



**BUREAU  
VERITAS**


Test Report No.: FC130107N011



Test Lab  
Cert 2951.01

## TEST REPORT



Applicant	SHUOYING DIGITAL SCIENCE & TECHNOLOGY (CHINA) Co., Ltd
Address	NO.187, 5th Binhai Road, Binhai Industrial Park, Economic and Technological Development Zone, Wenzhou, Zhejiang, China

Manufacturer or Supplier	SHUOYING DIGITAL SCIENCE & TECHNOLOGY (CHINA) Co., Ltd	
Address	NO.187, 5th Binhai Road, Binhai Industrial Park, Economic and Technological Development Zone, Wenzhou, Zhejiang, China	
Product	Digital Video Camera	
Brand Name	N/A	
Model	DVH528	
Additional Model & Model Difference	N/A	
Date of tests	Jan. 08 ~ Mar. 05, 2013	

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

☒ **FCC Part 15, Subpart B, Class B**

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Tested by Endy Li Project Engineer / EMC Department	Approved by Sam Tung Manager / EMC Department
	 Date: Mar. 05, 2013

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification



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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FC130107N011	Original release	Mar. 05, 2013



## 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD			
Standard Section	Test Item	Result	Remark
<b>FCC Part 15, Subpart B, Class B</b>	Conducted Emission Test	PASS	Meets Class B Limit Minimum passing margin is -15.94 dB at 0.18122 MHz
	Radiated Emission Test (30MHz ~ 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -1.41 dB at 720.00 MHz
	Radiated Emission Test (Above 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -20.36 dB at 1895.67 MHz

### 1.1 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:

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	+/-2.94 dB
Radiated emissions	30MHz ~ 1000MHz	+/-3.40 dB
Radiated Emission Test	1GHz ~ 18GHz	+ /-2.20 dB



## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Digital Video Camera
<b>MODEL NO.</b>	DVH528
<b>POWER SUPPLY</b>	DC 5V by USB host device input AC 120V/60Hz
<b>DATA CABLE SUPPLIED</b>	N/A
<b>THE HIGHEST OPERATING FREQUENCY</b>	300MHz

#### NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was showed in test report.
3. The EUT is Digital Video Camera, The USB cable which the EUT used to connect the computer was shielded and with a core, like below.





## 2.2 DESCRIPTION OF TEST MODES

The EUT was tested under the following modes and the final worst mode were marked in boldface and recorded in this report.

### ◆ FOR Conducted Emission Test:

Data Transmitting
-------------------

### ◆ FOR Radiated Emission Test:

Data Transmitting
-------------------

## 2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an dependent 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Notebook PC	DELL	5P2PM2X	12400120329	N/A
2	Notebook PC	DELL	E6420	9H12FS1	N/A
3	Printer	HP	Laserjet1300	CNSJF75989	N/A
4	Printer	Lenovo	LJ2200L	LP02857415 48001408	N/A
5	Mouse	DELL	MOC5UO	H0K00K92	N/A
6	USB Cable	N/A	N/A	N/A	N/A

NO.	CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 0.8m, DC Line: Unshielded, Undetachable 1.8m.
2	AC Line: Unshielded, Detachable 1.0m, DC Line: Unshielded, Undetachable 1.8m.
3	AC Line: Unshielded, Detachable 1.5m, USB Line: Unshielded, Detachable 1.5m.
4	AC Line: Unshielded, Detachable 1.5m, USB Line: Unshielded, Detachable 1.5m.
5	USB Line: Unshielded, Detachable 1.8m
6	USB line: Shielded, detachable, 0.3m, with a core



### 3 EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	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

- NOTES:** (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.

##### 3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU 26	100005	May 15,12	May 14,13
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	May 15,12	May 14,13
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	May 15,12	May 14,13
Impedance Stabilization Network	TESEQ	ISN T800	27957	Oct. 10,12	Oct. 09,13
Test software	ADT	ADT_Conc _V7.3.7	N/A	N/A	N/A

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA  
2. The test was performed in Shielded Room 553.



### **3.1.3 TEST PROCEDURE**

The basic test procedure was in accordance with ANSI C63.4:2009 (section 7).

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

**NOTE:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

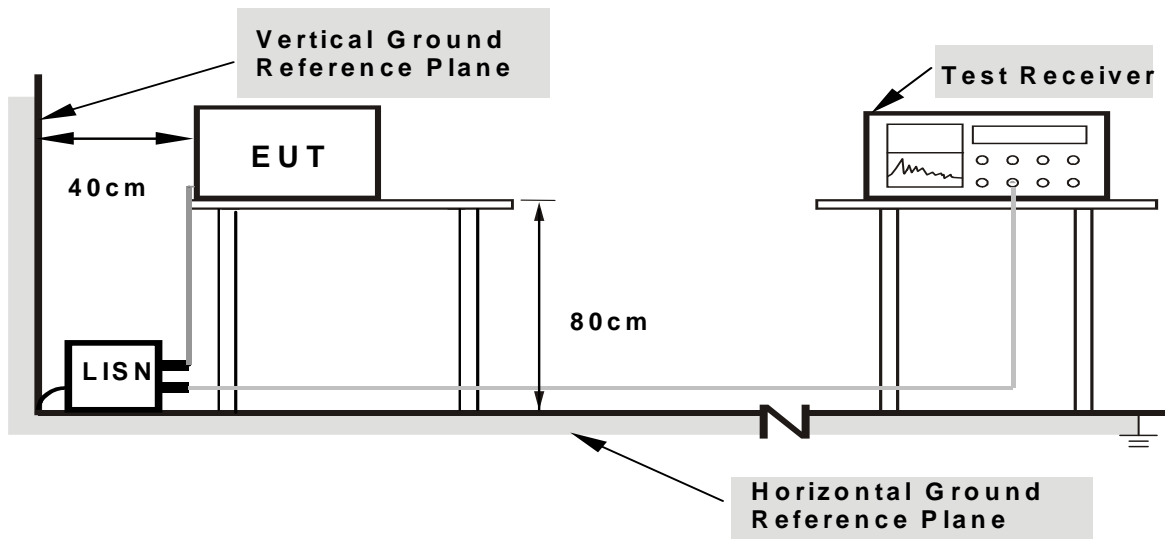
### **3.1.4 DEVIATION FROM TEST STANDARD**

No deviation





### 3.1.5 TEST SETUP



- Note:** 1.Support units were connected to second LISN.  
2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.

### 3.1.6 EUT OPERATING CONDITIONS

- Turned on the power of all equipment. connect to notebook PC then running data transmitting software.
- EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

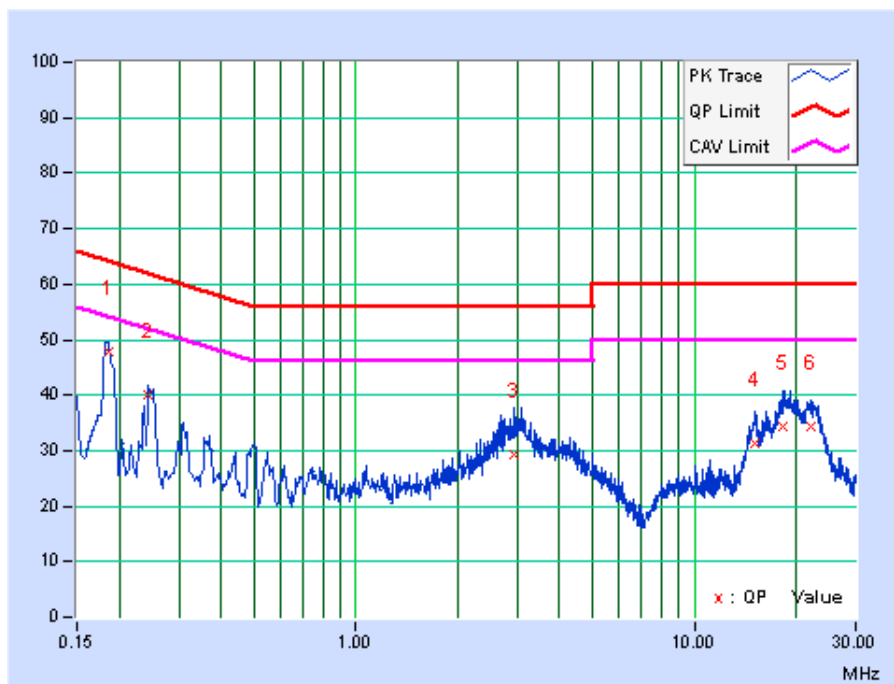


## 3.1.7 TEST RESULTS

TEST MODE	See item 2.2	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V from PC input AC 120V/60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	18deg. C, 46% RH	TESTED BY	BIN

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18508	10.52	37.20	22.79	47.72	33.31	64.25	54.25	-16.53	-20.94
2	0.24407	10.43	29.79	15.84	40.22	26.27	61.96	51.96	-21.73	-25.68
3	2.94956	9.96	19.44	14.31	29.40	24.27	56.00	46.00	-26.60	-21.73
4	15.09011	10.04	21.25	14.05	31.29	24.09	60.00	50.00	-28.71	-25.91
5	18.2533	10.20	24.13	16.48	34.33	26.68	60.00	50.00	-25.67	-23.32
6	22.16721	10.39	23.79	16.26	34.18	26.65	60.00	50.00	-25.82	-23.35

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

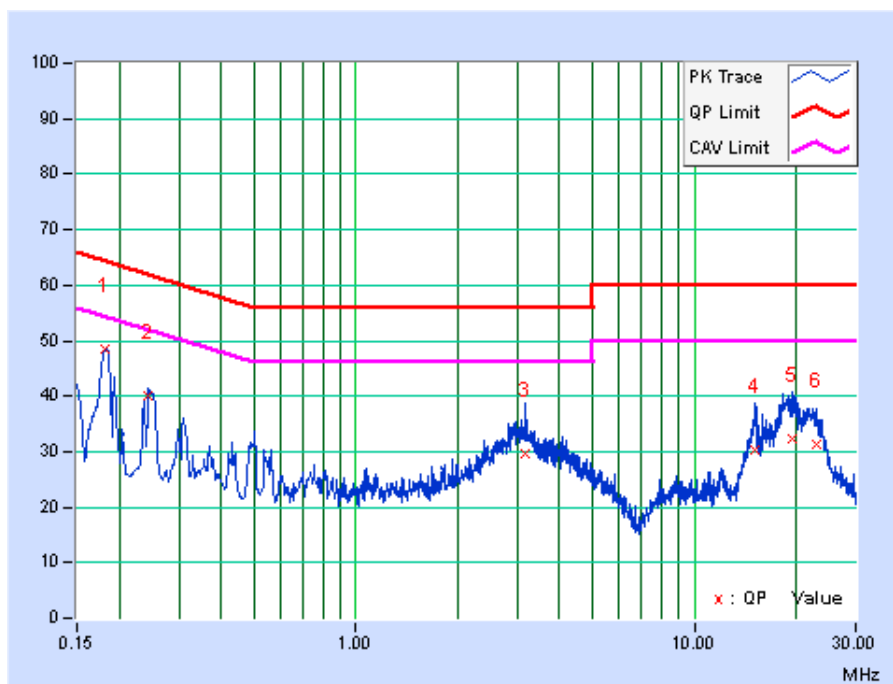




TEST MODE	See item 2.2	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V from PC input AC 120V/60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	18deg. C, 46% RH	TESTED BY	Bin

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18122	10.51	37.98	22.45	48.49	32.96	64.43	54.43	-15.94	-21.47
2	0.24407	10.38	29.81	15.91	40.19	26.29	61.96	51.96	-21.77	-25.67
3	3.17634	9.63	20.08	13.47	29.71	23.10	56.00	46.00	-26.29	-22.90
4	15.19177	10.05	20.24	11.25	30.29	21.30	60.00	50.00	-29.71	-28.70
5	19.49277	10.17	22.32	15.12	32.49	25.29	60.00	50.00	-27.51	-24.71
6	22.93357	10.39	20.88	13.61	31.27	24.00	60.00	50.00	-28.73	-26.00

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.





## 3.2 RADIATED EMISSION MEASUREMENT

### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

FREQUENCY (MHz)	Class A (at 10m)		Class B (at 3m)	
	uV/m	dBuV/m	uV/m	dBuV/m
30 – 88	90	39.1	100	40.0
88 – 216	150	43.5	150	43.5
216 – 960	210	46.4	200	46.0
960 – 1000	300	49.5	500	54.0

### FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

### LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80.0	60.0	74.0	54.0

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

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

(3) All emanation 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.



### 3.2.2 TEST INSTRUMENTS

#### FOR FREQUENCY BELOW 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESVD	847398/003	May 23,12	May 22,13
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 14,12	Jul. 13,13
Spectrum Analyzer	HP	8593E	3448U00806	May 23,12	May 22,13
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Mar 24,12	Mar 23,13
Signal Amplifier	Agilent	8447D	2944A10488	May 2,12	May 2,13
RF Cable	IMRO	IMRO-400	966 Cable 1#	May 23,12	May 22,13
Test software	ADT	ADT_Radiate d_V7.5.4	N/A	N/A	N/A

**NOTE:** 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA and NIM/CHINA.  
2. The test was performed in Chamber 966.

#### FOR FREQUENCY ABOVE 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	EMCO	3117	00062558	Oct.18,12	Oct.17,13
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 04,11	Jan. 03,14
Spectrum Analyzer	Agilent	E4446A	MY46180622	May 02,12	May 01,13
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B	3008A00409	May 31,12	May 30,13
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 04,12	Nov. 03,13
Test Software	ADT	ADT_Radiated_V 7.6.15	N/A	N/A	N/A

**NOTE:** 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA and NIM/CHINA.  
2. The test was performed in 10m Chamber.



### 3.2.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2009 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters (below 1GHz) and 3 meters (above 1GHz) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

**NOTE:**

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
4.  $\text{Emission level(dBuV/m)} = \text{Raw Value(dBuV)} + \text{Correction Factor(dB/m)}$
5.  $\text{Correction Factor(dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Factor (dB)}$
6.  $\text{Margin value} = \text{Emission level} - \text{Limit value}.$

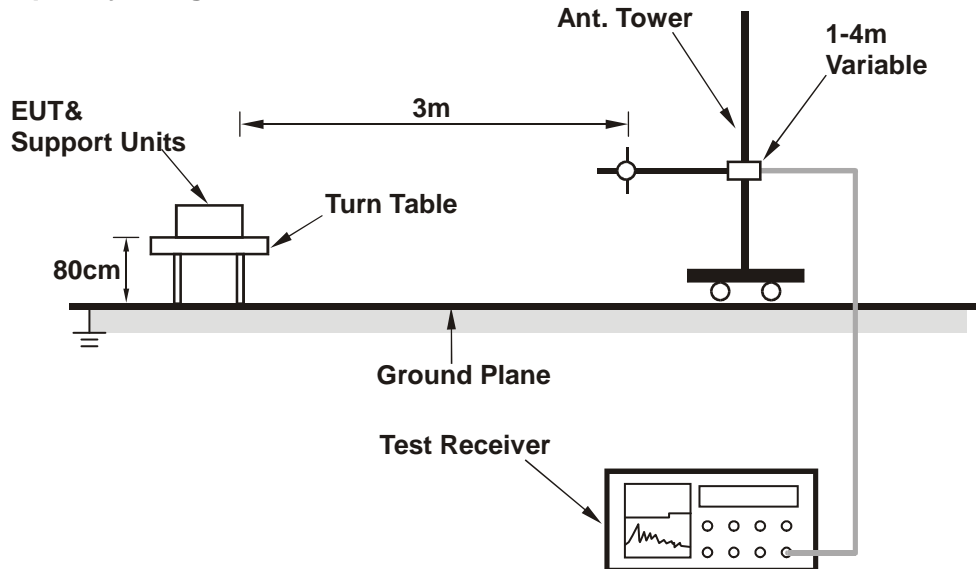
### 3.2.4 DEVIATION FROM TEST STANDARD

No deviation

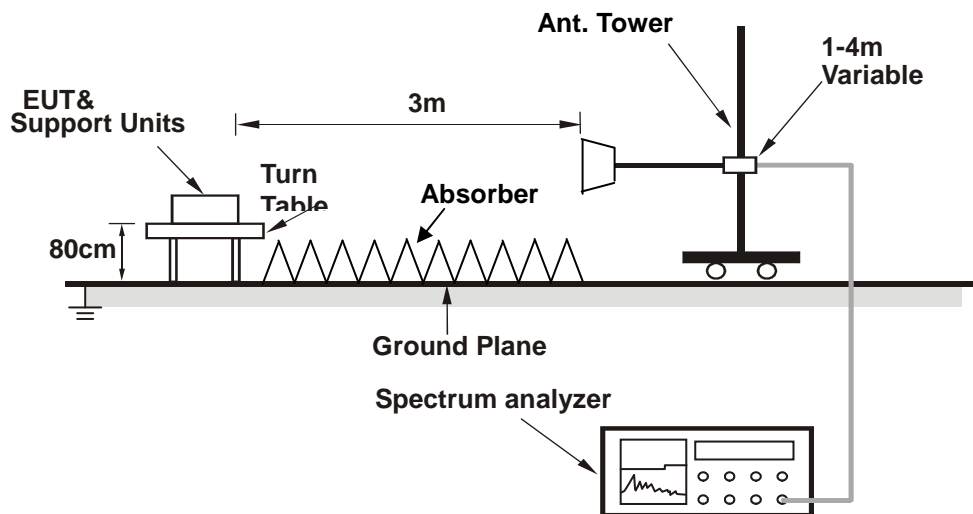


### 3.2.5 TEST SETUP

#### <Frequency Range below 1GHz>



#### <Frequency Range above 1GHz>



\* : depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

### 3.2.6 EUT OPERATING CONDITIONS

Same as item 3.1.6.



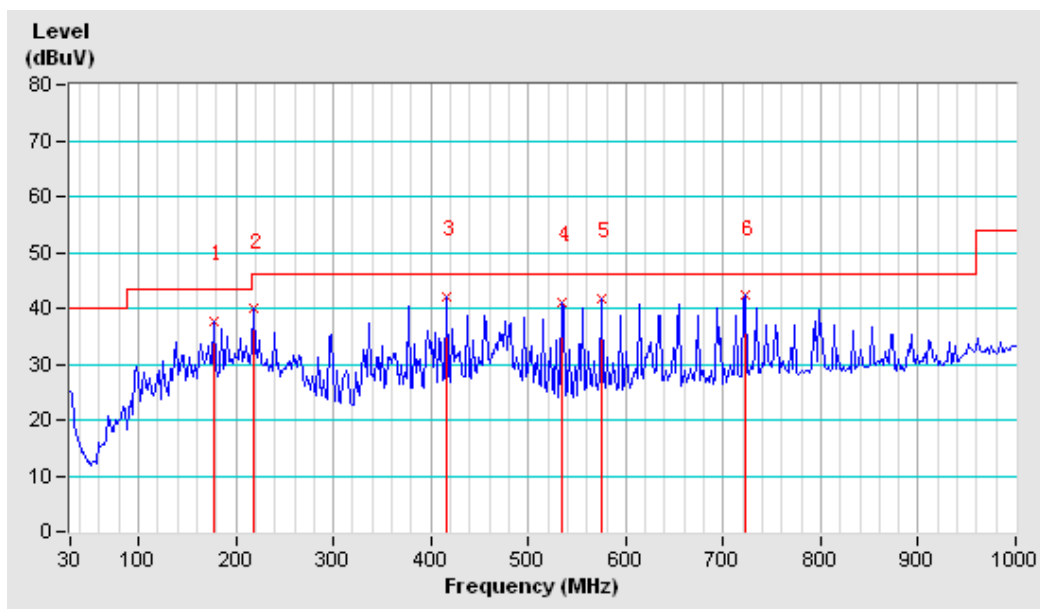
### 3.2.7 TEST RESULTS

For below 1GHz:

<b>TEST MODE</b>	See item 2.2	<b>FREQUENCY RANGE</b>	30-1000MHz
<b>TEST VOLTAGE</b>	DC 5V from PC input AC 120V/60Hz	<b>DETECTOR FUNCTION &amp; RESOLUTION BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	21deg. C, 52% RH	<b>TESTED BY:</b> Robert	

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	177.44	11.09	26.63	37.71	43.50	-5.79	173	43
2	218.18	11.53	28.35	39.88	46.00	-6.12	150	78
3	416.06	19.54	22.56	42.09	46.00	-3.91	125	115
4	534.40	22.06	18.99	41.05	46.00	-4.95	240	0
5	575.14	24.00	17.73	41.72	46.00	-4.28	219	0
6	722.58	26.23	15.99	42.22	46.00	-3.78	200	3

**REMARKS:** The emission levels of other frequencies were very low against the limit.





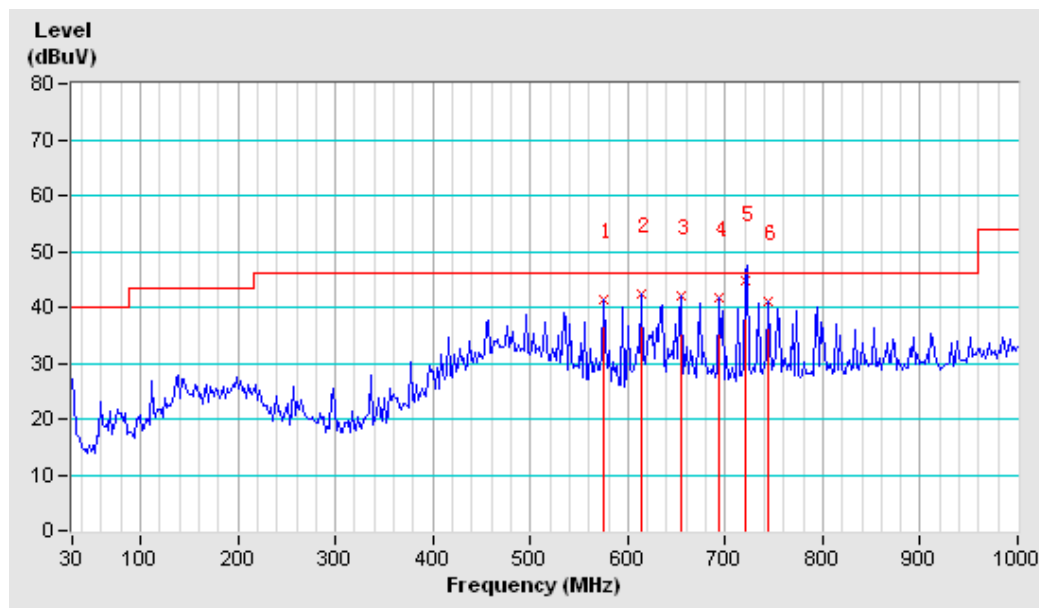
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TEST MODE	See item 2.2	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	DC 5V from PC input AC 120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	21deg. C, 52% RH	TESTED BY: Robert	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	575.14	24.00	17.31	41.31	46.00	-4.69	162	147
2	613.94	24.02	18.33	42.35	46.00	-3.65	208	78
3	654.68	24.74	17.22	41.96	46.00	-4.04	186	112
4	693.48	25.14	16.65	41.79	46.00	-4.21	109	226
5	720.00	26.09	18.50	44.59	46.00	-1.41	100	360
6	743.92	27.12	13.90	41.03	46.00	-4.97	137	184

**REMARKS:** The emission levels of other frequencies were very low against the limit.



Bureau Veritas Shenzhen Co., Ltd.  
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For Above 1GHz:

TEST MODE	See item 2.2	FREQUENCY RANGE	Above 1000MHz
TEST VOLTAGE	DC 5V From PC Input AC 120V/60 Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak,Average,1MHz
ENVIRONMENTAL CONDITIONS	24deg. C, 57% RH	TESTED BY: Yuqiang	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	1810.00	30.35	9.91 PK	40.26 PK	74.00 PK	-33.74 PK	100	125
2	1810.00	30.35	3.21 AV	33.56 AV	54.00 AV	-20.44 AV	100	125
3	1871.00	31.03	10.49 PK	41.52 PK	74.00 PK	-32.48 PK	100	324
4	1871.00	31.03	1.82 AV	32.85 AV	54.00 AV	-21.15 AV	100	324
5	1978.33	32.23	10.46 PK	42.69 PK	74.00 PK	-31.31 PK	100	238
6	1978.33	32.23	0.56 AV	32.79 AV	54.00 AV	-21.21 AV	100	238
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	1820.00	30.46	10.30 PK	40.76 PK	74 PK	-33.24 PK	100	186
2	1820.00	30.46	2.38 AV	32.84 AV	54 AV	-21.16 AV	100	186
3	1895.67	31.31	10.04 PK	41.35 PK	74 PK	-32.65 PK	124	315
4	1895.67	31.31	2.33 AV	33.64 AV	54 AV	-20.36 AV	124	315
5	1966.67	32.10	10.47 PK	42.57 PK	74 PK	-31.43 PK	105	245
6	1966.67	32.10	1.54 AV	33.64 AV	54 AV	-20.36 AV	105	245

REMARKS: The emission levels of other frequencies were very low against the limit.



Test Report No.: FC130107N011

## 4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to attached file (Test Setup Photo)

## 5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

---END---