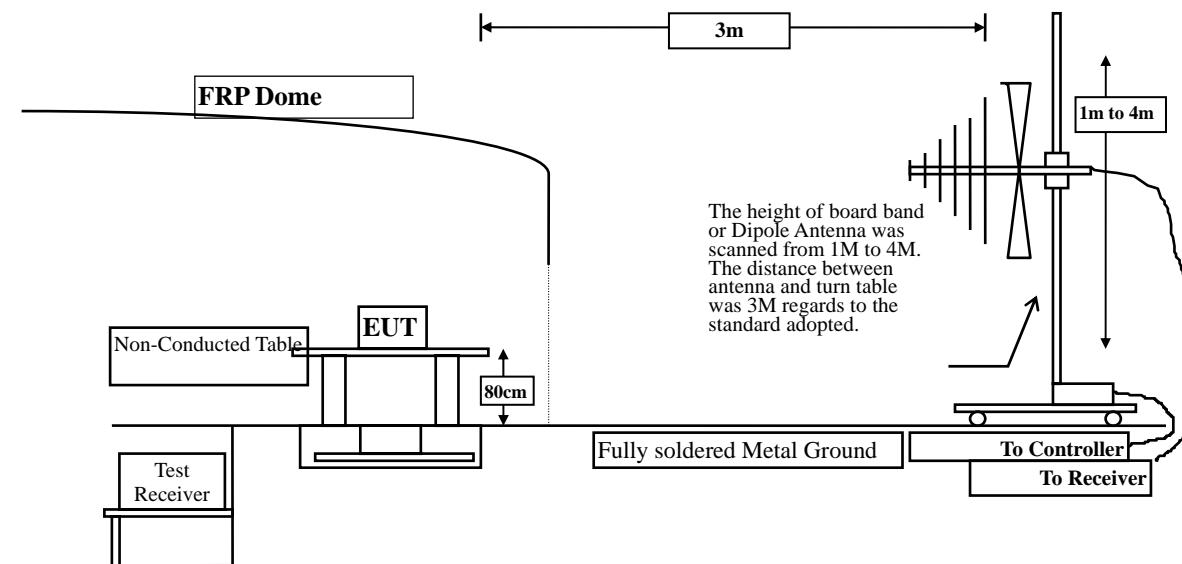
2. The test instruments marked with “X” are used to measure the final test results.

#### 3.2. Test Setup

9kHz~30MHz



30MHz~1GHz



### 3.3. Limits

#### ► Fundamental electric field strength Limit

FCC Part 15 Subpart C Paragraph 15.225 Limits				
Fundamental Frequency MHz	Field strength of fundamental			
	uV/m	Distance (meter)	dBuV/m	Distance (meter)
13.553 – 13.567	15848	30	124	3
13.410 – 13.553 and 13.567 – 13.710	334	30	90.47	3
13.110 – 13.410 and 13.710 – 14.010	106	30	80.50	3
Outside of the 13.110 – 14.010	See 15.209 Limits			

Remarks : 1. RF Voltage (dBuV) =  $20 \log \text{RF Voltage (uV)}$

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.
3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

## ➤ Spurious electric field strength Limit

FCC Part 15 Subpart C Paragraph 15.209 Limits			
Frequency MHz	uV/m	dBuV/m	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	See Remark <sup>1</sup>	300
0.490-1.705	24000/F(kHz)	See Remark <sup>1</sup>	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Remarks : 1. RF Voltage (dBuV) =  $20 \log \text{RF Voltage (uV)}$

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

#### Fundamental electric field strength:

The EUT and its simulators are placed on a turn table which is 1 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum electric field strength.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna which is 1 meter above ground. All X-axis, Y-axis and Z-axis polarization of the antenna are set on measurement.

#### Spurious electric field strength:

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 antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

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 C63.10 on radiated measurement.

On any frequency the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as

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measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 30MHz setting on the field strength meter is 9kHz and above 30MHz is 120kHz.

### **3.5. Uncertainty**

± 2.6 dB below 30MHz

± 3.8 dB above 30MHz

### 3.6. Test Result of Radiated Emission

Product : FIELDBOOK  
 Test Item : Fundamental Radiated Emission  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit mode

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
<b>X-axis</b>					
<b>Quasi-Peak</b>					
<b>Horizontal</b>					
13.560	21.158	18.700	39.858	-84.142	124.000
<b>Vertical</b>					
13.560	21.158	16.300	37.458	-86.542	124.000
<b>Y-axis</b>					
<b>Quasi-Peak</b>					
<b>Horizontal</b>					
13.560	21.158	18.800	39.958	-84.042	124.000
<b>Vertical</b>					
13.560	21.158	16.000	37.158	-86.842	124.000
<b>Z-axis</b>					
<b>Quasi-Peak</b>					
<b>Horizontal</b>					
13.560	21.158	16.000	37.158	-86.842	124.000
<b>Vertical</b>					
13.560	21.158	17.200	38.358	-85.642	124.000

Note:

1. Limit=84dBuV/m + 40\*Log (30(m)/3(m))=124dBuV/m
2. All Readings below 1GHz are Quasi-Peak, above are average value.
3. Measurement Level = Reading Level + Correct Factor.
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.

Product : FIELDBOOK  
 Test Item : General Radiated Emission Data (below 30MHz)  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit mode

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
<b>Horizontal</b>					
27.120	20.560	5.800	26.360	-43.180	69.540
<b>Vertical</b>					
27.120	20.560	8.200	28.760	-40.780	69.540

Note:

1. Limit=29.54dBuV/m + 40\*Log (30(m)/3(m))=69.54dBuV/m
2. All Readings below 1GHz are Quasi-Peak, above are average value.
3. “” means the worst emission level.
4. Measurement Level = Reading Level + Correct Factor.

Product : FIELDBOOK  
 Test Item : General Radiated Emission Data (above 30MHz)  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit mode

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
<b>Horizontal</b>					
<b>QP Detector</b>					
152.220	-7.926	38.441	30.515	-12.985	43.500
769.140	5.118	28.950	34.068	-11.932	46.000
844.800	6.442	28.320	34.762	-11.238	46.000
<b>Vertical</b>					
<b>QP Detector</b>					
152.220	-5.306	35.009	29.703	-13.797	43.500
307.420	-4.030	37.712	33.682	-12.318	46.000
385.020	-0.441	34.732	34.291	-11.709	46.000
538.280	1.996	33.097	35.093	-10.907	46.000
691.540	2.092	24.014	26.106	-19.894	46.000
922.400	3.200	29.016	32.216	-13.784	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

## 4. Band Edge

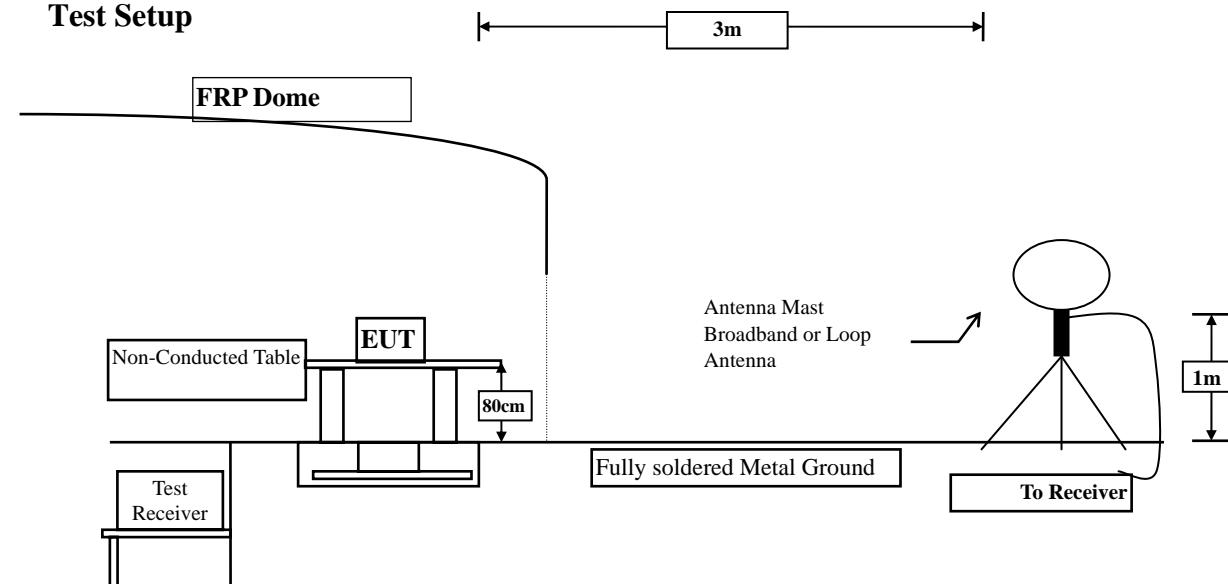
### 4.1. Test Equipment

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

Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X	Loop Antenna	Teseq	HLA6120 / 26739	Jul., 2013
		Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2012
		Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2012
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2013
		Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2013
		Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2012
		Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/925975	Mar, 2013
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2013
	X	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2012
	X	Coaxial Cable	QuiTek	QTK-CABLE/ CAB5	Feb., 2013
	X	Controller	QuiTek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.  
2. The test instruments marked with "X" are used to measure the final test results.

### 4.2. Test Setup



#### **4.3. Limits**

In any 9 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 50 dB below that in the 9 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. 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 C63.10 on radiated measurement.

The bandwidth below 30MHz setting on the field strength meter is 9kHz and above 30MHz is 120kHz.

#### **4.5. Uncertainty**

Radiated is  $\pm$  2.6 dB

#### 4.6. Test Result of Band Edge

Product : FIELDBOOK  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit mode

#### RF Radiated Measurement

##### (Horizontal)

Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	QP Limit (dBuV/m)	Result
13.110	21.110	11.100	32.210	69.540	Pass
13.360	21.140	11.400	32.540	69.540	Pass
13.410	21.140	10.600	31.740	69.540	Pass
14.010	21.200	15.600	36.800	69.540	Pass

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

##### (Vertical)

Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	QP Limit (dBuV/m)	Result
13.110	21.110	13.500	34.610	69.540	Pass
13.360	21.140	14.500	35.640	69.540	Pass
13.410	21.140	13.600	34.740	69.540	Pass
14.010	21.200	15.800	37.000	69.540	Pass

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

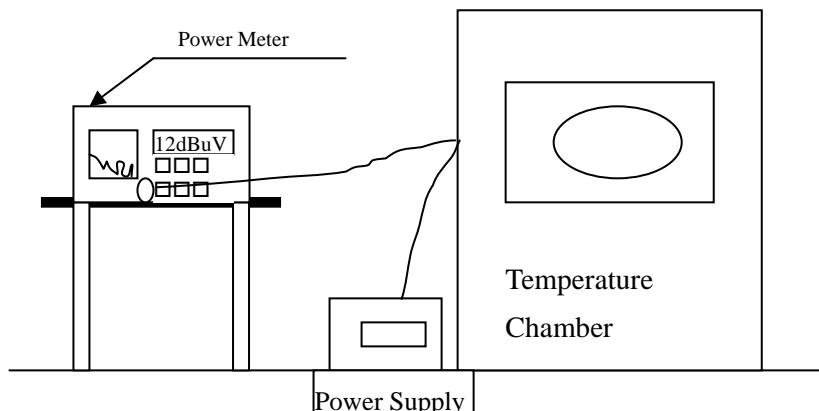
## 5. Frequency Tolerance

### 5.1. Test Equipment

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2013
Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2013
X Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2013
X Temperature Chamber	TDE	CHM 150CT	March, 2013

Note: All equipments are calibrated every one year.

### 5.2. Test Setup



### 5.3. Limits

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency.

### 5.4. Test Procedure

The over operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

### 5.5. Uncertainty

$\pm 150$  Hz

## 5.6. Test Result of Frequency Stability

Product : FIELDBOOK  
 Test Item : Frequency Tolerance  
 Test Site : Temperature Chamber  
 Test Mode : Mode 1: Transmit mode

Temperature (°C)	Voltage (V)	Observe Time	Declared Frequency (MHz)	Read Frequency (MHz)	Tolerance (%)	Limit (%)
20	120	start	13.56	13.56000	0.000000	± 0.01 %
		2mins	13.56	13.56000	0.000000	
		5mins	13.56	13.56000	0.000000	
		10mins	13.56	13.56000	0.000000	
20	138	start	13.56	13.56000	0.000000	± 0.01 %
		2mins	13.56	13.56000	0.000000	
		5mins	13.56	13.56000	0.000000	
		10mins	13.56	13.56000	0.000000	
20	102	start	13.56	13.56000	0.000000	± 0.01 %
		2mins	13.56	13.56000	0.000000	
		5mins	13.56	13.56000	0.000000	
		10mins	13.56	13.56000	0.000000	
50	120	start	13.56	13.56100	0.007375	± 0.01 %
		2mins	13.56	13.56100	0.007375	
		5mins	13.56	13.56100	0.007375	
		10mins	13.56	13.56100	0.007375	
40	120	start	13.56	13.56100	0.007375	± 0.01 %
		2mins	13.56	13.56100	0.007375	
		5mins	13.56	13.56100	0.007375	
		10mins	13.56	13.56100	0.007375	
30	120	start	13.56	13.56100	0.007375	± 0.01 %
		2mins	13.56	13.56100	0.007375	
		5mins	13.56	13.56100	0.007375	
		10mins	13.56	13.56100	0.007375	

10	120	start	13.56	13.56015	0.001106	$\pm$ 0.01 %
		2mins	13.56	13.56015	0.001106	
		5mins	13.56	13.56015	0.001106	
		10mins	13.56	13.56015	0.001106	
0	120	start	13.56	13.56015	0.001106	$\pm$ 0.01 %
		2mins	13.56	13.56015	0.001106	
		5mins	13.56	13.56015	0.001106	
		10mins	13.56	13.56015	0.001106	
-10	120	start	13.56	13.56015	0.001106	$\pm$ 0.01 %
		2mins	13.56	13.56015	0.001106	
		5mins	13.56	13.56015	0.001106	
		10mins	13.56	13.56015	0.001106	
-20	120	start	13.56	13.56015	0.001106	$\pm$ 0.01 %
		2mins	13.56	13.56015	0.001106	
		5mins	13.56	13.56015	0.001106	
		10mins	13.56	13.56015	0.001106	

**6. EMI Reduction Method During Compliance Testing**

No modification was made during testing.

Attachment 1: EUT Test Photographs

## Attachment 2: EUT Detailed Photographs