



Accredited Testing Laboratory under the terms of ISO/IEC 17025



DECLARATION OF CONFORMITY

FCC RULES PARTS 2 & 15

CLASS B PERSONAL COMPUTERS AND PERIPHERALS

for

PRODUCT: RESIDENTIAL GATEWAY

"MODEL NAME: QUANTUM T9"

"MULTIPLE MODEL NAME: QUANTUM T7, QUANTUM T5"

AUTHORIZED

HUMAX Co., Ltd.

Humax Venture Tower Seohyun Dong, Bundang Gu271-2 463-050, SEONGANM SHI, GYEONGGI DO, REPUBLIC OF KOREA

September 13, 2017

SUMMARY

The above equipment complies with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4: 2014

This is only valid in connection with Test Report: E179R-D062

The ONETECH Corp., has been accredited as a Conformity Assessment Body (CAB) with designation number, KR0013 from the FCC.

ELECTROMAGNETIC EMISSION COMPLIANCE REPORT

Test Report No. : E179R-D062
AGR No. : A178A-264
Applicant : HUMAX Co., Ltd.
Address : Humax Venture Tower Seohyun Dong, Bundang Gu271-2 463-050, SEONGANM SHI, GYEONGGI DO, REPUBLIC OF KOREA
Manufacturer : HUMAX Co., Ltd.
Address : Humax Venture Tower Seohyun Dong, Bundang Gu271-2 463-050, SEONGANM SHI, GYEONGGI DO, REPUBLIC OF KOREA
Type of Equipment : Residential Gateway - Class B personal computers and peripherals
Model Name : QUANTUM T9
Multiple Model Name : QUANTUM T7, QUANTUM T5
Serial number : N/A
Total page of Report : 25 pages (including this page)
Date of Incoming : August 17, 2017
Date of Issuing : September 13, 2017

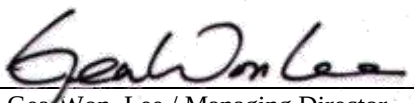
SUMMARY

The equipment complies with the requirement of **FCC CFR 47 PART 15 SUBPART B Class B, Section 15.101.**

This test report contains only the results of a single test of the sample supplied for the examination.

It is not a general valid assessment of the features of the respective products of the mass-production.

Reviewed by: 
 Jae-Beom, Cho / Asst. Chief Engineer
 ONETECH Corp.

Approved by: 
 Gea Won, Lee / Managing Director
 ONETECH Corp.

CONTENTS

PAGE

1. VERIFICATION OF COMPLIANCE	4
2. GENERAL INFORMATION.....	6
2.1 PRODUCT DESCRIPTION.....	6
2.2 MODEL DIFFERENCES.....	6
2.3 RELATED SUBMITTAL(S) / GRANT(S)	6
2.4 TEST SYSTEM DETAILS.....	7
2.5 TEST METHODOLOGY.....	7
2.6 TEST FACILITY.....	7
3. SYSTEM TEST CONFIGURATION	8
3.1 JUSTIFICATION.....	8
3.2 MODE OF OPERATION DURING THE TEST	8
3.3 CABLE DESCRIPTION	8
3.4 EQUIPMENT MODIFICATIONS.....	8
3.5 CONFIGURATION OF TEST SYSTEM.....	8
4. PRELIMINARY TEST	9
4.1 AC POWER LINE CONDUCTED EMISSION TEST	9
4.2 RADIATED EMISSION TEST	9
5. FINAL RESULT OF MEASUREMENT	10
5.1 CONDUCTED EMISSION TEST.....	10
5.1.1 Test data	10
5.2 RADIATED EMISSION TEST	12
5.2.1 Test data for below 1 GHz	12
5.2.2 Test data for above 1 GHz	13
6. FIELD STRENGTH CALCULATION	15
7. LIST OF TEST EQUIPMENT	16
APPENDIX I - TEST SET-UP PHOTOS: (CONDUCTED EMISSION).....	17
APPENDIX II - TEST SET-UP PHOTOS: (RADIATED EMISSION).....	18
APPENDIX III - PHOTOGRAPHS REPORT	20
APPENDIX IV - IDENTIFICATION LABEL.....	24
APPENDIX V - DECLARATION OF CONFORMITY LABELLING REQUIREMENTS	25

Revision History

Rev. No.	Issued Report No.	Issued Date	Revisions	Effect Section
0	E179R-D062	September 13, 2017	Initial Issue	All

1. VERIFICATION OF COMPLIANCE

Applicant	: HUMAX Co., Ltd. Humax Venture Tower Seohyun Dong, Bundang Gu271-2 463-050, SEONGANM SHI, GYEONGGI DO, REPUBLIC OF KOREA
Manufacturer	: HUMAX Co., Ltd. Humax Venture Tower Seohyun Dong, Bundang Gu271-2 463-050, SEONGANM SHI, GYEONGGI DO, REPUBLIC OF KOREA
Factory 1	: SMTronics Co., Ltd. 199, Seonggok-ro, Danwon-Gu, Ansan-si, Gyeonggi-Do, Korea
Factory 2	: SONGHA DIGITAL Co., Ltd. 413-1, Dunjeon-ri, Pogok-eup, Cheoin-gu, Yongin-City, Gyeonggi-Do, Republic of Korea
Factory 3	: J & H Tech Co., Ltd. 41-16, Cheoinseong-ro, Namsa-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, 17118, Korea
Factory 4	: Assel sp. Z o.o. Ul. Batalionow Chlopskich 1 83-000 Pruszcz, Poland
Factory 5	: HPL sp. Z o.o. Ul. Przemyslowa 4 97-400 Belchatow, Poland
Factory 6	: FLEXTRONICS ELECTRONICS TECHNOLOGY (SHENZHEN) CO LTD 89# Yong Fu Road, Tong Fu Yu Industrial Park, Fu Yong Town, Bao An District, Shenzhen, 518103.P.R.China.
Factory 7	: Kinpo Electronics (China) Co.,Ltd. SHA TOU VILLAGE,CHANG AN TOWN,DONG GUAN CITY,GUAN DONG PROVINCE,CHINA
Factory 8	: CAL-COMP ELECTRONICS(THAILAND) PUBLIC CO. LTD (Branch 00002) 138 MOO4, Petchasem Road, Sapang, Kaow-Yoi, Petchaburi 76140 Thailand

Model Name : QUANTUM T9
Brand Name : N/A
Date : September 13, 2017

DEVICE TYPE	Class B personal computers and peripherals
E.U.T. DESCRIPTION	Residential Gateway - Unintentional Radiator
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.4: 2014
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Declaration of Conformity
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 (CLASS B)
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	None
FINAL TEST WAS CONDUCTED ON	10 m, semi anechoic chamber

- The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. GENERAL INFORMATION

2.1 Product Description

The HUMAX Co., Ltd., Model QUANTUM T9 (referred to as the EUT in this report) is a Residential Gateway. Product specification described herein was obtained from product data sheet or user's manual.

CHASSIS TYPE	Plastic			
OPERATING FREQUENCY	5 GHz (5 150 MHz ~ 5 250 MHz)	802.11a/n(HT20)	Lower-sub band	5 180 MHz ~ 5 240 MHz
		802.11n(HT40)	Lower-sub band	5 190 MHz ~ 5 230 MHz
		802.11ac(VHT80)	Lower-sub band	5 210 MHz
	5 GHz Band (5 725 MHz ~ 5 850 MHz)	802.11a/n(HT20)	5 745 MHz ~ 5 825 MHz	
		802.11n(HT40)	5 755 MHz ~ 5 795 MHz	
		802.11ac(VHT80)	5 775 MHz	
	2.4 GHz Band	802.11b/g/n(HT20)	2 412 MHz ~ 2 472 MHz	
		802.11n(HT40)	2 422 MHz ~ 2 462 MHz	
ELECTRICAL RATING	EUT	DC 12 V $\overline{=}$, 2.5 A		
	AC ADAPTER	Input: 100-240 V~, 50/60 Hz Output: 12 V $\overline{=}$, 2.5 A		
EXTERNAL TERMINALS	DC IN, WAN, LAN 1, LAN 2, USB			

2.2 Model Differences

The following lists consist of the added model and their differences.

Model Name	Differences	Tested
QUANTUM T9	Basic Model (2.4 GHz: 3Tx3Rx, 5 GHz: 4Tx4Rx)	☒
QUANTUM T7	These models are identical to the basic model except for the Antenna. (2.4 GHz: 3Tx3Rx, 5 GHz: 3Tx3Rx)	☐
QUANTUM T5	These models are identical to the basic model except for the Antenna. (2.4 GHz: 2Tx2Rx, 5 GHz: 3Tx3Rx)	☐

Note: 1. Applicant consigns only basic model to test. Therefore this test report just guarantees the units, which have been tested.

2. The Applicant/manufacturer is responsible for the compliance of all variants.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Test System Details

The model numbers for all the equipments, which were used in the tested system, is:

Model	Manufacturer	Description	Connected to
QUANTUM T9	HUMAX Co., Ltd.	Residential Gateway (EUT)	-
ADS-30FD-12 12030E	SHENZHEN HONOR ELECTRONIC CO., LTD.	Adapter	EUT
PLSU6K-008004	TOSHIBA	Notebook PC (1)	EUT
80XH	LENOVO PC HK Limited	Notebook PC (2)	EUT
-	Sandisk	USB Memory	EUT

2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4: 2014. Radiated testing was performed at a distance of 10 m from EUT to the antenna.

2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea.

-. Site Filing:

VCCI (Voluntary Control Council for Interference) - Registration No. R-4112/ C-14617/ G-10666/ T-1842

IC (Industry Canada) – Registration No. Site# 3736A-3

-. Site Accreditation:

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

3. SYSTEM TEST CONFIGURATION

3.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
MAIN BOARD	N/A	N/A	N/A

3.2 Mode of operation during the test

- . The EUT was connected two notebook pc to WAN, LAN port each and then checked the ping test during the test.
- . Input power condition during the measurements was AC 120 V~, 60 Hz.

3.3 Cable Description

Ports Name	Shielded	Ferrite Bead	Metal Shell	Length (m)	Connected to
DC IN	Y	N	N	1.5	Adapter
WAN	N	N	N	3.0	Notebook PC (2)
LAN (1)	N	N	N	3.0	Notebook PC (1)
LAN (2)	N	N	N	3.0	LINE
USB	N	N	N	-	USB Memory

3.4 Equipment Modifications

- . None.

3.5 Configuration of Test System

Line Conducted Test: The EUT was connected to LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.4: 2014 7.3.3 to determine the worse operating conditions.

Radiated Emission Test: Preliminary radiated emission test was conducted using the procedure in ANSI C63.4: 2014 8.3.1.1 to determine the worse operating conditions. Final radiated emission test was conducted at 10 m semi anechoic chamber.

4. PRELIMINARY TEST

4.1 AC Power line Conducted Emission Test

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worst operating condition (Please check one only)
WAN, LAN Ping Test	X

4.2 Radiated Emission Test

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worst operating condition (Please check one only)
WAN, LAN Ping Test	X

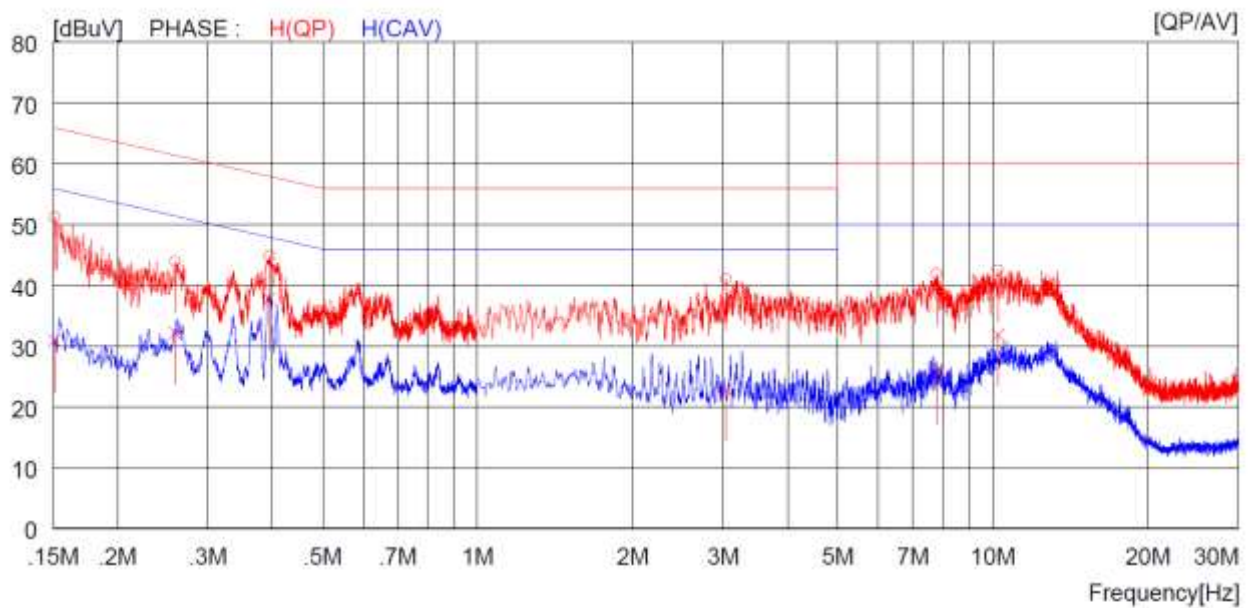
5. FINAL RESULT OF MEASUREMENT

Preliminary test was done in normal operation mode. And the final measurement was selected for the maximized emission level.

5.1 Conducted Emission Test

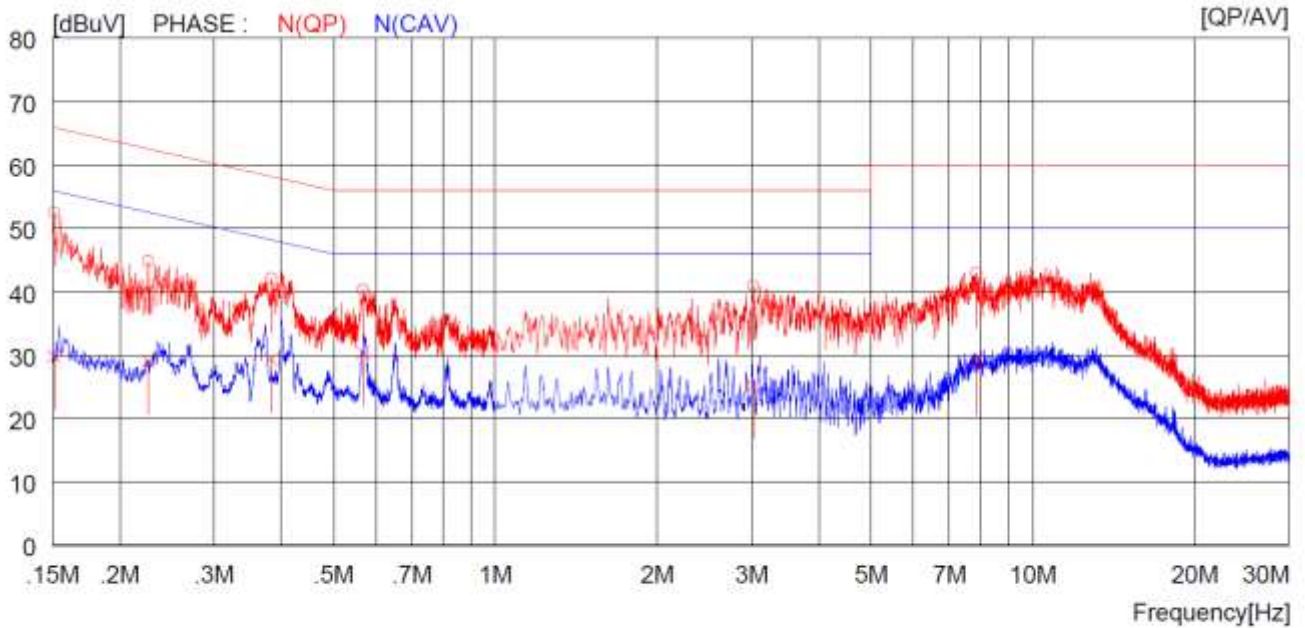
5.1.1 Test data

Humidity Level	: <u>51.0 % R.H.</u>	Temperature: <u>23.9 °C</u>
Limits apply to	: <u>FCC CFR 47, PART 15, SUBPART B, SECTION 15.107 (a)</u>	
Type of Test	: <u>CLASS B</u>	
Result	: <u>PASSED BY 10.2 dB at 0.39500 MHz under CISPR-Average detector mode on HOT Line</u>	
EUT	: QUANTUM T9	Date: August 22, 2017
Detector	: Q.P (6 dB Bandwidth: 9 kHz)	
Tested Line	: HOT LINE	



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15100	41.2	----	10.0	51.2	----	65.9	----	14.7	----	H (QP)
2	0.25900	34.0	----	10.0	44.0	----	61.5	----	17.5	----	H (QP)
3	0.39500	34.9	----	10.0	44.9	----	58.0	----	13.1	----	H (QP)
4	3.03600	30.8	----	10.2	41.0	----	56.0	----	15.0	----	H (QP)
5	7.79500	31.6	----	10.3	41.9	----	60.0	----	18.1	----	H (QP)
6	10.24000	32.1	----	10.4	42.5	----	60.0	----	17.5	----	H (QP)
7	0.15100	----	21.0	10.0	----	31.0	----	55.9	----	24.9	H (CAV)
8	0.25900	----	22.2	10.0	----	32.2	----	51.5	----	19.3	H (CAV)
9	0.39500	----	27.8	10.0	----	37.8	----	48.0	----	10.2	H (CAV)
10	3.03600	----	12.7	10.2	----	22.9	----	46.0	----	23.1	H (CAV)
11	7.79500	----	15.4	10.3	----	25.7	----	50.0	----	24.3	H (CAV)
12	10.24000	----	21.5	10.4	----	31.9	----	50.0	----	18.1	H (CAV)

Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15100	42.5	----	10.0	52.5	----	65.9	----	13.4	----	N(QP)
2	0.22600	34.9	----	10.0	44.9	----	62.6	----	17.7	----	N(QP)
3	0.38300	32.1	----	10.0	42.1	----	58.2	----	16.1	----	N(QP)
4	0.56800	30.2	----	10.1	40.3	----	56.0	----	15.7	----	N(QP)
5	3.02000	30.7	----	10.2	40.9	----	56.0	----	15.1	----	N(QP)
6	7.85500	32.6	----	10.3	42.9	----	60.0	----	17.1	----	N(QP)
7	0.15100	----	19.8	10.0	----	29.8	----	55.9	----	26.1	N(CAV)
8	0.22600	----	19.1	10.0	----	29.1	----	52.6	----	23.5	N(CAV)
9	0.38300	----	19.4	10.0	----	29.4	----	48.2	----	18.8	N(CAV)
10	0.56800	----	20.3	10.1	----	30.4	----	46.0	----	15.6	N(CAV)
11	3.02000	----	15.0	10.2	----	25.2	----	46.0	----	20.8	N(CAV)
12	7.85500	----	18.7	10.3	----	29.0	----	50.0	----	21.0	N(CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

Tested by: Song-Ho, Moon / Engineer

5.2 Radiated Emission Test

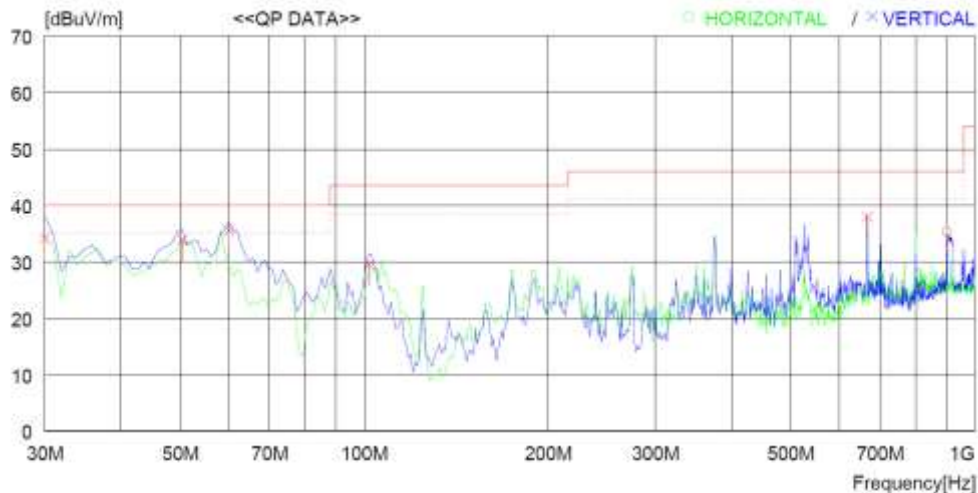
The following table shows the highest levels of radiated emission on both polarizations of horizontal and vertical.

5.2.1 Test data for below 1 GHz

5.2.1.1 Test data

Humidity Level : 58.2 % R.H. Temperature: 23.4 °C
Limits apply to : FCC CFR 47, PART 15, SUBPART B, SECTION 15.109 (a)
Type of Test : CLASS B
Result : PASSED BY 4.5 dB at 60.070 MHz

EUT : QUANTUM T9 Date: August 31, 2017
Frequency Range : 30 MHz ~ 1 000 MHz
Detector : Q.P (6 dB Bandwidth: 120 kHz)
Distance : 3 m



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	900.079	38.8	22.1	7.0	32.6	35.3	46.0	10.7	100	0
----- Vertical -----										
2	30.000	53.6	12.3	1.4	33.1	34.2	40.0	5.8	100	23
3	50.370	51.1	14.1	1.7	33.1	33.8	40.0	6.2	200	3
4	60.070	53.5	13.2	1.9	33.1	35.5	40.0	4.5	100	111
5	101.780	47.9	12.2	2.4	33.0	29.5	43.5	14.0	200	72
6	666.316	46.0	19.6	5.9	33.5	38.0	46.0	8.0	200	114

Remark: Margin (dB) = Limit – Result and Result = Reading Quasi-Peak + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

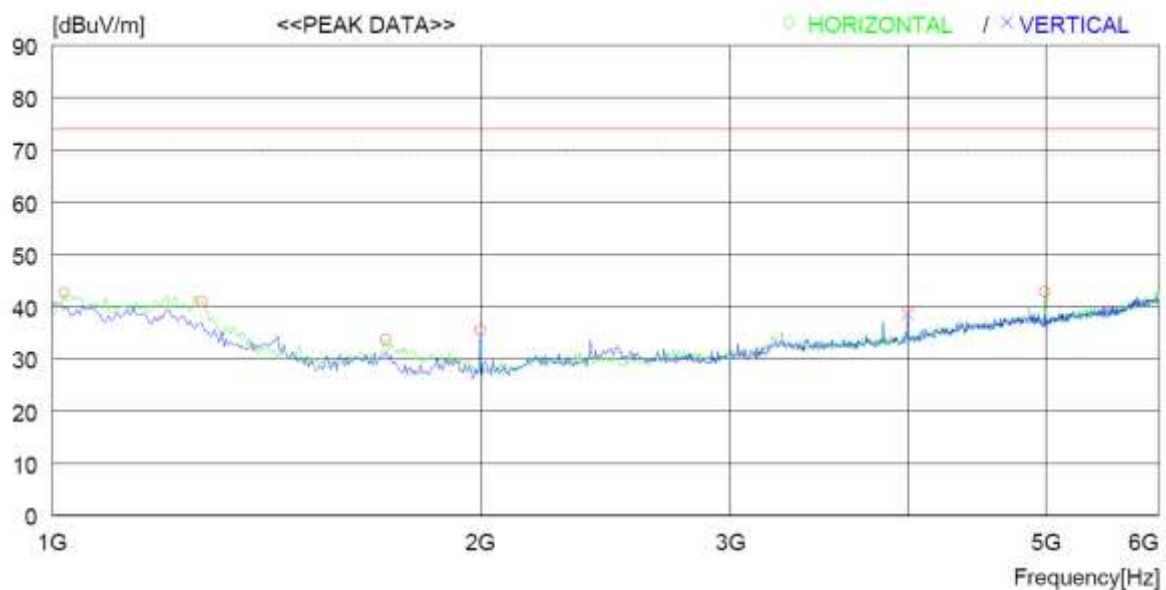
Tested by: Song-Ho, Moon / Engineer

5.2.2 Test data for above 1 GHz

5.2.2.1 Test data

Humidity Level : 52.4 % R.H. Temperature: 23.4 °C
Limits apply to : FCC CFR 47, PART 15, SUBPART B, SECTION 15.109 (g)
Type of Test : CLASS B
Result : PASSED BY 14.9 dB at 4 990.001 MHz under CISPR-Average mode

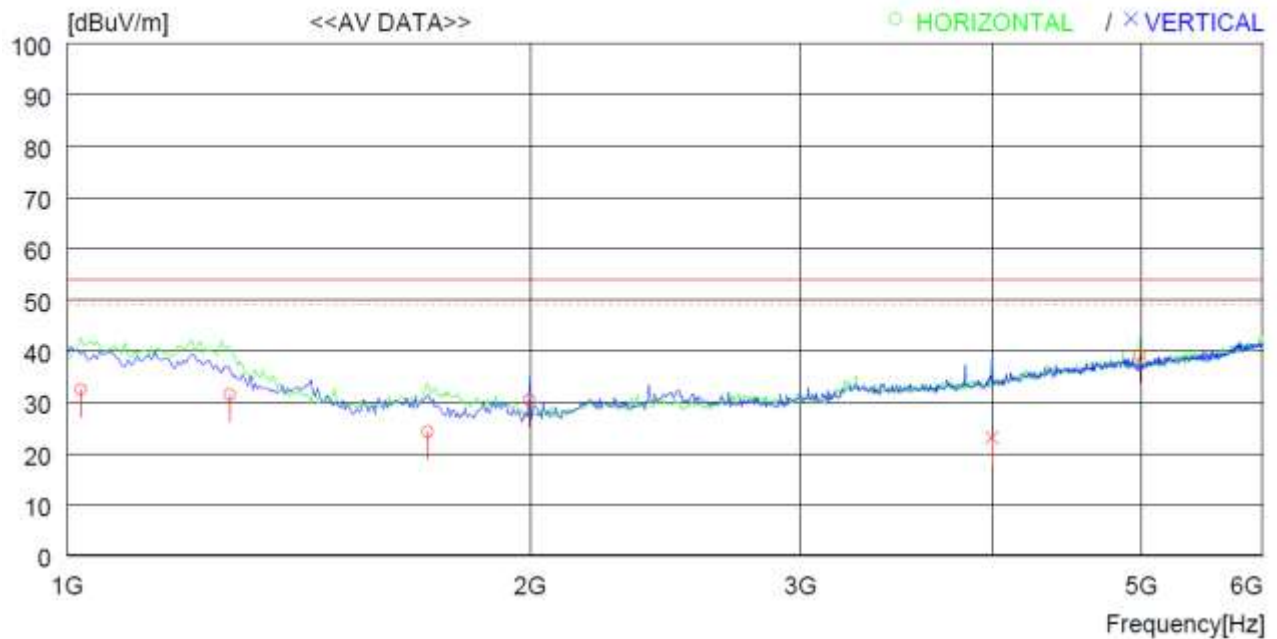
EUT : QUANTUM T9 Date: September 11, 2017
Frequency Range : 1 000 MHz ~ 6 000 MHz
Detector : Peak and CISPR Average (6 dB Bandwidth: 1 MHz)
Distance : 3 m



No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1020.000	50.2	25.2	7.0	39.8	42.6	74.0	31.4	300	359
2	1275.000	48.1	24.9	7.8	39.9	40.9	74.0	33.1	370	275
3	1715.000	39.8	24.6	9.1	39.9	33.6	74.0	40.4	100	359
4	2000.000	39.2	26.2	10.0	40.0	35.4	74.0	38.6	200	58
5	4990.000	35.7	31.3	16.3	40.6	42.7	74.0	31.3	200	219
----- Vertical -----										
6	3995.000	34.7	29.7	14.7	40.5	38.6	74.0	35.4	200	359

Remark: Margin (dB) = Limit – Result and Result = Reading Peak + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
---- Horizontal ----										
1	1020.105	40.4	24.8	7.0	39.8	32.4	54.0	21.6	300	359
2	1275.230	38.5	25.1	7.8	39.9	31.5	54.0	22.5	370	275
3	1715.030	29.6	25.4	9.1	39.9	24.2	54.0	29.8	100	359
4	1999.058	34.8	25.6	10.0	40.0	30.4	54.0	23.6	200	58
5	4990.001	32.2	31.2	16.3	40.6	39.1	54.0	14.9	200	219
---- Vertical ----										
6	3995.044	19.3	29.6	14.7	40.5	23.1	54.0	30.9	200	359

Remark: Margin (dB) = Limit – Result and Result = Reading CISPR Average + Antenna Factor + Loss – Gain
Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

Tested by: Song-Ho, Moon / Engineer

6. FIELD STRENGTH CALCULATION

Meter readings are compared to the specification limit correcting for antenna and cable losses.

+	Meter reading	(dB μ V)
+	Cable Loss	(dB)
+	Antenna Factor	(dB/m)
=	Corrected Reading	(dB μ V/m)
Margin (dB)		
	Specification Limit	(dB μ V/m)
-	Corrected Reading	(dB μ V/m)
=	dB Relative to Spec	($\pm$ dB)

7. LIST OF TEST EQUIPMENT

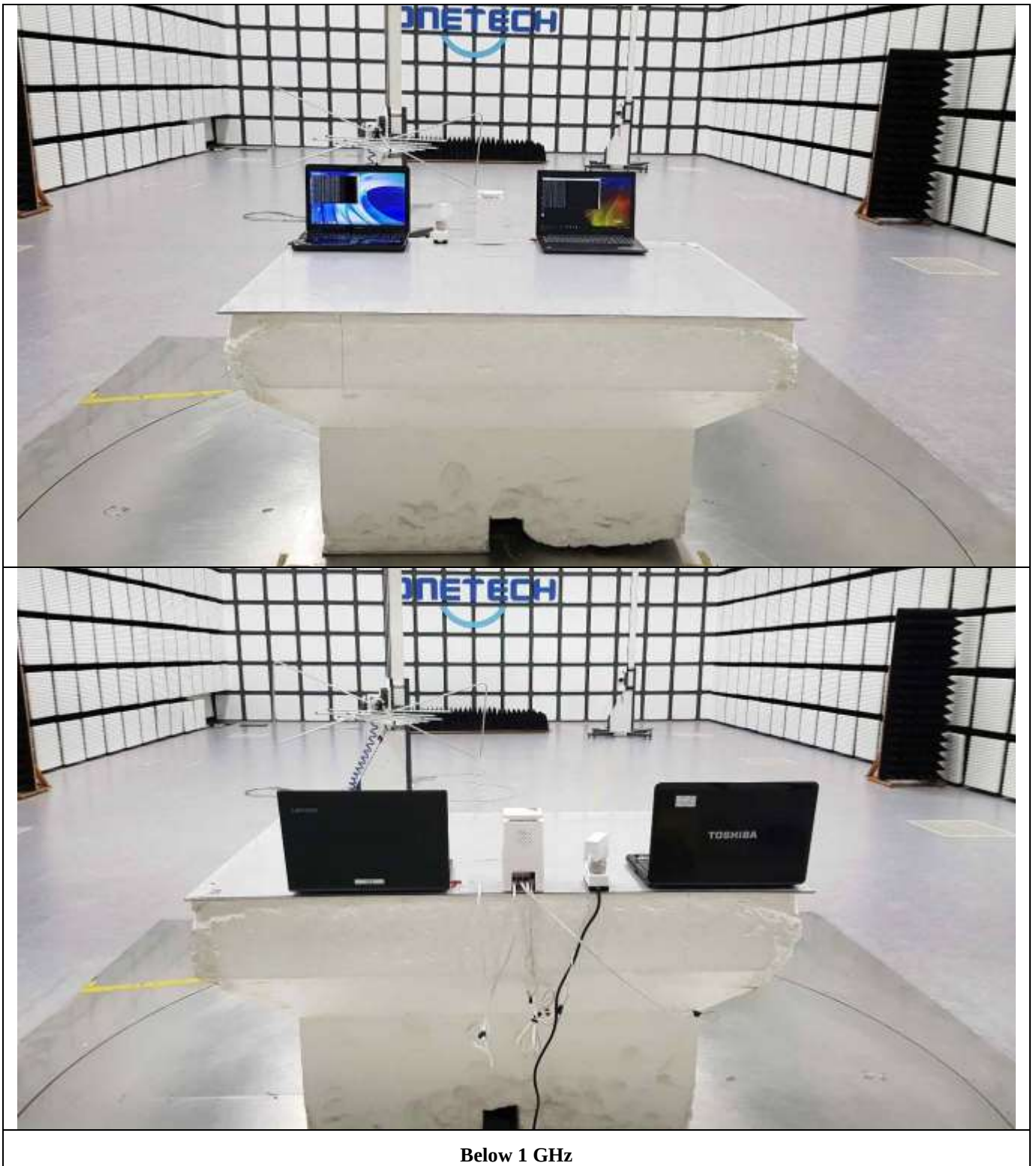
No.	EQUIPMENTS	MFR.	MODEL	SER. NO.	LAST CAL	DUE CAL	USE
1.	Test receiver	R & S	ESCI	101420	Apr. 03, 2017	One Year	☐
2.			ESPI	101278	Nov. 01, 2016	One Year	☒
3.			ESCI	101013	Apr. 04, 2017	One Year	☐
4.			ESR	101470	Feb. 08, 2017	One Year	☒
5.			ESI	8355336/011	Nov. 02, 2016	One Year	☐
6.	Pulse Limiter	ROHDE & SCHWARZ	ESH3Z2	357.8810.52	Jun. 13, 2017	One Year	☒
7.	Amplifier	Sonoma	310N	312544	Apr. 04, 2017	One Year	☒
8.		Instrument	310N	312545	Apr. 04, 2017	One Year	☐
9.		Hewlett Packard	8447D	2944A07777	Apr. 04, 2017	One Year	☐
10.	TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-419	Aug. 05, 2016	Two Years	☒
11.			VULB9163	9163-255	May. 20, 2016	Two Years	☐
12.	Horn Antenna	Schwarzbeck	BBHA9120D	BBHA9120D295	Aug 16, 2017	Two Years	☒
13.	Signal Conditioning unit	ROHDE & SCHWARZ	SCU 18	102209	May 30, 2017	One Year	☒
14.	LISN	EMCO	3825/2	9109-1867	Apr. 07, 2017	One Year	☐
15.				9109-1869	Apr. 06, 2017	One Year	☐
16.		Schwarzbeck	NSLK 8126	8126-480	Nov. 02, 2016	One Year	☐
17.			NSLK 8126	8126-404	Apr. 03, 2017	One Year	☒
18.			NSLK 8126	8126-479	Nov. 02, 2016	One Year	☒
19.		AFJ	LT 32C	32031306157	Apr. 04, 2017	One Year	☐
20.	Controller	Innco System	CO3000	CO3000/904 /37211215/L	N/A	N/A	☒
21.			CO2000	CO2000/619	N/A	N/A	☐
22.	Turn Table	Innco System	DT3000	930611	N/A	N/A	☒
23.			DT5000-3t-Teagplatten	N/A	N/A	N/A	☐
24.	Antenna Master	Innco System	MA-4000XPET	MA4000/509 /37211215/L	N/A	N/A	☒
25.			MA4000-EP	MA4000/332 /27030611/L	N/A	N/A	☐

Remark: Mark ☒ mean used equipment.

APPENDIX I - TEST SET-UP PHOTOS: (Conducted emission)

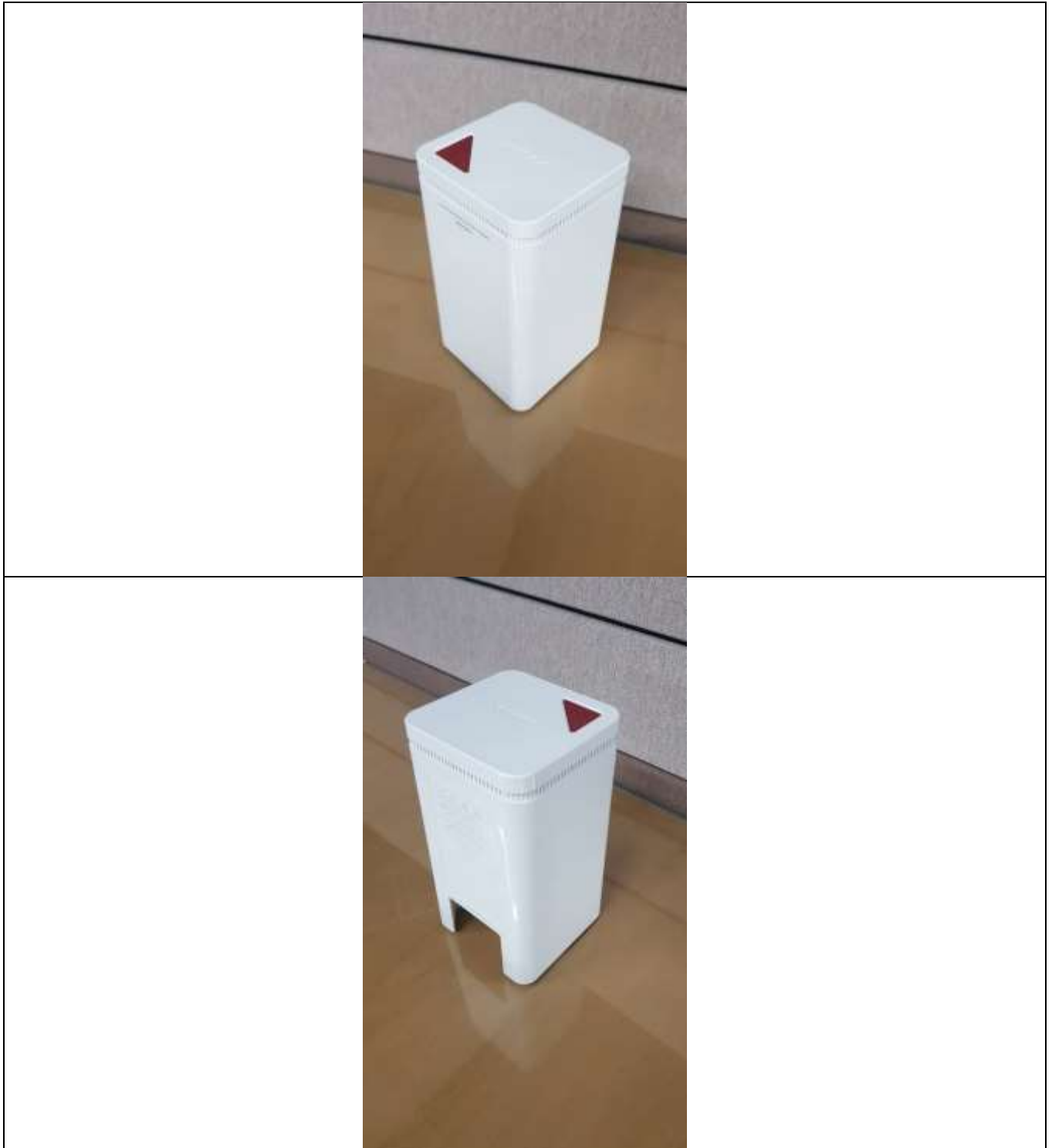


APPENDIX II - TEST SET-UP PHOTOS: (Radiated emission)





APPENDIX III - PHOTOGRAPHS REPORT









APPENDIX IV - IDENTIFICATION LABEL

(Proposed format to be included in the user's manual)

DECLARATION OF CONFORMITY

PRODUCT NAME	: Residential Gateway
MODEL NUMBER	: QUANTUM T9
FCC RULES	: Tested to comply with FCC Part 15, Class B
OPERATING ENVIRONMENT	: FOR HOME OR OFFICE USE

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

INFORMATION TO USER:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

Any changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment

THE PARTY RESPONSIBLE FOR PRODUCT COMPLIANCE

(YOUR CORPORATE NAME)

(STREET, CITY, STATE, USA)

(TELEPHONE NO: (XXX) YYY-ZZZZ)

(ABOVE NAME AND ADDRESS MUST BE LOCATED WITHIN THE UNITED STATES)

APPENDIX V - DECLARATION OF CONFORMITY LABELLING REQUIREMENTS

The labelling requirements for a device subject to the DoC procedure are specified in Section 15.19(b). The label should include the FCC logo along with the Trade Name and Model Number, which satisfies the unique identifier requirement of Section 2.1074 if it represents the identical equipment tested for DoC compliance. For personal computers assembled from authorized components, the following additional text must also be included: “Assembled from tested components,” “Complete system not tested.”

§15.19(b)(1)(i) Products subject to authorization under a Declaration of Conformity shall be labelled as follows:	§15.19(b)(1)(ii) If a personal computer is authorized based on assembly using separately authorized components:
	

When the device is so small or for such use that it is not practicable to place the statement specified under paragraph 15.19(b)(1) on it, such as for a CPU board or a plug-in circuit board peripheral device, the text associated with the logo may be placed in a prominent location in the instruction manual or pamphlet supplied to the user. However, the unique identification (trade name and model number) and the logo must be displayed on the device.

The label shall not be a stick-on, paper label. The label on these products shall be permanently affixed to the product and shall be readily visible to the purchaser at the time of purchase. "Permanently affixed" means that the label is etched, engraved, stamped, silkscreened, indelibly printed or otherwise permanently marked on a permanent attached part of the equipment or on a nameplate of metal, plastic, or other material fastened to the equipment by welding, riveting or a permanent adhesive. The label must be designed to last the expected lifetime of the equipment in the environment in which the equipment may be operated and must not be readily detachable.