

**FCC TEST REPORT**  
**Under**  
**FCC 15 Subpart B, Class B**

**USB FLASH DRIVE**

Model No. : UDF-XXX

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Report No. : A001E170109018E

Date of Test : Jan. 13-20,2017

Date of Rep. : **Jan.20,2017**

## TABLE OF CONTENTS

Description	Page
Test Report Declaration	
<b>1. GENERAL INFORMATION.....</b>	<b>4</b>
1.1. Description of Device (EUT).....	4
1.2. Test Facility.....	5
1.3. Uncertainty.....	5
<b>2. TEST INSTRUMENT USED.....</b>	<b>6</b>
<b>3. RADIATED EMISSION TEST.....</b>	<b>7</b>
3.1. Block Diagram of Test Setup.....	7
3.2. Test Standard.....	7
3.3. Radiation Limit.....	7
3.4. EUT Configuration on Test.....	8
3.5. Operating Condition of the EUT.....	8
3.6. Test Procedure.....	8
3.7. Radiated Emission Test Result.....	8
<b>4. PHOTOGRAPHS OF TEST SETUP.....</b>	<b>9</b>
4.1. Photo of Conducted Emission Test.....	9
4.2. Photo of Radiated Emission Test.....	9
APPENDIX I ----- Conducted Emission Test Data	
APPENDIX II ----- Radiated Emission Test Data	
APPENDIX III ----- Photographs of the EUT	

## TEST REPORT DECLARATION

EUT Description : USB FLASH DRIVE

(A) Model No. : UDF-XXX

(B) Serial No. : N/A

(C) Power Supply : N/A


**Test Procedure Used:  
FCC Rules and Regulations Part 15 Subpart B.**


The device described above has been tested by **Shenzhen AOV Testing Technology Co., Ltd.** to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both conducted and radiated emissions. The test results are contained in this test report and **Shenzhen AOV Testing Technology Co., Ltd.** is assumed of full responsibility for the accuracy and completeness of these tests. Also, this report shows that the EUT (Equipment under Test) is complies with the FCC requirements.


This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of **Shenzhen AOV Testing Technology Co., Ltd.**

Date of Test: Jan.13-20,2017

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Project Supervisor

Approved by:   
Yan Wei, Barry  
Technical Director



## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

Description : USB FLASH DRIVE

Model No. : UDF-XXX

Test : Jan.13-20,2017

## 1.2. Test Facility

Test Firm : ACCURATE TECHNOLOGY CO.,LTD  
Address : F1,Bldg.A,Changyuan New Material Port Keyuan Rd.,  
Science&Industry Park, Nanshan ShenZhen,P.R.China  
Tel : 0755-26503290/0755-26507022  
Fax : 0755-26503396

## 1.3. Uncertainty

Conducted Emission Uncertainty =  $\pm 2.23\text{dB}$

Radiated Emission Uncertainty =  $\pm 4.26\text{dB}$

## 2. TEST INSTRUMENT USED

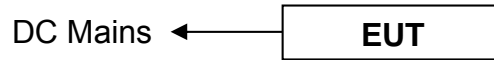
No.	Equipment	Manufacturer	Model No.	S/N	Cal. Date	Next Cal. Date
1	ESD TESTER	HAEFELY	PESD1610	H401552	2016.12.10	2017.12.10
2	MAGNETIC FIELD TESTER	HAEFELY	MAG100	150577	2016.12.10	2017.12.10
3	5kVA AC POWER SOURCE	CALIFORNIA INSTRUMENTS	5001ix-400	55692	2016.12.10	2017.12.10
4	HARMONICS/FLICKER TEST ANALYZER	CALIFORNIA INSTRUMENTS	PACS-1	72254	2016.12.10	2017.12.10
5	50Ω COAXIAL SWITCH	ANRITSU	MP59B	6200283933	2016.12.10	2017.12.10
6	CONICAL HOUSING	ATC	N/A	N/A	N/A	N/A
7	VOLTAGE PROBE	SCHWARZBECK	TK9416	N/A	2016.12.10	2017.12.10
8	RF CURRENT PROBE	ROHDE& SCHWARZ	EZ-17	100048	2016.12.10	2017.12.10
9	BILOG ANTENNA	SCHWARZBECK	VULB9163	194	2016.12.10	2017.12.10
10	SPECTRUM ANALYZER	ANRITSU	MS2651B	N/A	2016.12.10	2017.12.10
11	PRE-AMPLIFIER	AGILENT	8447D	294A10619	2016.12.10	2017.12.10
12	RF COAXIAL CABLE(844 CHAMBER)	SCHWARZBECK	N-5m	NO.1	2016.12.10	2017.12.10
13	THERMO-HYGROMETER	OREGON SCIENTIFIC	JB913R	GZ-WS004	2016.12.10	2017.12.10
14	1# SHIELDING ROOM	CHANGZHOU ZHONGYU	843	N/A	N/A	N/A
15	2# SHIELDING ROOM	CHANGZHOU ZHONGYU	843	N/A	N/A	N/A
16	3m Semi-ANECHOIC CHAMBER	CHANGZHOU ZHONGYU	844	N/A	N/A	N/A
17	ANTENNA/TURNTABLE CONTROLLER	INNCO	CO2000	CO2000/077/7301203/L	N/A	N/A
18	101 LCR METER	YANGZHI	YD2810B	20101170	2016.12.10	2017.12.10
19	RF COAXIAL CABLE(844 CHAMBER)	NTGS8017	N-1m	NO.6	2016.12.10	2017.12.10
20	RF COAXIAL CABLE(844 CHAMBER)	NTGS8017	N-1m	NO.7	2016.12.10	2017.12.10
21	AUDIO GENERATOR	GW	GAG-809	EG835424	N/A	N/A
22	THERMO-HYGROMETER	OREGON SCIENTIFIC	JB913R	GZ-WS002	2016.12.10	2017.12.10

No.	Equipment 29	Manufacturer	Model No.	S/N	Cal. Date	Next Cal. Date
23	EMC PRO SYSTEM (IMMUNITY TESTER)	THERMO	PRO-BASE	0403271	2016.12.10	2017.12.10
24	CAPACITIVE CLAMP (EFT)	THERMO	PRO-CCL	0403272	2016.12.10	2017.12.10
25	COUPLER DECOUPLER FOR TELECOM LINES	THERMO	CM-TEL-CD	0403273	2016.12.10	2017.12.10
26	L.I.S.N.	ROHDE & SCHWARZ	ESH3-Z5	100305	2016.12.10	2017.12.10
27	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESPI-3	100396/003	2016.12.10	2017.12.10
28	SIGNAL GENERATOR	ROHDE & SCHWARZ	SML01	101161	2016.12.10	2017.12.10
29	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESPI-3	101526/003	2016.12.10	2017.12.10
30	SPECTRUM ANALYZER	AGILENT	E7405A	MY45115511	2016.12.10	2017.12.10
31	L.I.S.N.	SCHWARZBECK	NSLK8126	8126431	2016.12.10	2017.12.10
32	PULSE LIMITER (FOR ESPI3)	ROHDE & SCHWARZ	ESH3-Z2	100815	2016.12.10	2017.12.10
33	PRE-AMPLIFIER	ROHDE & SCHWARZ	CBLU1183540-0 1	3791	2016.12.10	2017.12.10
34	50Ω COAXIAL SWITCH	ANRITSU	MP59B	6200506474	2016.12.10	2017.12.10
35	BILOG ANTENNA	SCHWARZBECK	VULB9163	9163-323	2016.12.10	2017.12.10
36	HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D-655	2016.12.10	2017.12.10
37	HORN ANTENNA	SCHWARZBECK	BBHA9170	9170-359	N/A	N/A
38	LOOP ANTENNA	SCHWARZBECK	FMZB1516	1516131	2016.12.10	2017.12.10
39	ULTRA COMPACT SIMULATOR	EM TEST	UCS 500 N5	V0928104968	2016.12.10	2017.12.10
40	CAPACITIVE CLAMP	EM TEST	HFK	0509-34	2016.12.10	2017.12.10
41	Transformer	EM TEST	V4780S2	0109-44	N/A	N/A
42	Conducted Immunity Test System	FRANKONIA	CIT-10	126B1121	2016.12.10	2017.12.10
43	CDN	FRANKONIA	CDN-M2/3	A3027020	2016.12.10	2017.12.10
44	EM Injection Clamp	FCC	F-203I-23mm	091824	2016.12.10	2017.12.10
45	LISN	AFJ	LS16C	16010946249	2016.12.10	2017.12.10
46	CLICK METER	AFJ	CL55C	55040947164	2016.12.10	2017.12.10

### 3. RADIATED EMISSION TEST

#### 3.1. Block Diagram of Test Setup

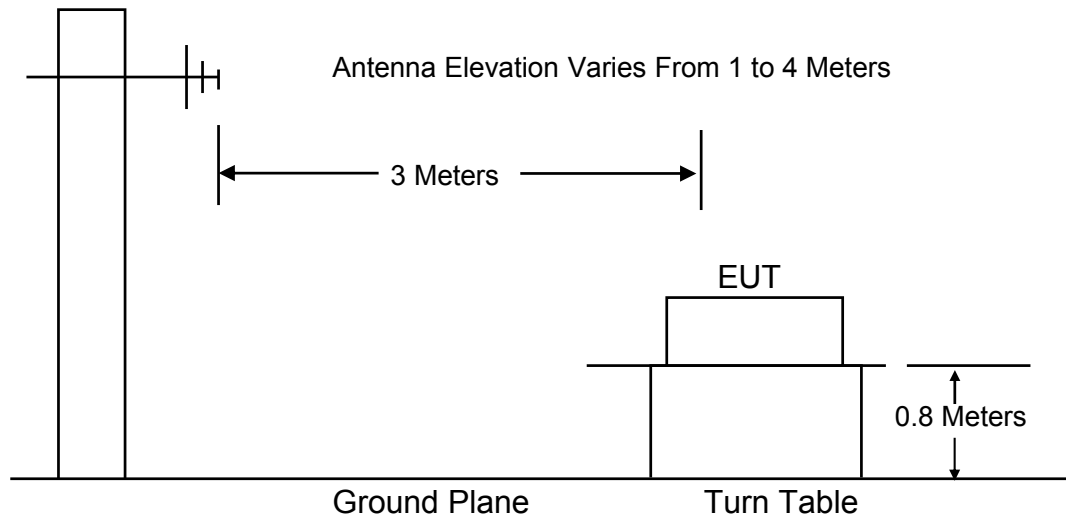
##### 3.1.1. For Block Diagram of Test Setup



(EUT: USB FLASH DRIVE)

##### 3.1.2. Anechoic Chamber Setup Diagram

Antenna Tower



#### 3.2. Test Standard

FCC Part 15 Subpart B

#### 3.3. Radiation Limit

Frequency MHz	Distance (Meter/s)	Field Strengths Limits dB(μV)/m
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0

**Remark:** (1) Emission level (dB (μV)/m) = 20 log Emission level (μV/m)

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance refers to the distance in meters between the measuring instrument, antenna and the closed point of any part of the device or system.



### 3.4.EUT Configuration on Test

The following equipments are installed on RF LINE VOLTAGE Test to meet the Commission requirement and operating regulations in a manner that tends to maximize its emission characteristics in a normal application. The configuration of EUT is listed in Section 3.4.

### 3.5.Operating Condition of the EUT

3.5.1.Setup the EUT and simulator as shown on Section 4.2.

3.5.2.Turn on the power of all equipment.

3.5.3.Let the EUT work in test mode (On) and measure it.

### 3.6.Test Procedure

The EUT and its simulators are placed on a turned table that is 0.8 meter above the ground. The turned table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. In order to find the maximum emission levels, the interface cable must be manipulated according to ANSI / IEEE Standard 187-1990 on radiated emission test.

The bandwidth setting on the field strength meter (R & S Test Receiver ESPI) is set at 120 KHz.

The frequency range from 30MHz to 1000MHz is checked. The test data are listed in the Section 4.7 and the scanning waveform are attached within APPENDIX II.

### 3.7. Radiated Emission Test Result

**PASS.**

Detailed information, please see the APPENDIX (II) file.

## 4. PHOTOGRAPHS OF TEST SETUP

### 4.1. Photo of Radiated Emission Test



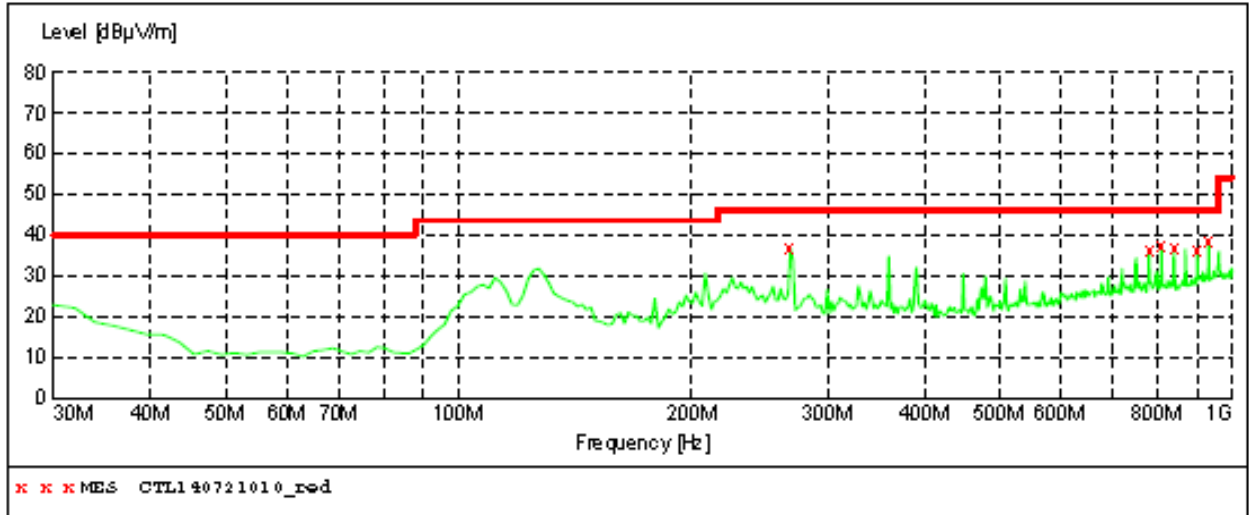
**APPENDIX I**

**Radiated Emission  
Test Data**

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### Radiated Emission

Engineer: Houth	On
EUT: USB FLASH DRIVE	Time: 2017/01/18
Limit : FCC Part 15 B	Comment : 25°C/55%
MN: UDF-XXX	Note: Hor
Power: N/A	



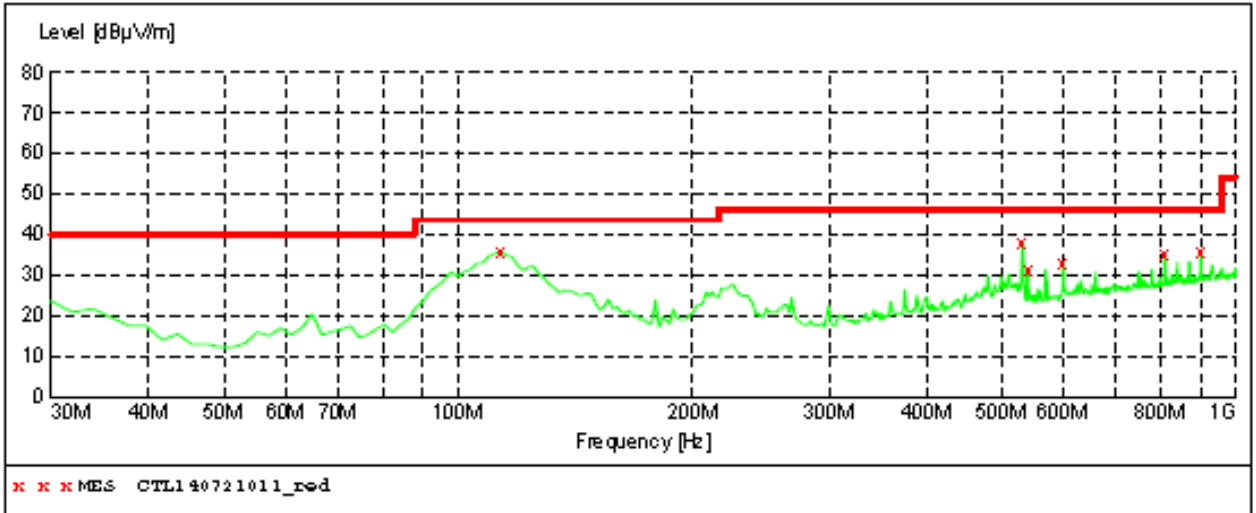
MEASUREMENT RESULT: "CTL140721010\_red"

7/21/2014 8:36AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
268.620000	36.60	15.2	46.0	9.4	---	0.0	0.00	HORIZONTAL
780.780000	36.40	24.7	46.0	9.6	---	0.0	0.00	HORIZONTAL
809.880000	37.40	24.9	46.0	8.6	---	0.0	0.00	HORIZONTAL
840.920000	37.00	25.2	46.0	9.0	---	0.0	0.00	HORIZONTAL
901.060000	36.50	26.1	46.0	9.5	---	0.0	0.00	HORIZONTAL
932.100000	38.30	26.4	46.0	7.7	---	0.0	0.00	HORIZONTAL

### Radiated Emission

Engineer: Houth	On
EUT: USB FLASH DRIVE	Time: 2017/01/18
Limit : FCC Part 15 B	Comment : 25°C/55%
MN: UDF-XXX	Note: Ver
Power: N/A	



MEASUREMENT RESULT: "CTL140721011\_red"

7/21/2014 8:37AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
113.420000	35.80	14.5	43.5	7.7	---	0.0	0.00	VERTICAL
532.460000	37.70	20.6	46.0	8.3	---	0.0	0.00	VERTICAL
540.220000	31.40	20.8	46.0	14.6	---	0.0	0.00	VERTICAL
600.360000	33.10	21.8	46.0	12.9	---	0.0	0.00	VERTICAL
809.880000	35.10	24.9	46.0	10.9	---	0.0	0.00	VERTICAL
901.060000	35.80	26.1	46.0	10.2	---	0.0	0.00	VERTICAL

## **APPENDIX II**

### **Photographs of the EUT**

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**FIGURE**  
Appearance of EUT (M/N: UDF-XXX)



**FIGURE**  
Inside of EUT (M/N: UDF-XXX)

