

FCC DoC TEST REPORT

for

Turnkey Chassis

MODEL: TKS-G50-9155-xxx-xx

Test Report Number: 90109205-F

Issued to:

AAEON Technology Inc.

5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City, Taipei, Taiwan, R.O.C.

Issued by:

Compliance Certification Services Inc.

Sindian BU. No.163-1, Jhongsheng Rd., Sindian City, Taipei County 23151, Taiwan TEL: 886-2-22170894

FAX: 886-2-22171029

Issued Date: January 14, 2008



Note: This report shall not be reproduced except in full, without the written approval of Compliance Certification Services Inc. This document may be altered or revised by Compliance Certification Services Inc. personnel only, and shall be noted in the revision section of the document. The client should not use it to claim product endorsement by TAF, A2LA, NVLAP, NIST or any government agencies. The test results in the report only apply to the tested sample.



Report No.: 90109205-F

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00		Initial Issue	ALL	

Report No.: 90109205-F

TABLE OF CONTENTS

1	TEST RESULT CERTIFICATION	. 4
2	EUT DESCRIPTION	. 5
3	TEST METHODOLOGY	. 6
3.1.	DECISION OF FINAL TEST MODE	
3.2.	EUT SYSTEM OPERATION	. 6
4	SETUP OF EQUIPMENT UNDER TEST	. 7
4.1.	DESCRIPTION OF SUPPORT UNITS	
4.2.	CONFIGURATION OF SYSTEM UNDER TEST	. 8
5	FACILITIES AND ACCREDITATIONS	. 9
5.1.	FACILITIES	
5.2.	ACCREDITATIONS	
5.3.	MEASUREMENT UNCERTAINTY	
6	CONDUCTED EMISSION MEASUREMENT 1	10
6.1.	LIMITS OF CONDUCTED EMISSION MEASUREMENT 1	10
6.2.	TEST INSTRUMENTS 1	10
6.3.	TEST PROCEDURES1	
6.4.	TEST SETUP 1	12
6.5.	DATA SAMPLE1	12
6.6.	TEST RESULTS 1	
7	RADIATED EMISSION MEASUREMENT 1	
7.1.	LIMITS OF RADIATED EMISSION MEASUREMENT 1	14
7.2.	TEST INSTRUMENTS 1	
7.3.	TEST PROCEDURES1	15
7.4.	TEST SETUP 1	
7.5.	DATA SAMPLE1	
7.6.	TEST RESULTS 1	
8	PHOTOGRAPHS OF THE TEST CONFIGURATION	22



Report No.: 90109205-F

1 TEST RESULT CERTIFICATION

Product:	Turnkey Chassis
Brand:	AAEON
Model:	TKS-G50-9155-xxx-xx (Where x is 0-9 , A-Z , -or blank) for marketing purpose
Applicant:	AAEON Technology Inc. 5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City, Taipei, Taiwan, R.O.C.
Manufacturer:	AAEON Technology Inc. 5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City, Taipei, Taiwan, R.O.C.
Tested:	January 9, 2008 & January 13, 2008

EMISSION						
Standard	Item	Result	Remarks			
FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 4	Conducted (Main Port)	PASS	Meet Class A limit			
ANSI C63.4-2003	Radiated	PASS	Meet Class A limit			

Note: 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.

2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard

None

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Vince Chiang Assistant Manager of Sindian BU. Reviewed by:

esta ML

Vesta Hsu Supervisor of report document dept. of Sindian BU.

Page 4



Report No.: 90109205-F

2 EUT DESCRIPTION

Product	Turnkey Chassis
Brand Name	AAEON
Model	TKS-G50-9155-xxx-xx (Where x is 0-9, A-Z, -or blank) for marketing purpose
Applicant	AAEON Technology Inc.
Housing material	Metal case
Identify Number	90109205
Received Date	January 9, 2009
EUT Power Rating	16VDC from AC Adaptor
AC Power During Test	120VAC / 60 Hz to AC Adaptor
AC Adaptor Manufacturer	LIEN ELECTRONICS
AC Adaptor Model Number	LE-0316B160080
Power Adaptor Power Rating	IP: 100-240VAC, 60/50Hz OP: 16VDC
DC Power Cord Type	Unshielded, 1.8m (Non-Detachable, with a core) to AC Adaptor
EUT I/O Cable Type	Shielded, 0.2m (Detachable)
OSC/Clock Frequencies	14.31818MHz; 25MHz; 32.768KHz

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
1) SIO Port	4	4
2) PS/2 one to two adaptor	1	1
3) VGA Port	1	1
4) Microphone Port	1	1
5) Earphone Port	1	1
6) USB Port	4	4
7) LAN Port	1	1

Note: Client consigns only one model sample to test (Model Number: TKS-G50-9155).

Page 5

TEST METHODOLOGY 3

3.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the above additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The test configuration/ mode is as the following:

Conduction Mode:

NORMAL MODE 1.

Radiation Mode:

1	NORMAL MODE
1.	NORMAL MODE / 1-10GHz

Conduction: Mode 1

Radiation: Mode 1

3.2. EUT SYSTEM OPERATION

- 1. Windows XP boots system.
- 2. Run Emctest.exe to activate all peripherals and display "H" pattern on monitor screen.
- 3. Run Winemc.exe and choose "E:/& F:/& G:/ & H:/" to test EUT.
- 4. Press the start menu, select executive and type ping 192.168.0.2 -t (EUT), ping 192.168.0.1-t (Server PC).

Note: Test program is self-repeating throughout the test.

Page 6

4 SETUP OF EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

EUT Devices:

No.	Equipment	Model No.	Trade Name				
1	CPU (2.00GHz)	Pentium M	INTEL				
2 CF Card (4GB)		N/A	Transcend				
3 CPU Board		GENE-9155—xxxxxx (Where x is 0-9, A-Z, or blank) for marketing purpose	AAEON				
4	4 Memory (DDR2-667 2GB) SEC K4T1G084QQ Transcend						
Note:	Note: Client consigns only one model sample to test (CPU Board Model Number: GENE-9155).						

Peripherals Devices:

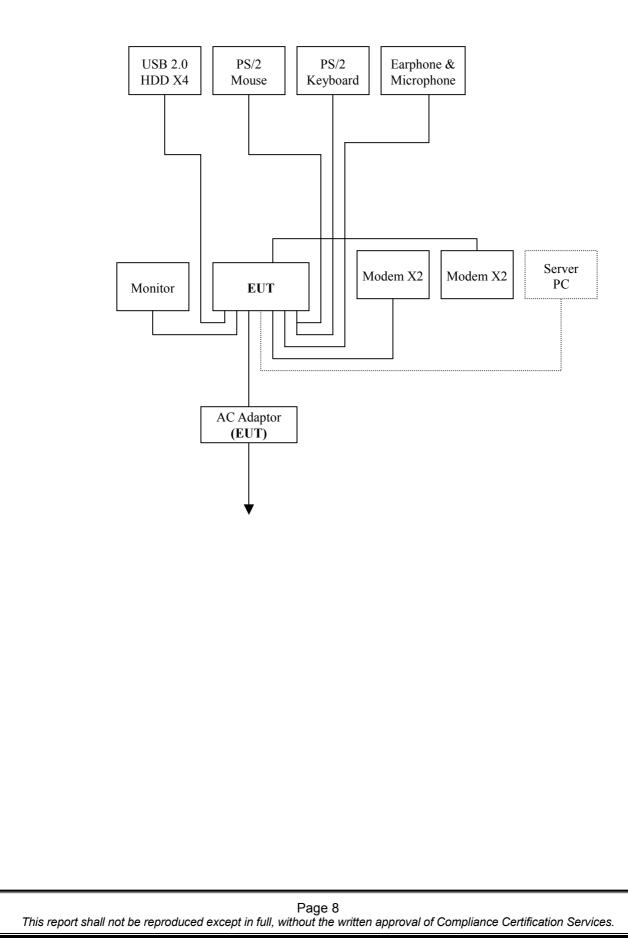
No.	Equipment	Model No.	Serial No.	FCC ID / BSMI ID	Trade Name	Data Cable	Power Cord
1-4	USB 2.0 HDD X4	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
5	PS/2 Mouse	M071KC	443029438	DOC BSMI: R41108	DELL	Shielded, 1.8m	N/A
6	PS/2 Keyboard	SK-8110	N/A	DOC BSMI: T3A002	DELL	Shielded, 1.8m	N/A
7	Earphone & Microphone	MSB301	N/A	N/A	e-Sense	Unshielded, 1.8m	N/A
7	Monitor	710V	GS17H9NXA164 97S	DOC BSMI: R33475	SAMSUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
8-11	Modem X4	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP- SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
12	Server PC	xw4400	N/A	DOC BSMI: R33001	HP	Unshielded, 20m	Unshielded, 1.8m

Note:

- *1)* All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

Report No.: 90109205-F

4.2. CONFIGURATION OF SYSTEM UNDER TEST



5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at CCS Taiwan Sindian BU. at No.163-1, Jhongsheng Rd., Sindian City, Taipei County 23151, Taiwan.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5.

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan	TAF
USA	A2LA

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	Industry Canada
Germany	TUV Rheinland
Japan	VCCI
Taiwan	BSMI
USA	FCC

Copies of granted accreditation certificates are available for downloading from our web site, <u>http://www.ccsemc.com.tw</u>

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Conducted emissions	0.15MHz~30MHz	± 1.7366
Radiated emissions	$30 MHz \sim 200 MHz$	± 3.8992
Radiated emissions	200MHz~1000MHz	± 3.8762

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22: 2006, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.

Page 9

6 CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A	(dBuV)	Class B (dBuV)		
FREQUENCE (MILZ)	Quasi-peak Average		Quasi-peak	Average	
0.15 - 0.5	79	66	66 - 56	56 - 46	
0.50 - 5.0	73	60	56	46	
5.0 - 30.0	73	60	60	50	

NOTE:

(1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

(3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

6.2. TEST INSTRUMENTS

Conducted Emission room # B									
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due					
TEST RECEIVER	R&S	ESHS10	843743/015	03/31/2009					
LISN (EUT)	FCC	FCC-LISN-50-32-2	08009	06/09/2009					
LISN	ЕМСО	3825/2	1382	01/05/2010					
BNC CABLE	MIYAZAKI	5D-FB	BNC B1	07/11/2009					
Pulse Limiter	R&S	ESH3-Z2	100374	08/22/2009					
THERMO- HYGRO METER	ТОР	HA-202	9303-3	01/29/2009					
Test S/W		EMI 32.exe							

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.



6.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

Procedure of Preliminary Test

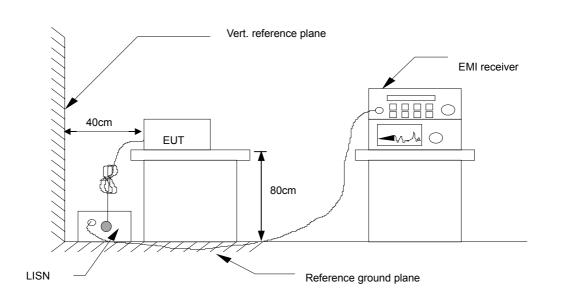
- The EUT and Support equipment, if needed, was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed received AC main power, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.
- All support equipment power received from a second LISN.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
- The test data of the worst-case condition(s) was recorded.

Report No.: 90109205-F

6.4. TEST SETUP



• For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

6.5. DATA SAMPLE

Freq. (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Remark (P/Q/A)	Line (L1/L2)
X.XX	42.95	0.55	43.50	73	-29.50	Q	L1

Freq.	= Emission frequency in MHz
Read Level	= Uncorrected Analyzer/Receiver reading
Factor	= Insertion loss of LISN + Cable Loss
Level	= Read Level + Factor
Limit Line	= Limit stated in standard
Over Limit	= Reading in reference to limit
Р	= Peak Reading
Q	= Quasi-peak Reading
А	= Average Reading
L1	= Hot side
L2	= Neutral side

Calculation Formula

Over Limit (dB) = Level (dBuV) – Limit Line (dBuV)



6.6. TEST RESULTS

Model No.	TKS-G50-9155	6dB Bandwidth	10 KHz
Environmental Conditions	18°C, 70% RH, 1010mbar	Test Mode	Mode 1
Tested by	Alee Shen		

(The chart below shows the highest readings taken from the final data.)

	Six Highest Conducted Emission Readings								
Frequency Range Investigated				150 KHz to 30 MHz					
Freq. (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Remark (P/Q/A)	Line (L1/L2)		
0.150	56.46	10.88	67.34	79.00	-11.66	Р	L1		
0.150	23.80	10.88	34.68	66.00	-31.32	Α	L1		
0.157	54.90	10.82	65.72	79.00	-13.28	Р	L1		
1.276	48.97	10.06	59.03	73.00	-13.97	Р	L1		
0.151	56.55	10.88	67.43	79.00	-11.57	Р	L2		
0.151	25.33	10.88	36.21	66.00	-29.79	Α	L2		
0.160	57.16	10.80	67.96	79.00	-11.04	Р	L2		
0.160	23.94	10.80	34.74	66.00	-31.26	Α	L2		
1.310	48.55	10.06	58.61	73.00	-14.39	Р	L2		

NOTE: 1. *L*1 = *Line One (Live Line)* / *L*2 = *Line Two (Neutral Line).*

2. Those frequencies only show peak emission level because that was below the Average limit, so no need to check average anymore.

7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	dBuV/m (At 10m)			
FREQUENCI (MHZ)	Class A	Class B		
$30 \sim 230$	40	30		
230 ~ 1000	47	37		

Fraguanay (MHz)	Class A (dBu	V/m) (At 3m)	Class B (dBuV/m) (At 3m)		
Frequency (MHz)	Average	Peak	Average	Peak	
Above 1000	60	80	54	74	

NOTE: (1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

(3) 10m to 3m: 20 log (3/10)=-10.4576dB.

7.2. TEST INSTRUMENTS

	Open A	Area Test Site # H						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
MEASURE RECEIVER	SCHAFFNER	SCR 3501	412	05/21/2009				
SPECTRUM ANALYZER	ADVANTEST	R3132	120900003	No Calibration Required				
ANTENNA	SCHAFFNER	CBL 6112B	2801	09/16/2009				
AMPLIFIER	HP	8447D	1937A01554	10/12/2009				
CABLE	BELDEN	9913	N-TYPE #H4-6	08/22/2009				
THERMO- HYGRO METER	TECPEL	DTM-303	080268	05/11/2009				
Test S/W	Test S/W EZ-EMC							
	Abo	ve 1GHz Used						
SPECTRUM ANALYZER (3Hz-44GHz)	Agilent	Agilent E4446A MY4		10/28/2009				
ANTENNA (1-18GHz)	EMCO	3115	00022256	01/30/2009				
AMPLIFIER (1-18GHz)	HP	8449B	3008A01266	01/28/2009				
CABLE (1-18GHz)	JYEBAO	LL142	SMA#RS1	01/28/2009				
CABLE (1-18GHz)	HUBER +SUHNER	SUCOFLEX 104	SMA#RS3	01/28/2009				
CABLE (1-18GHz)	JYEBAO	LL142	SMA#C1	01/28/2009				
Test S/W		EZ-EN	MC					

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

Page 14



7.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

Procedure of Preliminary Test

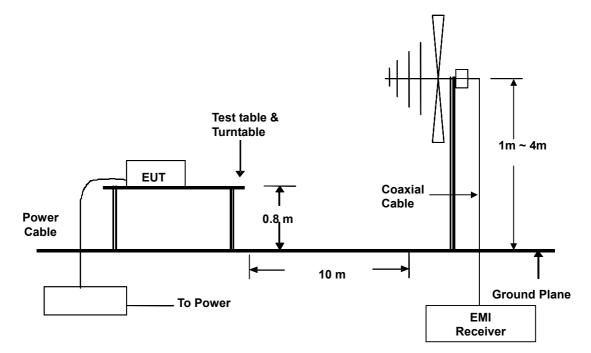
- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 10000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

Report No.: 90109205-F

Procedure of Final Test

- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 10000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.
- The test data of the worst-case condition(s) was recorded.

7.4. TEST SETUP



• For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

CCS Compliance Certification Services Inc.

Report No.: 90109205-F

7.5. DATA SAMPLE

Below 1GHz

Freq.	Reading	Factor	Result	Limit	Margin	Remark	Pol.
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(H/V)
X.XX	14.0	12.2	26.2	40	-13.8	Q	Н

Freq.	= Emission frequency in MHz
Reading	= Uncorrected Analyzer/Receiver reading
Factor	= Antenna Factor + Cable Loss + Attenuator (3/6/10dB) – Amplifier Gain
Result	= Uncorrected Analyzer/Receiver reading + Factor
Limit	= Limit stated in standard
Margin	= Reading in reference to limit
Р	= Peak Reading
Q	= Quasi-peak Reading
А	= Average Reading
Н	= Antenna Polarization: Horizontal
V	= Antenna Polarization: Vertical

Margin (dB) = Level (dBuV/m) - Limit (dBuV/m)

Above 1GHz

Freq. (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark (P/A)	Pol. (H/V)
X.XX	42.95	0.55	43.50	60	-16.50	А	Н

Freq.	= Emission frequency in MHz
Read Level	= Uncorrected Analyzer/Receiver reading
Factor	= Antenna Factor + Cable Loss - Amplifier Gain
Level	= Read Level + Factor
Limit Line	= Limit stated in standard
Over Limit	= Level – Limit Line
Р	= Peak Reading
А	= Average Reading
Н	= Antenna Polarization: Horizontal
V	= Antenna Polarization: Vertical

Report No.: 90109205-F

7.6. TEST RESULTS

Below 1GHz

Model No.	TKS-G50-9155	Test Mode	Mode 1
Environmental Conditions	18°C, 75% RH, 1010mbar	6dB Bandwidth	120 KHz
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	Webber Chung

(The chart below shows the highest readings taken from the final data.)

	Six Highest Radiated Emission Readings							
Frequency Range Investigated				30 N	1Hz to 1000	MHz at 10	m	
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark (P/Q/A)	Pol. (H/V)	
33.3400	47.00	-9.69	37.31	40.00	-2.69	Q	V	
166.7020	48.40	-15.01	33.39	40.00	-6.61	Q	V	
171.8600	46.10	-15.19	30.91	40.00	-9.09	Q	V	
200.4870	48.70	-15.44	33.26	40.00	-6.74	Q	V	
500.1130	47.70	-5.88	41.82	47.00	-5.18	Q	V	
700.1610	41.00	-2.06	38.94	47.00	-8.06	Q	V	

REMARKS: 1. 30MHz to 1000MHz test is Applicable CISPR 22 / EN 55022 standard.

2. The other emission levels were very low against the limit.

3. P= Peak Reading; Q= Quasi-peak Reading A= Average Reading.



Model No.	TKS-G50-9155	Test Mode	Mode 1
Environmental Conditions	118% $75%$ RH 1010mbar	6dB Bandwidth	120 KHz
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	Webber Chung

(The chart below shows the highest readings taken from the final data.)

Six Highest Radiated Emission Readings							
Frequency Range Investigated			30 MHz to 1000 MHz at 10m				
					Margin (dB)	Remark (P/Q/A)	Pol. (H/V)
166.7020	50.70	-15.01	35.69	40.00	-4.31	Q	Н
433.4280	48.90	-7.19	41.71	47.00	-5.29	Q	Н
500.1130	49.20	-5.88	43.32	47.00	-3.68	Q	Н
566.8000	48.60	-4.03	44.57	47.00	-2.43	Q	Н
576.0920	44.10	-3.97	40.13	47.00	-6.87	Q	Н
700.1610	43.20	-2.06	41.14	47.00	-5.86	Q	Н

REMARKS: 1. 30MHz to 1000MHz test is Applicable CISPR 22 / EN 55022 standard.

2. The other emission levels were very low against the limit.

3. P= Peak Reading; Q= Quasi-peak Reading A= Average Reading.

Report No.: 90109205-F

Above 1GHz

Model No.	TKS-G50-9155	Test Mode	Mode 1
Environmental Conditions	118°C 75% RH 1010mbar	6dB Bandwidth	1000 KHz
Antenna Pole	Vertical	Antenna Distance	3m
Detector Function	Quasi-peak.	Tested by	Webber Chung

(The chart below shows the highest readings taken from the final data.)

Six Highest Radiated Emission Readings							
Frequency Range Investigated			1000 MHz to 10000 MHz at 3m				
Freq. (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark (P/A)	Pol. (H/V)
1353.333	36.95	-9.93	27.02	80.00	-52.98	Р	V
1593.333	38.40	-8.66	29.74	80.00	-50.26	Р	V
1793.333	36.57	-7.50	29.07	80.00	-50.93	Р	V
2026.667	37.60	-6.21	31.39	80.00	-48.61	Р	V
2273.333	37.76	-5.43	32.33	80.00	-47.67	Р	V
2653.333	35.73	-4.09	31.64	80.00	-48.36	Р	V

REMARKS: 1. The other emission levels were very low against the limit. 2. P= Peak Reading; A= Average Reading.



Model No.	TKS-G50-9155	Test Mode	Mode 1
Environmental Conditions	$118^{\circ}C^{\circ}/5\%$ RH 1010mbar	6dB Bandwidth	1000 KHz
Antenna Pole	Horizontal	Antenna Distance	3m
Detector Function	Quasi-peak.	Tested by	Webber Chung

(The chart below shows the highest readings taken from the final data.)

	Six Highest Radiated Emission Readings							
Frequency Range Investigated			1000 MHz to 10000 MHz at 3m					
Freq. (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark (P/A)	Pol. (H/V)	
1353.333	37.59	-9.93	27.66	80.00	-52.34	Р	Н	
1593.333	37.13	-8.66	28.47	80.00	-51.53	Р	Н	
1753.333	37.53	-7.73	29.80	80.00	-50.20	Р	Н	
2026.667	38.01	-6.21	31.80	80.00	-48.20	Р	Н	
2273.333	37.62	-5.43	32.19	80.00	-47.81	Р	Н	
2993.333	35.08	-2.73	32.35	80.00	-47.65	Р	Н	

REMARKS: 1. The other emission levels were very low against the limit. 2. P= Peak Reading; A= Average Reading.

Report No.: 90109205-F

PHOTOGRAPHS OF THE TEST CONFIGURATION 8 **CONDUCTED EMISSION TEST**







Report No.: 90109205-F

RADIATED EMISSION TEST



