



# **RADIO TESTREPORT**

Report No:STS1906231W03

Issued for

Telecell Mobile (H.K) Ltd.

RM 801 Metro Ctr II, 21 Lam Hing Street, Kln Bay, Hong Kong

Product Name:	Vision
Brand Name:	<b>H</b> ORIZON
Model Name:	1232
Series Model:	N/A
FCC ID:	2ADX3I232
Test Standard:	FCC Part 15.247

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# **TEST RESULT CERTIFICATION**

Applicant's Name ...... Telecell Mobile (H.K) Ltd.

Address ...... RM 801 Metro Ctr II, 21 Lam Hing Street, Kln Bay, Hong Kong

Manufacture's Name ...... Telecell Mobile (H.K) Ltd.

Address ...... RM 801 Metro Ctr II, 21 Lam Hing Street, Kln Bay, Hong Kong

**Product Description** 

Product Name .....: Vision

Brand Name....:

Model Name....: 1232

Series Model .....: N/A

Test Standards ..... FCC Part15.247

Test Procedure...... ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test....:

Date (s) of performance of tests...... 26 June 2019 ~ 16 July 2019

Date of Issue ...... 16 July 2019

Test Result .....: Pass

Testing Engineer :

(Chris Chen)

Technical Manager

Authorized Signatory:

(Sunday Hu)

(Vita Li)

1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 3688 6288 Fax:+86-755 3688 6277 Http://www.stsapp.com E-mail: sts@stsapp.com



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# **Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	16 July 2019	STS1906231W03	ALL	Initial Issue





# 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02

FCC Part 15.247,Subpart C				
Standard Section	lest Item		Remark	
15.207	Conducted Emission	PASS		
15.247 (a)(2)	6dB Bandwidth	PASS		
15.247 (b)(3)	Output Power	PASS		
15.247 (c)	Radiated Spurious Emission	PASS		
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS		
15.247 (e)	Power Spectral Density	PASS		
15.205	Restricted Band Edge Emission	PASS		
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS		
15.203	Antenna Requirement	PASS		

# NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) all tests are according to ANSI C63.10-2013.



## 1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,

Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

FCC test Firm Registration Number: 625569

A2LA Certificate No.: 4338.01;

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

y 55 76.	
Item	Uncertainty
RF output power, conducted	±0.71dB
Unwanted Emissions, conducted	±0.63dB
All emissions, radiated 30-200MHz	±3.43dB
All emissions, radiated 200MHz-1GHz	±3.57dB
All emissions, radiated>1G	±4.13dB
Conducted Emission (9KHz-150KHz)	±3.18dB
Conducted Emission (150KHz-30MHz)	±2.70dB
	Item  RF output power, conducted  Unwanted Emissions, conducted  All emissions, radiated 30-200MHz  All emissions, radiated 200MHz-1GHz  All emissions, radiated>1G  Conducted Emission (9KHz-150KHz)



# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Vision		
Trade Name	HORIZON		
Model Name	1232		
Series Model	N/A		
Model Difference	N/A		
Product Description	The EUT is a Vision Operation Frequency:  Modulation Type:  Number of Channel:  Antenna Designation:  AntennaGain (dBi):	802.11b/g/n 20: 2412~2462 MHz 802.11n(40MHz):2422~2452MHz 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11b/g/n20: 11CH 802.11n 40: 7CH Please see Note 4. Antenna number: 2 Antenna A gain : 4.2dBi Antenna B gain : 4.2dBi MIMO technology Directional gain=7.21dBi	
Channel List	Please refer to the Note 2.		
Adapter	Input: 100-240V, 50/60Hz, 0.5A Max Output: DC12V,1A		
Hardware version number	SLT768_V1.0.3		
Software versionnumber	I232S_EQ103_00B.B8E980.B8A1B01_N180928_1012_C07_V01-no rmal		
Connecting I/O Port(s)	Please refer to the User's Manual		

802.11b/g: SISO mode only: 802.11n H20 /H40: MIMO mode only

# Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



Operation Frequency of channel 802.11b/g/n(20MHz) Channel List for 802.11n(40MHz) Channel Frequency Channel Frequency 01 2412 03 2422 02 2417 04 2427 2422 05 03 2432 04 2427 06 2437 2432 2442 05 07 2437 80 2447 06 2452 07 2442 09 80 2447 09 2452 10 2457 11 2462

#### 3 Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, themiddle frequency, and the highest frequency of channel were selected to perform the test, and the selectedchannel see below:

Carrier Frequency Channel

## 2.4GHz Test Frequency:

For 802.11b/g/n (HT20)		For 802.11n (HT40)	
Channel	Freq.(MHz)	Channel	Freq.(MHz)
01	2412	03	2422
06	2437	06	2437
11	2462	09	2452

- 4 KDB 662911 D01 Multiple Transmitter Output v02r01
  - 2) Directional Gain Calculations for In-Band Measurements
  - a) Basic methodology with NANT transmit antennas, each with the same directional gain GAN T dBi, being driven by NANT transmitter outputs of equal power. Directional gain is to be computed as follows:
  - (i) If any transmit signals are correlated with each other,

Directional gain = GANT + 10 log(NANT) dBi

(ii) If all transmit signals are completely uncorrelated with each other,

Directional gain = GANT

ANT A=4.2 dBi

ANT B=4.2 dBi

GANT + 10 log(NANT) dBi

Directional gain= 4.2+10log2=7.21dBi



## 2.2 DESCRIPTION OF THE TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	SISO mode	1 Mbps
Mode 5	TX IEEE 802.11g CH1	6 Mbps
Mode 6	TX IEEE 802.11g CH6	6 Mbps
Mode 7	TX IEEE 802.11g CH11	6 Mbps
Mode 8	SISO mode	6 Mbps
Mode 9	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 10	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 11	TX IEEE 802.11n HT20 CH11	MCS 0
Mode 12	keeping MIMO TX mode	MCS 0
Mode 13	TX IEEE 802.11n HT40 CH3	MCS 0
Mode 14	TX IEEE 802.11n HT40 CH6	MCS 0
Mode 15	TX IEEE 802.11n HT40 CH9	MCS 0
Mode 16	keeping MIMO TX mode	MCS 0

#### Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V /60Hz is shown in the report

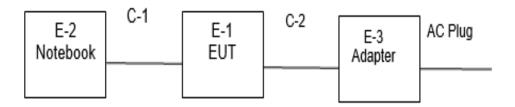
## AC Conducted Emission

Test Case	
AC Conducted	Mode 17: Keeping TV + W/I AN Link
Emission	Mode17: Keeping TX + WLAN Link

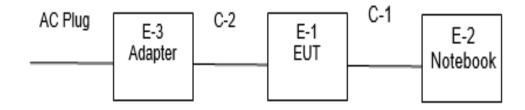


# 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

## **Radiation Test Set**



## conduction Test Set





## 2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-3	Adapter	GSP	GSCU1000S012V18Y	N/A	N/A
C-2	DC Cable	N/A	100cm	N/A	N/A

# Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-2	Notebook	HP	500-320cx	N/A	N/A
C-1	USB Cable	N/A	110cm	N/A	N/A

## Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length\_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



# 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Tadiation Tost equipm	vadiation rest equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12	
Signal Analyzer	Agilent	N9020A	MY51110105	2019.03.02	2020.03.01	
Active loop Antenna	ZHINAN	ZN30900C	16035	2018.03.11	2021.03.10	
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.1	
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18	
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10	
Pre-Amplifier(0.1M-3G Hz)	EM	EM330	060665	2018.10.13	2019.10.12	
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK201808090 1	2018.10.13	2019.10.12	
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10	
turn table	EM	SC100_1	60531	N/A	N/A	
Antenna mast	EM	SC100	N/A	N/A	N/A	
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)				

Conduction Test equipment

Conduction Test eq	агритопі		<u></u>		
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
LISN	R&S	ENV216	101242	2018.10.11	2019.10.10
LISN	EMCO	3810/2NM	23625	2018.10.11	2019.10.10
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 CE)			

## **RF Connected Test**

Kr Connected test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2018.10.13	2019.10.12
Signal Analyzer	Agilent	N9020A	MY49100060	2018.10.13	2019.10.12
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10
Test SW	FARAD	LZ-RF /LzRf-3A3			



## 3. EMC EMISSION TEST

## 3.1 CONDUCTED EMISSION MEASUREMENT

## 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 15. 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emiss	sionlimit (dBuV)
FREQUENCT (MHZ)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

## Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

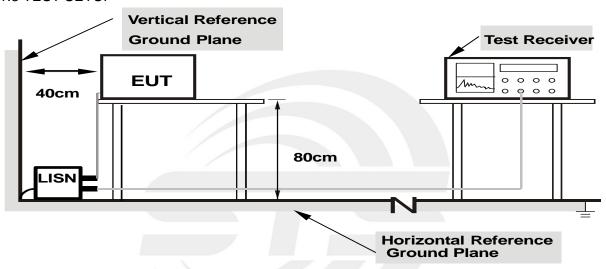
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



#### 3.1.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

## 3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

# 3.1.4EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



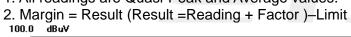
## 3.1.5 TEST RESULT

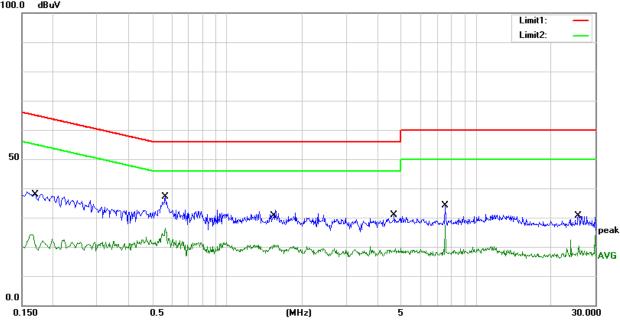
Temperature:	25.3(C)	Relative Humidity:	62%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 17		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1700	17.69	20.24	37.93	64.96	-27.03	QP
2	0.1700	4.00	20.24	24.24	54.96	-30.72	AVG
3	0.5660	16.81	20.38	37.19	56.00	-18.81	QP
4	0.5660	6.06	20.38	26.44	46.00	-19.56	AVG
5	1.5300	11.38	20.16	31.54	56.00	-24.46	QP
6	1.5300	0.57	20.16	20.73	46.00	-25.27	AVG
7	4.6940	10.86	20.03	30.89	56.00	-25.11	QP
8	4.6940	-0.38	20.03	19.65	46.00	-26.35	AVG
9	7.4980	14.21	19.89	34.10	60.00	-25.90	QP
10	7.4980	7.52	19.89	27.41	50.00	-22.59	AVG
11	25.6940	11.14	19.50	30.64	60.00	-29.36	QP
12	25.6940	4.29	19.50	23.79	50.00	-26.21	AVG

## Remark:

1. All readings are Quasi-Peak and Average values.





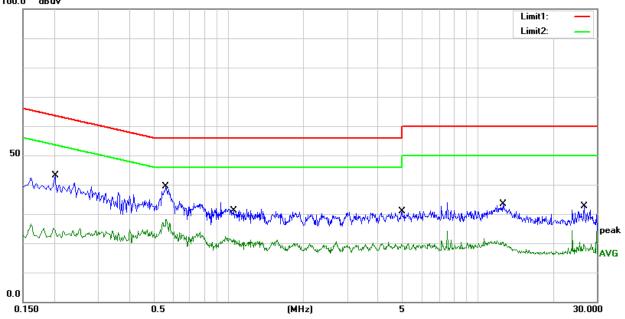
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Temperature:	25.3(C)	Relative Humidity:	62%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 17		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.2020	22.68	20.34	43.02	63.53	-20.51	QP
2	0.2020	4.80	20.34	25.14	53.53	-28.39	AVG
3	0.5620	19.01	20.38	39.39	56.00	-16.61	QP
4	0.5620	7.71	20.38	28.09	46.00	-17.91	AVG
5	1.0500	11.47	20.16	31.63	56.00	-24.37	QP
6	1.0500	1.25	20.16	21.41	46.00	-24.59	AVG
7	4.9580	10.86	20.02	30.88	56.00	-25.12	QP
8	4.9580	4.02	20.02	24.04	46.00	-21.96	AVG
9	12.6260	13.42	19.84	33.26	60.00	-26.74	QP
10	12.6260	4.57	19.84	24.41	50.00	-25.59	AVG
11	26.7460	13.08	19.53	32.61	60.00	-27.39	QP
12	26.7460	4.54	19.53	24.07	50.00	-25.93	AVG

# Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor )-Limit 100.0 dBuV





## 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

ENVITO OF TO ABILITED	EINITO OT TO ADITATED EINIGOTOTA METAGOTAEMENT (O.OGOMITE)					
Frequencies	Field Strength	Measurement Distance				
(MHz)	(micorvolts/meter)	(meters)				
0.009~0.490	2400/F(KHz)	300				
0.490~1.705	24000/F(KHz)	30				
1.705~30.0	30	30				
30~88	100	3				
88~216	150	3				
216~960	200	3				
Above 960	500	3				

# LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)		
FREQUENCT (MINZ)	PEAK	AVERAGE	
Above 1000	74	54	

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

## For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted	1 MHz /3MHz
band)	i ivinz /Sivinz

## For Band edge

Spectrum Parameter	Setting		
Detector	Peak/AV		
Start/Stop Frequency	Lower Band Edge: 2300 to 2412 MHz		
	Upper Band Edge: 2462to 2500 MHz		
RB / VB (emission in restricted band)	1 MHz /3MHz		



Receiver Parameter	Setting		
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV		
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP		
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV		
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP		
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP		

#### 3.2.2 TEST PROCEDURE

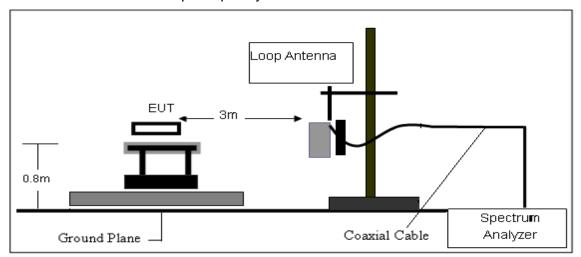
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz
- b. The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were testedand performed test to three orthogonal axis. The worst case emissions were reported

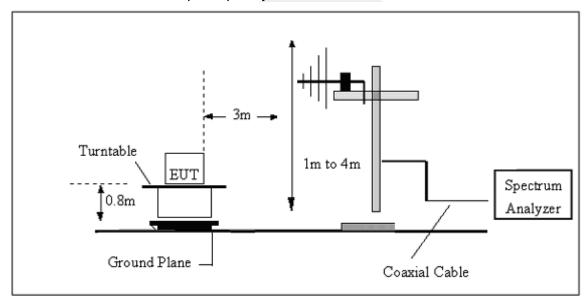


## 3.2.3 TEST SETUP

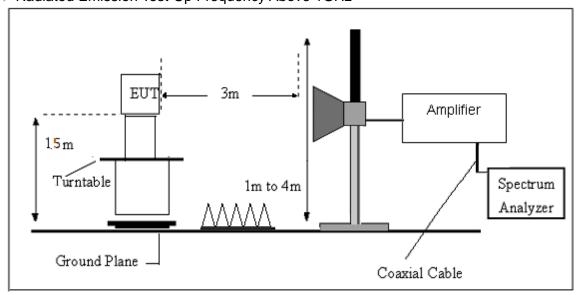
# (A) Radiated Emission Test-Up Frequency Below 30MHz



# (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



# (C) Radiated Emission Test-Up Frequency Above 1GHz





## 3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

## 3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG



## 3.2.6 TEST RESULT

## 9KHz-30MHz

Temperature:	22.7(C)	Relative Humidtity:	61%RH
Test Voltage:	AC 120V/60Hz	Polarization:	
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State	Test
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	Result
					PASS
					PASS

#### Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.