



Test Report

Product Name	Tablet PC
Model No.	T10L
FCC ID	FKGMPCT10L1

Applicant	Twinhead International Corp.
Address	10F, 550 Rueiguand Rd Neihu, Taipei, Taiwan 114, R.O.C.

Date of Receipt	Mar. 30, 2010
Issued Date	May 24, 2010
Report No.	104046R-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 Quietek Corporation.

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

Test Report Certification

Issued Date: May 24, 2010

Report No.: 104046R-RFUSP39V01



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Applicant	Twinhead International Corp.
Address	10F, 550 Rueiguand Rd Neihu, Taipei, Taiwan 114, R.O.C.
Manufacturer	Twinhead International Corp.
Model No.	T10L
FCC ID.	FKGMPCT10L1
EUT Rated Voltage	AC 100-240V, 50-60Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	Twinhead
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2009 ANSI C63.4: 2003
Test Result	Complied



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Documented By : Jinn Chen
(Adm. Specialist / Jinn Chen)



Tested By : NoNo Chang
(Engineer / Nono Chang)



Approved By : [Signature]
(Manager / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Tablet PC
Trade Name	Twinhead
Model No.	T10L
FCC ID	FKGMPCT10L1
Frequency Range	13.56MHz
Channel Control	N/A
Antenna Type	Printed on PCB
Power Adapter	MFR: FSP, M/N: FSP065-RAB Input: AC 100-240V, 50-60Hz, 1.5A Output: DC 19V, 3.42A Cable Out: Non-Shielded, 1.8m, with one ferrite core bonded.
Contain Module	Microprogram / R-07050S1S8

Frequency of Each Channel:

Channel	Frequency
Channel 1:	13.56 MHz

Note:

1. This device is a Tablet PC with a built-in 13.56MHz transceiver.
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 for spread spectrum devices.
3. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

1.2. Operational Description

EUT is a Tablet PC with a built-in 13.56MHz RFID Reader with ASK modulation. The signal will be transmitted through 13.56 MHz ASK RF signal from the Printed on PCB antenna.

Test Mode	Mode 1: Transmit mode
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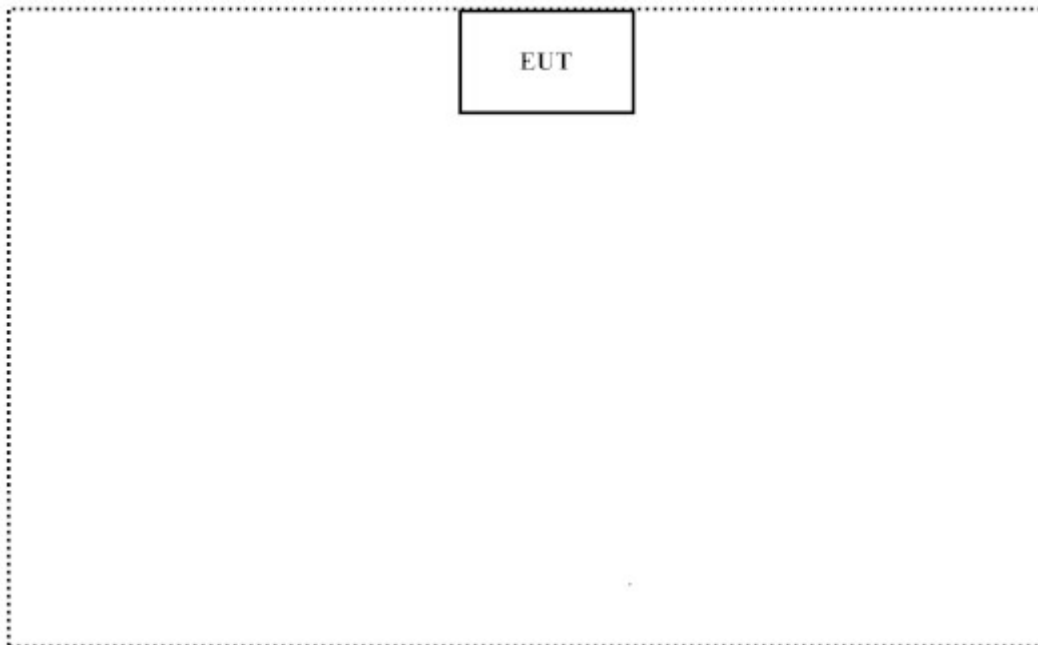
1.3. Tested System Details

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)	N/A	N/A	N/A	N/A	N/A

Signal Cable Type	Signal cable Description
A	N/A

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) Configure the test mode.
- (4) Press “OK” to start the continuous transmitter.
- (5) 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,
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 E-Mail : service@quietek.com

FCC Accreditation Number: TW1014



2. Conducted Emission

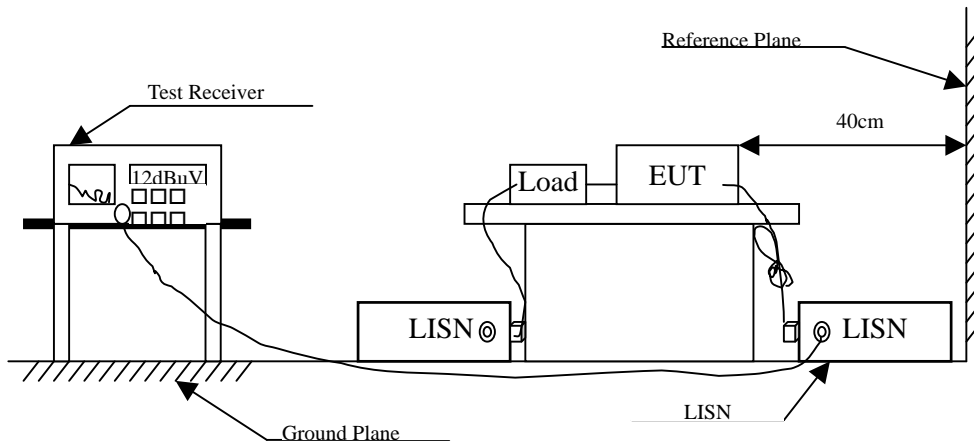
2.1. Test Equipment

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, 2010	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2010	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2010	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2010	
5	No.1 Shielded Room			N/A	

Note: All equipments are calibrated every one year.

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 _(註)	56-46 _(註)
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 C63.4: 2003 on conducted measurement.

Conducted emissions were investigated 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 : Tablet PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 1: Transmit mode

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 1					
Quasi-Peak					
0.197	9.790	33.410	43.200	-21.457	64.657
0.287	9.790	23.730	33.520	-28.566	62.086
0.498	9.790	25.390	35.180	-20.877	56.057
0.709	9.793	27.490	37.283	-18.717	56.000
1.220	9.800	26.010	35.810	-20.190	56.000
24.025	10.130	22.050	32.180	-27.820	60.000
Average					
0.197	9.790	10.860	20.650	-34.007	54.657
0.287	9.790	12.470	22.260	-29.826	52.086
0.498	9.790	9.650	19.440	-26.617	46.057
0.709	9.793	13.710	23.503	-22.497	46.000
1.220	9.800	7.280	17.080	-28.920	46.000
24.025	10.130	16.800	26.930	-23.070	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 : Tablet PC
 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					
0.209	9.780	31.690	41.470	-22.844	64.314
0.310	9.790	24.410	34.200	-27.229	61.429
0.498	9.790	25.170	34.960	-21.097	56.057
1.002	9.790	27.430	37.220	-18.780	56.000
5.720	9.840	21.370	31.210	-28.790	60.000
23.443	10.270	20.430	30.700	-29.300	60.000
Average					
0.209	9.780	31.680	41.460	-12.854	54.314
0.310	9.790	11.770	21.560	-29.869	51.429
0.498	9.790	8.470	18.260	-27.797	46.057
1.002	9.790	16.470	26.260	-19.740	46.000
5.720	9.840	9.080	18.920	-31.080	50.000
23.443	10.270	13.880	24.150	-25.850	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

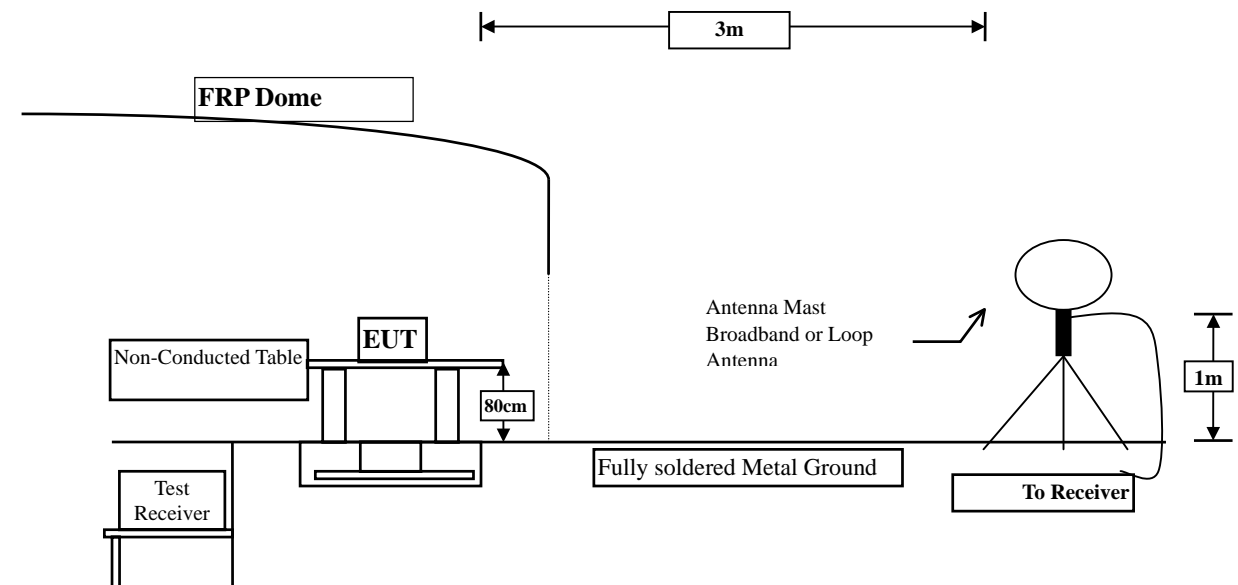
3.1. Test Equipment

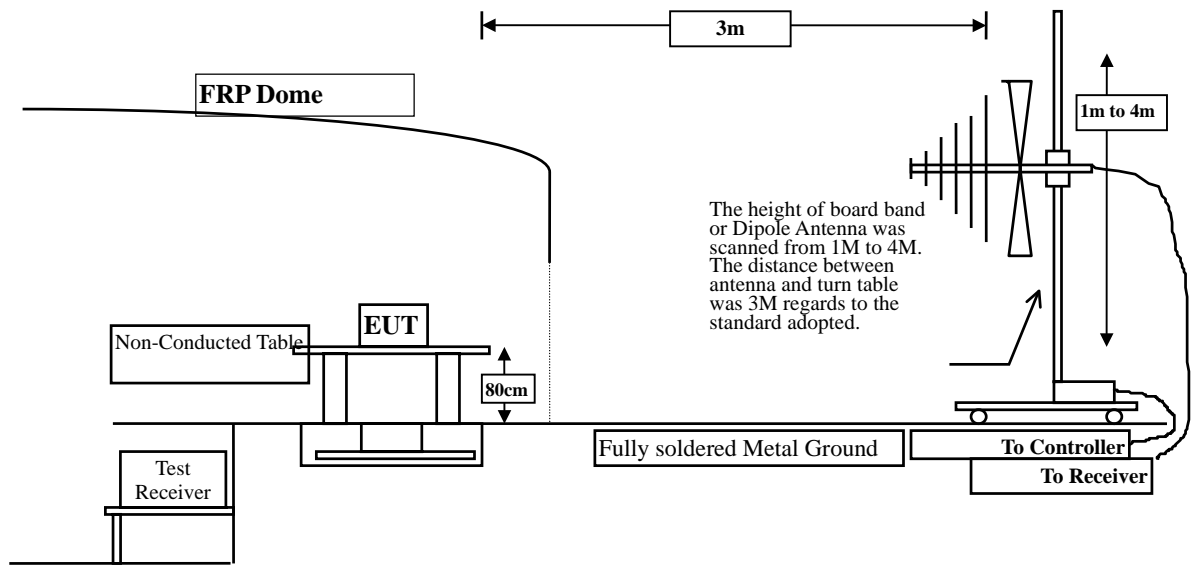
The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X	Loop Antenna	Teseq	HLA6120 / 26739	Jul., 2009
	X	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2009
		Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2009
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2009
		Pre-Amplifier	Agilent	8447D/2944A09549	Sep., 2009
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2010
	X	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2009
	X	Coaxial Cable	Quietek	QTK-CABLE/ CAB5	Feb., 2010
	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	10
13.110 – 13.410 and 13.710 – 14.010	106	30	80.50	10
Outside of the 13.110 – 14.010	See 15.209 Limits			

- Remarks :
1. RF Voltage (dBuV) = 20 log 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 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 C63.4 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

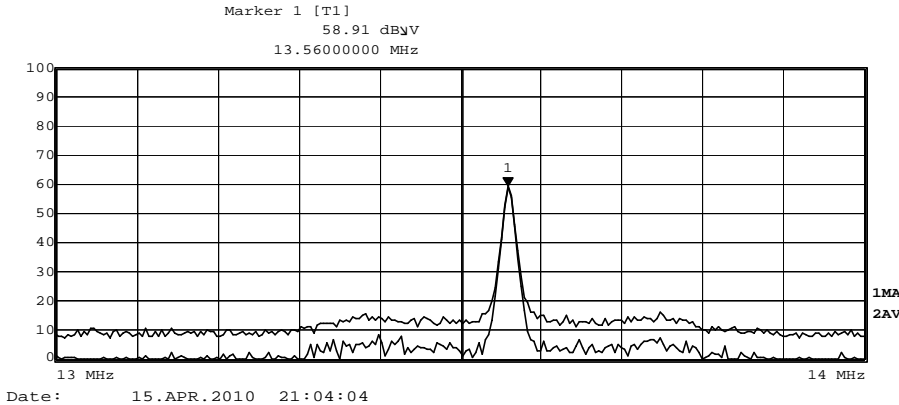
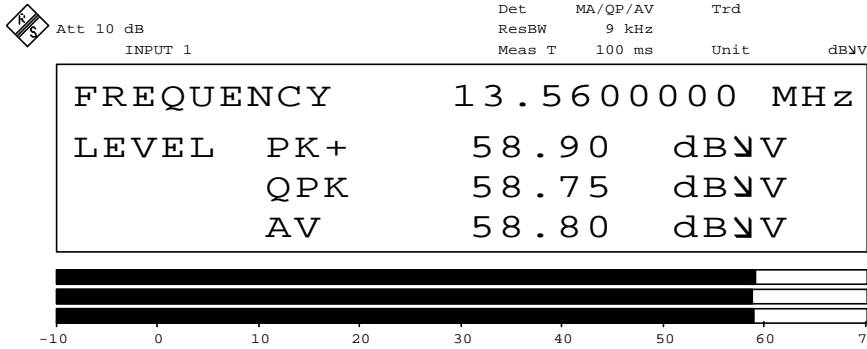
Product : Tablet PC
 Test Item : Fundamental Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit mode

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
X-axis					
Quasi-Peak					
13.560	19.598	58.750	78.348	-45.652	124.000
Y-axis					
Quasi-Peak					
13.560	19.598	59.070	78.668	-45.332	124.000
Z-axis					
Quasi-Peak					
13.560	19.598	48.920	68.518	-55.482	124.000

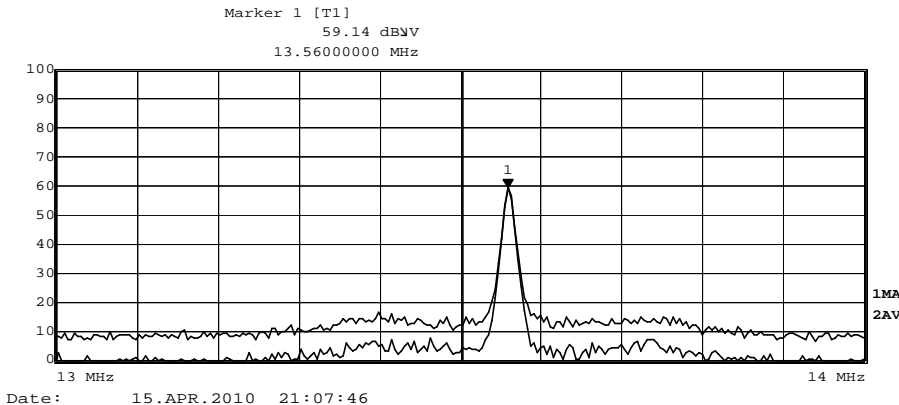
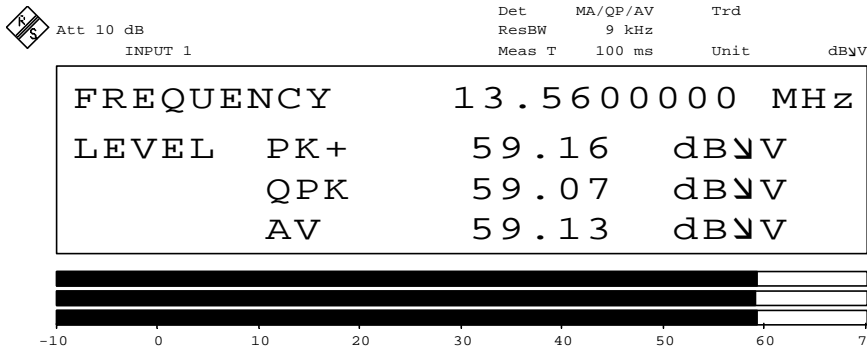
Note:

1. $\text{Limit} = 84 \text{dBuV/m} + 40 * \text{Log} (30(\text{m})/3(\text{m})) = 124 \text{dBuV/m}$
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.
5. The loop antenna was rotated and to found max radiation form device.

FUNDAMENTAL : X-axis



FUNDAMENTAL : Y-axis



FUNDAMENTAL : Z-axis

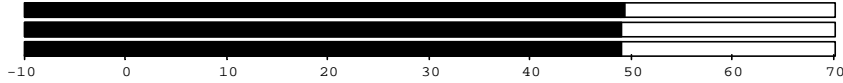


Att 10 dB

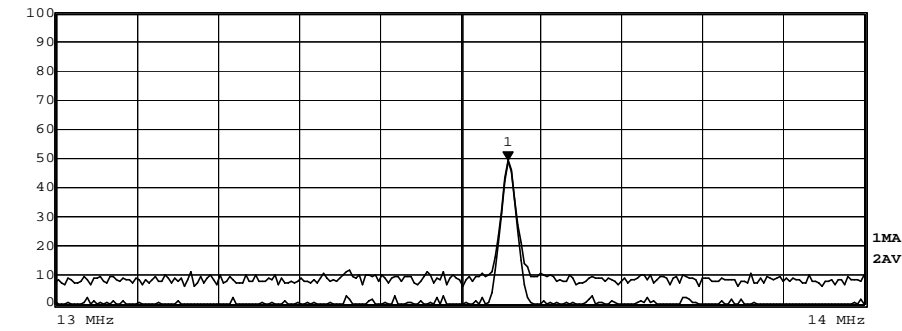
INPUT 1

Det MA/QP/AV Trd
ResBW 9 kHz
Meas T 100 ms Unit dBV

FREQUENCY	13.5600000	MHz
LEVEL PK+	48.98	dBV
QP	48.92	dBV
AV	48.88	dBV



Marker 1 [T1]
48.93 dBV
13.5600000 MHz



Date: 15.APR.2010 21:13:25

Product : Tablet PC
 Test Item : General Radiated Emission Data (above 30MHz)
 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
Horizontal					
QP Detector					
161.920	-10.074	46.288	36.214	-7.286	43.500
191.020	-9.679	48.774	39.095	-4.405	43.500
452.920	1.290	38.254	39.544	-6.456	46.000
577.080	3.221	38.854	42.075	-3.925	46.000
676.020	2.841	38.310	41.152	-4.848	46.000
904.940	6.009	37.527	43.536	-2.464	46.000

Vertical					
QP Detector					
161.920	-4.964	43.647	38.683	-4.817	43.500
359.800	-1.316	43.276	41.960	-4.040	46.000
480.080	-3.390	40.348	36.958	-9.042	46.000
672.140	-0.561	41.713	41.152	-4.848	46.000
904.940	0.989	39.389	40.378	-5.622	46.000
961.200	3.310	37.296	40.606	-13.394	54.000

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

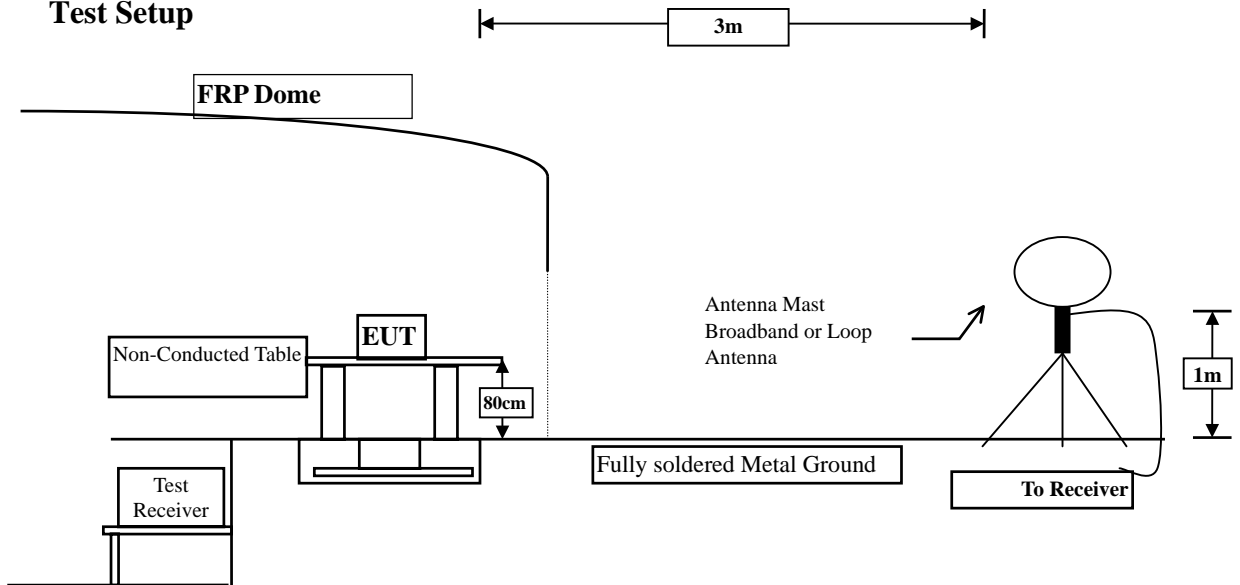
4.1. Test Equipment

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., 2009
		Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2009
		Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2009
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2009
		Pre-Amplifier	Agilent	8447D/2944A09549	Sep., 2009
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2010
	X	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2009
	X	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2010
	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.

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 C63.4 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 ± 2.6 dB

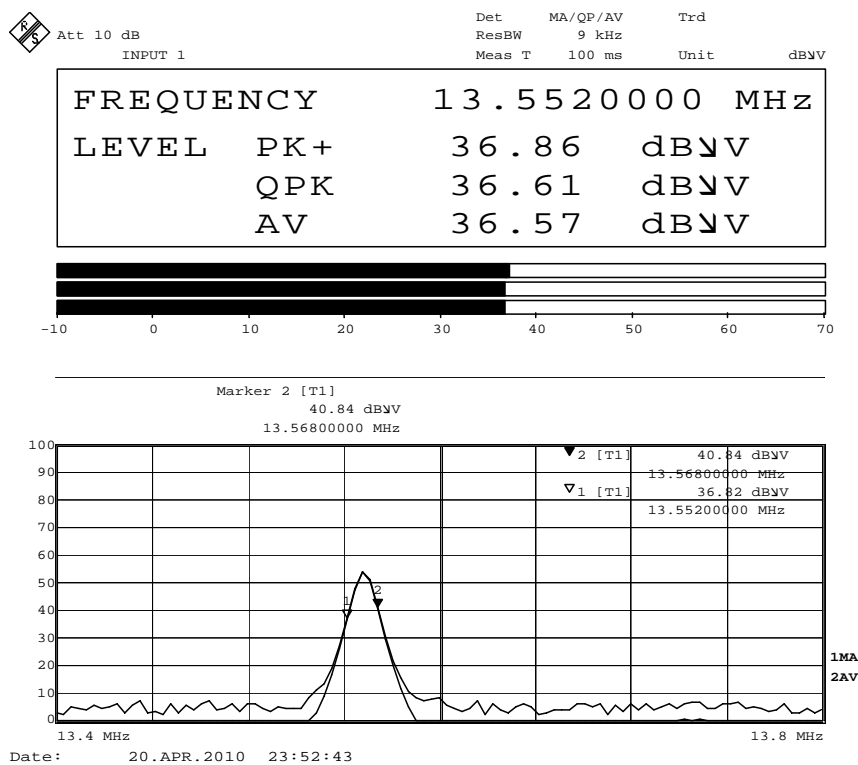
4.6. Test Result of Band Edge

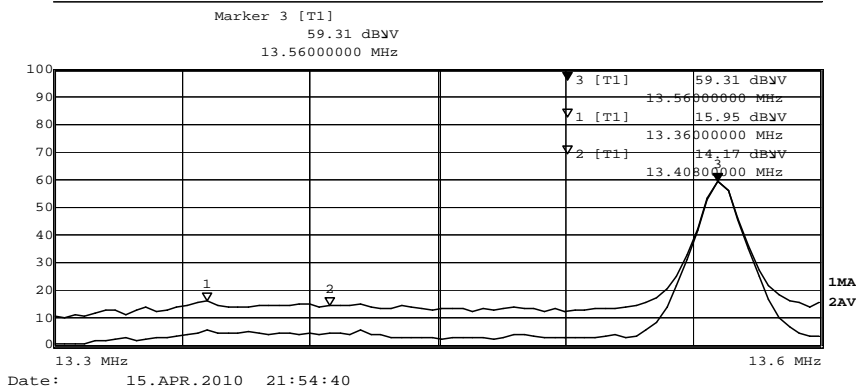
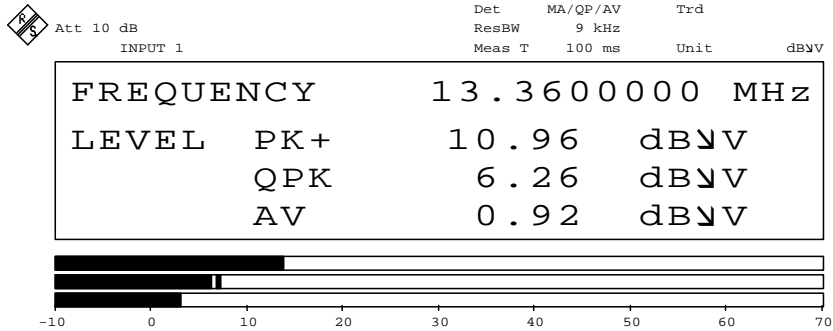
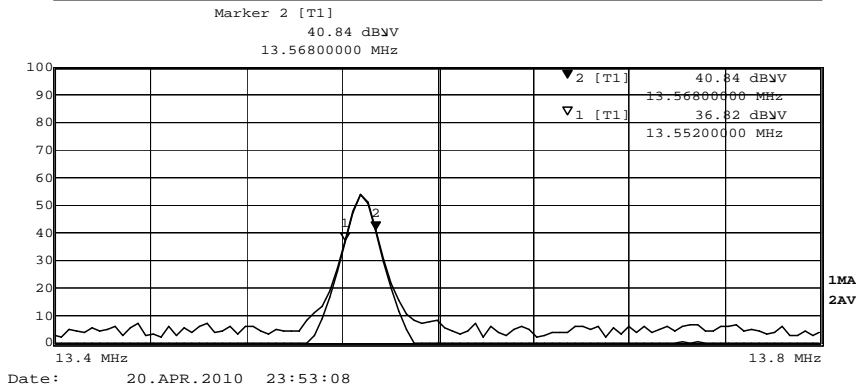
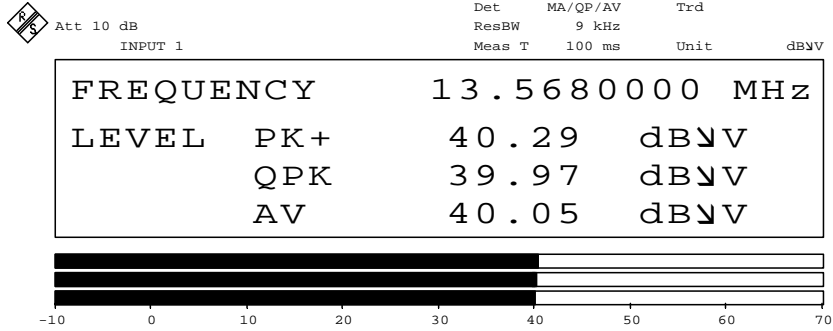
Product : Tablet PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit mode

RF Radiated Measurement :

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Margin (dB)	QP Limit (dBuV/m)
1 (Quasi-Peak)	13.360	19.591	6.260	25.851	-43.689	69.540
2 (Quasi-Peak)	13.552	19.599	36.610	56.209	-13.331	69.540
3 (Quasi-Peak)	13.568	19.598	39.970	59.568	-9.972	69.540

Figure Channel 1:





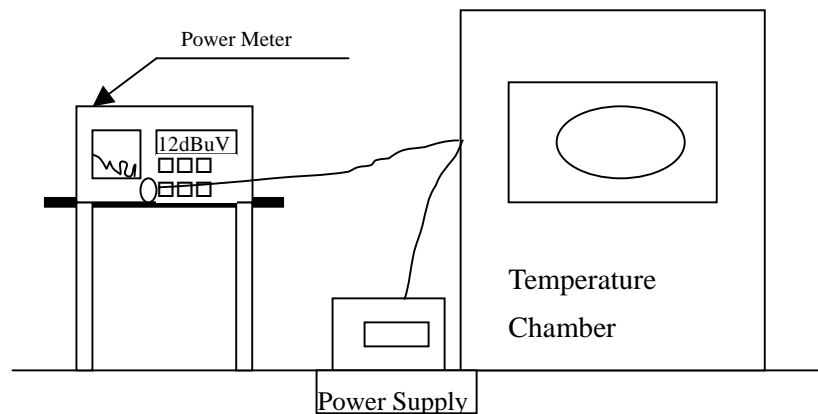
5. Frequency Tolerance

5.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2009
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2009
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2010
X	Temperature Chamber	TDE	CHM 150CT	March, 2010

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 : Tablet PC
 Test Item : Frequency Tolerance
 Test Site : Temperature Chamber
 Test Mode : Mode 1: Transmit mode (START)

Test Conditions		Ref. Freq. (MHz)	Measure Level (MHz)	Limits (MHz)		Result
T _{nom} 20 °C	V _{nom} 120.00 V	13.56088	13.56088	13.55952	~ 13.56223	PASS
T _{nom} 20 °C	V _{high} 132.00 V	13.56088	13.56075	13.55952	~ 13.56223	PASS
T _{nom} 20 °C	V _{low} 108.00 V	13.56088	13.56100	13.55952	~ 13.56223	PASS
T _{max} 50 °C	V _{nom} 120.00 V	13.56088	13.56100	13.55952	~ 13.56223	PASS
T _{max} 40 °C	V _{nom} 120.00 V	13.56088	13.56075	13.55952	~ 13.56223	PASS
T _{max} 30 °C	V _{nom} 120.00 V	13.56088	13.56075	13.55952	~ 13.56223	PASS
T _{min} 10 °C	V _{nom} 120.00 V	13.56088	13.56088	13.55952	~ 13.56223	PASS
T _{min} 0 °C	V _{nom} 120.00 V	13.56088	13.56113	13.55952	~ 13.56223	PASS
T _{min} -10 °C	V _{nom} 120.00 V	13.56088	13.56075	13.55952	~ 13.56223	PASS
T _{min} -20 °C	V _{nom} 120.00 V	13.56088	13.56100	13.55952	~ 13.56223	PASS

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

Product : Tablet PC
 Test Item : Frequency Tolerance
 Test Site : Temperature Chamber
 Test Mode : Mode 1: Transmit mode (AFTER 2mins)

Test Conditions				Ref. Freq. (MHz)	Measure Level (MHz)	Limits (MHz)			Result
T _{nom}	20	°C	V _{nom} 120.00 V	13.56088	13.56088	13.55952	~	13.56223	PASS
T _{nom}	20	°C	V _{high} 132.00 V	13.56088	13.56113	13.55952	~	13.56223	PASS
T _{nom}	20	°C	V _{low} 108.00 V	13.56088	13.56100	13.55952	~	13.56223	PASS
T _{max}	50	°C	V _{nom} 120.00 V	13.56088	13.56100	13.55952	~	13.56223	PASS
T _{max}	40	°C	V _{nom} 120.00 V	13.56088	13.56075	13.55952	~	13.56223	PASS
T _{max}	30	°C	V _{nom} 120.00 V	13.56088	13.56088	13.55952	~	13.56223	PASS
T _{min}	10	°C	V _{nom} 120.00 V	13.56088	13.56100	13.55952	~	13.56223	PASS
T _{min}	0	°C	V _{nom} 120.00 V	13.56088	13.56075	13.55952	~	13.56223	PASS
T _{min}	-10	°C	V _{nom} 120.00 V	13.56088	13.56075	13.55952	~	13.56223	PASS
T _{min}	-20	°C	V _{nom} 120.00 V	13.56088	13.56100	13.55952	~	13.56223	PASS

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

Product : Tablet PC
 Test Item : Frequency Tolerance
 Test Site : Temperature Chamber
 Test Mode : Mode 1: Transmit mode (AFTER 5mins)

Test Conditions				Ref. Freq. (MHz)	Measure Level (MHz)	Limits (MHz)			Result
T _{nom}	20	°C	V _{nom} 120.00 V	13.56088	13.56088	13.55952	~	13.56223	PASS
T _{nom}	20	°C	V _{high} 132.00 V	13.56088	13.56075	13.55952	~	13.56223	PASS
T _{nom}	20	°C	V _{low} 108.00 V	13.56088	13.56075	13.55952	~	13.56223	PASS
T _{max}	50	°C	V _{nom} 120.00 V	13.56088	13.56100	13.55952	~	13.56223	PASS
T _{max}	40	°C	V _{nom} 120.00 V	13.56088	13.56088	13.55952	~	13.56223	PASS
T _{max}	30	°C	V _{nom} 120.00 V	13.56088	13.56088	13.55952	~	13.56223	PASS
T _{min}	10	°C	V _{nom} 120.00 V	13.56088	13.56100	13.55952	~	13.56223	PASS
T _{min}	0	°C	V _{nom} 120.00 V	13.56088	13.56100	13.55952	~	13.56223	PASS
T _{min}	-10	°C	V _{nom} 120.00 V	13.56088	13.56113	13.55952	~	13.56223	PASS
T _{min}	-20	°C	V _{nom} 120.00 V	13.56088	13.56100	13.55952	~	13.56223	PASS

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

Product : Tablet PC
 Test Item : Frequency Tolerance
 Test Site : Temperature Chamber
 Test Mode : Mode 1: Transmit mode (AFTER 10mins)

Test Conditions				Ref. Freq. (MHz)	Measure Level (MHz)	Limits (MHz)			Result
T _{nom}	20	°C	V _{nom} 120.00 V	13.56088	13.56088	13.55952	~	13.56223	PASS
T _{nom}	20	°C	V _{high} 132.00 V	13.56088	13.56100	13.55952	~	13.56223	PASS
T _{nom}	20	°C	V _{low} 108.00 V	13.56088	13.56075	13.55952	~	13.56223	PASS
T _{max}	50	°C	V _{nom} 120.00 V	13.56088	13.56125	13.55952	~	13.56223	PASS
T _{max}	40	°C	V _{nom} 120.00 V	13.56088	13.56075	13.55952	~	13.56223	PASS
T _{max}	30	°C	V _{nom} 120.00 V	13.56088	13.56100	13.55952	~	13.56223	PASS
T _{min}	10	°C	V _{nom} 120.00 V	13.56088	13.56100	13.55952	~	13.56223	PASS
T _{min}	0	°C	V _{nom} 120.00 V	13.56088	13.56075	13.55952	~	13.56223	PASS
T _{min}	-10	°C	V _{nom} 120.00 V	13.56088	13.56088	13.55952	~	13.56223	PASS
T _{min}	-20	°C	V _{nom} 120.00 V	13.56088	13.56100	13.55952	~	13.56223	PASS

Note: Limit= Ref. Freq. * (±) 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