

FCC Test Report

Product Name	Mobile Computer
Model No.	PT-9132-0-0, PT-9232-0-0
FCC ID	NBF-9X32-0-0

Applicant	Argox Information Co.,Ltd.
Address	7F., No.126, Ln. 235, Baociao Rd., Sindian Dist., New Taipei City 231, Taiwan (R.O.C.)

Date of Receipt	Feb. 07, 2013
Issued Date	Mar. 19, 2013
Report No.	132174R-RFUSP39V01
Report Version	V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date: Mar. 19, 2013

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Applicant	Argox Information Co.,Ltd.
Address	7F., No.126, Ln. 235, Baociao Rd., Sindian Dist., New Taipei City 231, Taiwan (R.O.C.)
Manufacturer	Argox Information Co.,Ltd.
Model No.	PT-9132-0-0, PT-9232-0-0
FCC ID.	NBF-9X32-0-0
EUT Rated Voltage	AC 100-240V, 50-60Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	ARGOX
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 'Genie Chang'.

(Senior Adm. Specialist / Genie Chang)

Tested By :

A handwritten signature in blue ink that reads 'Alan Chen'.

(Assistant Engineer / Alan Chen)

Approved By :

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

(Manager / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Mobile Computer
Trade Name	ARGOX
Model No.	PT-9132-0-0, PT-9232-0-0
FCC ID	NBF-9X32-0-0
Frequency Range	13.56MHz
Channel Control	N/A
Antenna Type	Loop Antenna
Docking	MFR: ARGOX, M/N: CRD-90
USB Cable	Shielded, 1.8m
Power Adapter	MFR: PHIHONG, M/N: PSA15R-050P Input: AC 100-240V~0.5A, 50-60Hz Output: DC 5V, 3A Cable Out: Shielded, 1.75m, with one ferrite core bonded.

Frequency of Each Channel:

Channel Frequency

Channel 1: 13.56 MHz

Note: The antenna of EUT is conform to FCC 15.203.

Note:

1. This device is a Mobile Computer, Contains functions and so on WiFi、Bluetooth、RFID , This report for RFID.
2. The EUT is including two models for different marketing requirement.
3. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.225 for spread spectrum devices.
4. 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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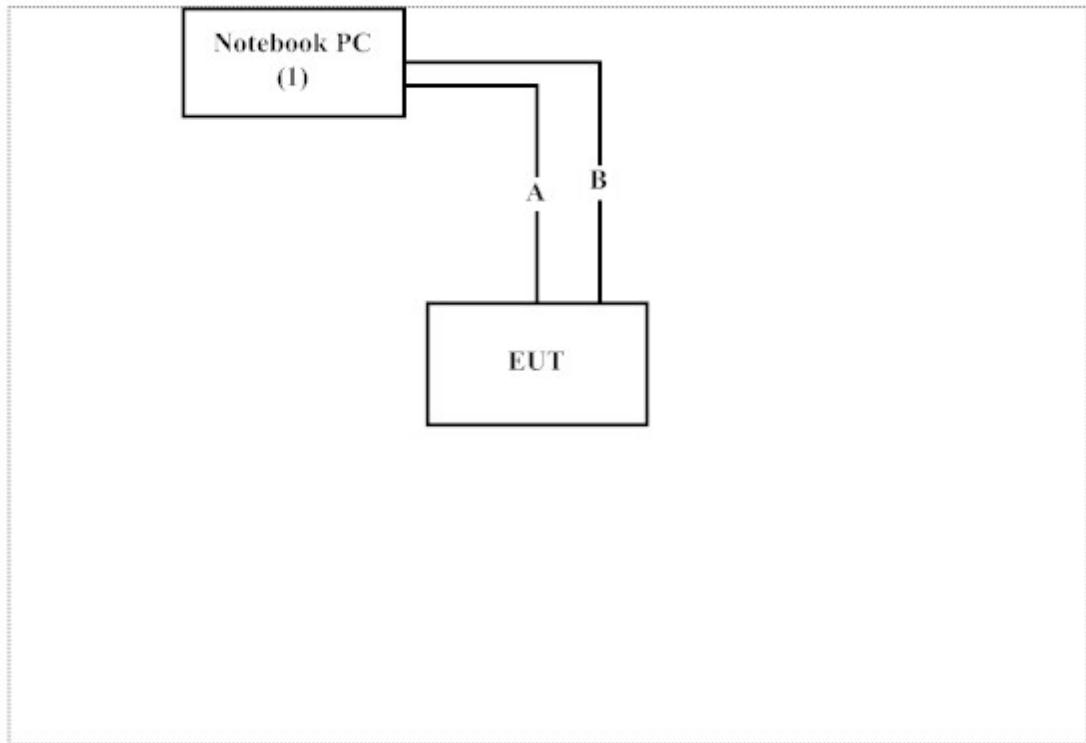
1.3. Tested System Details

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 Notebook PC	DELL	PPT	N/A	Non-Shielded, 0.8m

Signal Cable Type	Signal cable Description
A USB Cable	Shielded, 1.8m
B RS-232 Cable	Shielded, 2.0m

1.4. Configuration of tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Execute Software on the EUT.
- (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://tw.quietek.com/tw/emc/accreditations/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

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

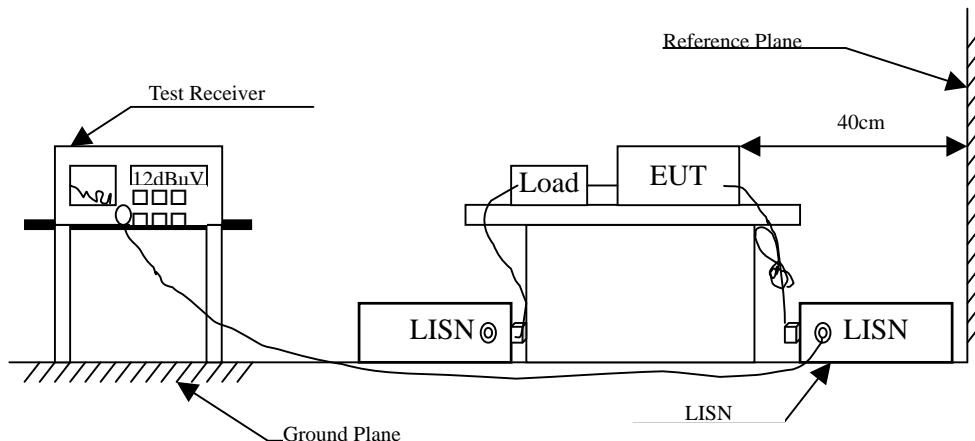
2.1. Test Equipment

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

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56 _(±)	56-46 _(±)
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 : Mobile Computer
 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
LINE 1					
Quasi-Peak					
0.185	9.790	35.830	45.620	-19.380	65.000
0.224	9.790	31.170	40.960	-22.926	63.886
0.255	9.790	25.800	35.590	-27.410	63.000
0.638	9.790	17.490	27.280	-28.720	56.000
2.509	9.810	13.130	22.940	-33.060	56.000
16.021	10.100	22.690	32.790	-27.210	60.000
Average					
0.185	9.790	19.630	29.420	-25.580	55.000
0.224	9.790	16.900	26.690	-27.196	53.886
0.255	9.790	9.560	19.350	-33.650	53.000
0.638	9.790	5.230	15.020	-30.980	46.000
2.509	9.810	3.920	13.730	-32.270	46.000
16.021	10.100	14.990	25.090	-24.910	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 : Mobile Computer
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 1: Transmit mode

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 2					
Quasi-Peak					
0.177	9.770	35.260	45.030	-20.199	65.229
0.236	9.770	31.720	41.490	-22.053	63.543
0.330	9.770	27.070	36.840	-24.017	60.857
2.623	9.800	14.240	24.040	-31.960	56.000
8.455	9.942	23.210	33.152	-26.848	60.000
17.529	10.190	21.370	31.560	-28.440	60.000
Average					
0.177	9.770	17.200	26.970	-28.259	55.229
0.236	9.770	21.020	30.790	-22.753	53.543
0.330	9.770	18.700	28.470	-22.387	50.857
2.623	9.800	5.310	15.110	-30.890	46.000
8.455	9.942	18.620	28.562	-21.438	50.000
17.529	10.190	15.490	25.680	-24.320	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

3. Radiated Emission

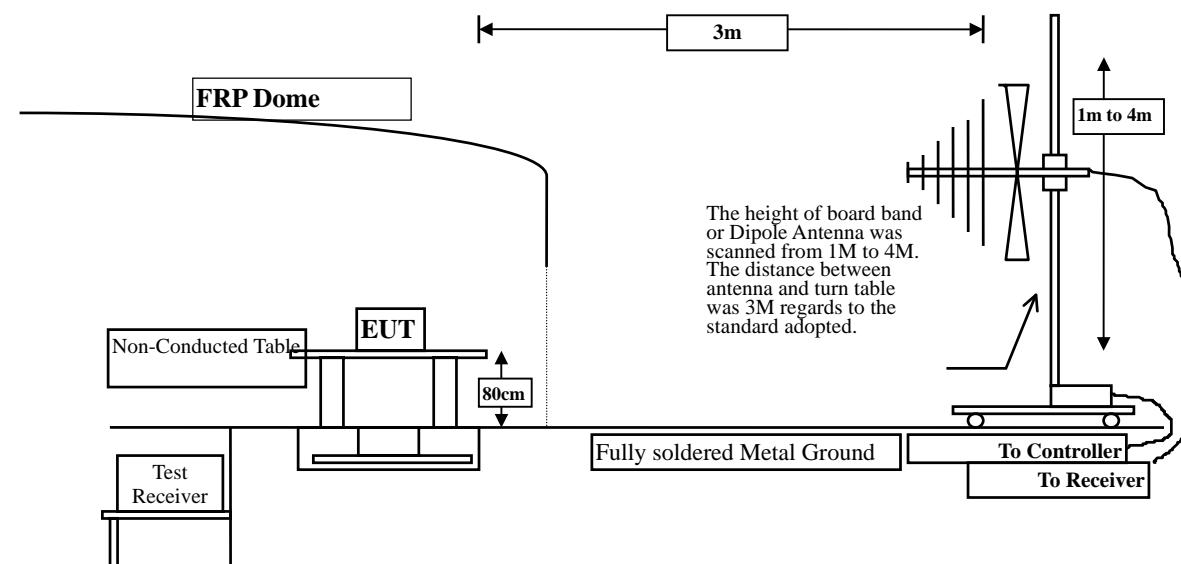
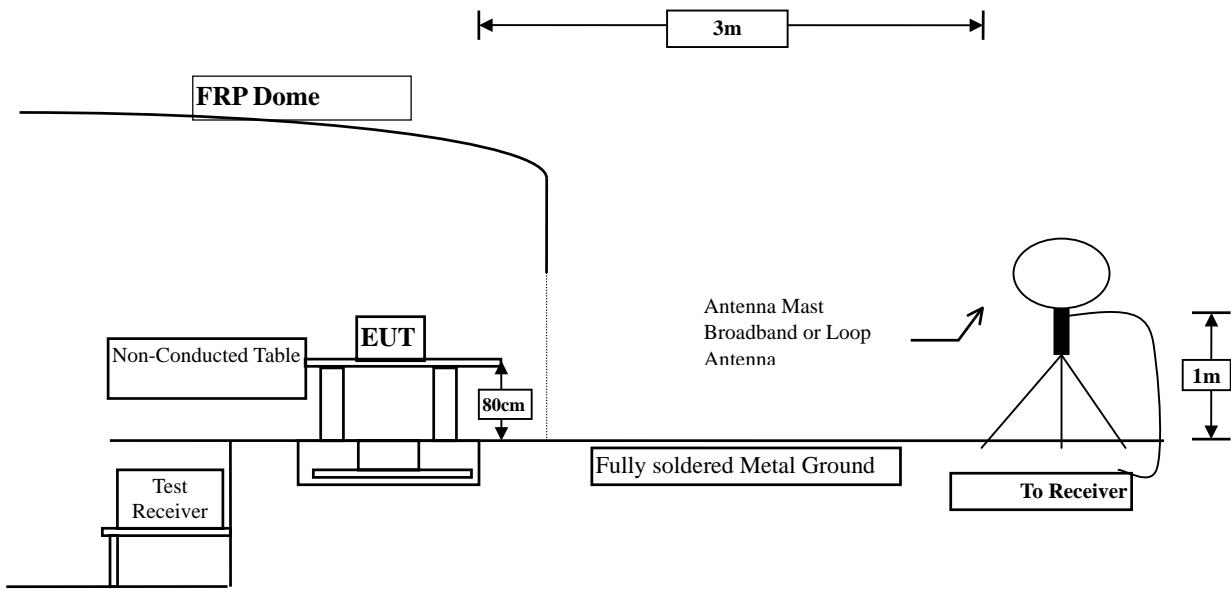
3.1. Test Equipment

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., 2012
	X	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2012
		Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2012
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2012
		Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2012
		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, 2012
	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



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 ¹	300
0.490-1.705	24000/F(kHz)	See Remark ¹	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: 2009 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 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 : Mobile Computer
 Test Item : Fundamental Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit mode

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
X-axis					
Quasi-Peak					
Horizontal					
13.560	20.040	38.170	58.210	-65.790	124.000
Vertical					
13.560	20.040	34.880	54.920	-69.080	124.000
Y-axis					
Quasi-Peak					
Horizontal					
13.560	20.040	40.660	60.700	-63.300	124.000
Vertical					
13.560	20.040	36.880	56.920	-67.080	124.000
Z-axis					
Quasi-Peak					
Horizontal					
13.560	20.040	40.950	60.990	-63.010	124.000
Vertical					
13.560	20.040	36.670	56.710	-67.290	124.000
X-axis with docking					
Quasi-Peak					
Horizontal					
13.560	20.040	39.600	59.640	-64.360	124.000
Vertical					
13.560	20.040	41.620	61.660	-62.340	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 : Mobile Computer
Test Item : General Radiated Emission Data (below 30MHz)
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit mode

Frequency MHz	Correct Factor	Reading dB	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
27.120	19.860	2.100	21.960	-47.580	69.540
Vertical					
27.120	19.860	1.550	21.410	-48.130	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 : Mobile Computer
 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

Horizontal

QP Detector

330.700	-4.492	35.116	30.624	-15.376	46.000
468.440	1.195	28.383	29.578	-16.422	46.000
584.840	3.391	27.239	30.630	-15.370	46.000
819.580	5.789	26.548	32.338	-13.662	46.000
858.380	5.972	27.673	33.645	-12.355	46.000
935.980	6.421	24.869	31.290	-14.710	46.000

Vertical

QP Detector

37.760	-1.539	38.400	36.861	-3.139	40.000
105.660	-0.253	35.179	34.926	-8.574	43.500
371.440	-2.737	35.835	33.098	-12.902	46.000
507.240	-0.471	29.196	28.725	-17.275	46.000
819.580	3.319	31.592	34.912	-11.088	46.000
935.980	5.711	24.893	30.604	-15.396	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

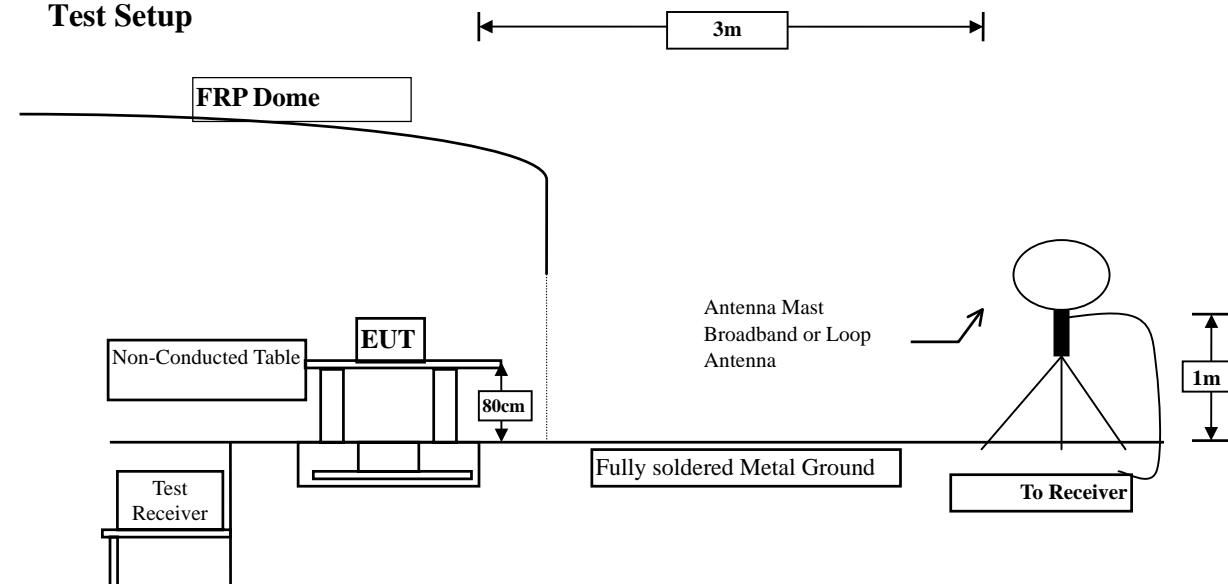
4.1. Test Equipment

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., 2012
		Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2012
		Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2012
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2012
		Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2012
		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, 2012
	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: 2009 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 : Mobile Computer
 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	20.020	2.260	22.280	69.540	Pass
13.360	20.031	2.080	22.111	69.540	Pass
13.410	20.040	2.280	22.320	69.540	Pass
14.010	20.060	1.710	21.770	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	20.020	5.510	25.530	69.540	Pass
13.360	20.031	4.430	24.461	69.540	Pass
13.410	20.040	4.780	24.820	69.540	Pass
14.010	20.060	3.600	23.660	69.540	Pass

Note:

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

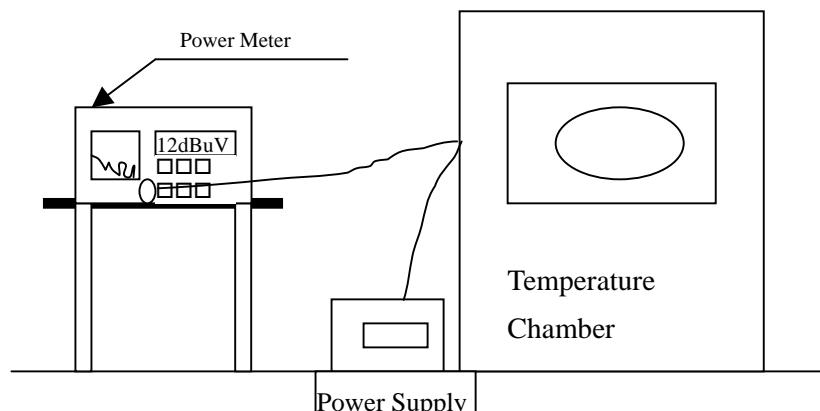
5. Frequency Tolerance

5.1. Test Equipment

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2012
Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2012
X Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2012
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

± 150 Hz

5.6. Test Result of Frequency Stability

Product : Mobile Computer
 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	13.56053	0.003909	± 0.01 %
		2mins	13.56	13.56053	0.003909	
		5mins	13.56	13.56053	0.003909	
		10mins	13.56	13.56053	0.003909	
20	138	start	13.56	13.56053	0.003909	± 0.01 %
		2mins	13.56	13.56053	0.003909	
		5mins	13.56	13.56053	0.003909	
		10mins	13.56	13.56053	0.003909	
20	102	start	13.56	13.56053	0.003909	± 0.01 %
		2mins	13.56	13.56053	0.003909	
		5mins	13.56	13.56053	0.003909	
		10mins	13.56	13.56053	0.003909	
50	120	start	13.56	13.56048	0.003540	± 0.01 %
		2mins	13.56	13.56048	0.003540	
		5mins	13.56	13.56048	0.003540	
		10mins	13.56	13.56048	0.003540	
40	120	start	13.56	13.56051	0.003761	± 0.01 %
		2mins	13.56	13.56051	0.003761	
		5mins	13.56	13.56051	0.003761	
		10mins	13.56	13.56051	0.003761	
30	120	start	13.56	13.56053	0.003909	± 0.01 %
		2mins	13.56	13.56053	0.003909	
		5mins	13.56	13.56053	0.003909	
		10mins	13.56	13.56053	0.003909	

10	120	start	13.56	13.56055	0.004056	\pm 0.01 %
		2mins	13.56	13.56055	0.004056	
		5mins	13.56	13.56055	0.004056	
		10mins	13.56	13.56055	0.004056	
0	120	start	13.56	13.56057	0.004204	\pm 0.01 %
		2mins	13.56	13.56057	0.004204	
		5mins	13.56	13.56057	0.004204	
		10mins	13.56	13.56057	0.004204	
-10	120	start	13.56	13.56057	0.004204	\pm 0.01 %
		2mins	13.56	13.56057	0.004204	
		5mins	13.56	13.56057	0.004204	
		10mins	13.56	13.56057	0.004204	
-20	120	start	13.56	13.56057	0.004204	\pm 0.01 %
		2mins	13.56	13.56057	0.004204	
		5mins	13.56	13.56057	0.004204	
		10mins	13.56	13.56057	0.004204	

Note: Limit= Ref. Freq. * (\pm) 0.01% = 13.55952~13.56223MHz

6. EMI Reduction Method During Compliance Testing

No modification was made during testing.

Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs