



ISO/IEC17025 Accredited Lab.

Report No: FCC 1504017

File reference No: 2015-04-08

Applicant: Haier international(hk) limited

Product: Chromebook

Model No: HR-116E(Brand is Haier), CB-116(Brand is Nexian),  
TIDC-116E(Brand is True IDC)

Trademark: Haier, Nexian, True IDC

Test Standards: FCC Part 15 Subpart B: 2012

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung

Manager

Dated: April 08, 2015

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES**

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District,  
Shenzhen, Guangdong, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timewaytech.com



### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 899988**

The 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.: 899988.

#### **IC- Registration No.: IC5205A-02**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Room 512-519,5/F., East Tower,Building 4, Anhua Industrial Zone,  
Futian District,Shenzhen, Guangdong China  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 899988  
For 3m & 10 m OATS  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A-02  
For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: Haier international(hk) limited  
Address: Room1908 Harbour Centre, 25 Harbour Road, Wanchai, HK  
Telephone: 0532-88937841  
Fax: 0532-88937816

### 1.3 Description of EUT

Product: Chromebook  
Manufacturer: Haier international(hk) limited  
Address: Room1908 Harbour Centre, 25 Harbour Road, Wanchai, HK  
Brand Name: Haier, Nexian, True IDC  
Model Number: HR-116E(Brand is Haier),  
Additional Model Number: CB-116(Brand is Nexian), TIDC-116E(Brand is True IDC)  
Power Supply: Model: WA-24Q12R; Input: 100-240V~, 50-60Hz, 0.7A; Output: DC12V, 2A.  
Alternative: Model: RH-120200US; Input: 100-240V~, 50/60Hz, 0.6A; Output: DC12V, 2A.  
Highest frequency generated in the EUT: 5825MHz

### 1.4 Submitted Sample: 2 Samples

### 1.5 Test Duration: 2015-03-20 to 2015-04-07

### 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB  
Radiated Emissions Uncertainty =4.7dB

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1.7 Test Engineer

*Terry Tong*

The sample tested by

Print Name: Terry Tong

## 2.0 List of Measurement Equipment

### 2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESH3	860905/006	RS	2014.08.21	1 Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2014.08.21	1 Year
PULSE LIMITER	ESH3-Z2	100281	RS	2014.08.22	1 Year
LISN	ESH3-Z5	100294	RS	2014.08.22	1 Year
LISN	ESH3-Z5	100253	RS	2014.08.22	1 Year
LISN	LS16C	10010947251	AFJ	2014.08.21	1 Year

### 2.2 Radiated electromagnetic disturbance test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESVD	100008	RS	2014.08.21	1 Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Amplifier	8447D	2727A05017	HP	2014.08.22	1 Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2014.08.23	1 Year
Horn Antenna	BBHA 9120D	9120D-631	Schwarebeck	2014.08.23	1 Year
Horn Antenna	BBHA 9170	BBHA9170265	Schwarebeck	2014.08.23	1 Year
Test Receiver	ESI26	838786/013	RS	2014.08.22	1 Year

### 2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC DOC/ ID
Monitor	P2450	--	SAMSUNG	Data cable of 1.5m length	FCC DOC
Passive Earphone	--	--	--	--	--
Mouse	M-F105	--	L.Seletron	--	FCC DOC
TF	--	--	--	--	--

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### 3.0 Technical Details

#### 3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

#### 3.2 Test Standards

**FCC Part 15 Subpart B: 2012**

### 3.3 Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pre-test Mode	Description
Mode1	Camera On
Mode2	Play SD Card
Mode3	Play USB
Mode4	Play Memory
Mode5	Running EMC test Program

For Conducted Emissions Test	
Final test Mode	Description
Mode1	Camera On
Mode2	Play SD Card
Mode3	Play USB
Mode4	Play Memory
Mode5	Running EMC test Program

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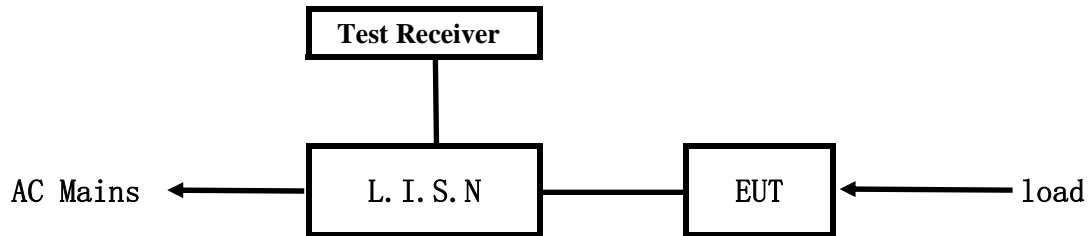
For Radiated Emissions Test	
Final test Mode	Description
Mode1	Camera On
Mode2	Play SD Card
Mode3	Play USB
Mode4	Play Memory
Mode5	Running EMC test Program

Note: During pre-test, two power supplies were used. For the final measurement, only the worse case was recorded.

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#### 4.0 Conducted Power line Test

##### 4.1 Schematics of the test



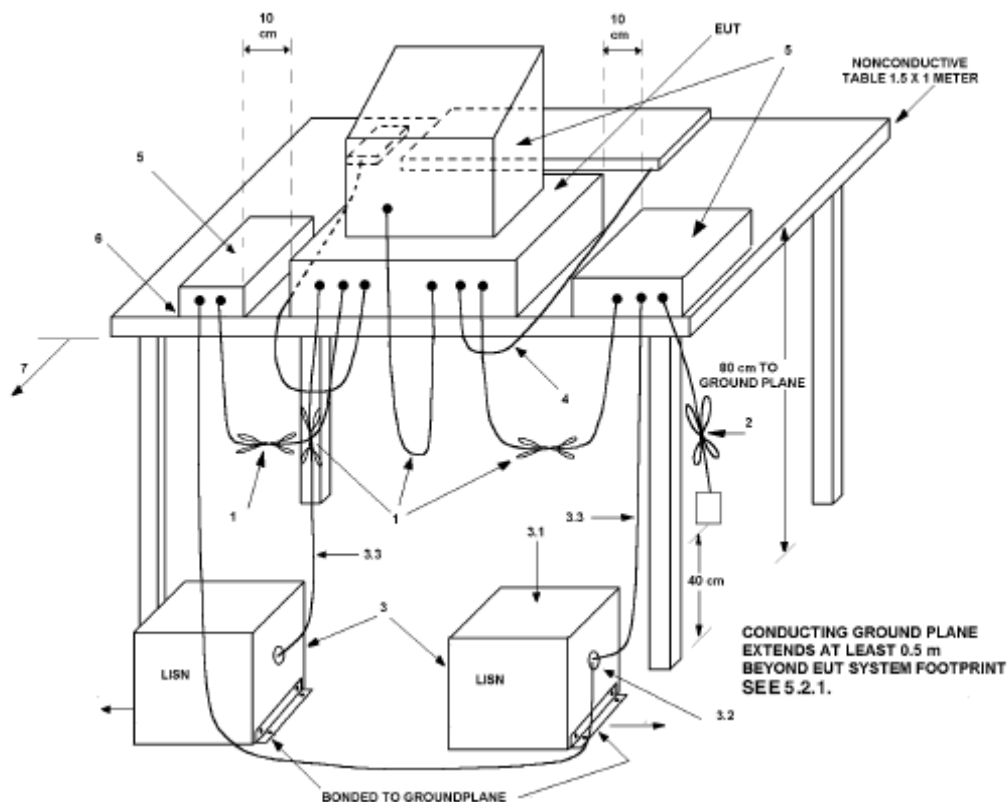
EUT: Equipment Under Test

##### 4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2009. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2009. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



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#### 4.3 Power line conducted Emission Limit

Frequency(MHz)	Class A Limits dB(μV)		Class B Limits dB(μV)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

- Notes:
1. \*decreasing linearly with logarithm of frequency.
  2. The tighter limit shall apply at the transition frequencies

#### 4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

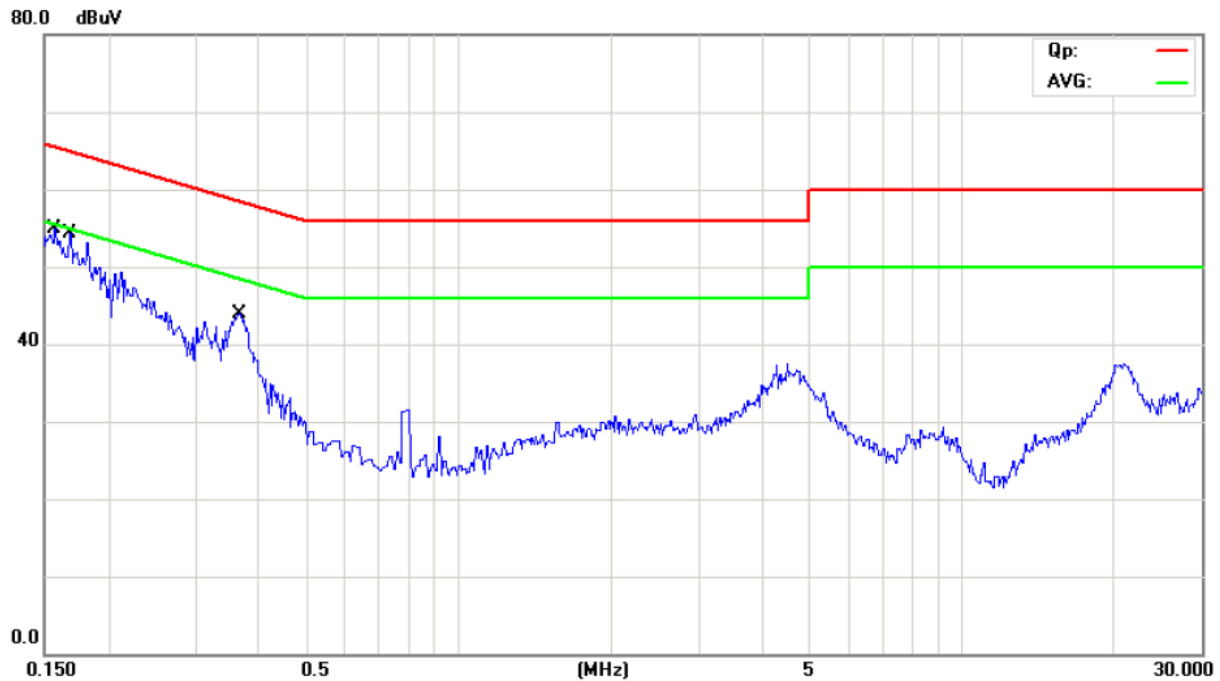
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Camera On**

**Equipment Level: Class B**

**Results: PASS**

Please refer to following diagram for individual



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1576	37.80	11.01	48.81	65.59	-16.78	QP	
2		0.1576	20.20	11.01	31.21	55.59	-24.38	AVG	
3		0.1691	35.60	11.02	46.62	65.00	-18.38	QP	
4		0.1691	18.90	11.02	29.92	55.00	-25.08	AVG	
5		0.3636	30.80	11.23	42.03	58.65	-16.62	QP	
6	*	0.3636	24.60	11.23	35.83	48.65	-12.82	AVG	

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**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

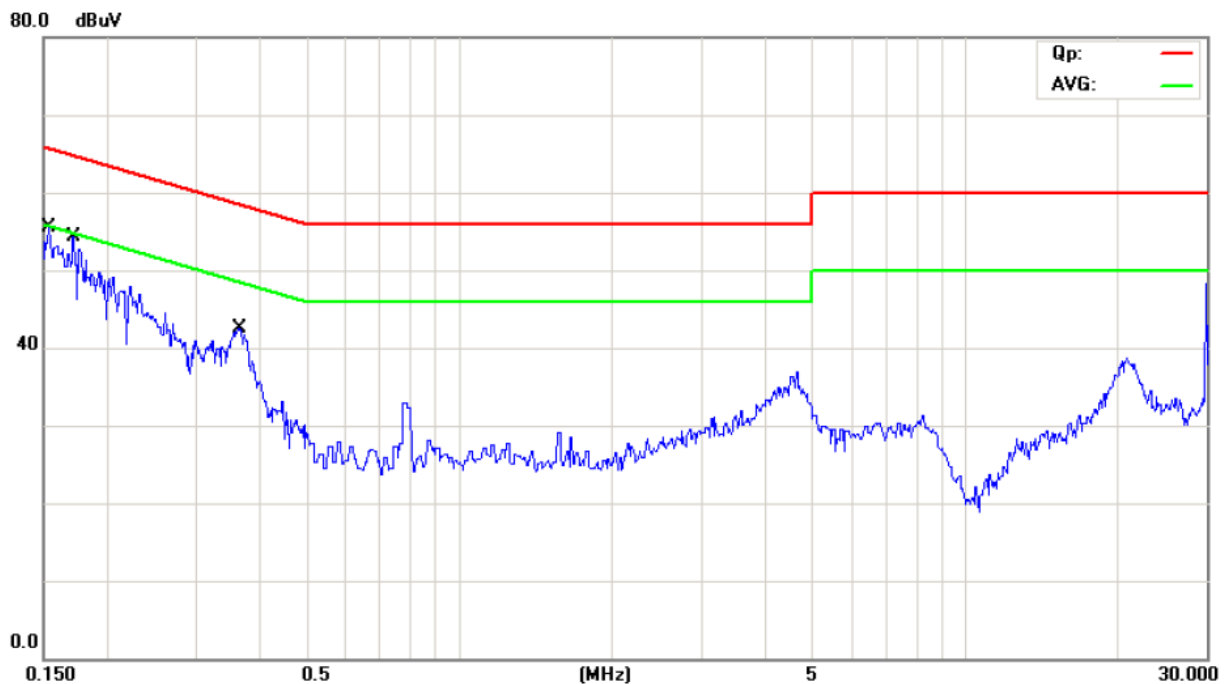
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Camera On**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1535	38.40	11.00	49.40	65.81	-16.41	QP	
2		0.1535	20.60	11.00	31.60	55.81	-24.21	AVG	
3		0.1720	35.20	11.02	46.22	64.86	-18.64	QP	
4		0.1720	18.00	11.02	29.02	54.86	-25.84	AVG	
5		0.3625	28.50	11.22	39.72	58.67	-18.95	QP	
6	*	0.3625	21.90	11.22	33.12	48.67	-15.55	AVG	

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**C: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

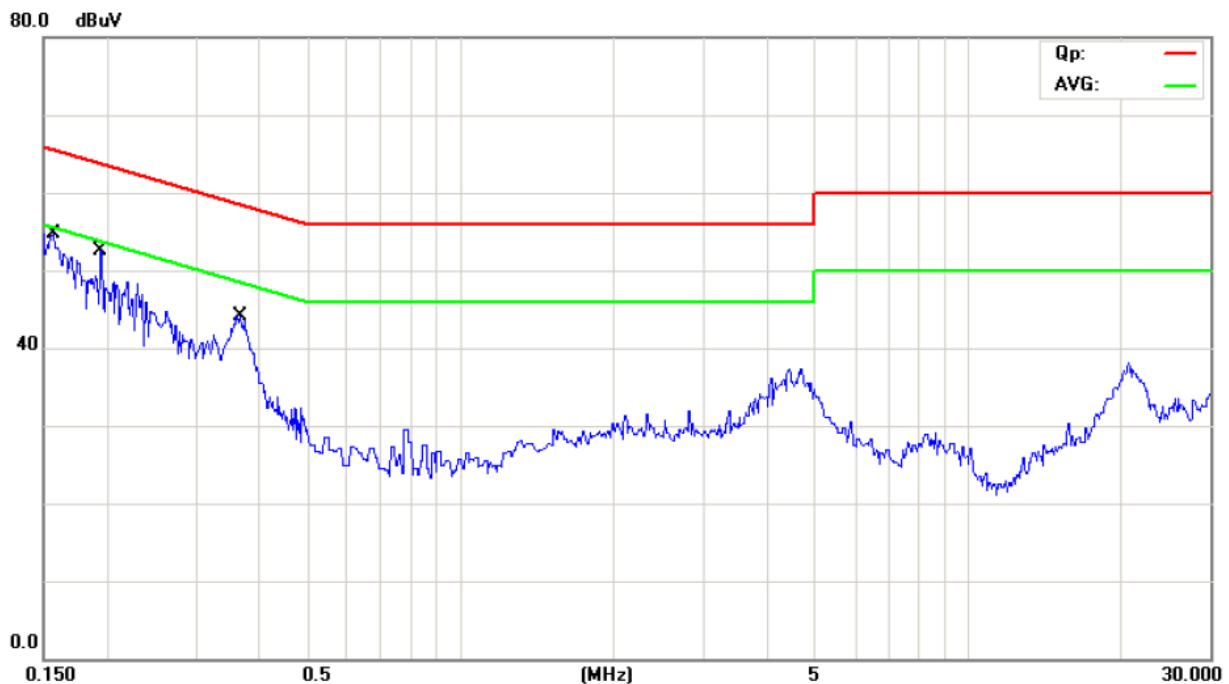
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play SD Card**

**Equipment Level: Class B**

**Results: PASS**

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1561	37.50	11.01	48.51	65.67	-17.16	QP	
2		0.1561	21.90	11.01	32.91	55.67	-22.76	AVG	
3		0.1943	30.50	11.05	41.55	63.85	-22.30	QP	
4		0.1943	17.90	11.05	28.95	53.85	-24.90	AVG	
5		0.3646	30.30	11.23	41.53	58.62	-17.09	QP	
6	*	0.3646	23.30	11.23	34.53	48.62	-14.09	AVG	

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**D: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

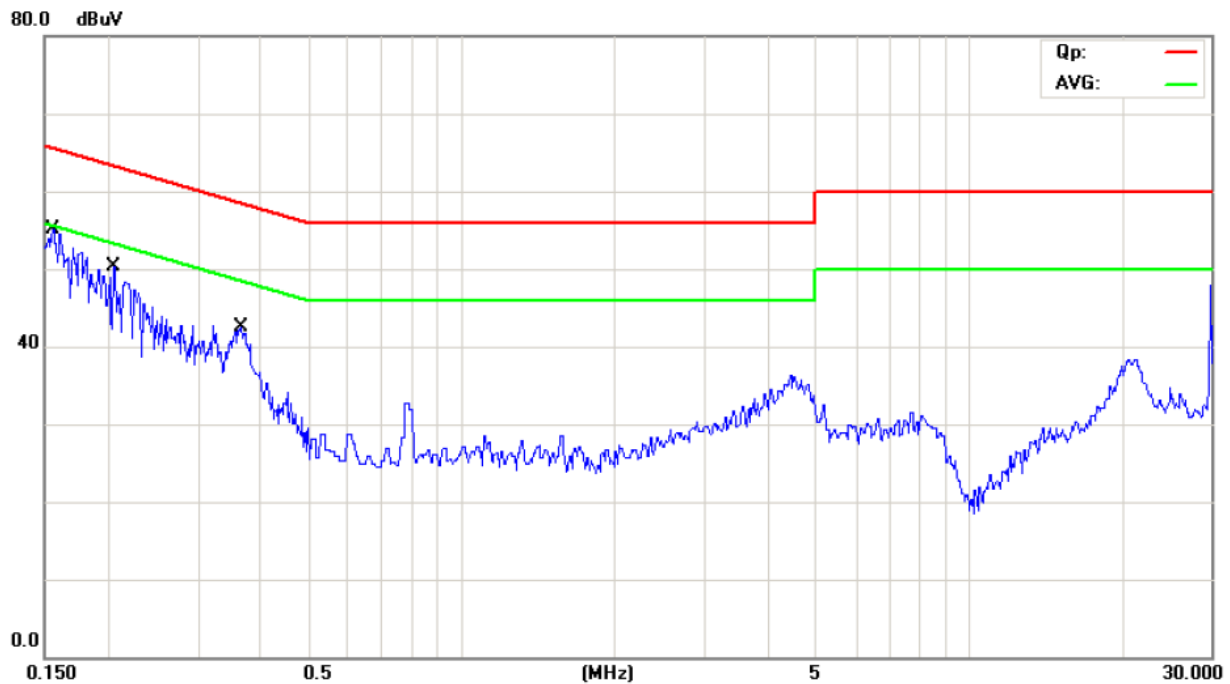
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play SD Card**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1561	38.00	11.01	49.01	65.67	-16.66	QP	
2		0.1561	20.30	11.01	31.31	55.67	-24.36	AVG	
3		0.2048	31.40	11.06	42.46	63.41	-20.95	QP	
4		0.2048	12.30	11.06	23.36	53.41	-30.05	AVG	
5		0.3646	29.10	11.23	40.33	58.62	-18.29	QP	
6		0.3646	20.50	11.23	31.73	48.62	-16.89	AVG	

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**E: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

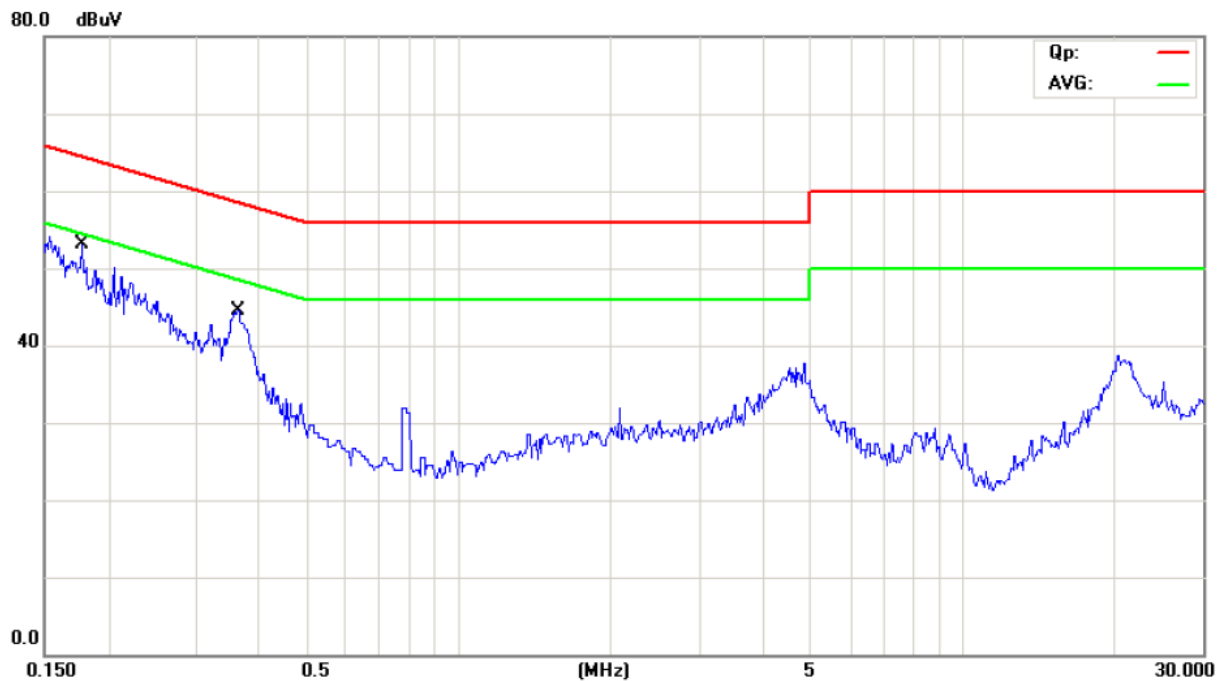
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Running EMC test Program**

**Equipment Level: Class B**

**Results: PASS**

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1773	33.90	11.03	44.93	64.61	-19.68	QP	
2		0.1773	20.50	11.03	31.53	54.61	-23.08	AVG	
3		0.3631	30.40	11.23	41.63	58.66	-17.03	QP	
4	*	0.3631	23.30	11.23	34.53	48.66	-14.13	AVG	

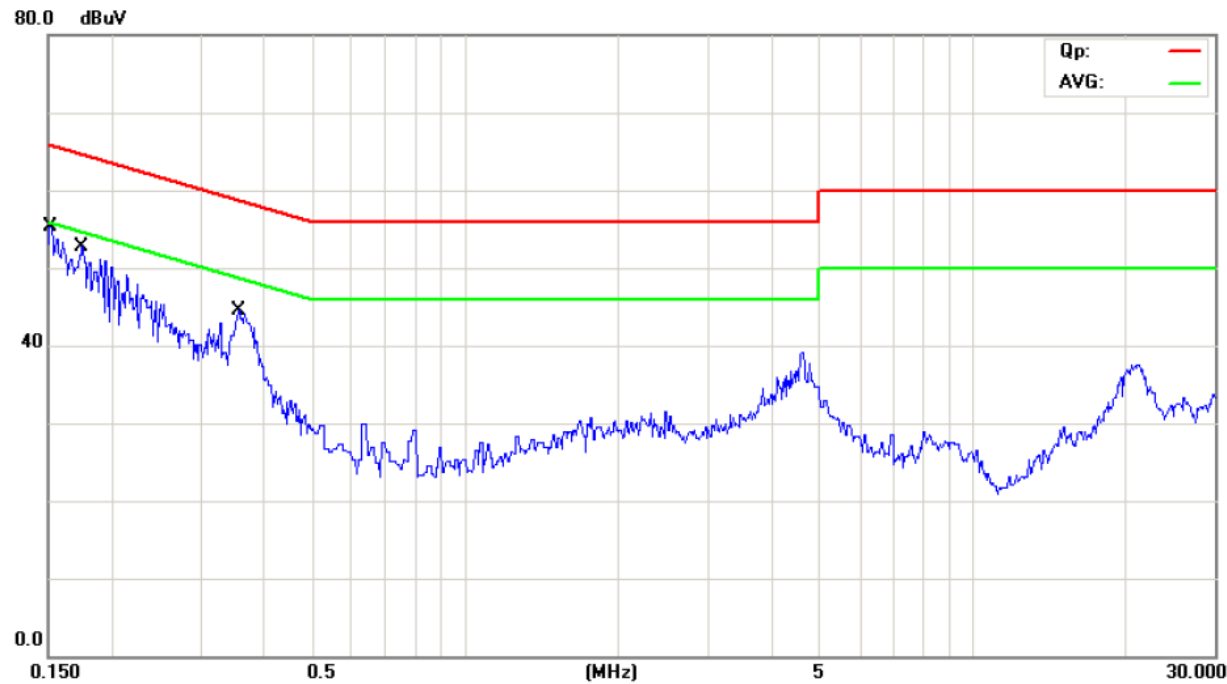
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**F: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**  
**EUT Operating Environment**  
Temperature: 26°C      Humidity: 65%RH      Atmospheric Pressure: 101 KPa  
**EUT set Condition: Running EMC test Program**  
**Equipment Level: Class B**  
**Results: Pass**  
Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1504	38.30	11.00	49.30	65.98	-16.68	QP	
2		0.1504	21.50	11.00	32.50	55.98	-23.48	AVG	
3		0.1746	34.50	11.03	45.53	64.74	-19.21	QP	
4		0.1746	20.40	11.03	31.43	54.74	-23.31	AVG	
5		0.3560	30.30	11.22	41.52	58.82	-17.30	QP	
6	*	0.3560	23.10	11.22	34.32	48.82	-14.50	AVG	

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**G: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

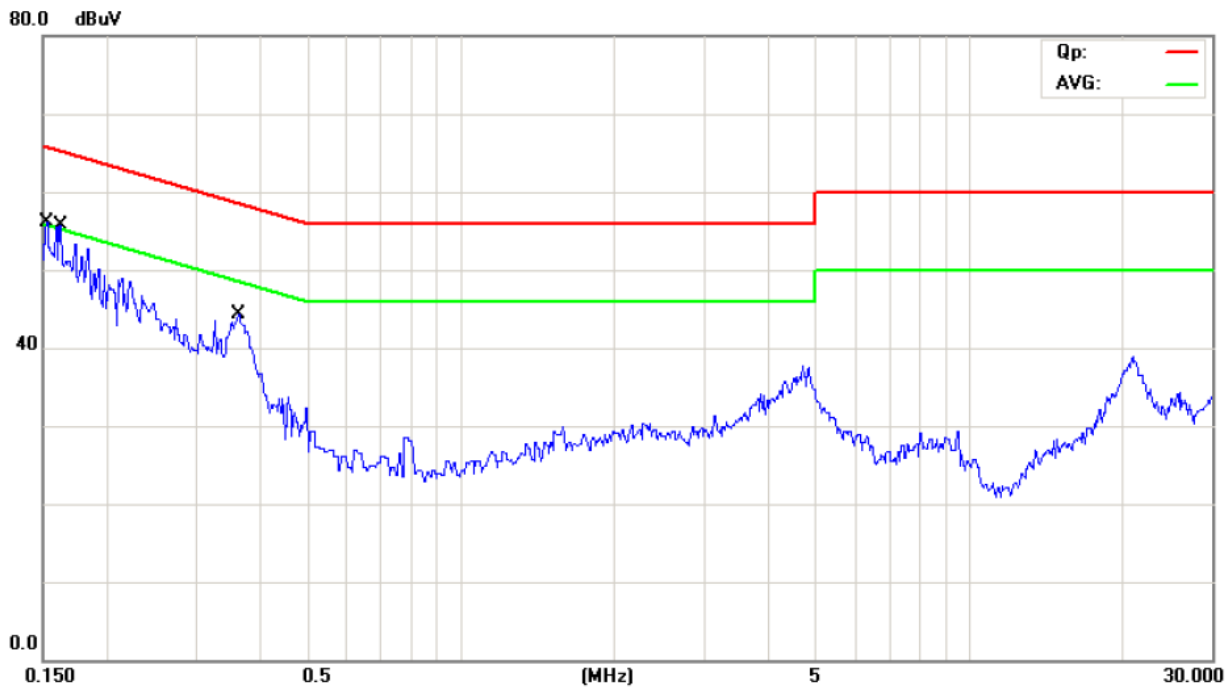
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play Memory**

**Equipment Level: Class B**

**Results: PASS**

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1526	37.40	11.00	48.40	65.86	-17.46	QP	
2		0.1526	21.80	11.00	32.80	55.86	-23.06	AVG	
3		0.1623	36.00	11.01	47.01	65.35	-18.34	QP	
4		0.1623	21.20	11.01	32.21	55.35	-23.14	AVG	
5		0.3670	30.90	11.23	42.13	58.57	-16.44	QP	
6	*	0.3670	24.60	11.23	35.83	48.57	-12.74	AVG	

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**H: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

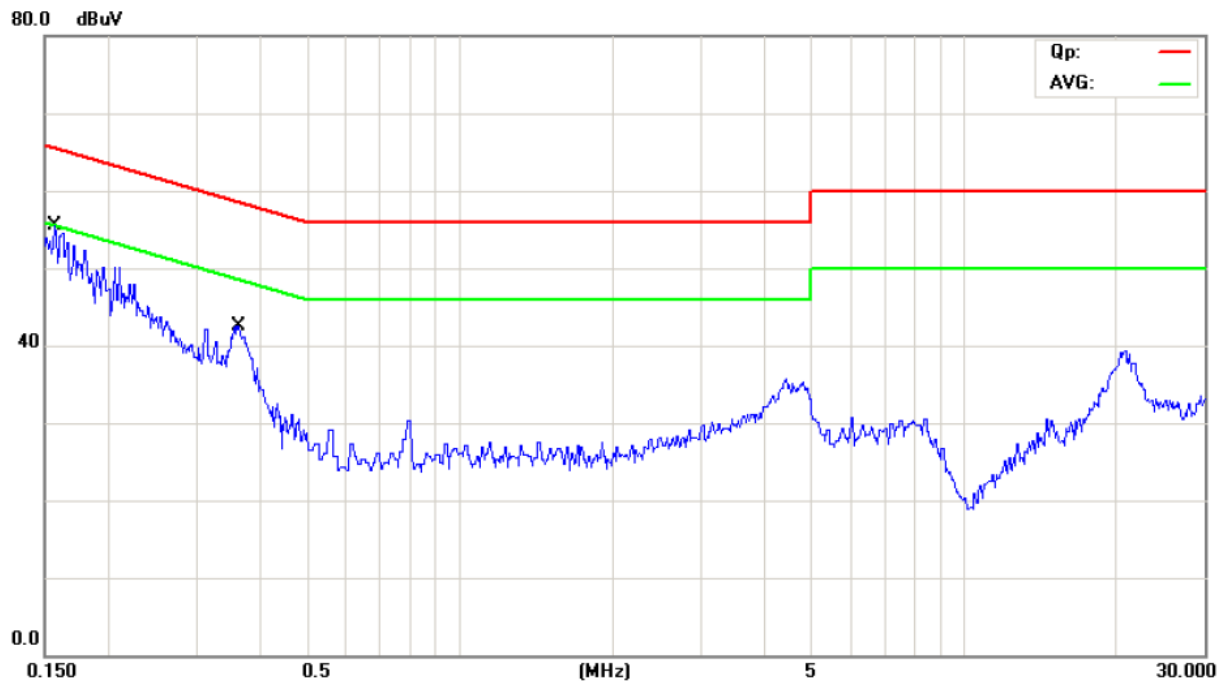
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play Memory**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1570	38.50	11.01	49.51	65.62	-16.11	QP	
2		0.1570	21.70	11.01	32.71	55.62	-22.91	AVG	
3		0.3620	27.70	11.22	38.92	58.68	-19.76	QP	
4		0.3620	20.70	11.22	31.92	48.68	-16.76	AVG	

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**I: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

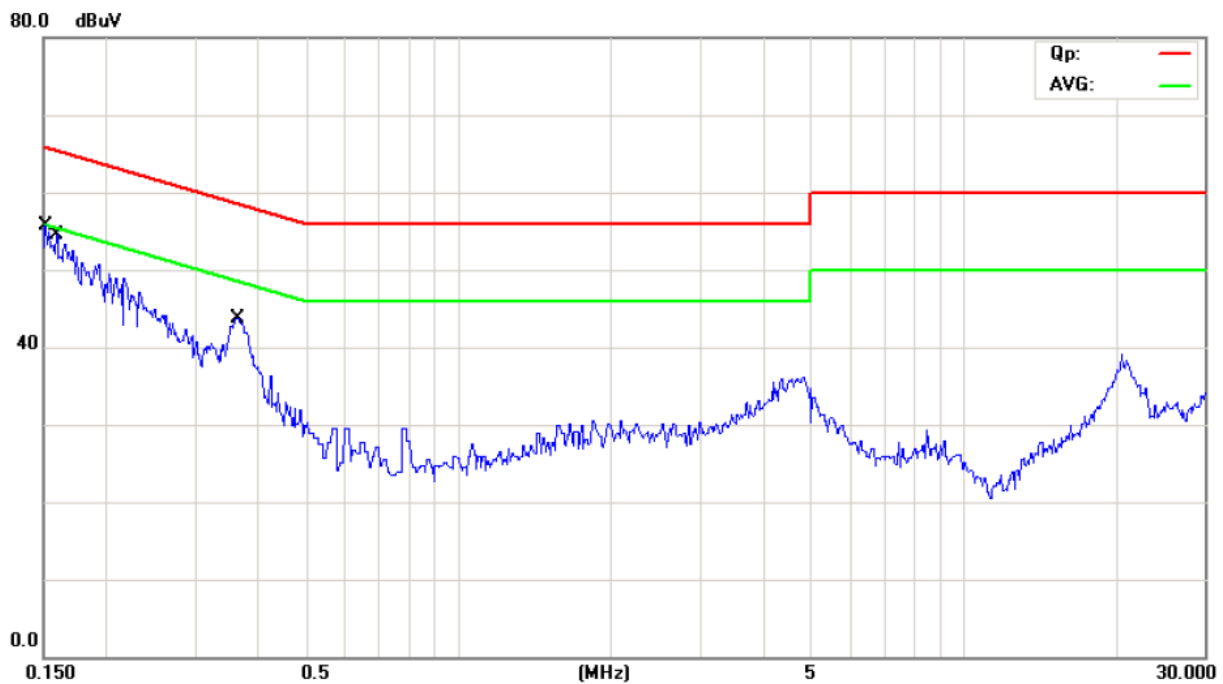
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play USB**

**Equipment Level: Class B**

**Results: PASS**

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1508	38.80	11.00	49.80	65.96	-16.16	QP	
2		0.1508	21.20	11.00	32.20	55.96	-23.76	AVG	
3		0.1593	37.60	11.01	48.61	65.50	-16.89	QP	
4		0.1593	21.50	11.01	32.51	55.50	-22.99	AVG	
5		0.3632	30.10	11.23	41.33	58.65	-17.32	QP	
6	*	0.3632	23.50	11.23	34.73	48.65	-13.92	AVG	

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**J: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

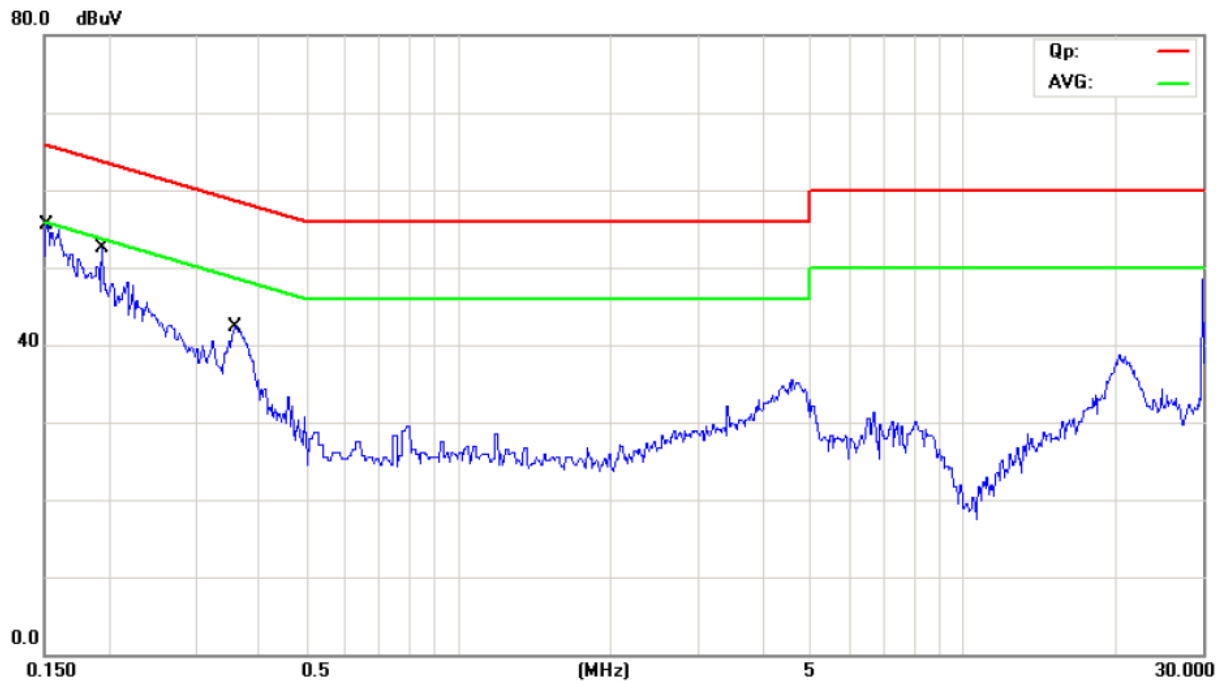
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play USB**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1512	39.00	11.00	50.00	65.93	-15.93	QP	
2		0.1512	21.50	11.00	32.50	55.93	-23.43	AVG	
3		0.1954	31.80	11.05	42.85	63.80	-20.95	QP	
4		0.1954	16.80	11.05	27.85	53.80	-25.95	AVG	
5		0.3600	28.20	11.22	39.42	58.73	-19.31	QP	
6	*	0.3600	23.20	11.22	34.42	48.73	-14.31	AVG	

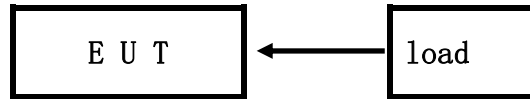
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## 5.0 Radiated Disturbance Test

### 5.1 Schematics of the test

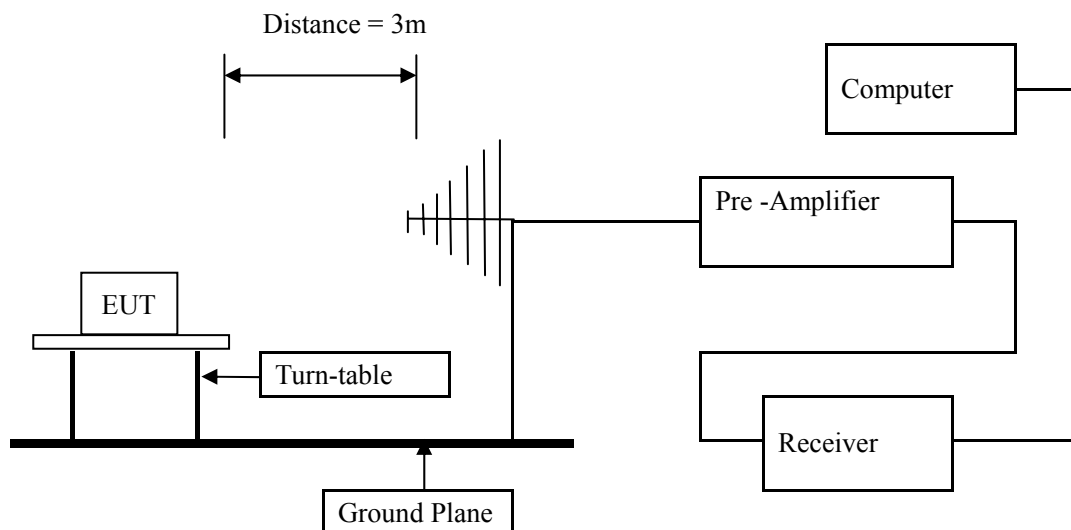


### 5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2009; The frequency spectrum from 30MHz to 5GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

Actual Working Voltage and Frequency: 120V~, 60Hz

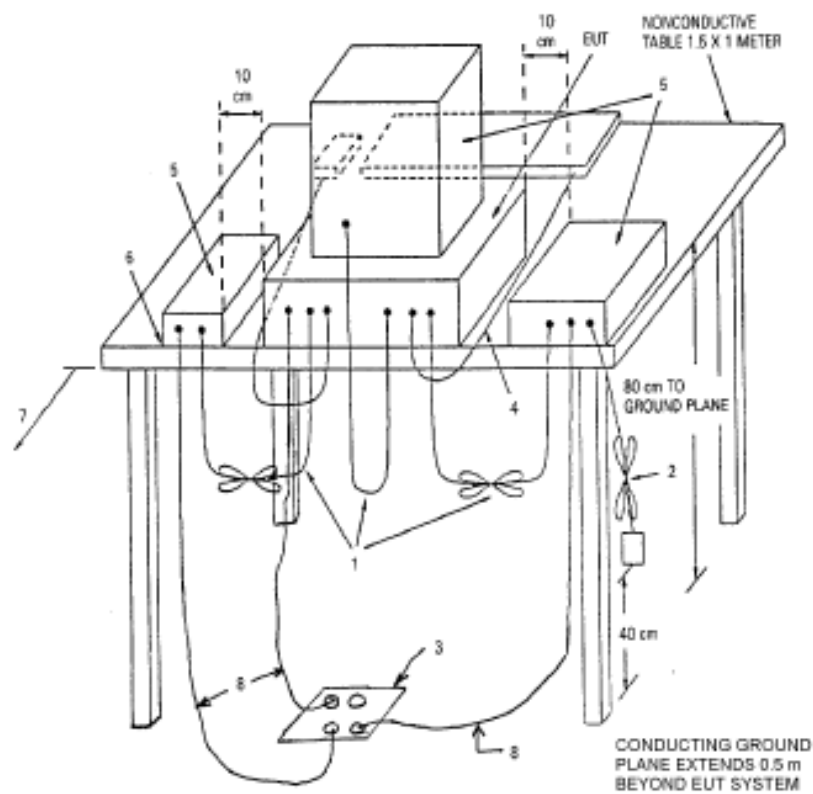
#### Block diagram of Test setup



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5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: 1.The lower limit shall apply at the transition frequencies  
2.This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

5.4 Test result

The frequency spectrum from 30MHz to 30GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters.

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**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal/ In Vertical (30MHz----1000MHz)**

**EUT set Condition: Camera On**

**Results: Pass**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
33.080	29.12	H	40.00
243.120	33.56	H	46.00
180.520	33.87	H	43.50
953.760	33.55	H	46.00
168.880	32.47	V	43.50
960.000	40.61	V	46.00
435.00	38.01	V	46.00
35.000	36.41	V	40.00

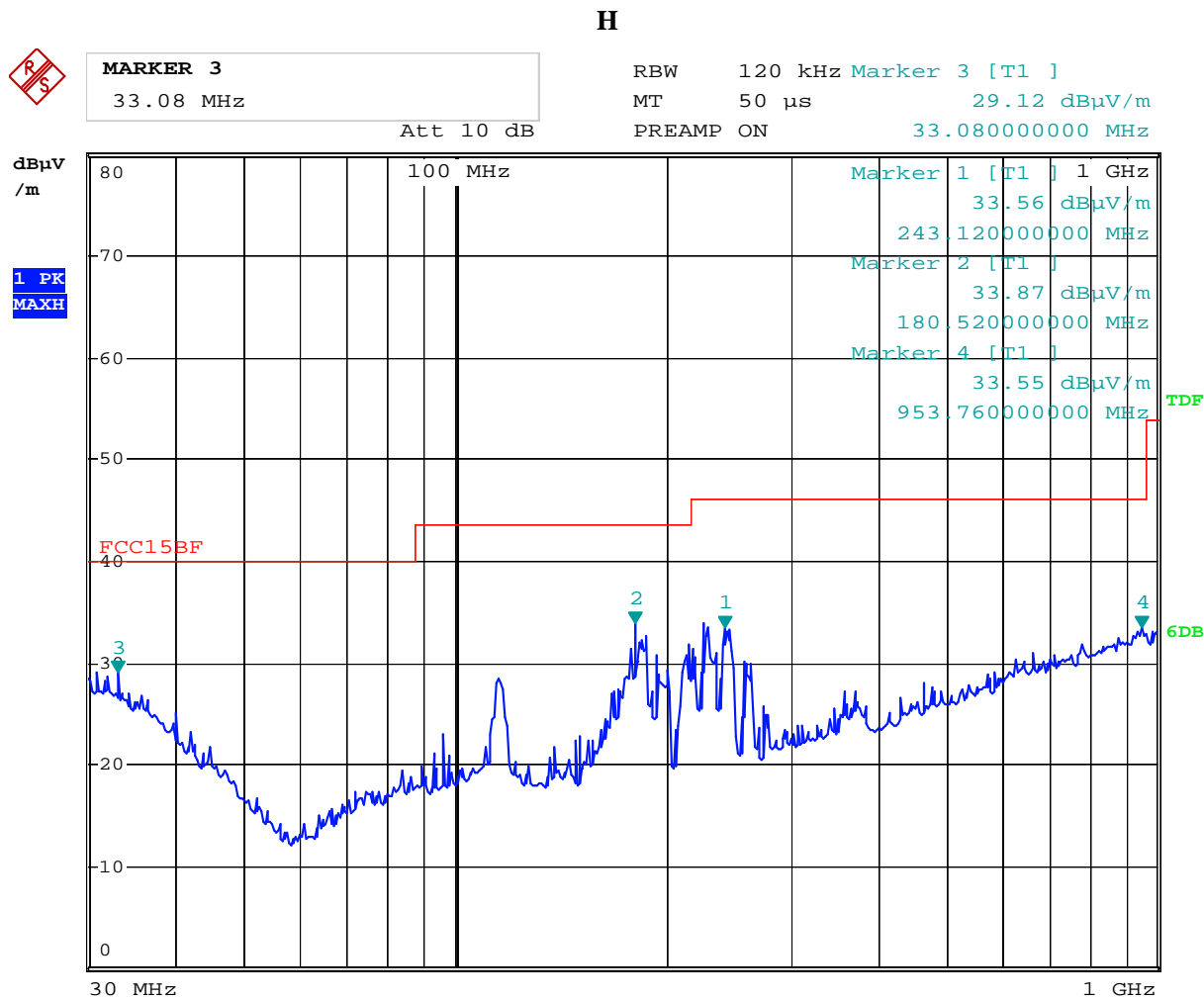
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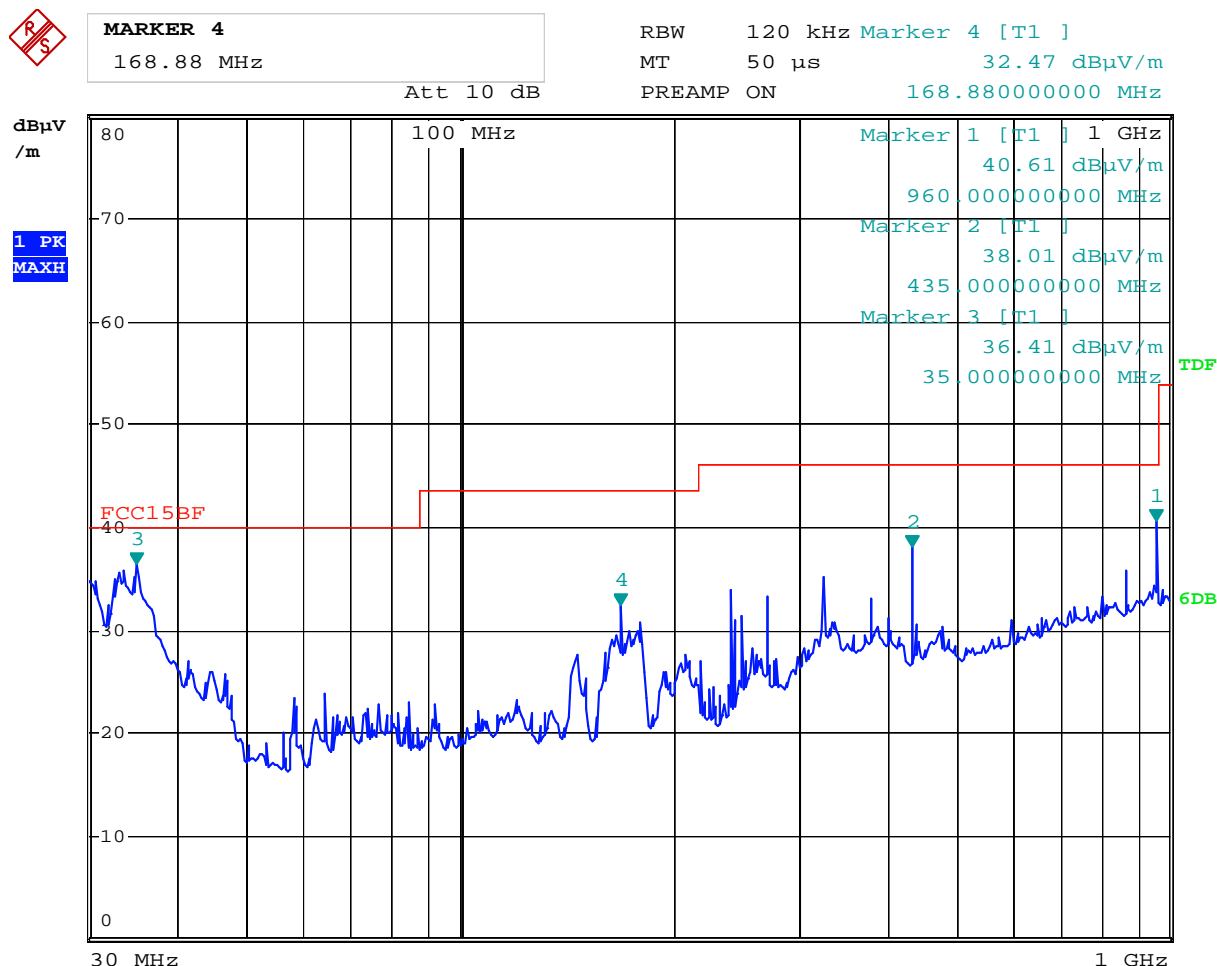
Test Figure:



Date: 7.APR.2015 11:45:36

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V



Date: 8.APR.2015 15:56:21

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**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal/ In Vertical (30MHz----1000MHz)**

**EUT set Condition: Play SD Card**

**Results: Pass**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
928.600	33.10	H	46.00
181.200	33.46	H	43.50
230.240	33.29	H	46.00
30.680	27.99	H	40.00
594.000	32.02	V	40.00
955.640	33.61	V	46.00
103.240	31.68	V	43.50
31.800	29.54	V	40.00

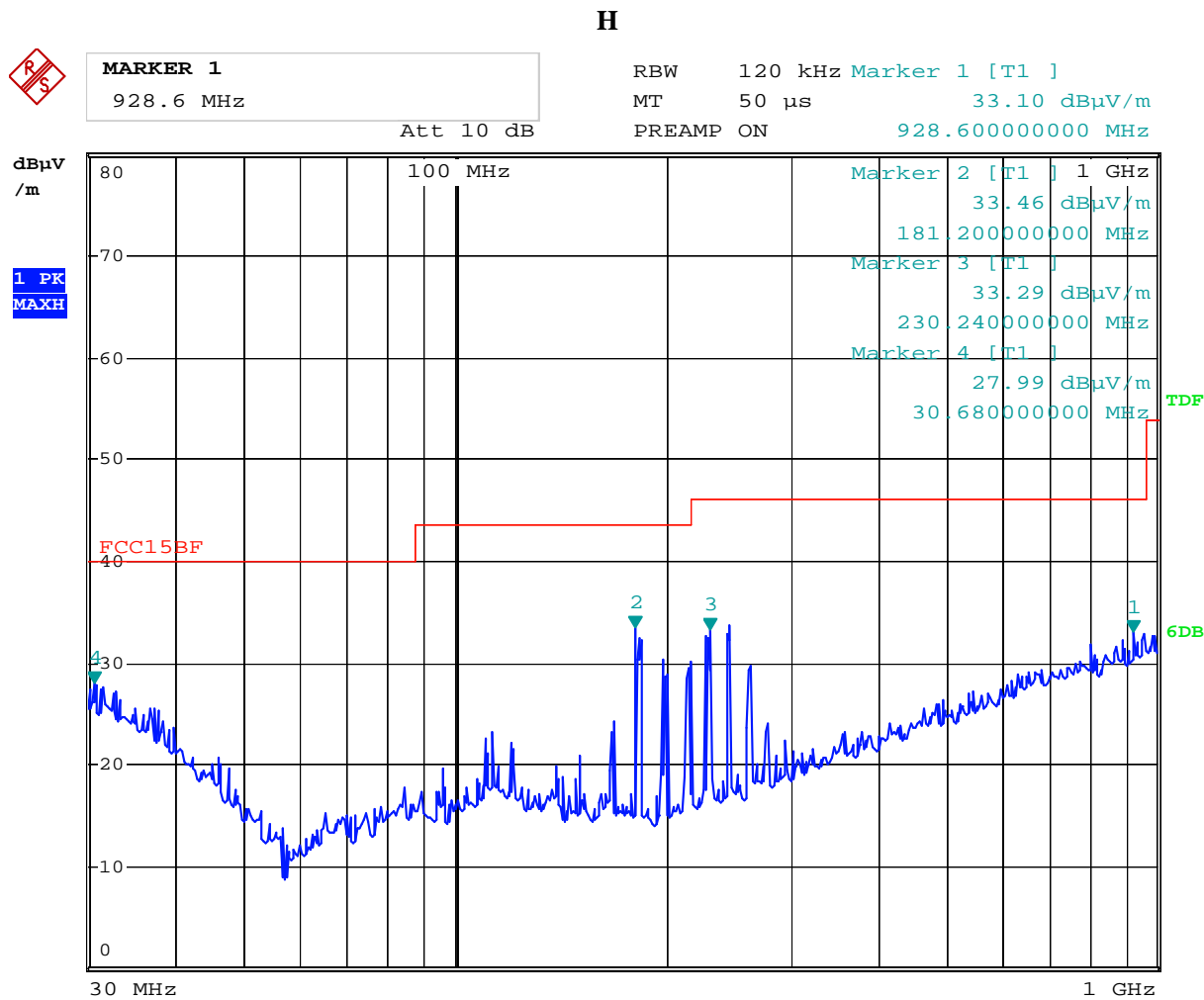
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Test Figure:

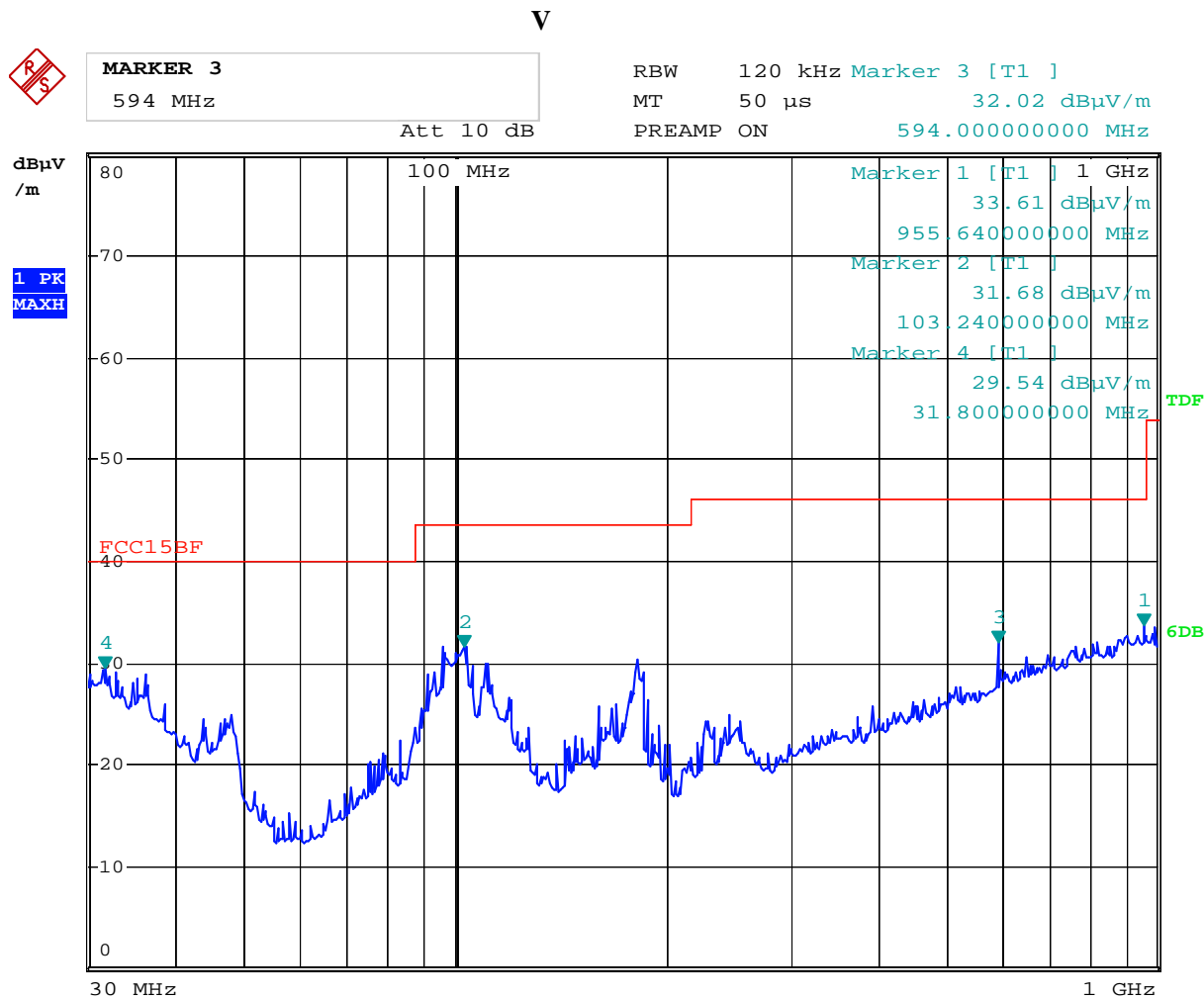


Date: 7.APR.2015 11:35:11

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Test Figure:



Date: 7.APR.2015 11:37:43

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**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal/ In Vertical (30MHz----1000MHz)**

**EUT set Condition: Play USB**

**Results: Pass**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
115.520	31.74	H	43.50
1000.000	37.92	H	46.00
186.960	34.02	H	43.50
233.240	32.95	H	46.00
31.080	28.57	V	40.00
999.960	41.65	V	46.00
95.960	28.37	V	43.50
600.000	39.84	V	46.00

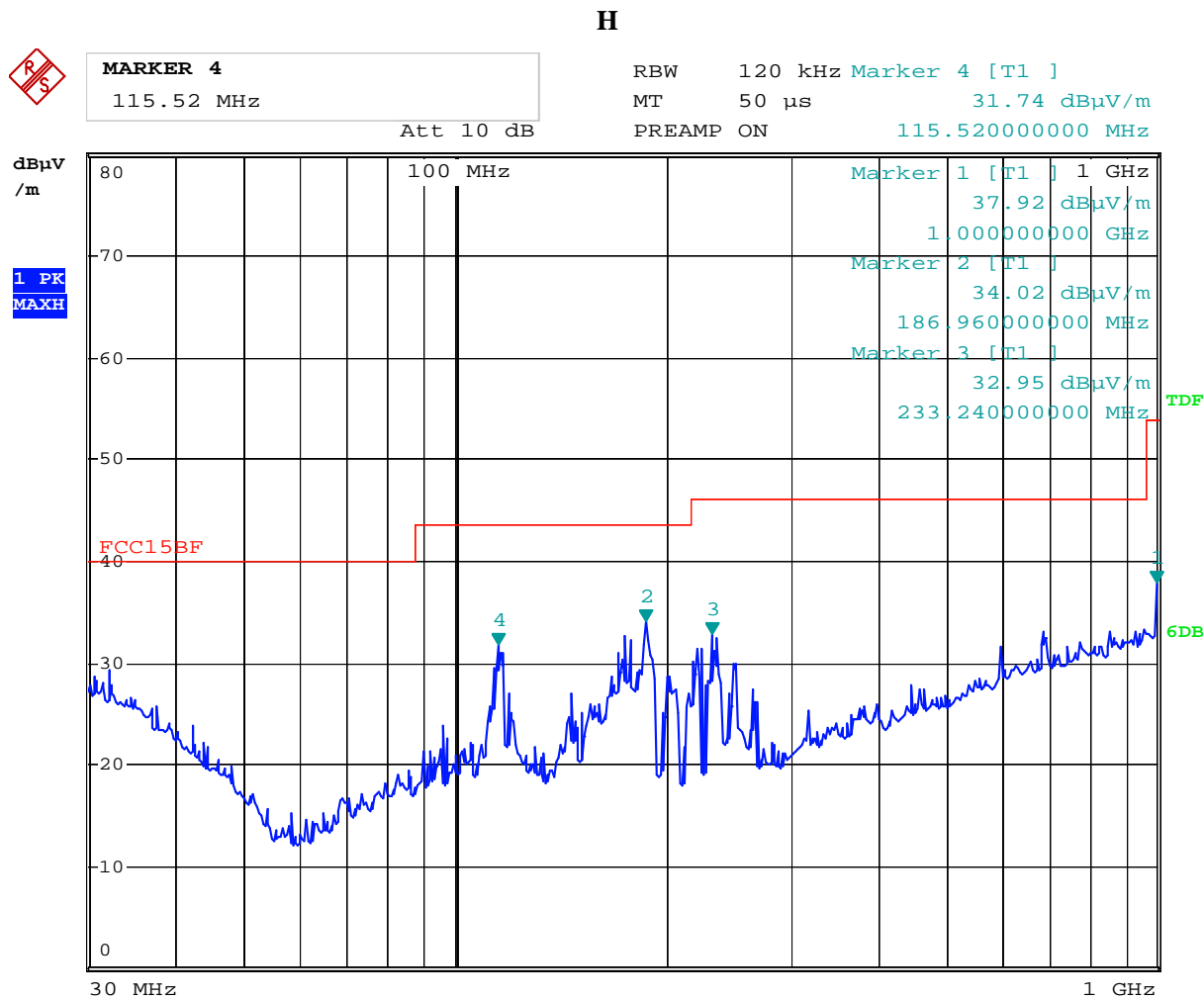
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Test Figure:

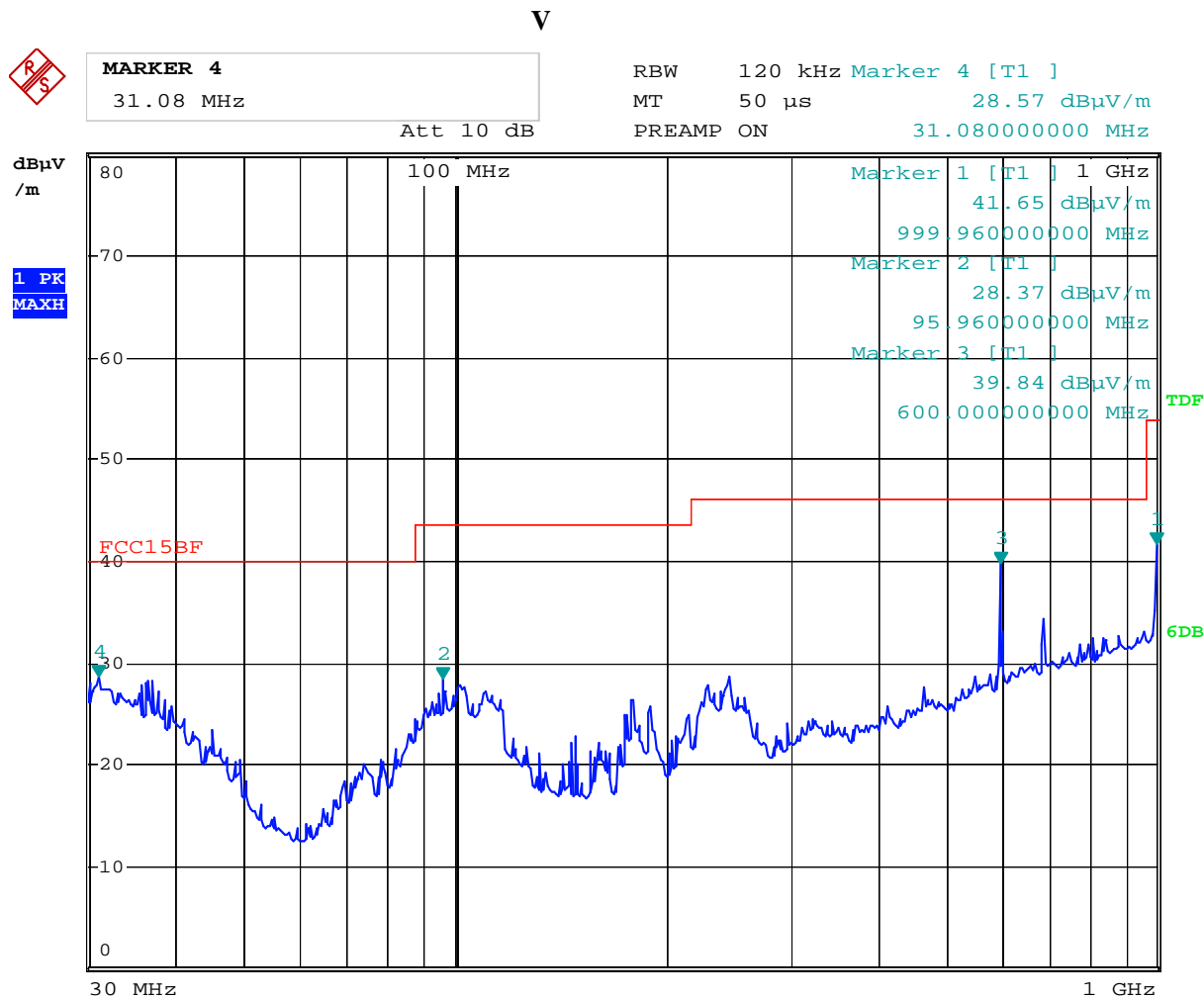


Date: 7.APR.2015 11:31:34

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Test Figure:



Date: 7.APR.2015 11:29:29

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**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal/ In Vertical (30MHz----1000MHz)**

**EUT set Condition: Play Memory**

**Results: Pass**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
31.880	29.00	H	40.00
667.200	37.81	H	46.00
239.880	34.69	H	46.00
178.240	33.03	H	43.50
30.440	29.67	V	40.00
1000.000	43.86	V	46.00
600.080	43.32	V	46.00
182.320	31.65	V	43.50

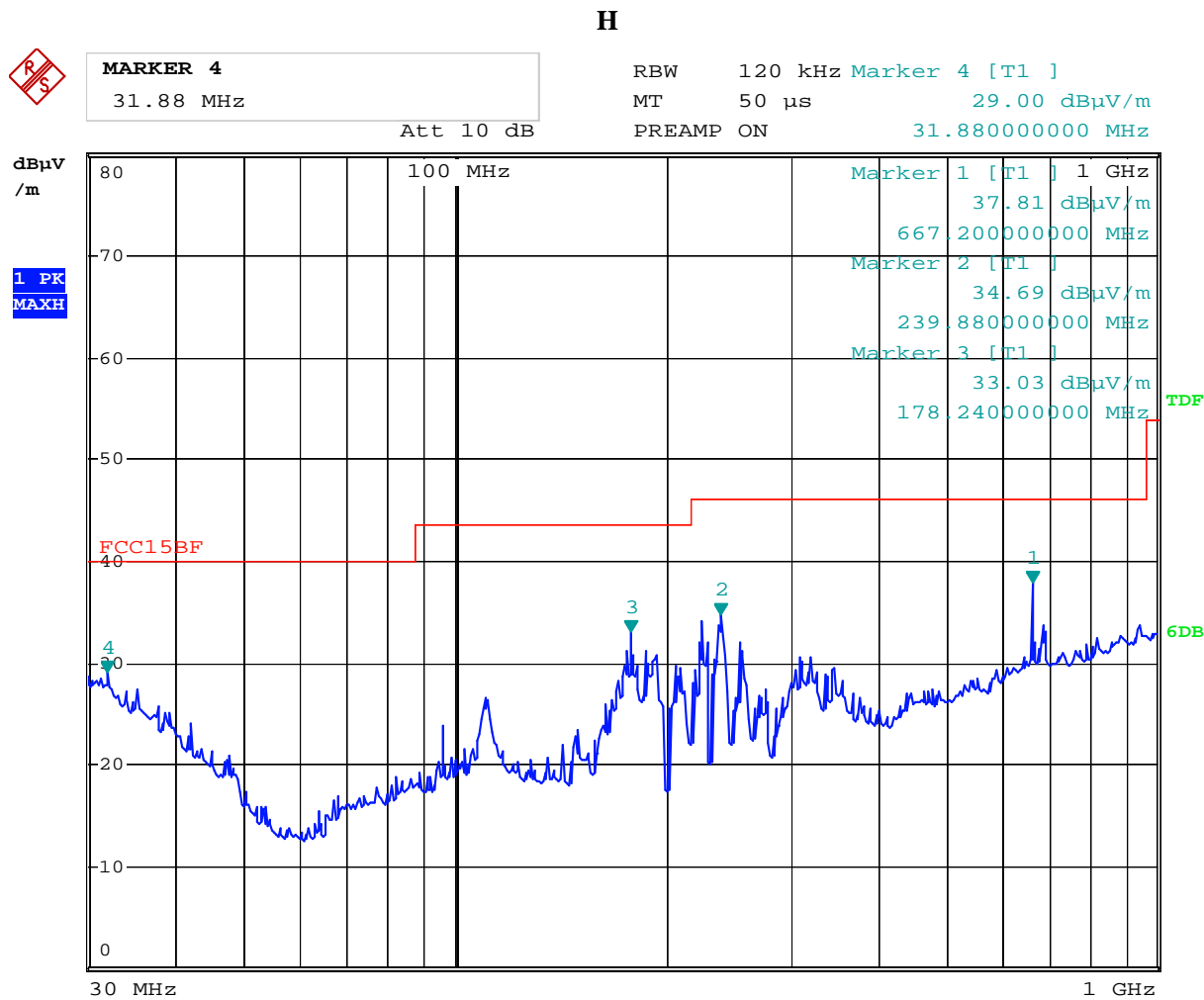
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Test Figure:



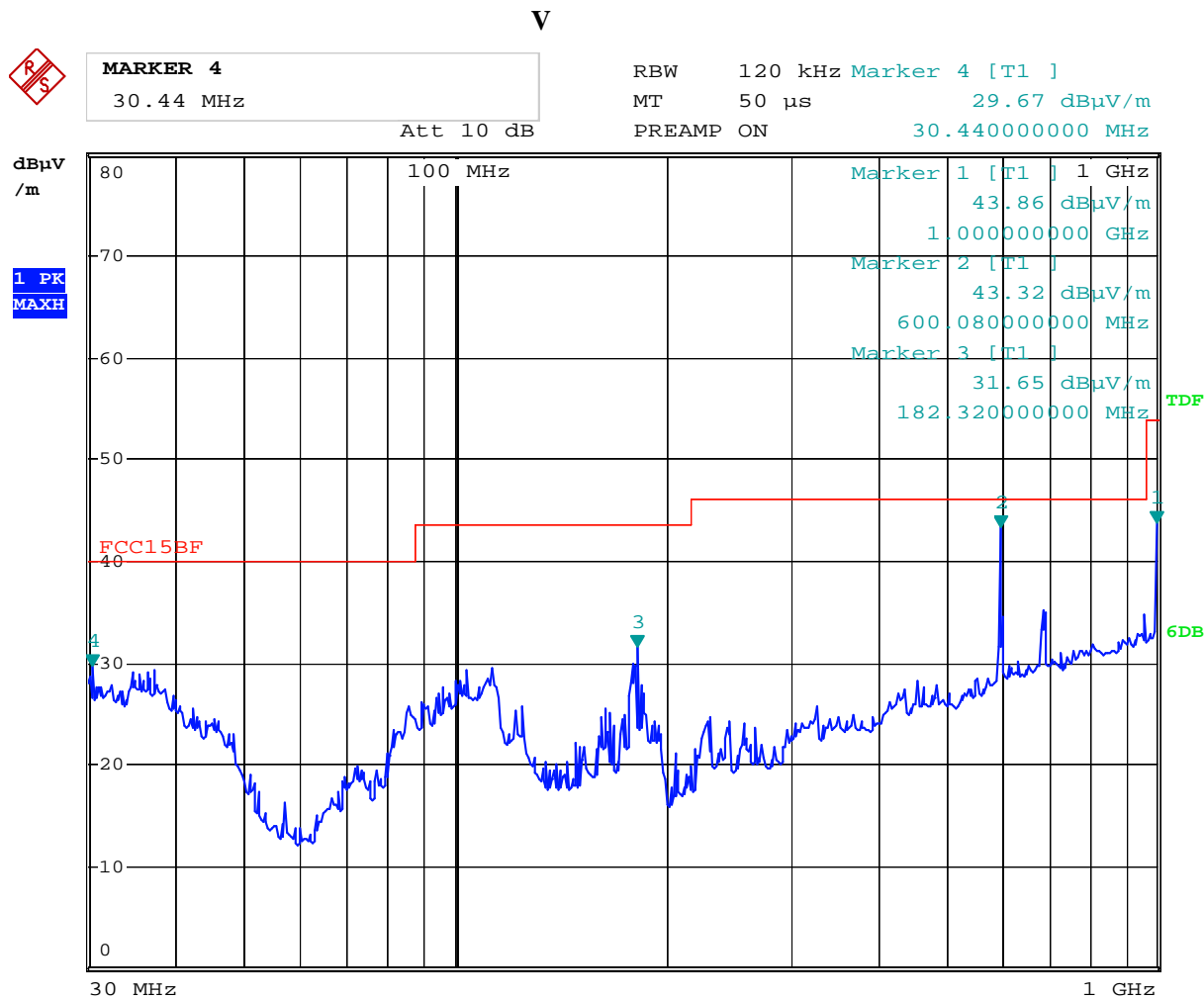
Date: 7.APR.2015 11:22:23

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Test Figure:



Date: 7.APR.2015 11:25:27

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**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal/ In Vertical (30MHz----1000MHz)**

**EUT set Condition: Running EMC test Program**

**Results: Pass**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
30.400	28.86	H	40.00
958.240	35.47	H	46.00
241.960	35.19	H	46.00
182.320	34.86	H	43.50
593.960	31.24	V	46.00
955.560	35.38	V	46.00
103.240	32.88	V	43.50
36.520	30.00	V	40.00

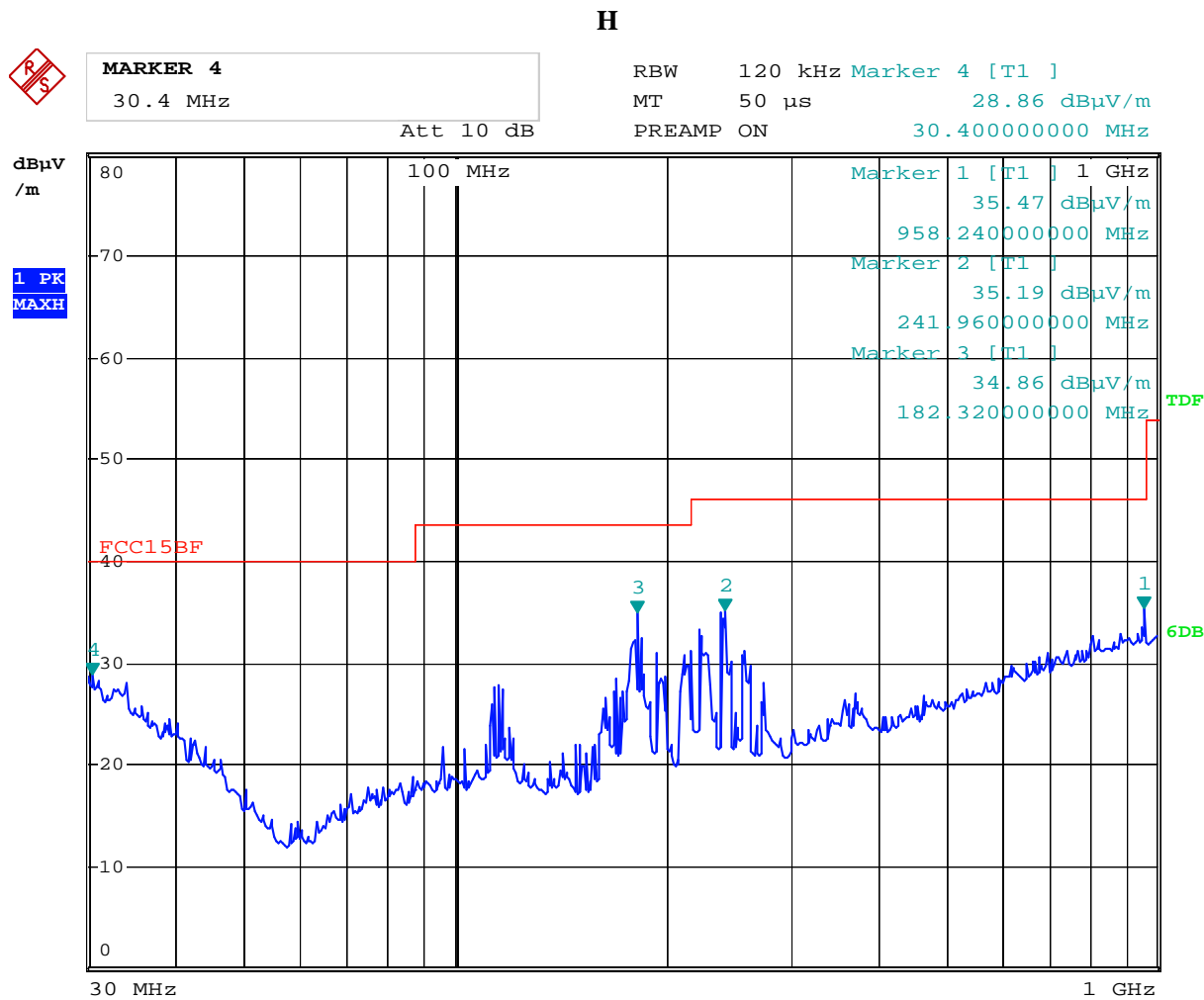
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Test Figure:

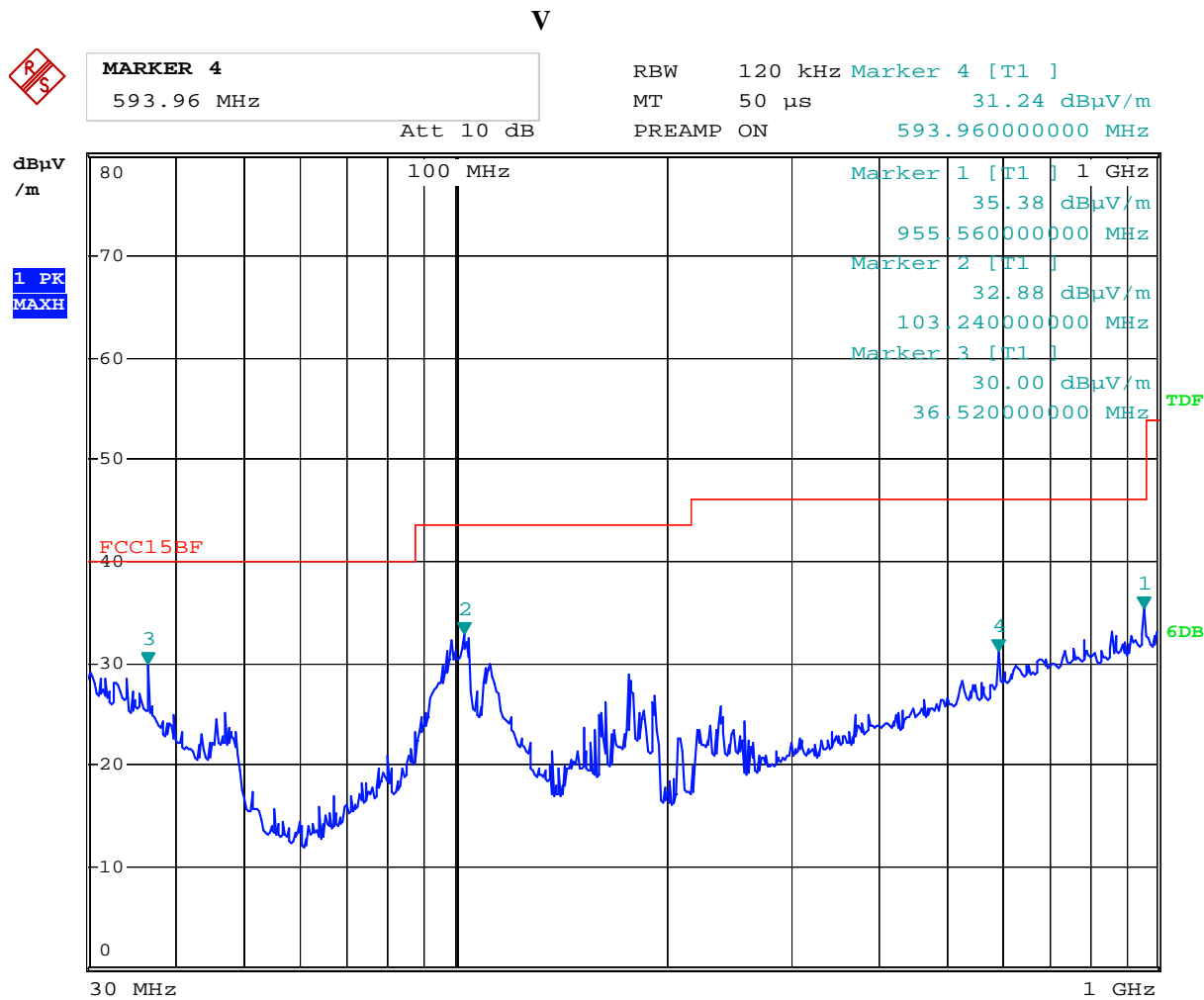


Date: 7.APR.2015 11:40:18

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Test Figure:



Date: 7.APR.2015 11:43:04

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**Radiated Disturbance (1000MHz---18000MHz)**

**EUT Operating Environment**

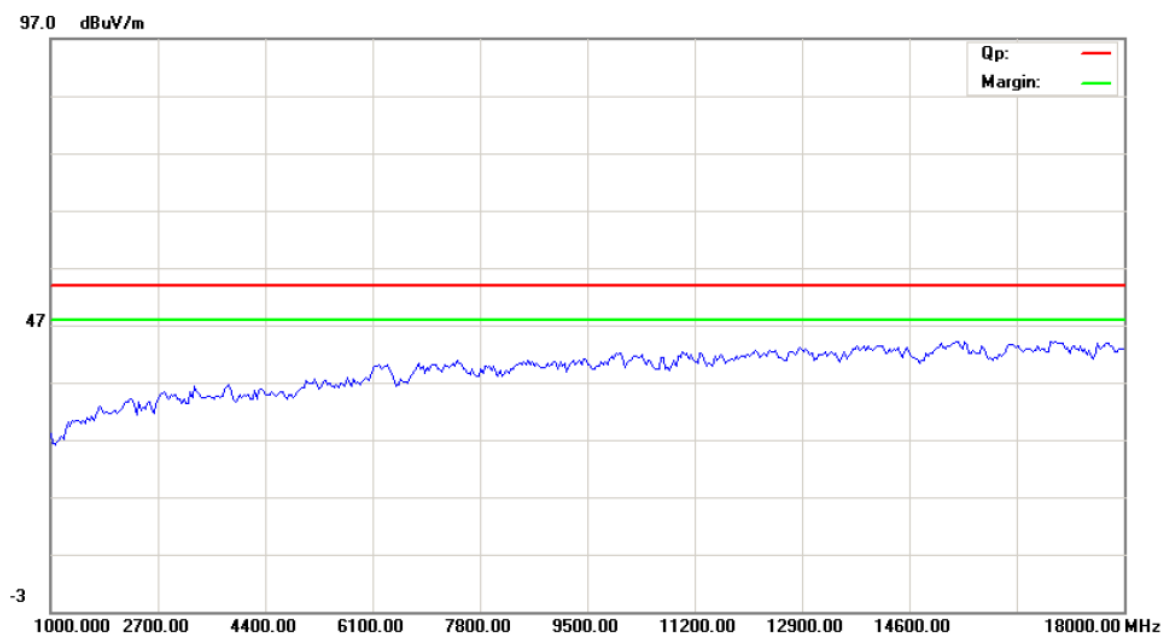
**Temperature:**25℃      **Humidity:** 75%RH      **Atmospheric Pressure:** 101 KPa

**EUT set Condition:** Camera On

**Equipment Level:** Class B

**Results:** Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	H	54(AV)

- Note: 1. Due to the final radiated level much less than the limit, so necessary take down final radiated level  
2. For radiated Emissions from 18-30GHz, it is only the floor noise.

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**Radiated Disturbance (1000MHz---18000MHz)**

**EUT Operating Environment**

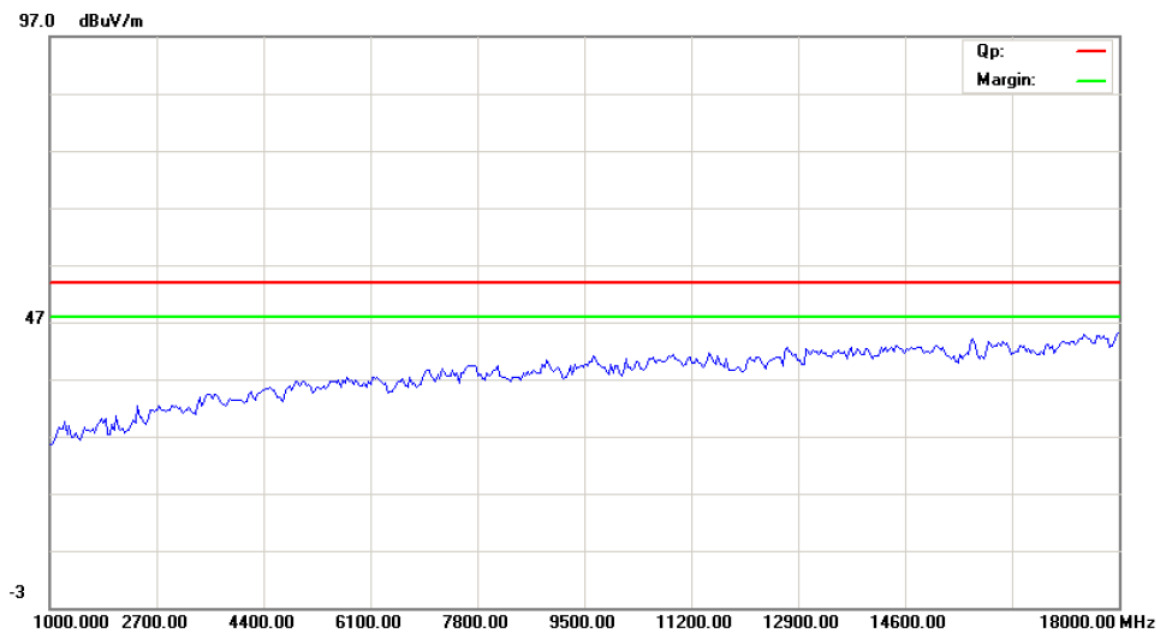
Temperature:25℃      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Camera On**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	V	54(AV)

- Note: 1. Due to the final radiated level much less than the limit, so necessary take down final radiated level  
2. For radiated Emissions from 18-30GHz, it is only the floor noise.

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**Radiated Disturbance (1000MHz---18000MHz)**

**EUT Operating Environment**

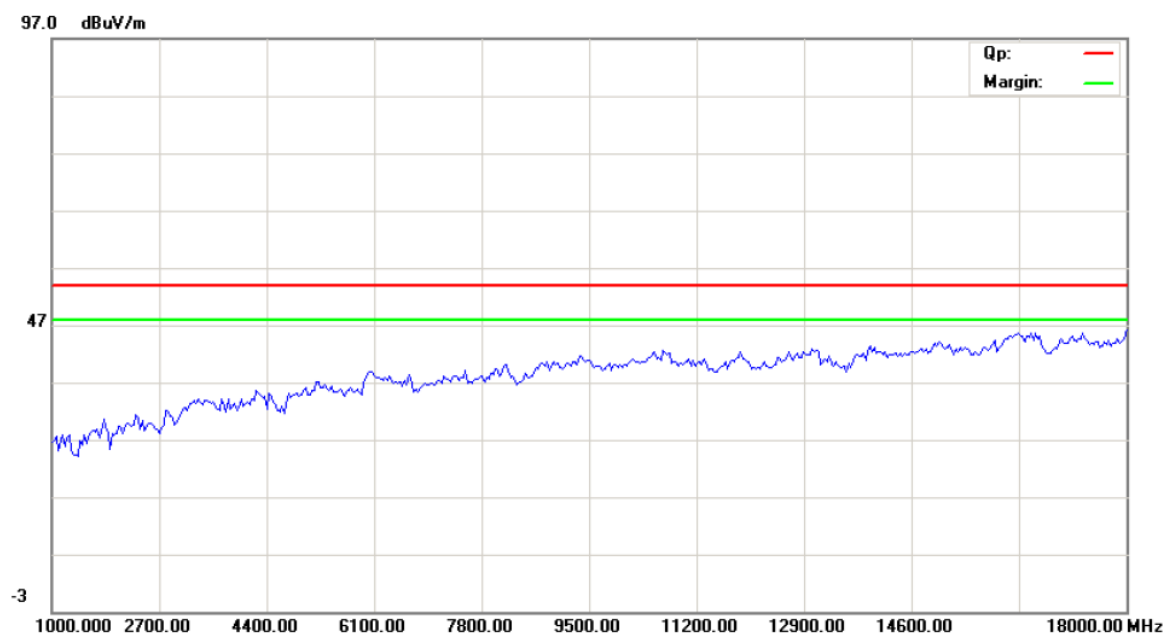
**Temperature:**25℃      **Humidity:** 75%RH      **Atmospheric Pressure:** 101 KPa

**EUT set Condition:** Play SD Card

**Equipment Level:** Class B

**Results:** Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	H	54(AV)

- Note: 1. Due to the final radiated level much less than the limit, so necessary take down final radiated level  
2. For radiated Emissions from 18-30GHz, it is only the floor noise.

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**Radiated Disturbance (1000MHz---18000MHz)**

**EUT Operating Environment**

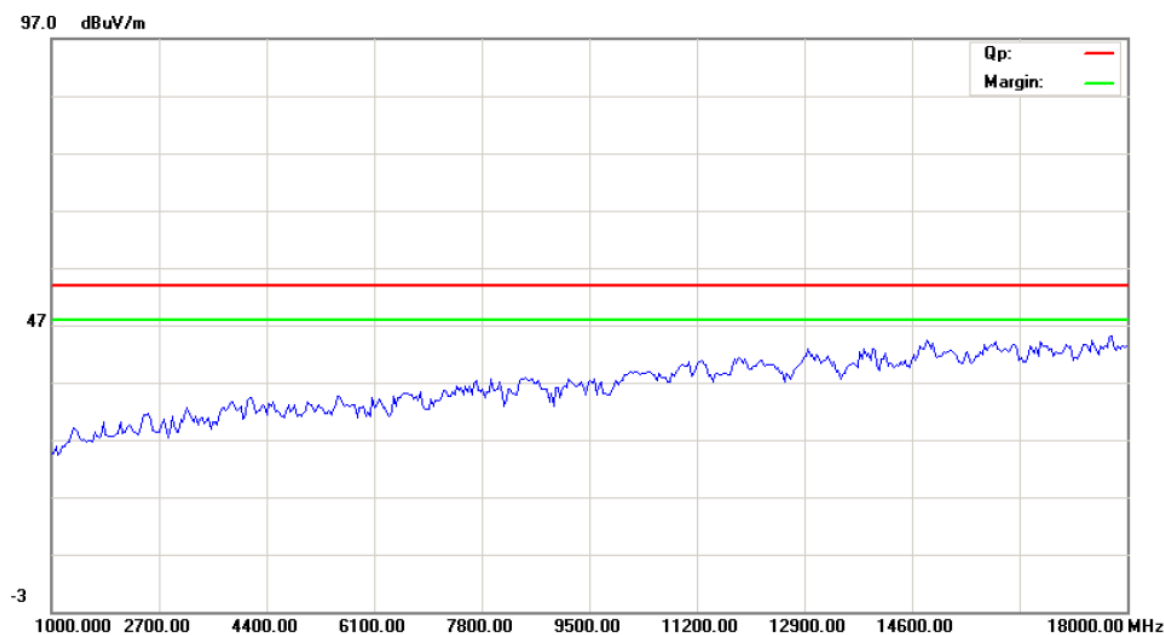
Temperature:25℃      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Play SD Card**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	V	54(AV)

- Note: 1. Due to the final radiated level much less than the limit, so necessary take down final radiated level  
2. For radiated Emissions from 18-30GHz, it is only the floor noise.

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**Radiated Disturbance (1000MHz---18000MHz)**

**EUT Operating Environment**

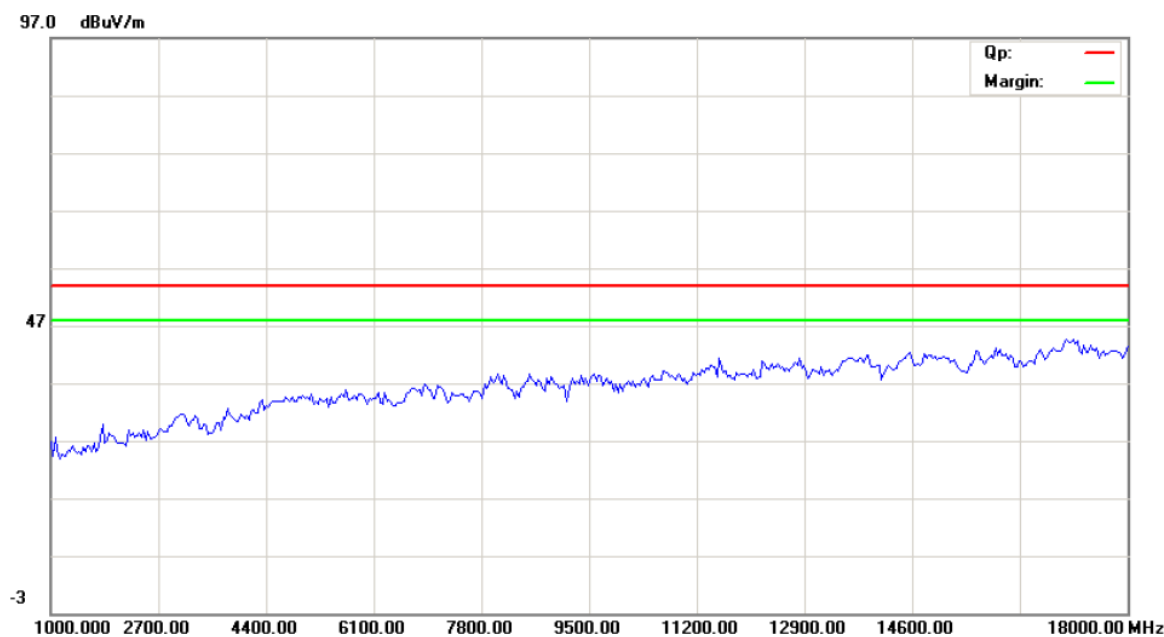
**Temperature:**25℃      **Humidity:** 75%RH      **Atmospheric Pressure:** 101 KPa

**EUT set Condition:** PlayUSB

**Equipment Level:** Class B

**Results:** Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	H	54(AV)

- Note: 1. Due to the final radiated level much less than the limit, so necessary take down final radiated level  
2. For radiated Emissions from 18-30GHz, it is only the floor noise.

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**Radiated Disturbance (1000MHz---18000MHz)**

**EUT Operating Environment**

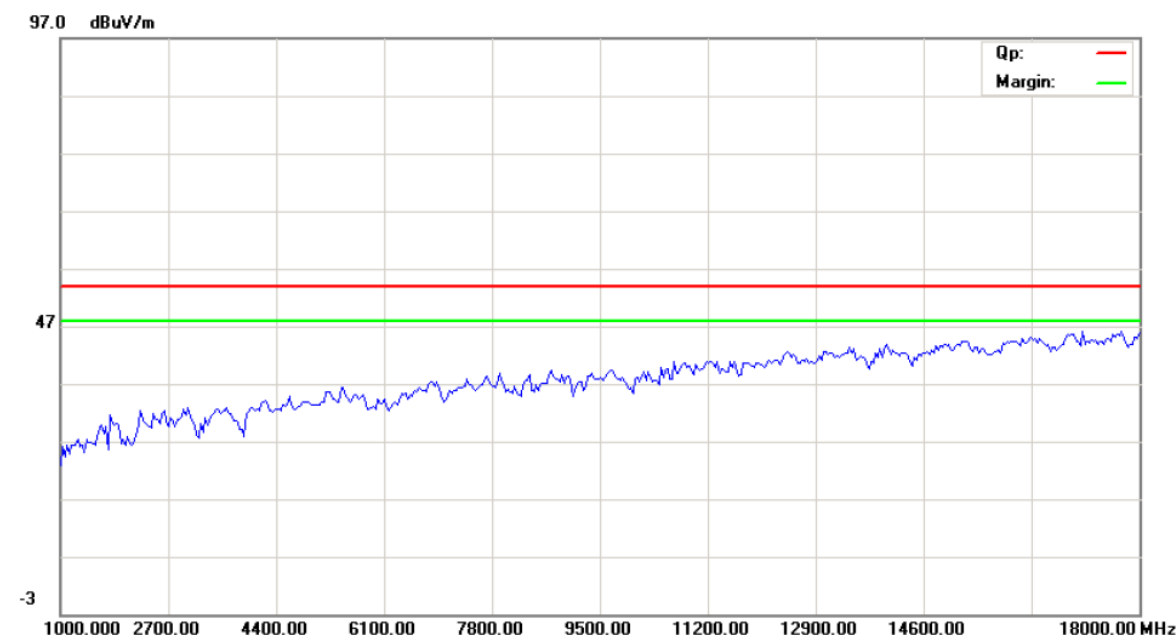
Temperature:25℃      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Play USB**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	V	54(AV)

Note: 1. Due to the final radiated level much less than the limit, so necessary take down final radiated level  
2. For radiated Emissions from 18-30GHz, it is only the floor noise.

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**Radiated Disturbance (1000MHz---18000MHz)**

**EUT Operating Environment**

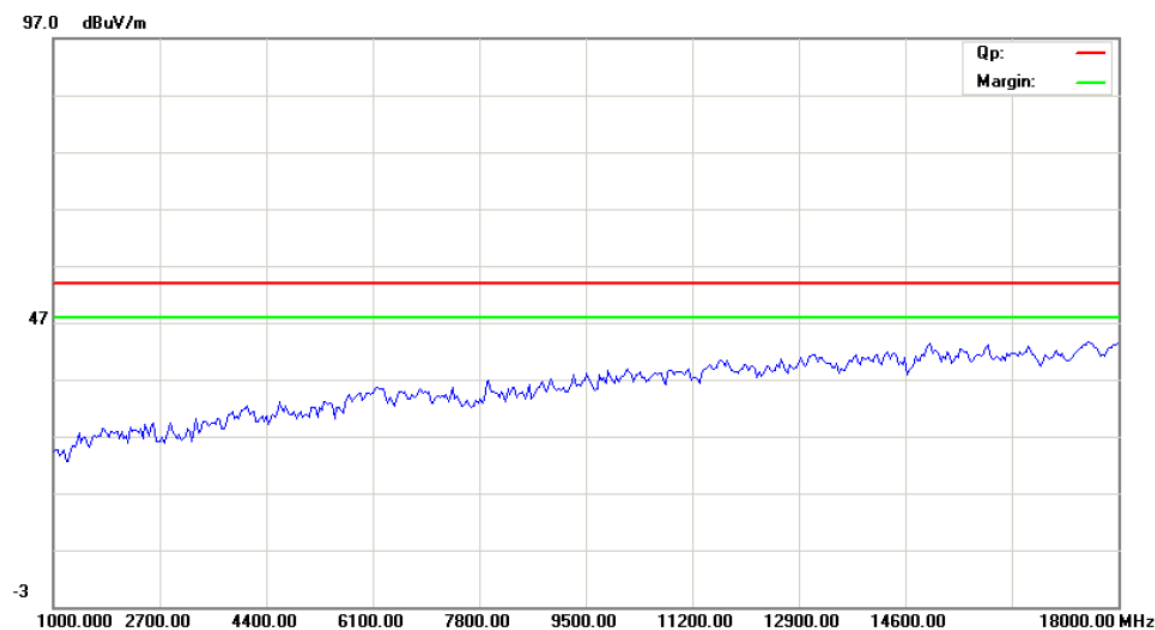
**Temperature:**25℃      **Humidity:** 75%RH      **Atmospheric Pressure:** 101 KPa

**EUT set Condition:** Play Memory

**Equipment Level:** Class B

**Results:** Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	H	54(AV)

Note: 1. Due to the final radiated level much less than the limit, so necessary take down final radiated level  
2. For radiated Emissions from 18-30GHz, it is only the floor noise.

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**Radiated Disturbance (1000MHz---18000MHz)**

**EUT Operating Environment**

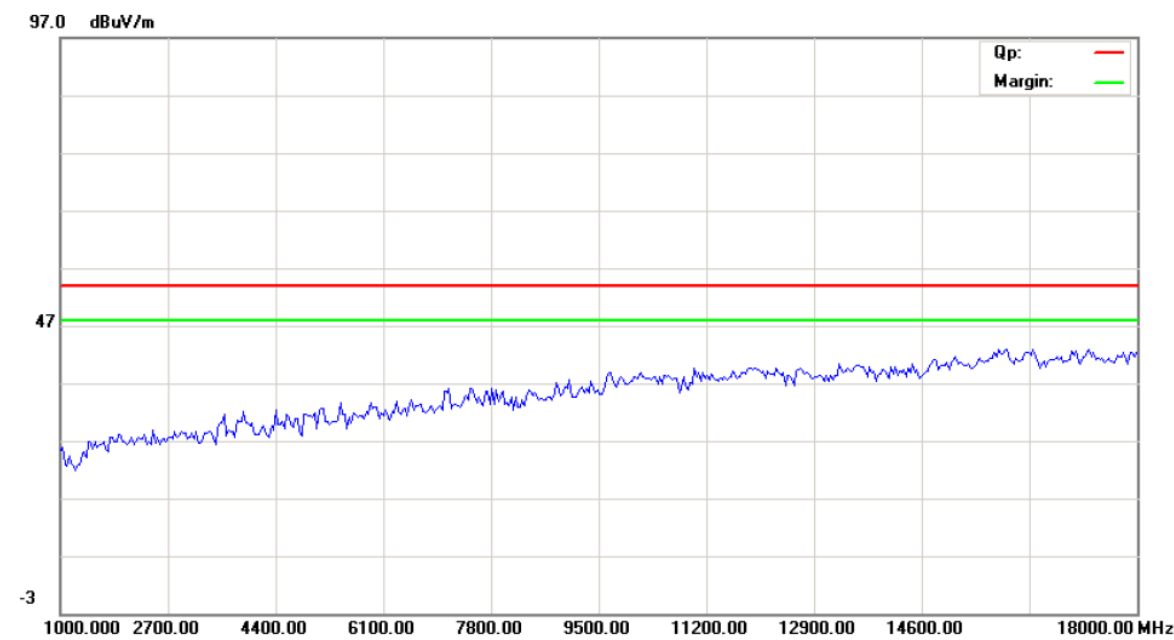
Temperature:25℃      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Play Memory**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	V	54(AV)

Note: 1. Due to the final radiated level much less than the limit, so necessary take down final radiated level  
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**Radiated Disturbance (1000MHz---18000MHz)**

**EUT Operating Environment**

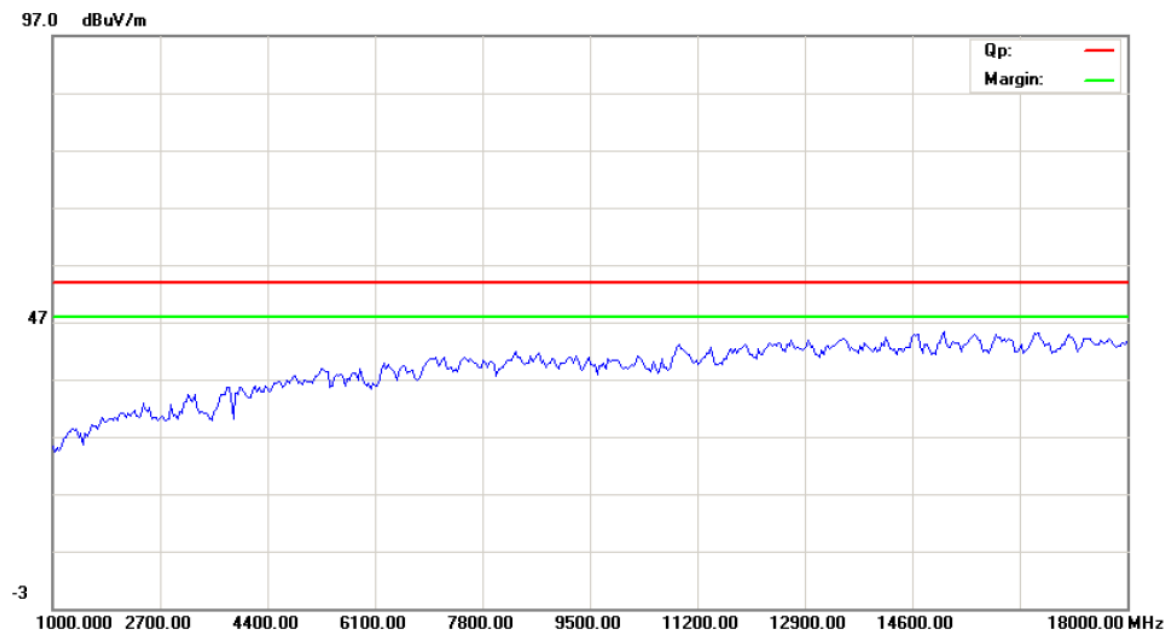
**Temperature:**25℃      **Humidity:** 75%RH      **Atmospheric Pressure:** 101 KPa

**EUT set Condition:** Running EMC test Program

**Equipment Level:** Class B

**Results:** Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	H	54(AV)

Note: 1. Due to the final radiated level much less than the limit, so necessary take down final radiated level  
2. For radiated Emissions from 18-30GHz, it is only the floor noise.

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**Radiated Disturbance (1000MHz---18000MHz)**

**EUT Operating Environment**

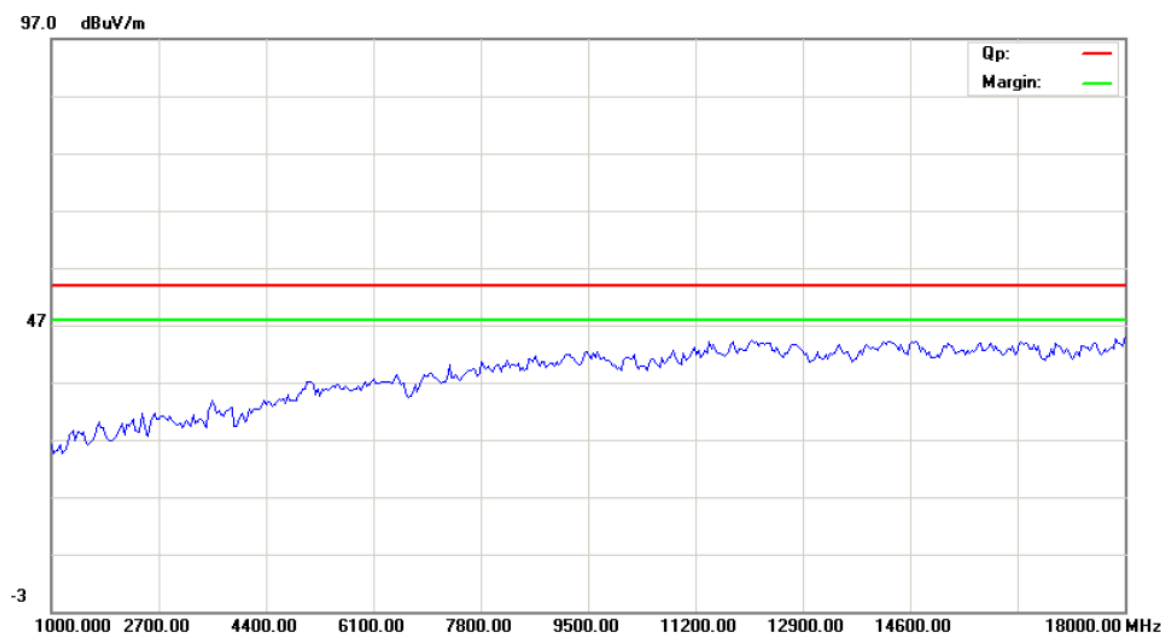
Temperature:25℃      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Running EMC test Program**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	V	54(AV)

Note: 1. Due to the final radiated level much less than the limit, so necessary take down final radiated level  
2. For radiated Emissions from 18-30GHz, it is only the floor noise.

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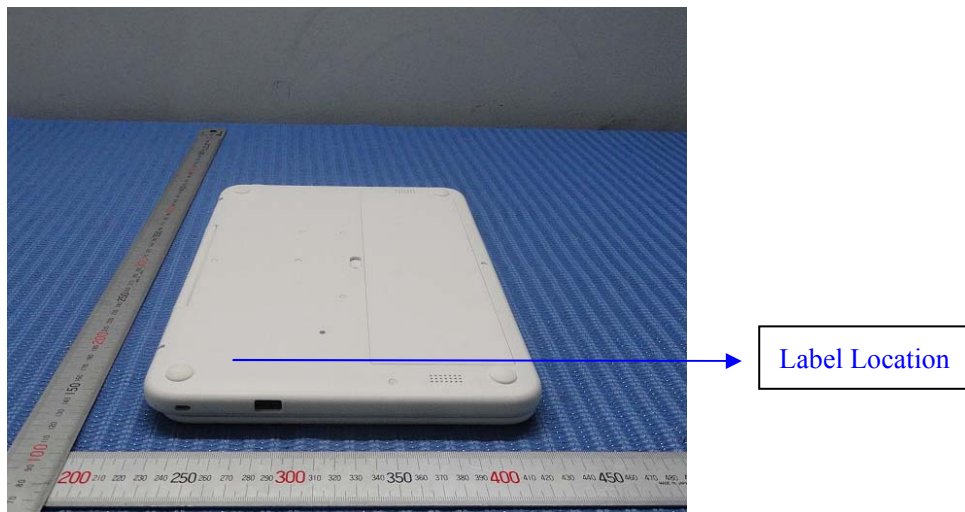
## 6.0 FCC ID Label

### FCC ID: RH2-HR-116E

**This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



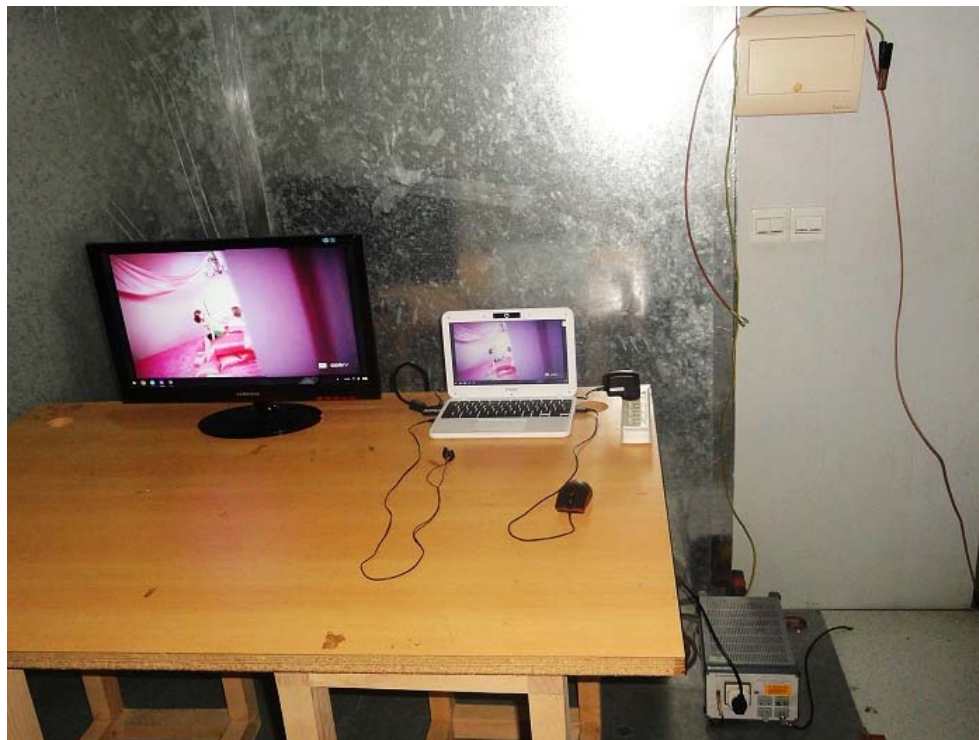
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7.0 Photo of testing

7.1 Conducted test View--



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7.2 Radiated emission test view--



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### Photos of EUT



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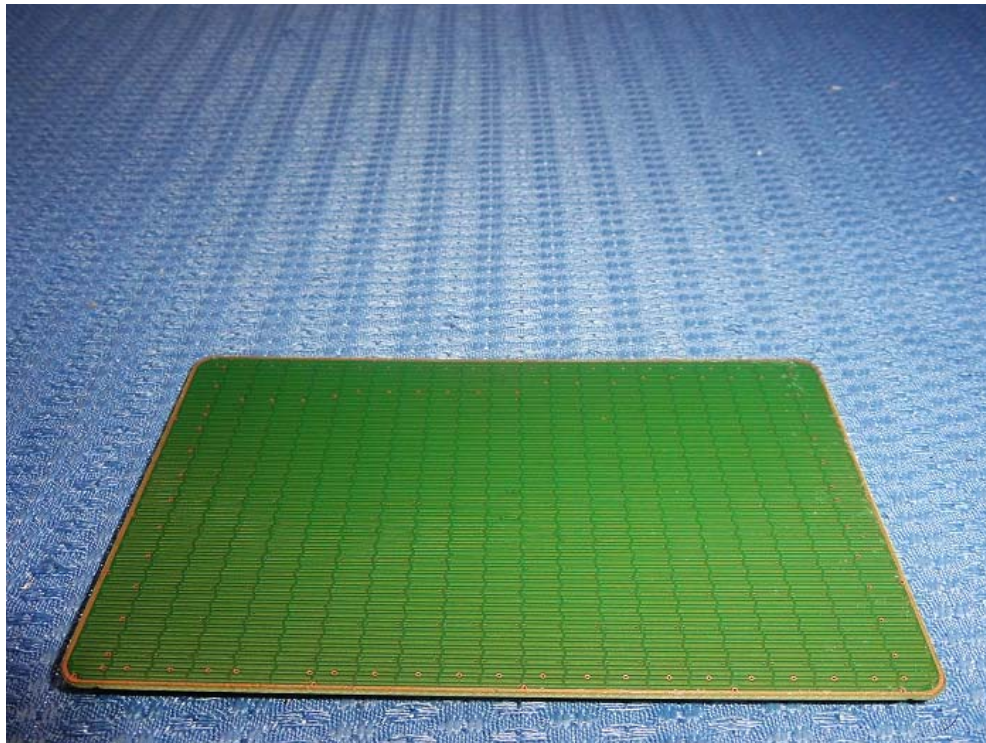
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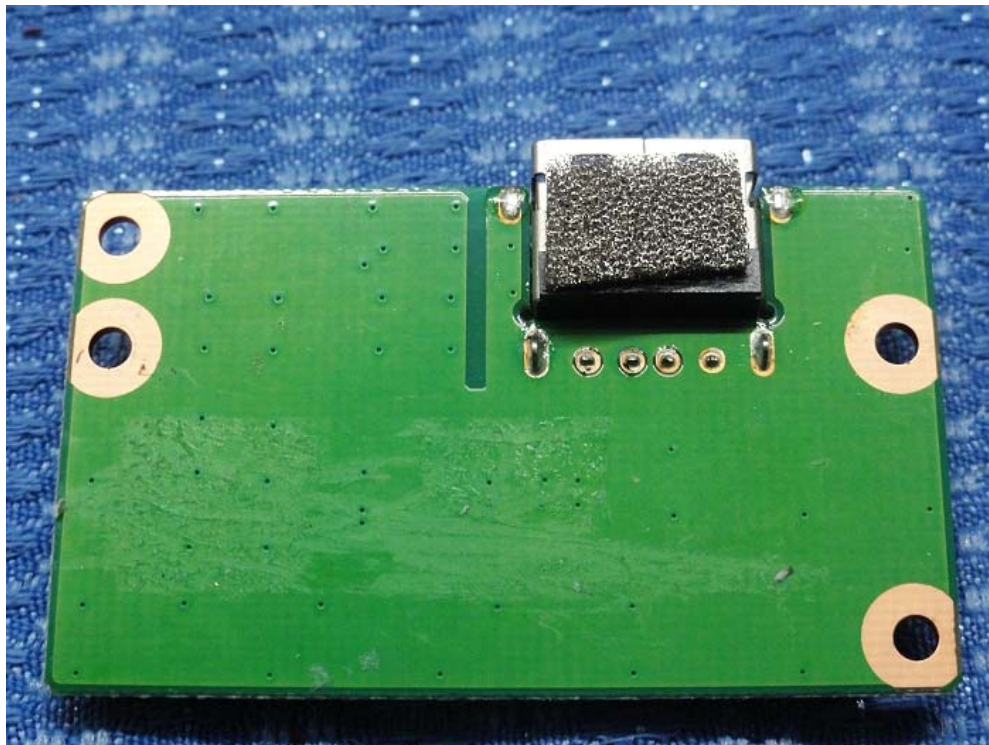
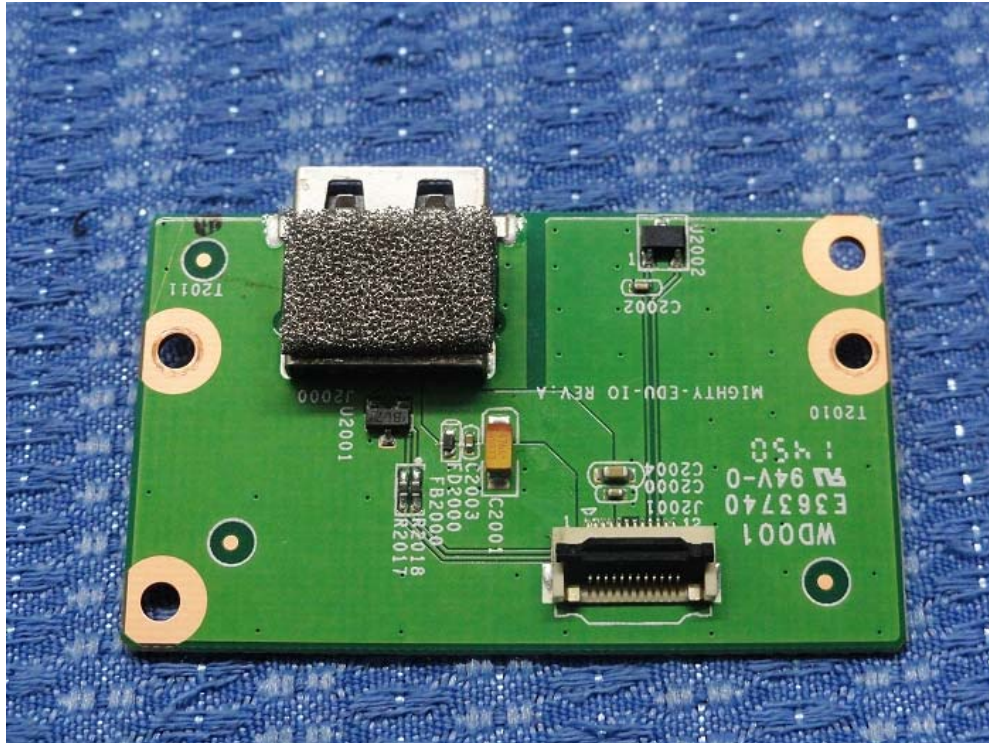
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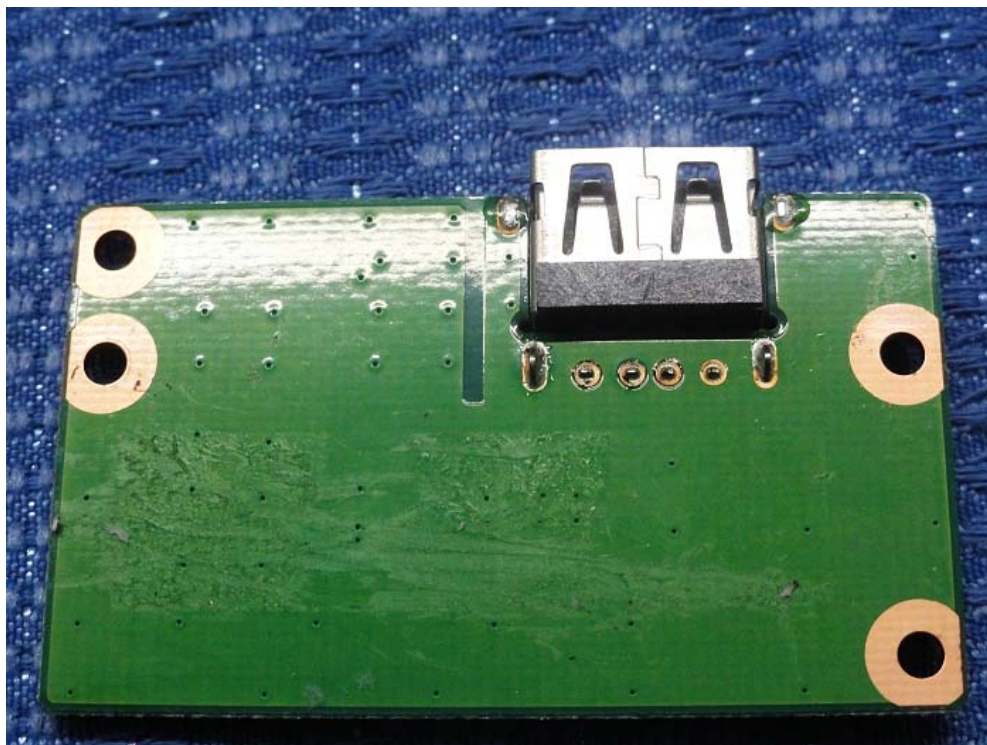
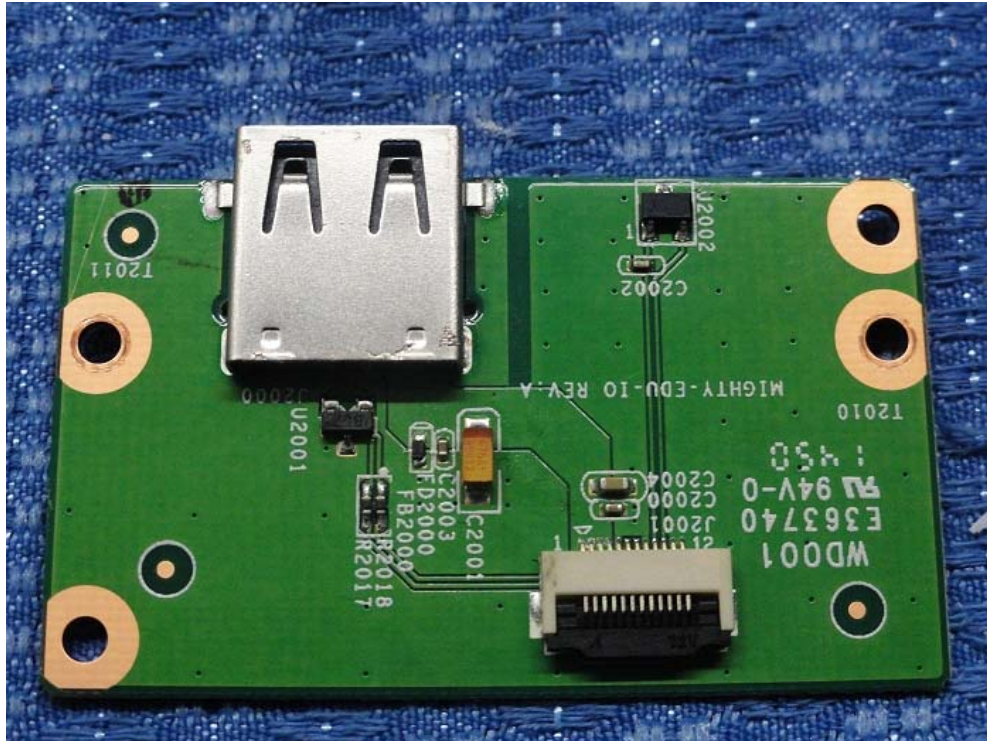
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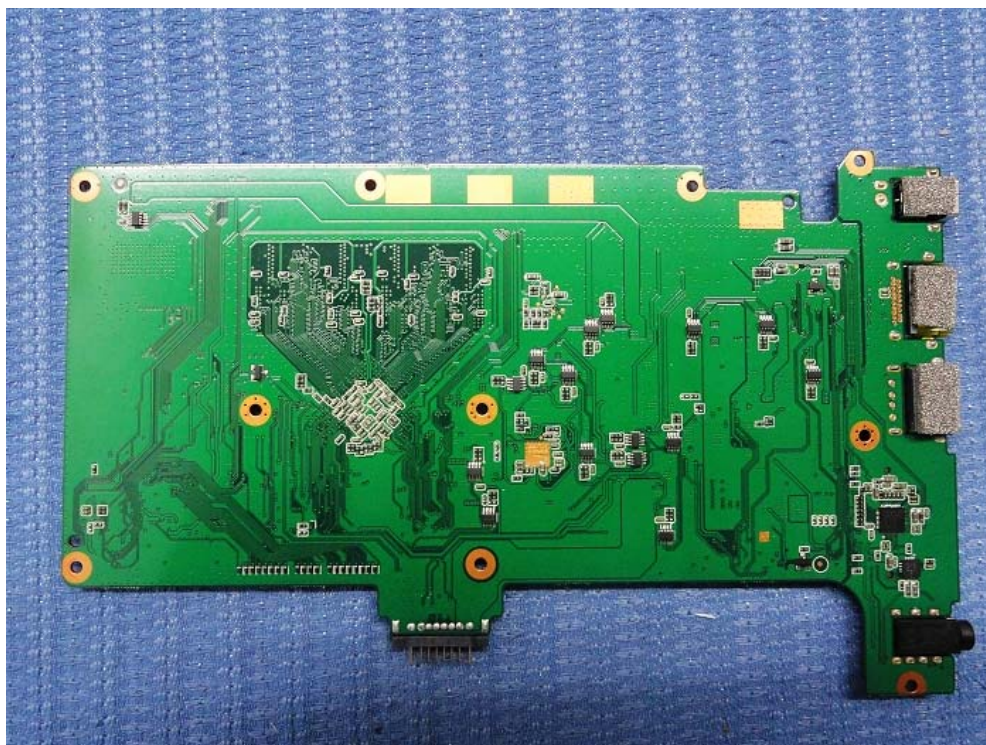
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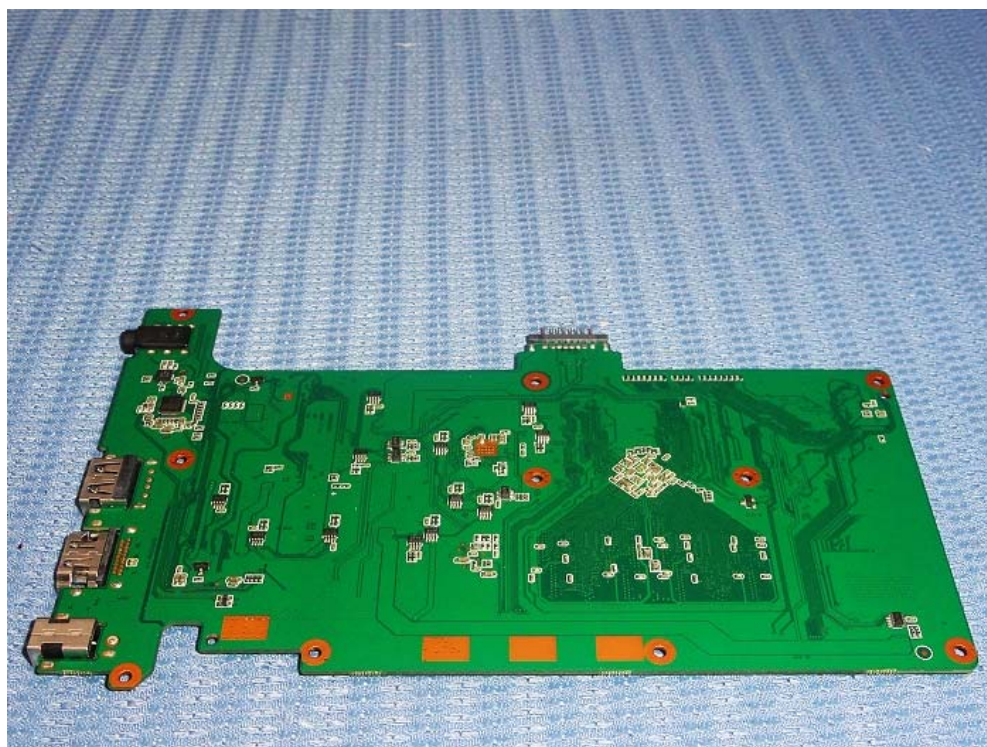
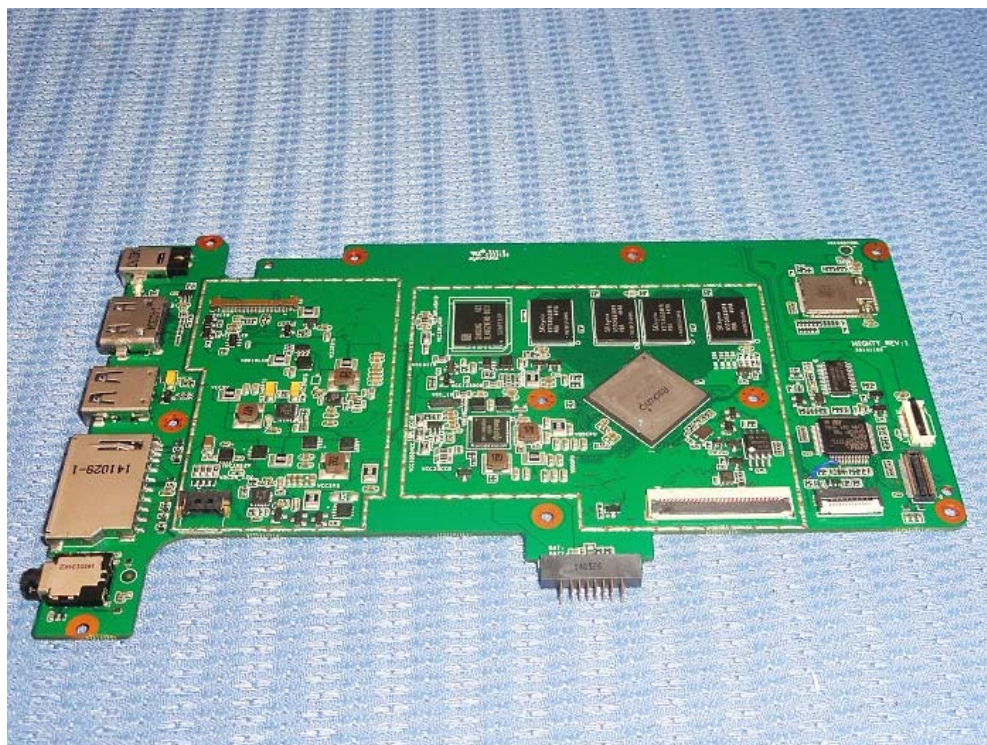
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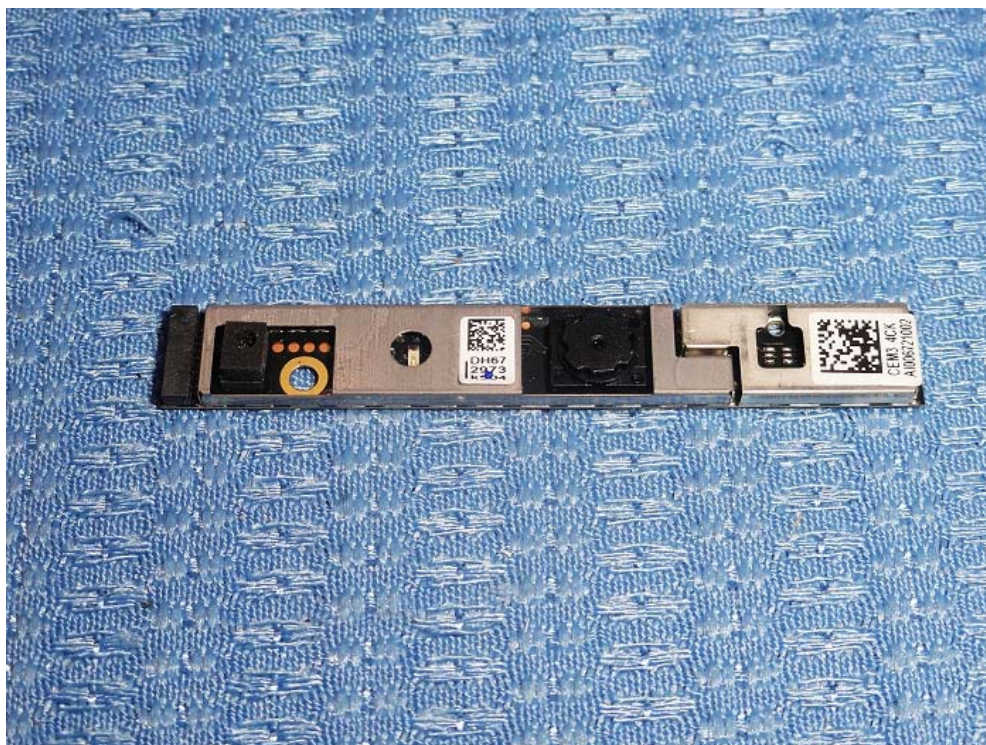
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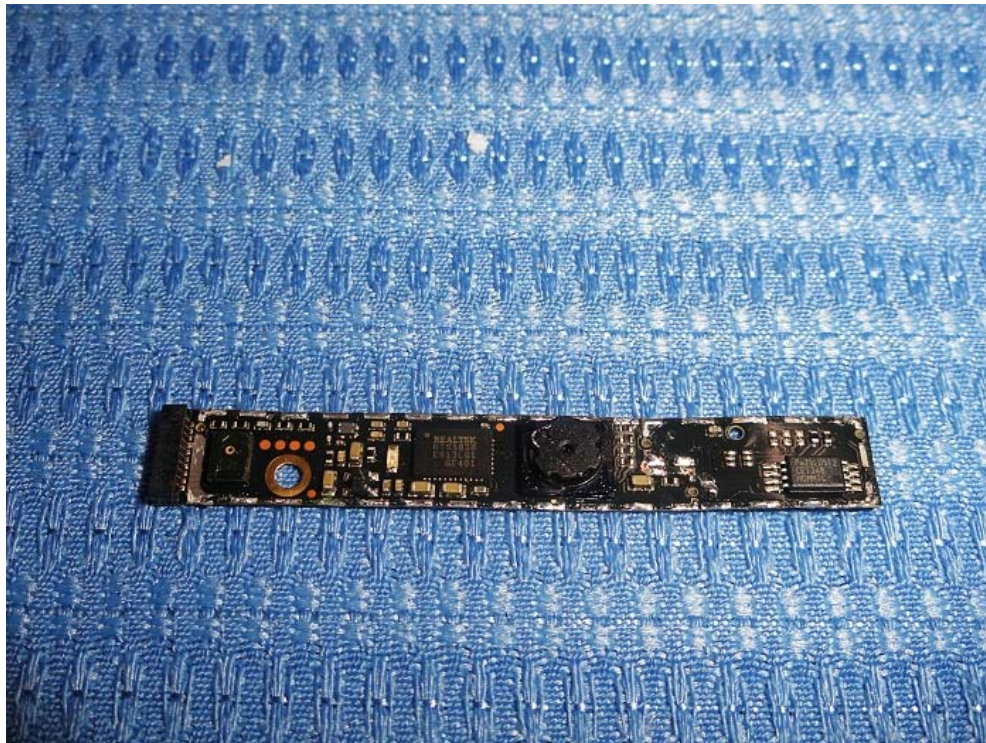
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**-End of the report-**

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