



**CENTRE OF TESTING SERVICE  
INTERNATIONAL**

**OPERATE ACCORDING TO ISO/IEC 17025**

# **FCC ID TEST REPORT**

**TEST REPORT NUMBER : CGZ3110323-00156-O**



**CENTRE OF TESTING SERVICE CO., LTD.**

Building F, Dachuang industrial park, No.379, Zhongshan Dadao,  
Guangzhou, China.



TEST REPORT FOR FCC ID 47 CFR PART 15 OCT, 2009	
<b>Report Reference No.</b> .....	CGZ3110323-00156-O
Date of issue .....	07 April 2011
<b>Testing Laboratory Name</b> .....	<b>CENTRE OF TESTING SERVICE CO., LTD.</b>
Address .....	Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.
Testing location/ procedure .....	Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
<b>Applicant's name</b> .....	INSIGHT INTERNATIONAL ENTERPRISE LIMITED
Address .....	RM425,4/F,HOUSE OF CORONA,50 HUNG TO ROAD,KWUNTONG,KOWLOON,HONGKONG
<b>Test specification:</b>	
Standard .....	<b>47 CFR PART 15 OCT, 2009</b>
<b>Test Report Form No.</b> .....	CTSEMC-1.0
TRF Originator .....	CENTRE OF TESTING SERVICE CO., LTD
Master TRF .....	Dated 2009-01
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<b>Test item description</b> .....	RELIGIOUS CONTENT PLAYER
Trade Mark .....	/
Manufacturer .....	INSIGHT INTERNATIONAL ENTERPRISE LIMITED
Model/Type reference .....	TB108
Ratings .....	5V From PC Via USB
Result .....	<b>Positive</b>

**Compiled by:**

Violet Lee / File administrators

**Supervised by:**

Tom Xiao / Technique principal

**Approved by:**

Mike He / Manager

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## FCC -- T E S T R E P O R T

Test Report No. : CGZ3110323-00156-O

07 April 2011  
Date of issue

Type / Model.....	TB108		
EUT.....	Religious Content Player		
<b>Applicant</b> .....	INSIGHT INTERNATIONAL ENTERPRISE LIMITED		
Address.....	RM425,4/F,HOUSE OF CORONA,50	HUNG	TO
Telephone.....	ROAD,KWUNTONG,KOWLOON,HONGKONG		
Fax.....	+852-34813384		
Contact.....	Martin Wong		
<b>Manufacturer</b> .....	INSIGHT INTERNATIONAL ENTERPRISE LIMITED		
Address.....	RM425,4/F,HOUSE OF CORONA,50	HUNG	TO
Telephone.....	ROAD,KWUNTONG,KOWLOON,HONGKONG		
Fax.....	+852-34813384		
Contact.....	Martin Wong		
<b>Test report holder</b> .....	INSIGHT INTERNATIONAL ENTERPRISE LIMITED		
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Telephone.....	ROAD,KWUNTONG,KOWLOON,HONGKONG		
Fax.....	+852-34813384		
Contact.....	Martin Wong		

Test Result according to the standards on page 3: **Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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## 1 TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2009
- ANSI C63.4-2009

## 2 SUMMARY

### 2.1 GENERAL REMARKS

Date of receipt of test sample	31 March 2011
Testing commenced on	03 April 2011
Testing concluded on	07 April 2011

### 2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

- - fulfilled.
- **not** fulfilled.

The equipment under test

- - fulfils the FCC requirements cited on page 3.
- **does not** fulfil the FCC requirements cited on page 3.



### 3 EQUIPMENT UNDER TEST

#### 3.1 Power supply system utilised

Power supply voltage :  AC 120V/60 Hz  AC 115V/60Hz  
 5V From PC Via USB

#### 3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1  
 Serial number: Prototype

#### 3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

- Standby
- Test programme (H - Pattern)
- Test programme (colour bar)
- Operating mode 2500 U/min. (1 cylinder)
- Operating mode 1500 U/min. (> 1 cylinder)
- Ignition on , Motor off
- Speed 50 km/h
- Test program (customer specific)

Operation mode 1: **On**

Emissions tests.....: According to **47 CFR PART 15 OCT, 2009**, searching for the highest disturbance.

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### 3.4 EUT configuration

#### 3.4.1. Monitor

M/N	:	E7722-f
S/N	:	CN-02W486-64180-3B7-01MP
Manufacturer	:	DELL
Power Cord	:	Unshielded, Detachable, 1.8m , 3Pin
Certificate	:	By DoC

#### 3.4.2. Keyboard

M/N	:	SK-8110
S/N	:	CN-07N244-71616-37T-B293
Manufacturer	:	DELL
Power Cord	:	Shielded, Detachable
Certificate	:	By DoC

#### 3.4.4. Printer

M/N	:	LaserJet 2200d
S/N	:	SGKGB50919
Manufacturer	:	HP
Power Cord	:	Shielded, Detachable, 1.8m. 3Pin
Certificate	:	By DoC

#### 3.4.5. Modem

M/N	:	MT800
S/N	:	421033
Manufacturer	:	HUAWEI
Power Cord	:	Shielded, Detachable, 1.8m , 2Pin
Certificate	:	By DoC

#### 3.4.8. Personal Computer

M/N	:	DIMENSION 4600
S/N	:	CN-OTO486-42940-37M-00XB
Manufacturer	:	DELL
Power Cord	:	Unshielded, Detachable, 1.8m , 3Pin
FCC ID	:	By DoC

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## 4 TEST ENVIRONMENT

### 4.1 Address of the test laboratory

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406

### 4.2 Test facility

The test facility is recognized, certified, or accredited by the following organizations:

#### CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### IC-Registration No.: 8374

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374 on June 24, 2009.

#### FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No.971995, July 21,2009.

### 4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	25-75 %
Atmospheric pressure:	86-106 kPa

### 4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- - The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

### 4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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## 4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Radiation emission (3m)	30MHz~300MHz	±3.14dB	(1)
	300MHz~1000MHz	±3.18dB	(1)

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

## 4.7 Test Description

### 4.7.1 Description of Standards and Results

EMISSION		
Description of Test Item	Standard	Results
Conducted Emission Test	FCC Part 15 B: 15.107 ANSI C63.4-2009	PASS Class B
Radiated Emission Test	FCC Part 15 B: 15.109 ANSI C63.4-2009	PASS Class B

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## 5 TEST CONDITIONS AND RESULTS

### 5.1 Power Line Conducted Emission Test

For test instruments and accessories used see section 6 part 6.2.

#### 5.1.1 Description of the test location

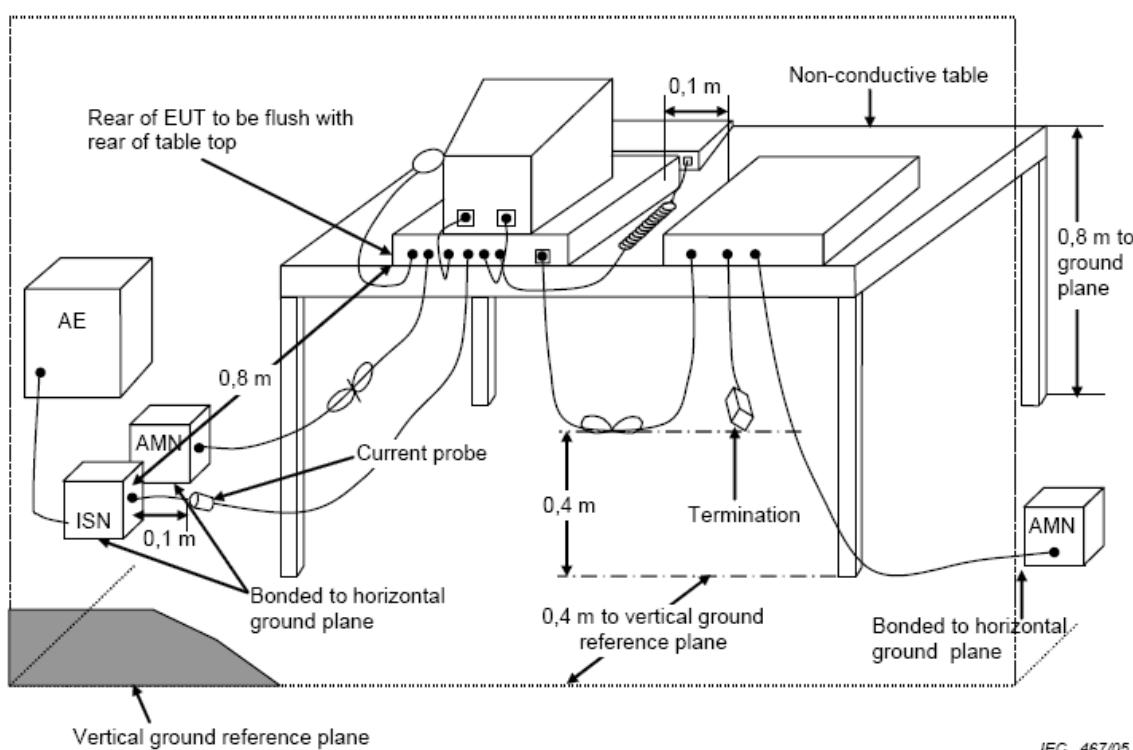
Test location : Shielding Room

#### 5.1.2 Description of the test set-up

##### 5.1.2.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

##### 5.1.2.2 Block Diagram of Test Setup



IEC 467/05

#### 5.1.3 Limits of disturbance (Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

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#### 5.1.4 Test result

The requirements are	<b>Fulfilled</b>
Band width	9kHz
Frequency range	0.15kHz - 30 MHz
Min. limit margin	>6.0dB at 0.15MHz - 30 MHz

**Remarks:** The limits are kept. For detailed results, please see the following page(s).

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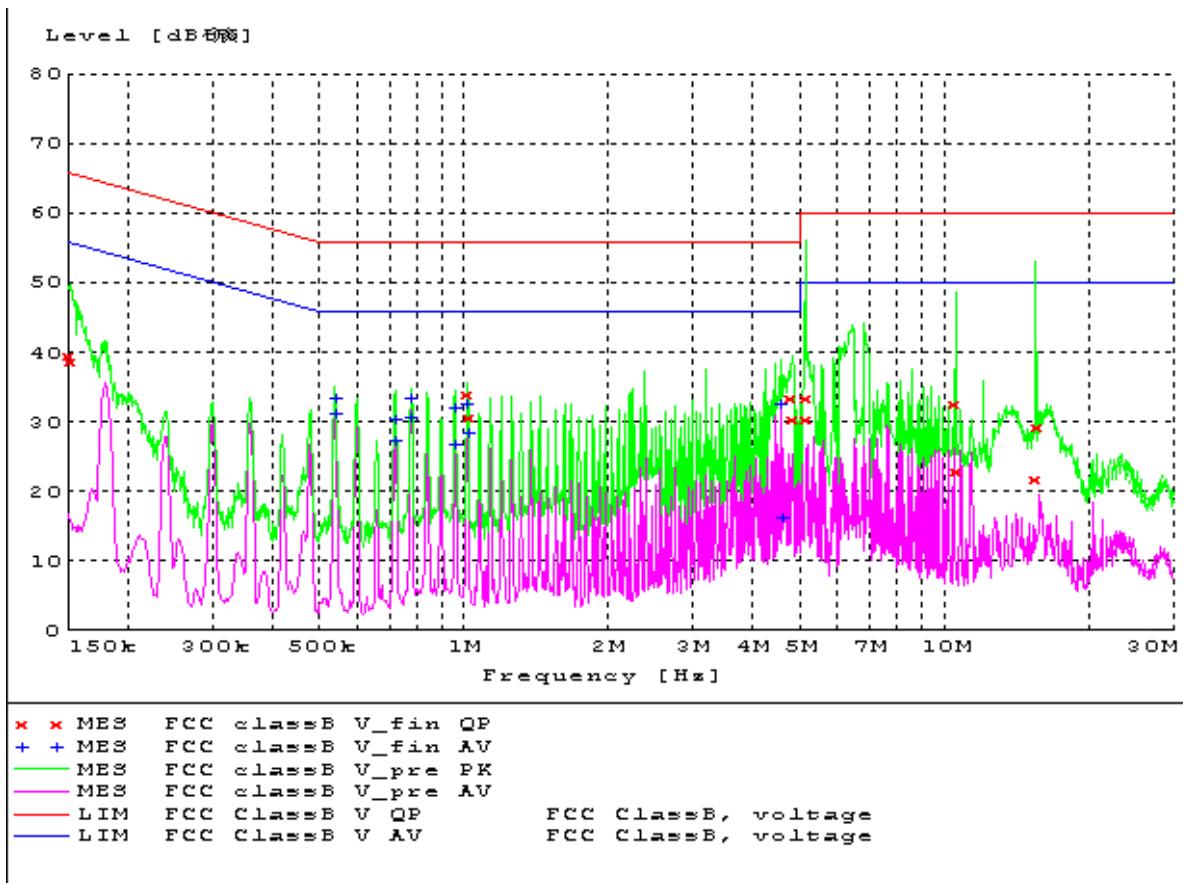
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## 5.2.5 Test protocol

Channel:	TX Mode	Result:	■ - passed
Test point:	Va		□ - not passed

EUT	RELIGIOUS CONTENT PLAYER
Power Supply	5V From PC Via USB
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	Peter
Test Specification	MODE NO: TB108



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**MEASUREMENT RESULT: "FCC classB V\_fin QP"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Line	PE
0.150000	39.40	10.2	66	26.6	L1	GND
0.151807	38.70	10.2	66	27.2	L1	GND
1.019225	34.10	10.1	56	21.9	L1	GND
1.023302	30.60	10.1	56	25.4	L1	GND
4.796820	33.40	10.1	56	22.6	L1	GND
4.835271	30.50	10.1	56	25.5	L1	GND
5.154187	30.30	10.1	60	29.7	L1	GND
5.174804	33.50	10.1	60	26.5	L1	GND
10.489660	32.50	9.9	60	27.5	L1	GND
10.616040	22.80	9.9	60	37.2	L1	GND
15.450114	21.90	9.9	60	38.1	L1	GND
15.573962	29.30	9.9	60	30.7	L1	GND

**MEASUREMENT RESULT: "FCC classB V\_fin AV"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Line	PE
0.540266	33.40	10.1	46	12.6	L1	GND
0.542427	31.10	10.1	46	14.9	L1	GND
0.720177	30.30	10.1	46	15.8	L1	GND
0.723058	27.30	10.1	46	18.7	L1	GND
0.776925	30.80	10.1	46	15.2	L1	GND
0.780033	33.40	10.1	46	12.6	L1	GND
0.959984	32.10	10.1	46	13.9	L1	GND
0.963824	26.70	10.1	46	19.3	L1	GND
1.019225	32.70	10.1	46	13.3	L1	GND
1.023302	28.50	10.1	46	17.5	L1	GND
4.590737	32.50	10.1	46	13.5	L1	GND
4.627540	16.30	10.1	46	29.7	L1	GND

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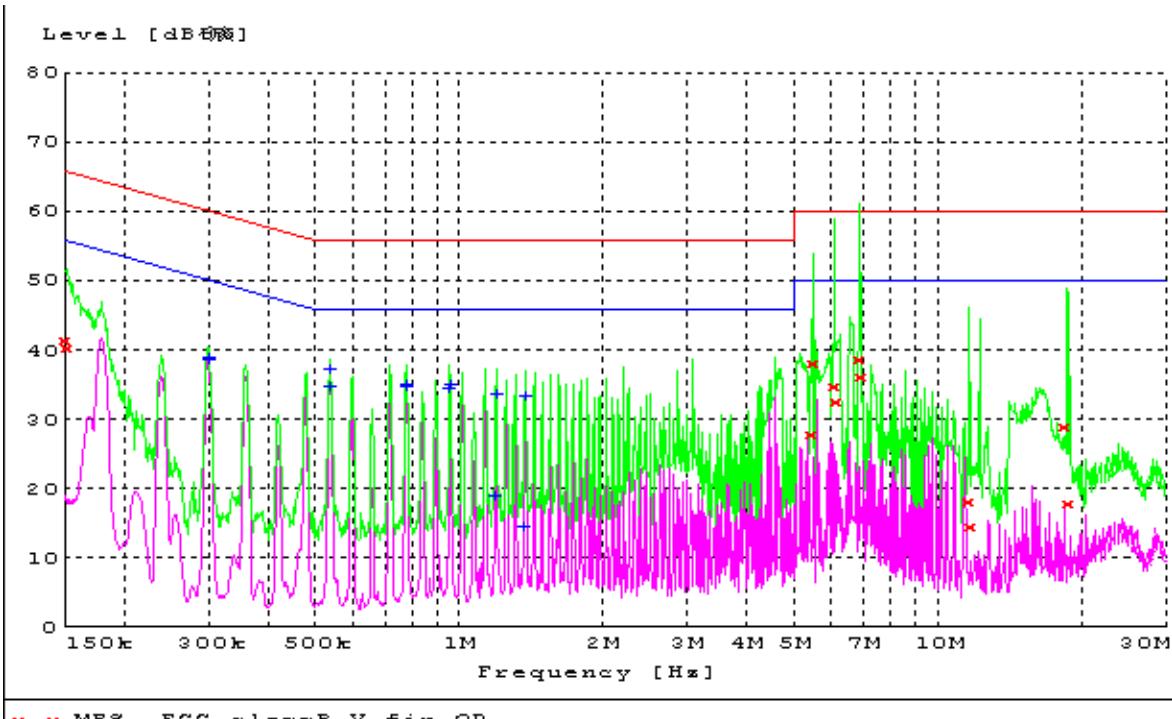
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Channel:	TX Mode	Result:	■ - passed
Test point:	Vb		□ - not passed
Frequency range:	0.15~30MHz		



**MEASUREMENT RESULT: "FCC classB V\_fin QP"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Line	PE
0.150600	41.40	10.2	66	24.6	N	GND
0.151807	40.40	10.2	66	25.5	N	GND
5.472252	27.90	10.1	60	32.1	N	GND
5.516117	38.30	10.1	60	21.7	N	GND
6.095039	34.90	10.1	60	25.1	N	GND
6.143900	32.70	10.1	60	27.3	N	GND
6.843120	38.80	10.0	60	21.2	N	GND
6.925566	36.20	10.0	60	23.8	N	GND
11.590560	18.30	9.9	60	41.7	N	GND
11.777120	14.70	9.9	60	45.3	N	GND
18.564470	28.90	9.9	60	31.1	N	GND
18.863290	17.90	9.9	60	42.1	N	GND

**MEASUREMENT RESULT: "FCC classB V\_fin AV"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Line	PE
0.299240	39.10	10.2	50	11.2	N	GND
0.300437	38.80	10.2	50	11.4	N	GND
0.535975	34.90	10.1	46	11.1	N	GND
0.538119	37.20	10.1	46	8.8	N	GND
0.776918	34.80	10.1	46	11.2	N	GND
0.780026	35.10	10.1	46	10.9	N	GND
0.956164	34.50	10.1	46	11.5	N	GND
0.959988	35.00	10.1	46	11.0	N	GND
1.190935	18.90	10.1	46	27.1	N	GND
1.195698	33.80	10.1	46	12.2	N	GND
1.369516	14.50	10.1	46	31.5	N	GND
1.374994	33.30	10.1	46	12.7	N	GND

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## 5.2 Radiated disturbance (electric field)

For test instruments and accessories used see section 6 part 6.1.

### 5.2.1 Description of the test location

Test location : Semi-Anechoic chamber

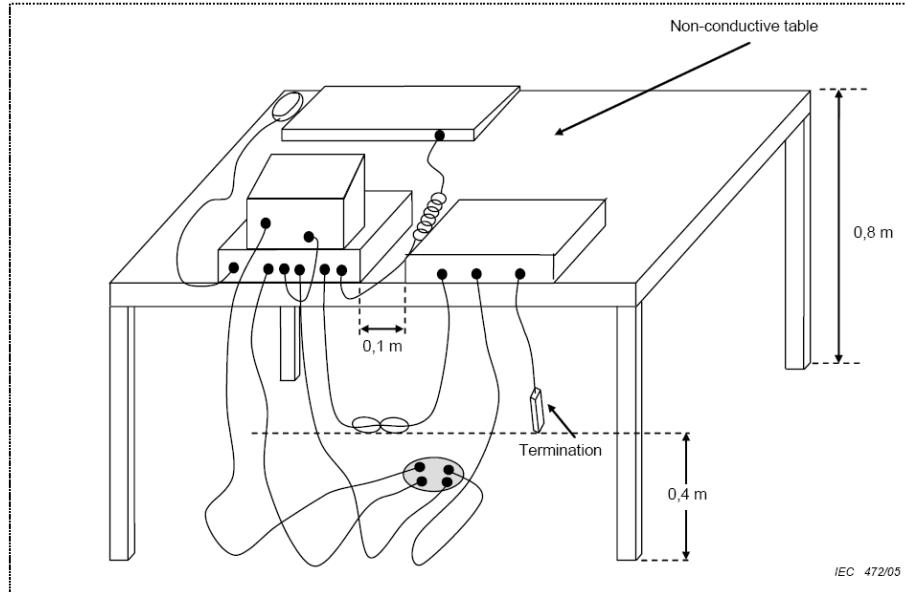
Test disturbance: 3 Meter

### 5.2.2 Description of the test set-up

#### 5.2.2.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

#### 5.2.2.2 Block Diagram of Test Setup



### 5.2.3 Limits of disturbance (Class B)

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dB $\mu$ V/m)
30 ~ 88	3	40
88 ~ 216	3	43.5
216 ~ 960	3	46
Abvoe 960	3	54

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### 5.2.4 Test result

#### Below 1GHz

The requirements are	<b>Fulfilled</b>
Band width	120kHz
Frequency range	30 MHz - 1000 MHz
Min. limit margin	>6.0 dB at 30MHz - 1000 MHz

#### Above 1GHz

The requirements are	<b>Fulfilled</b>
Band width	1MHz
Frequency range	1GHz – 6GHz
Min. limit margin	>6.0 dB at 1GHz – 6GHz

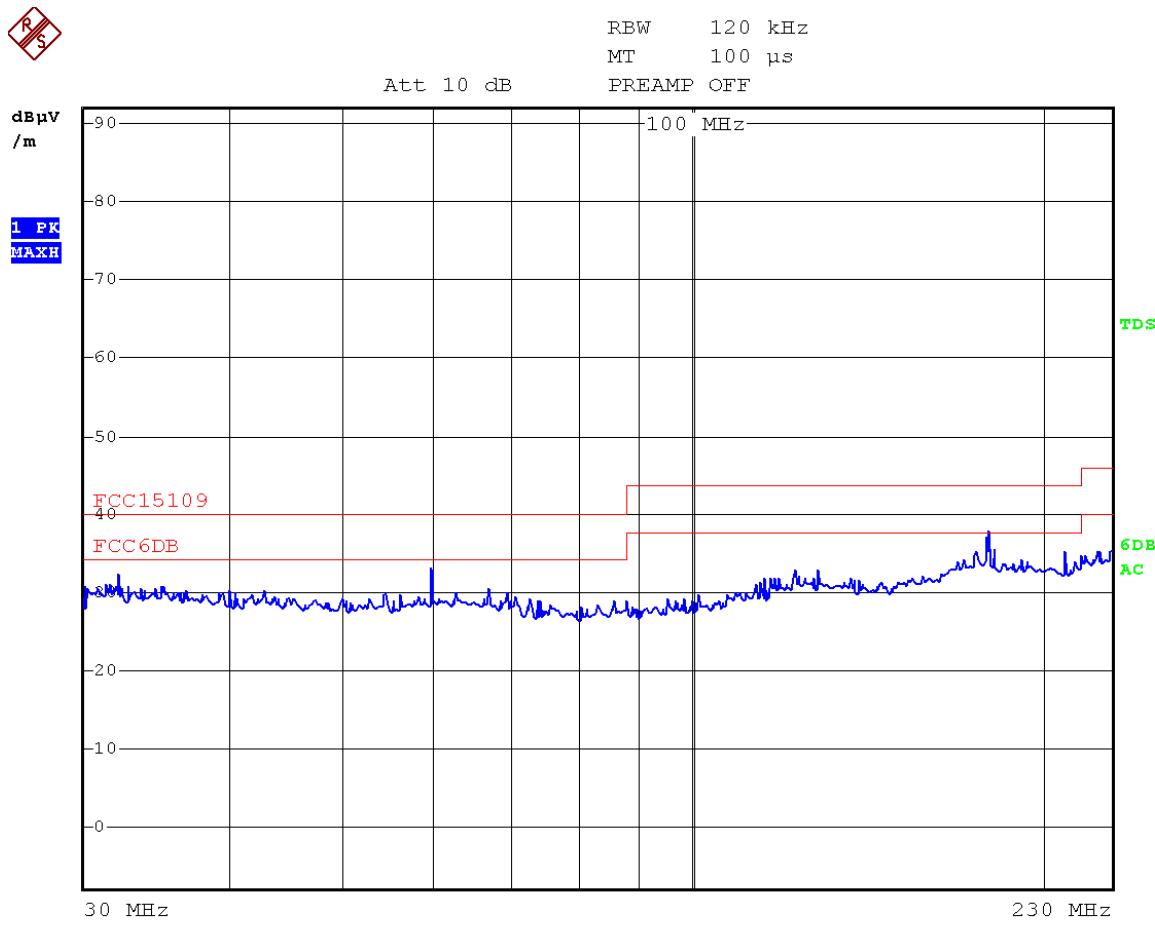
**Remarks:** The limits are kept. For detailed results, please see the following page(s).



## 5.2.5 Test protocol

Test point:	Horizontal	Result:	<input checked="" type="checkbox"/> - passed
<b>Operation mode 1</b>			<input type="checkbox"/> - not passed
Remarks:			

EUT	RELIGIOUS CONTENT PLAYER
Power Supply	5V From PC Via USB
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	Peter
	MODE NO: TB108



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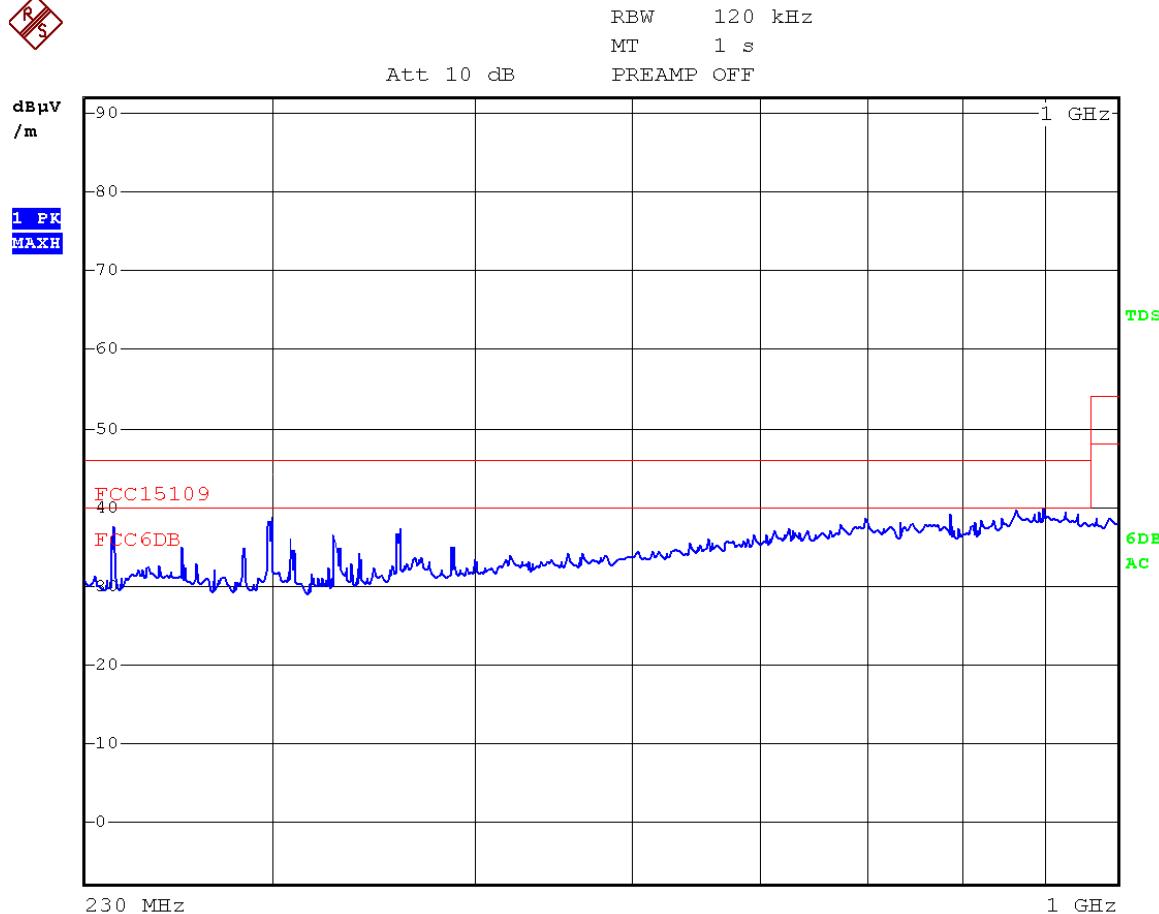
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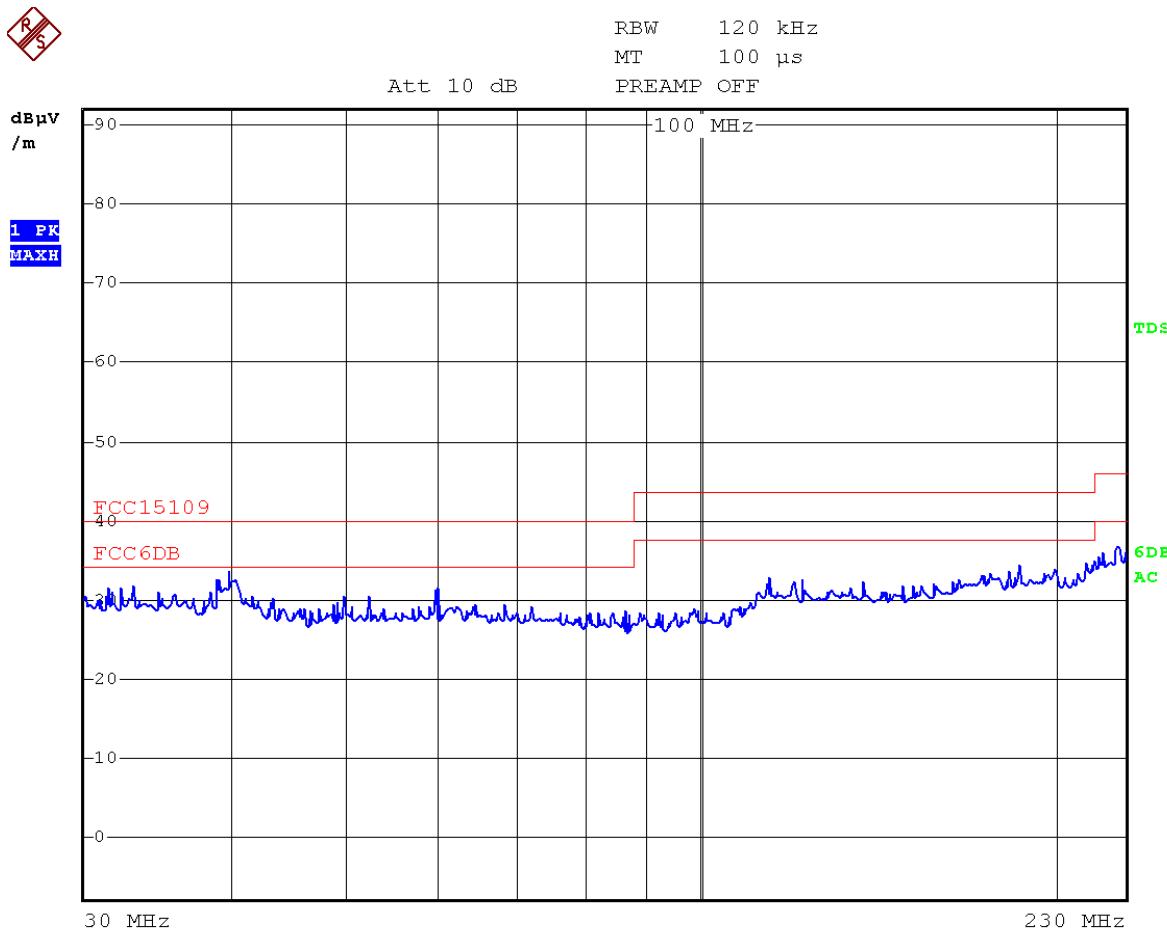
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Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406  
Complaint line: +86-20-85533471 E-mail: [cts@cts-lab.com.cn](mailto:cts@cts-lab.com.cn)

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Test point:	Vertical	Result:	<input checked="" type="checkbox"/> - passed
<b>Operation mode 1</b>			<input type="checkbox"/> - not passed
Remarks:			

EUT	RELIGIOUS CONTENT PLAYER
Power Supply	5V From PC Via USB
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	<b>Peter</b>
Test Specification	MODE NO: TB108



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## CENTRE OF TESTING SERVICE

Test point:	Horizontal	Result:	<input checked="" type="checkbox"/> - passed <input type="checkbox"/> - not passed
Operation mode 1			
Remarks:			

EUT	RELIGIOUS CONTENT PLAYER
Power Supply	5V From PC Via USB
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	Peter
Test Specification	MODE NO: TB108



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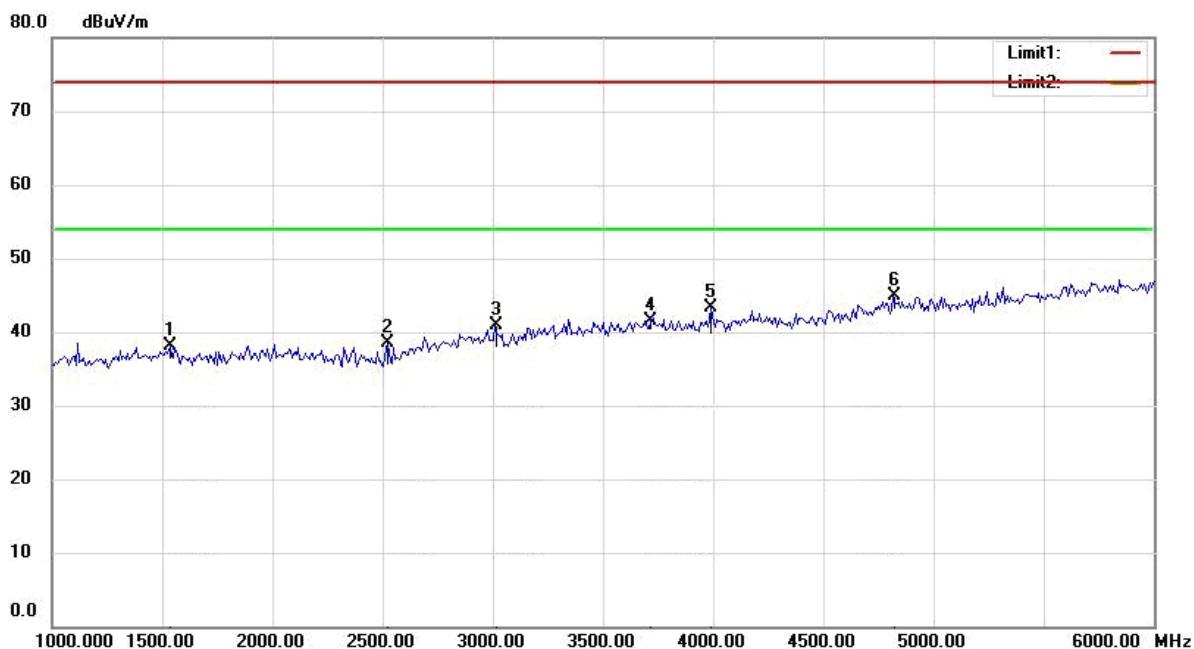
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Test point:	Vertical	Result:	<input checked="" type="checkbox"/> - passed
Operation mode 1			<input type="checkbox"/> - not passed
Remarks:			

EUT	RELIGIOUS CONTENT PLAYER
Power Supply	5V From PC Via USB
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	Peter
Test Specification	MODE NO: TB108



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**6 USED TEST EQUIPMENT****6.1**

Radiated Emission Test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2010/12
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2010/12
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2010/12
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2010/12
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	102986	2010/12
6	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2010/12

**6.2**

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2010/12
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2010/12
3	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2010/12
4	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2010/12

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## 7 Deviation to test specifications

[ NONE]

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## 8 Normative references

- 1 FCC CFR PART 15: OCT, 2009  
Radio Frequency Devices
- 2 CISPR 22 : 2005  
Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment
- 3 ANSI C 63.4 : 2009  
American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

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## 9 Manufacturer/ Approval holder Declaration

The following identical model(s):

QR108

Belong to the tested device:

Product description: **RELIGIOUS CONTENT PLAYER**  
Model name: **TB108**

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