



ISO/IEC17025 Accredited Lab.

Report No: FCC 1503136

File reference No: 2015-04-01

Applicant: Haier international(hk) limited

Product: Chromebook

Model No: HR-116R (Brand is Haier) , Xolo Chromebook (Brand is Xolo)

Trademark: Haier, Xolo

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 01, 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

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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, Xolo
Model Number: HR-116R (Brand is Haier)
Additional Model Number: Xolo Chromebook (Brand is Xolo)
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: 2015-03-19 to 2015-03-31

1.6 Test Uncertainty

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

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1.7 Test Engineer

The sample tested by

Terry Tong

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	
Pre-test Mode	Description
Mode1	Camera On
Mode3	Play USB
Mode5	Running EMC test Program

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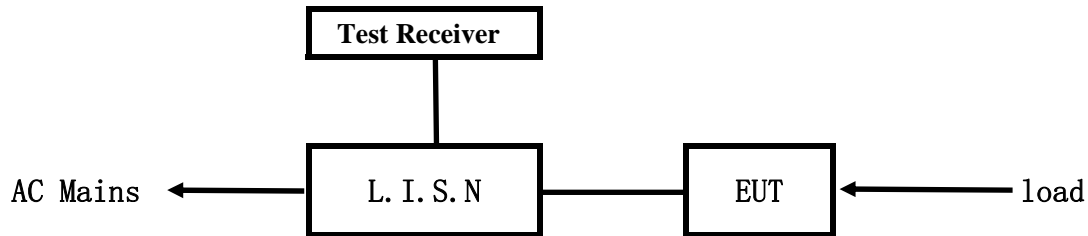
For Radiated Emissions Test	
Pre-test Mode	Description
Mode1	Camera On
Mode2	Play SD Card
Mode3	Play USB
Mode4	Play Memory
Mode5	Running EMC test Program

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



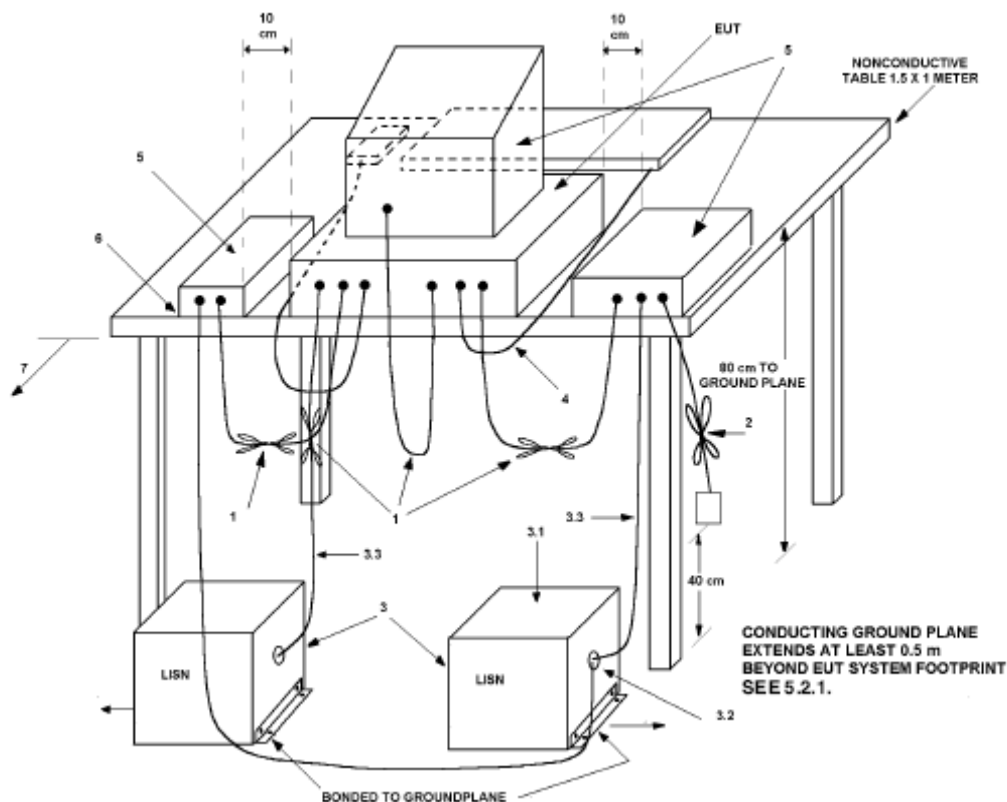
EUT: Equipment Under Test

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

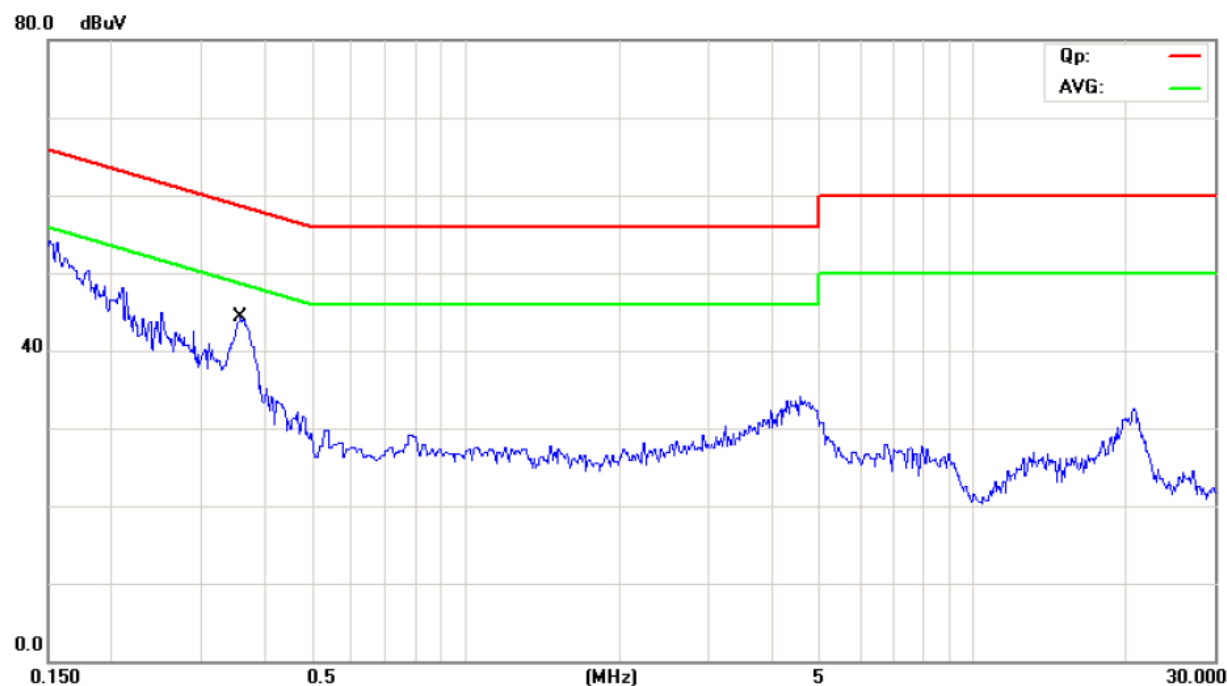
- Notes:
1. *decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

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.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3605	30.30	11.22	41.52	58.72	-17.20	QP	
2	*	0.3605	23.10	11.22	34.32	48.72	-14.40	AVG	

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

EUT Operating Environment

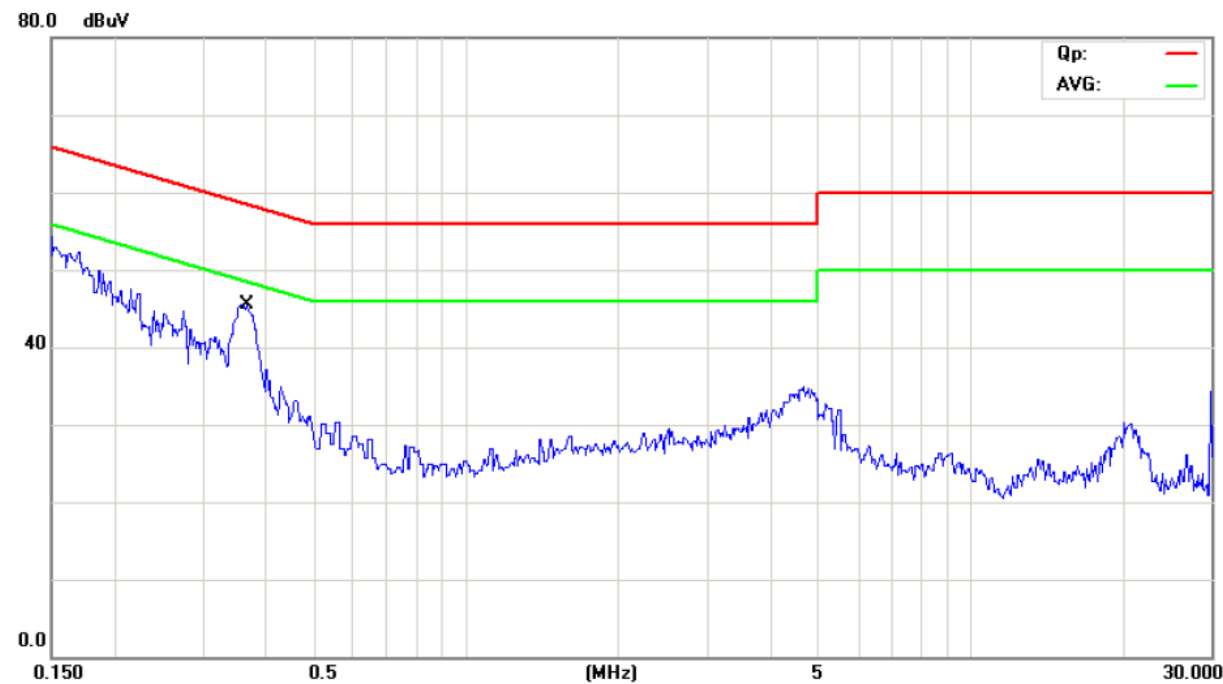
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Camera On

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual

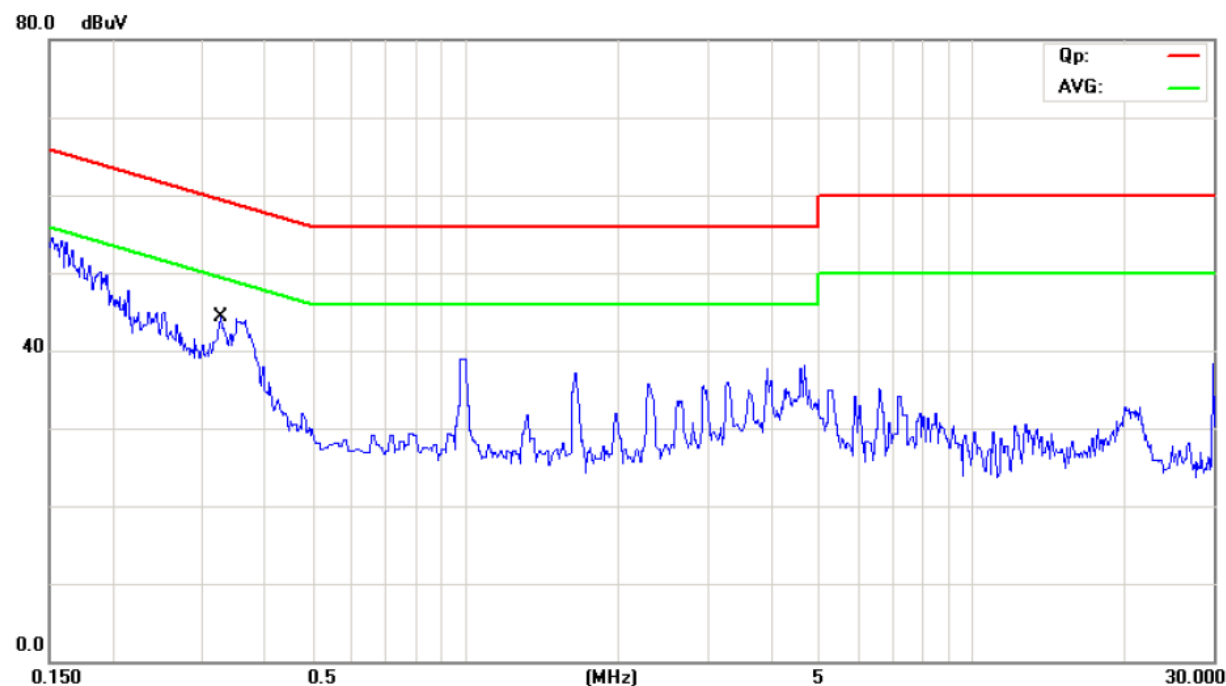


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3636	32.10	11.23	43.33	58.65	-15.32	QP	
2	*	0.3636	26.30	11.23	37.53	48.65	-11.12	AVG	

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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 USB
Equipment Level: Class B
Results: PASS
Please refer to following diagram for individual

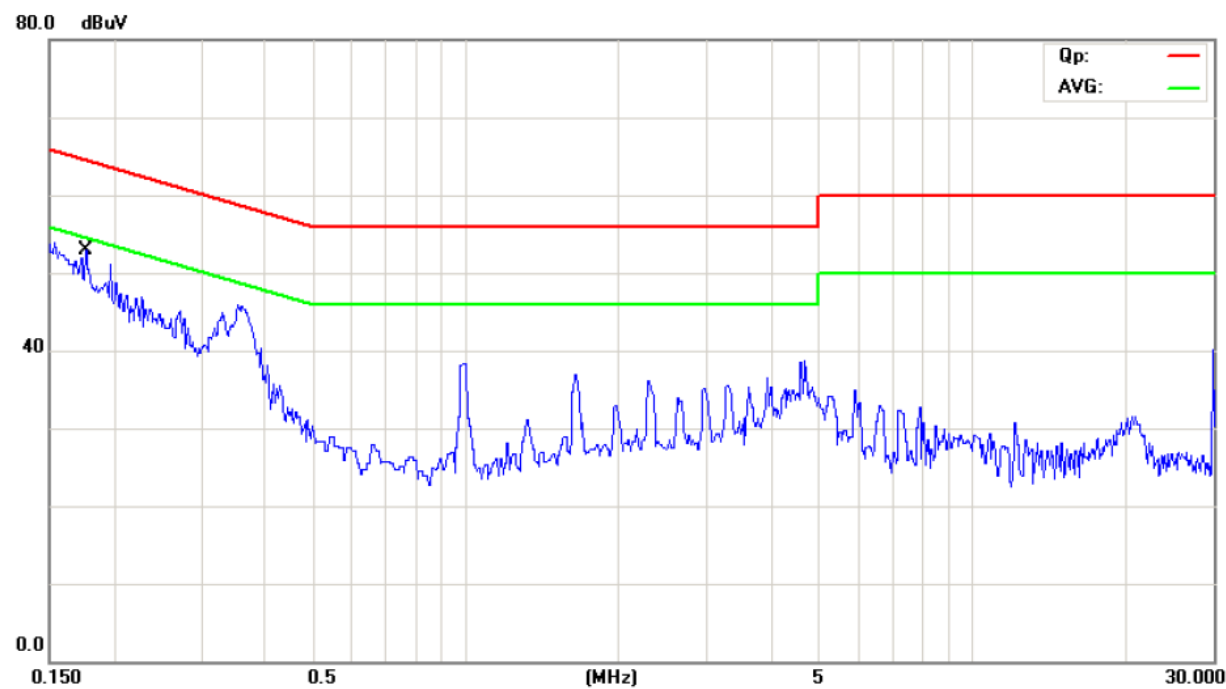


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3271	29.10	11.19	40.29	59.52	-19.23	QP	
2	*	0.3271	27.20	11.19	38.39	49.52	-11.13	AVG	

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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 USB
Equipment Level: Class B
Results: Pass
Please refer to following diagram for individual

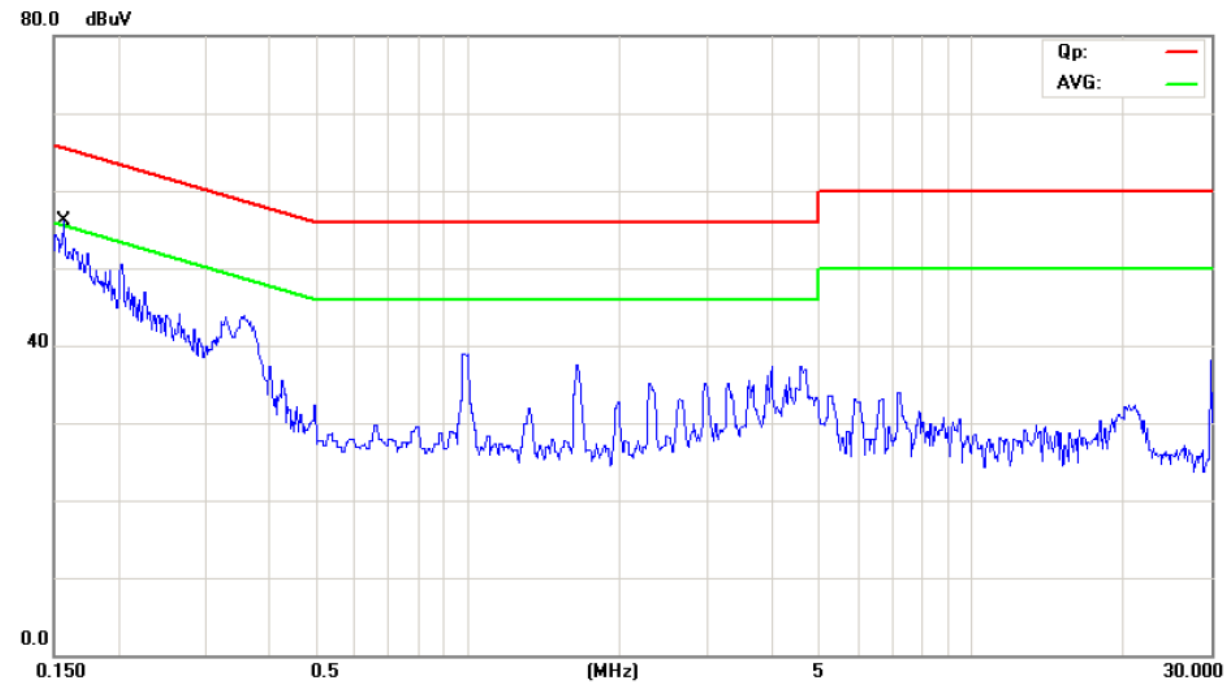


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1763	33.50	11.03	44.53	64.66	-20.13	QP	

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E: Conducted Emission on Live Terminal (150kHz to 30MHz)
EUT Operating Environment
Temperature: 26℃ 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

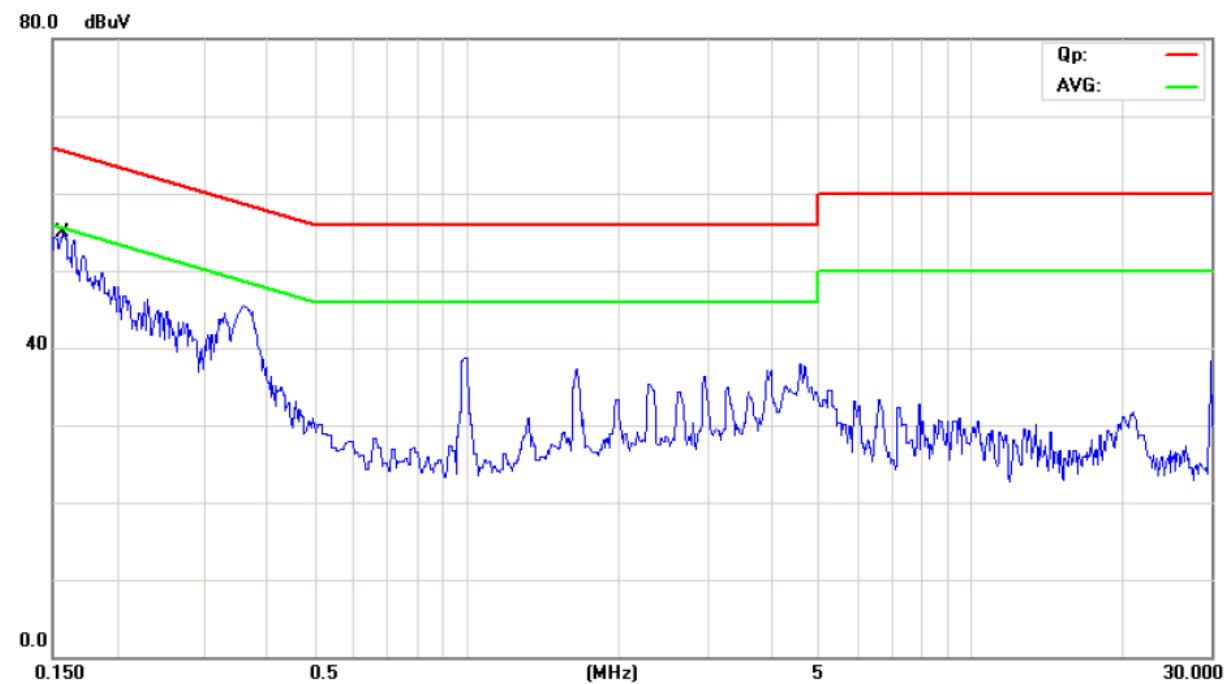


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1564	37.20	11.01	48.21	65.65	-17.44	QP	
2		0.1564	18.70	11.01	29.71	55.65	-25.94	AVG	

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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

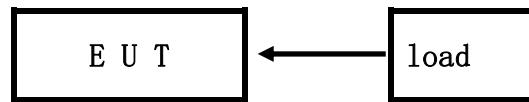


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1564	37.60	11.01	48.61	65.65	-17.04	QP	
2		0.1564	17.00	11.01	28.01	55.65	-27.64	AVG	

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5.0 Radiated Disturbance Test

5.1 Schematics of the test

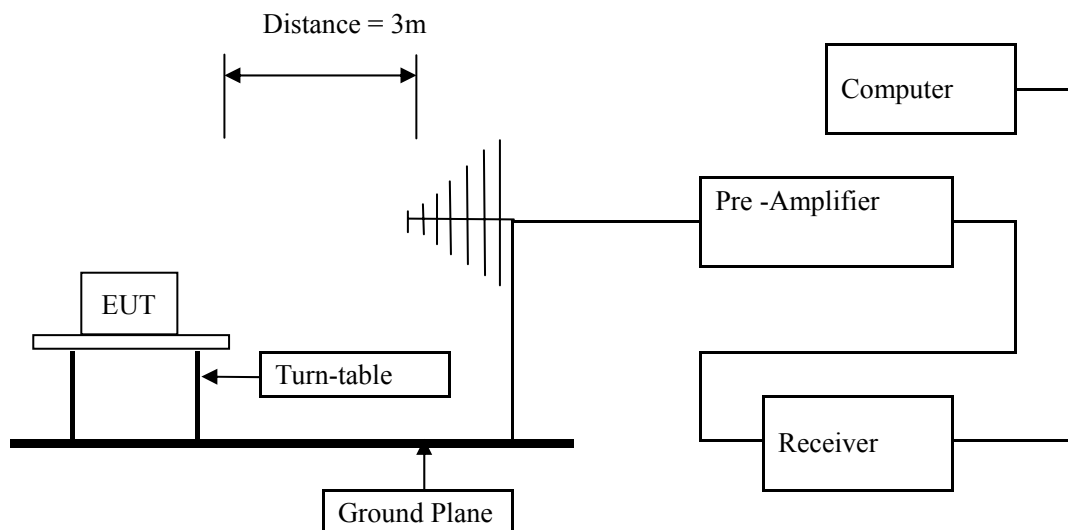


5.2 Test Method and test Procedure:

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

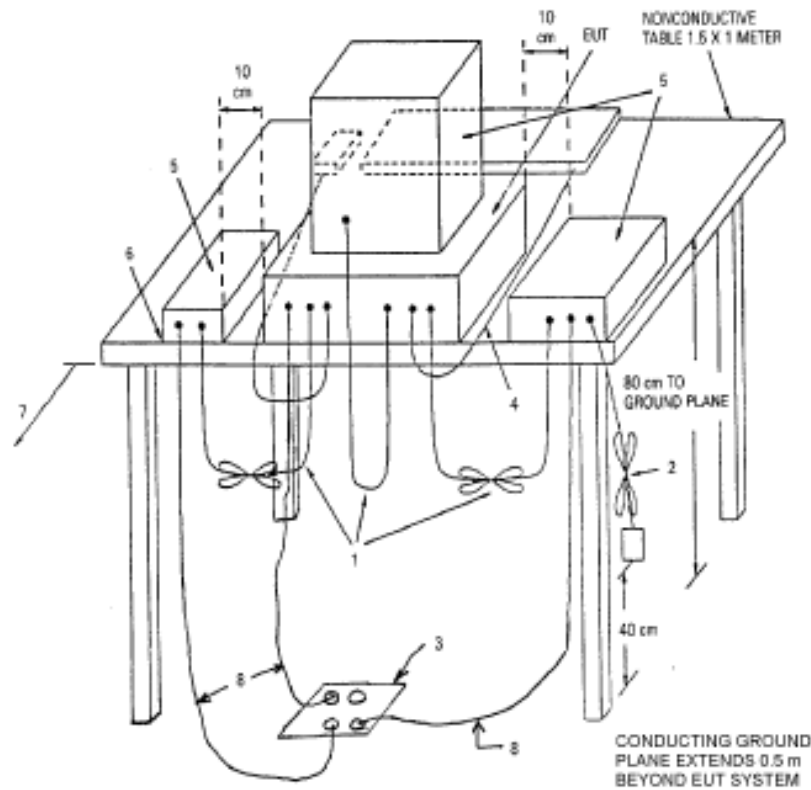
Block diagram of Test setup



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5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB μ 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 μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
30.080	31.00	H	40.00
873.520	35.79	H	46.00
30.04	31.48	V	40.00
875.560	35.33	V	46.00

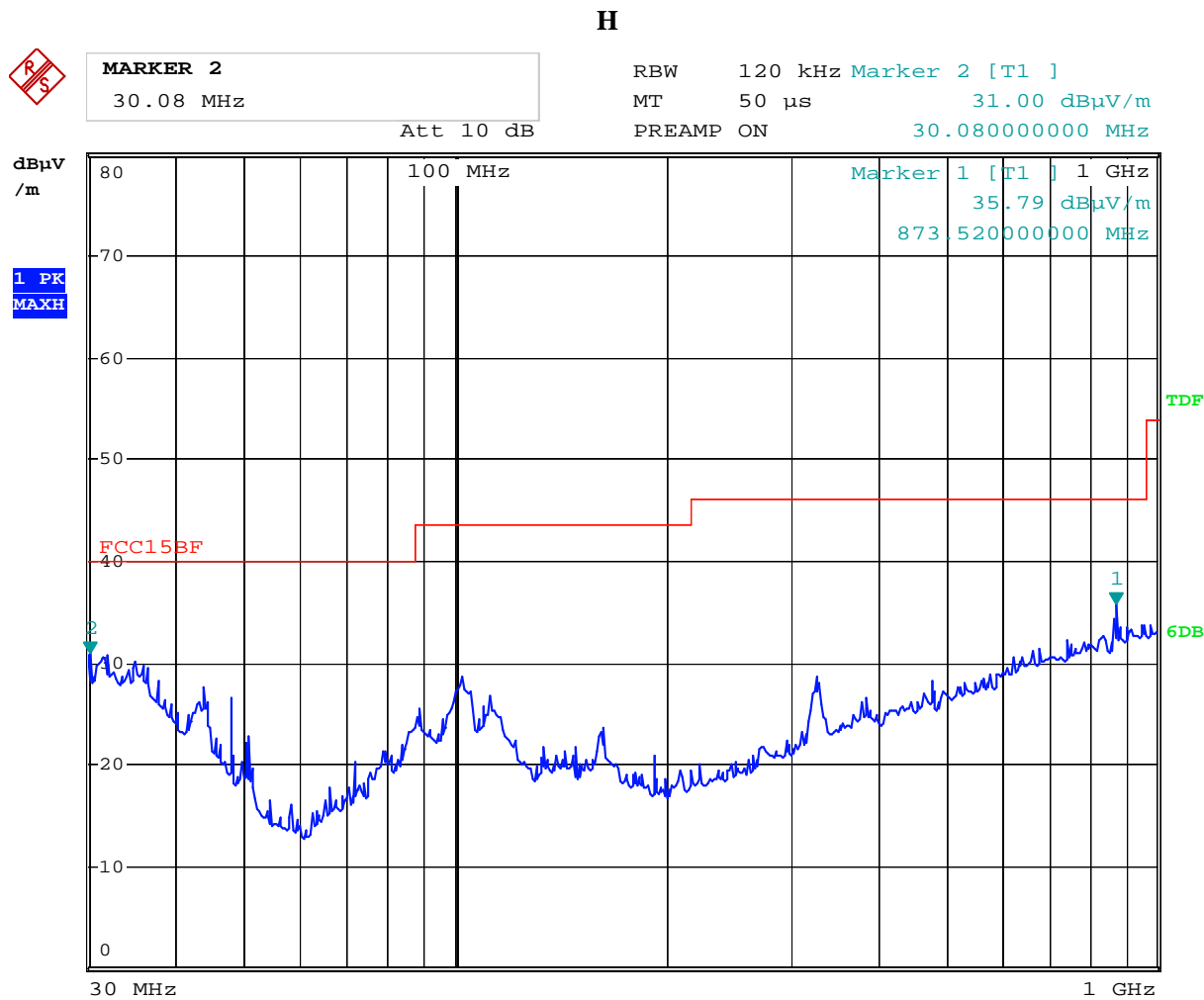
The report refers only to the sample tested and does not apply to the bulk.

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Test Figure:

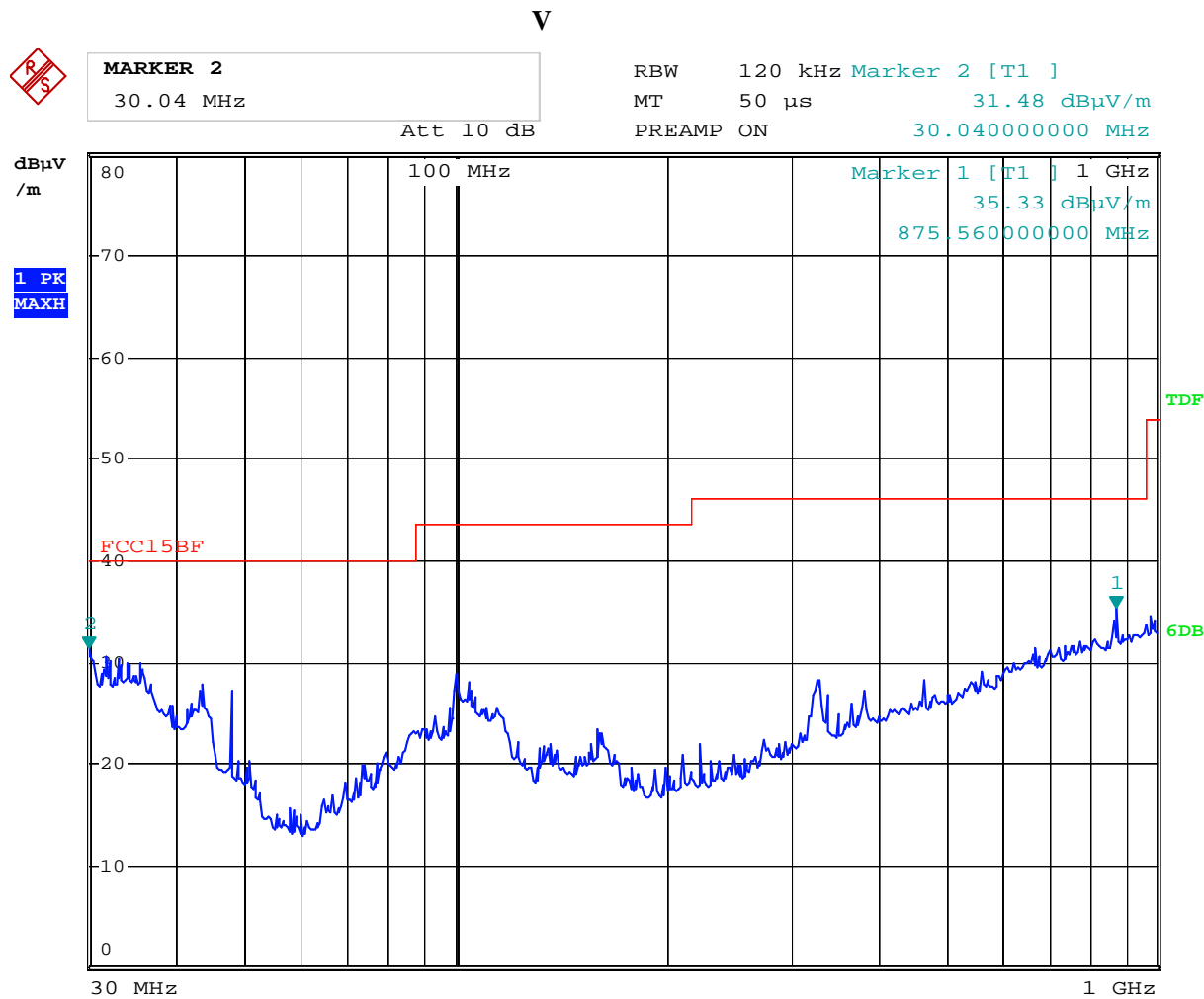


Date: 17.MAR.2015 14:10:37

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Test Figure:



Date: 17.MAR.2015 14:12:20

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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 μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
148.480	35.56	H	43.50
380.840	37.24	H	46.00
50.160	32.24	V	40.00
927.120	37.30	V	46.00

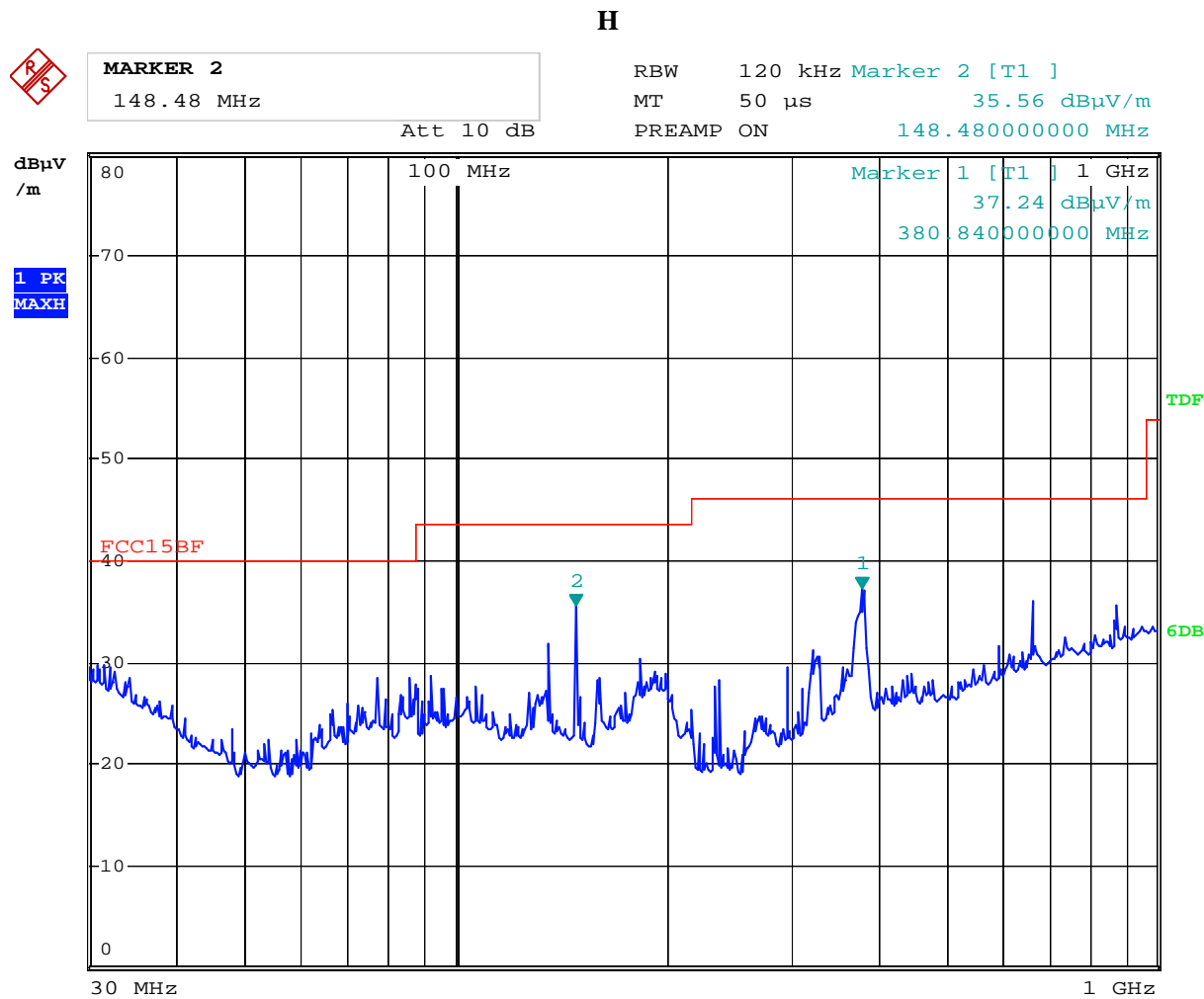
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Test Figure:



Date: 17.MAR.2015 10:14:06

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discussion or correspondence with any third party concerning the contents of the report. In the event of the improper use of the report, the SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



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 μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
135.160	31.37	H	43.50
377.920	33.28	H	46.00
30.160	31.86	V	40.00
872.280	35.00	V	46.00

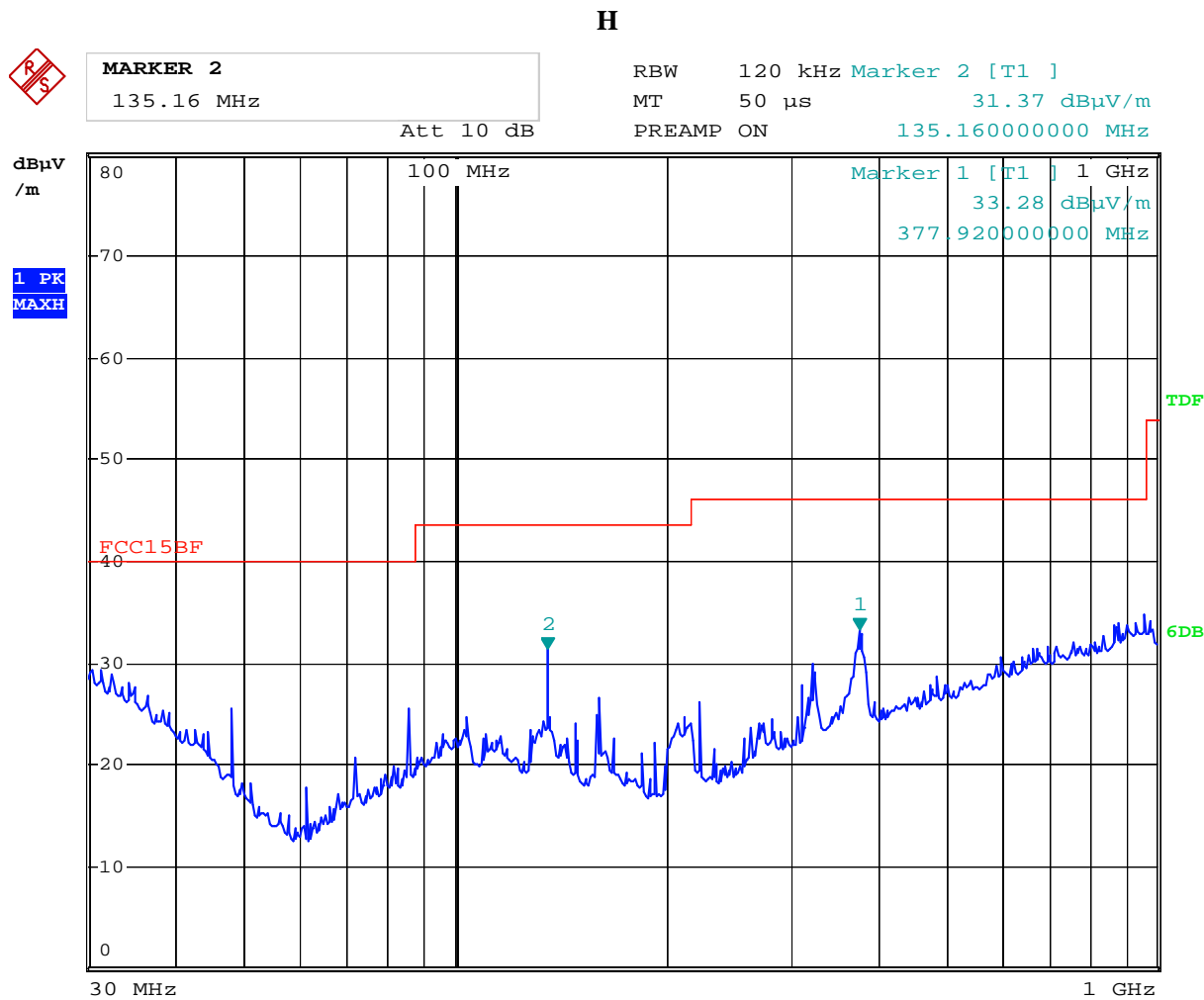
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Test Figure:

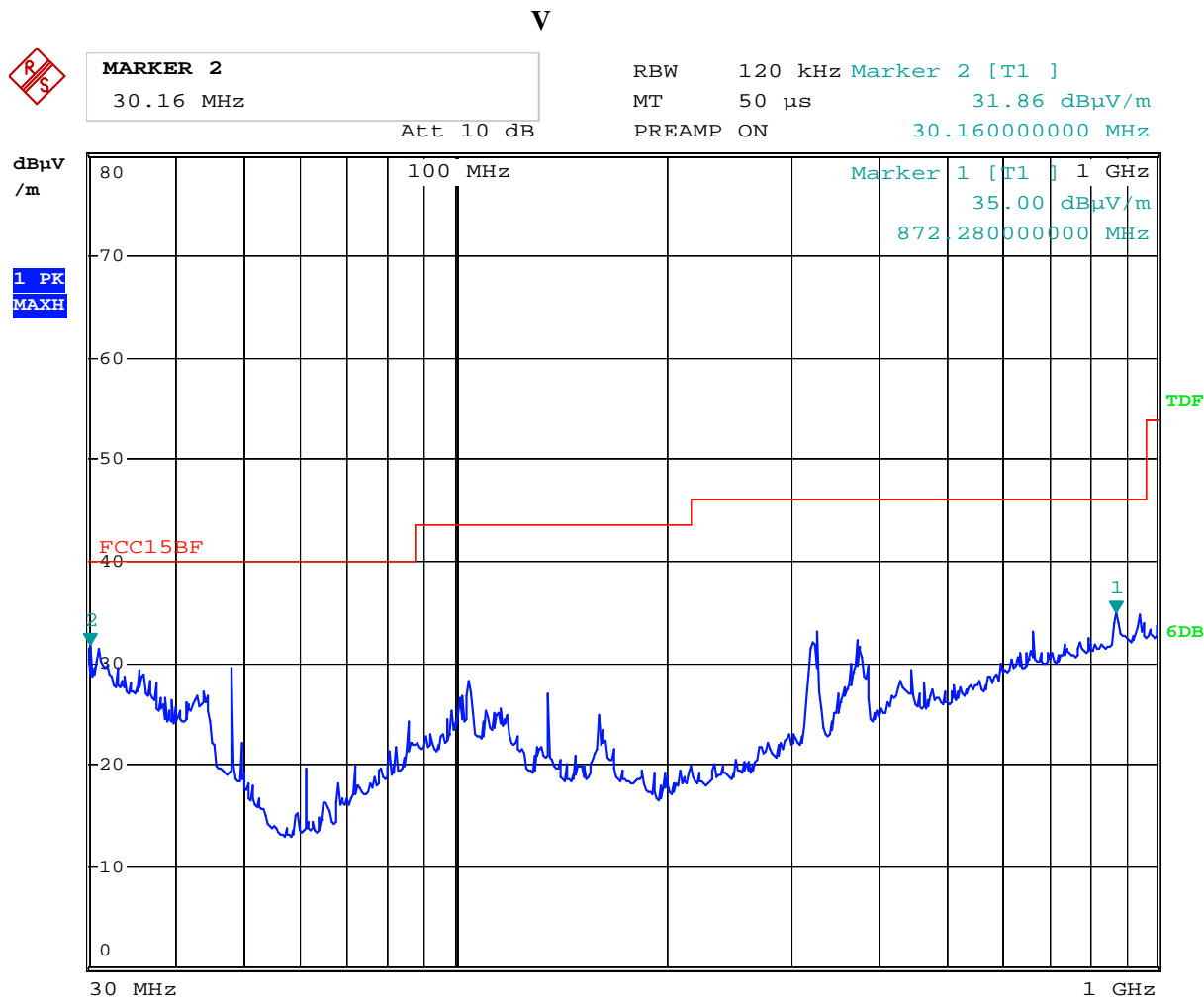


Date: 17.MAR.2015 10:17:15

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Test Figure:



Date: 17.MAR.2015 10:19:09

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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 μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
79.040	31.68	H	40.00
979.400	34.64	H	46.00
32.120	30.51	V	40.00
873.280	35.69	V	46.00

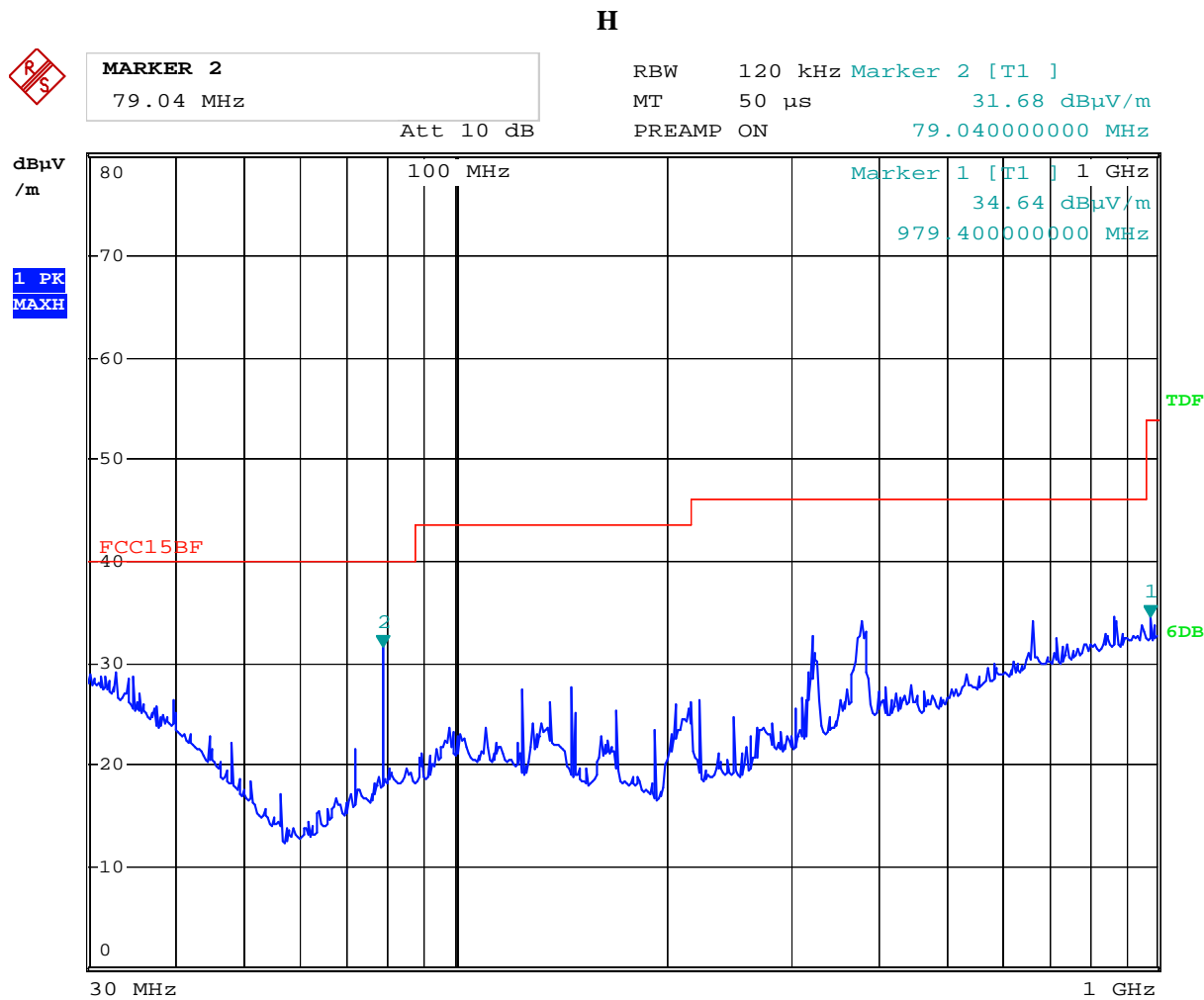
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Test Figure:

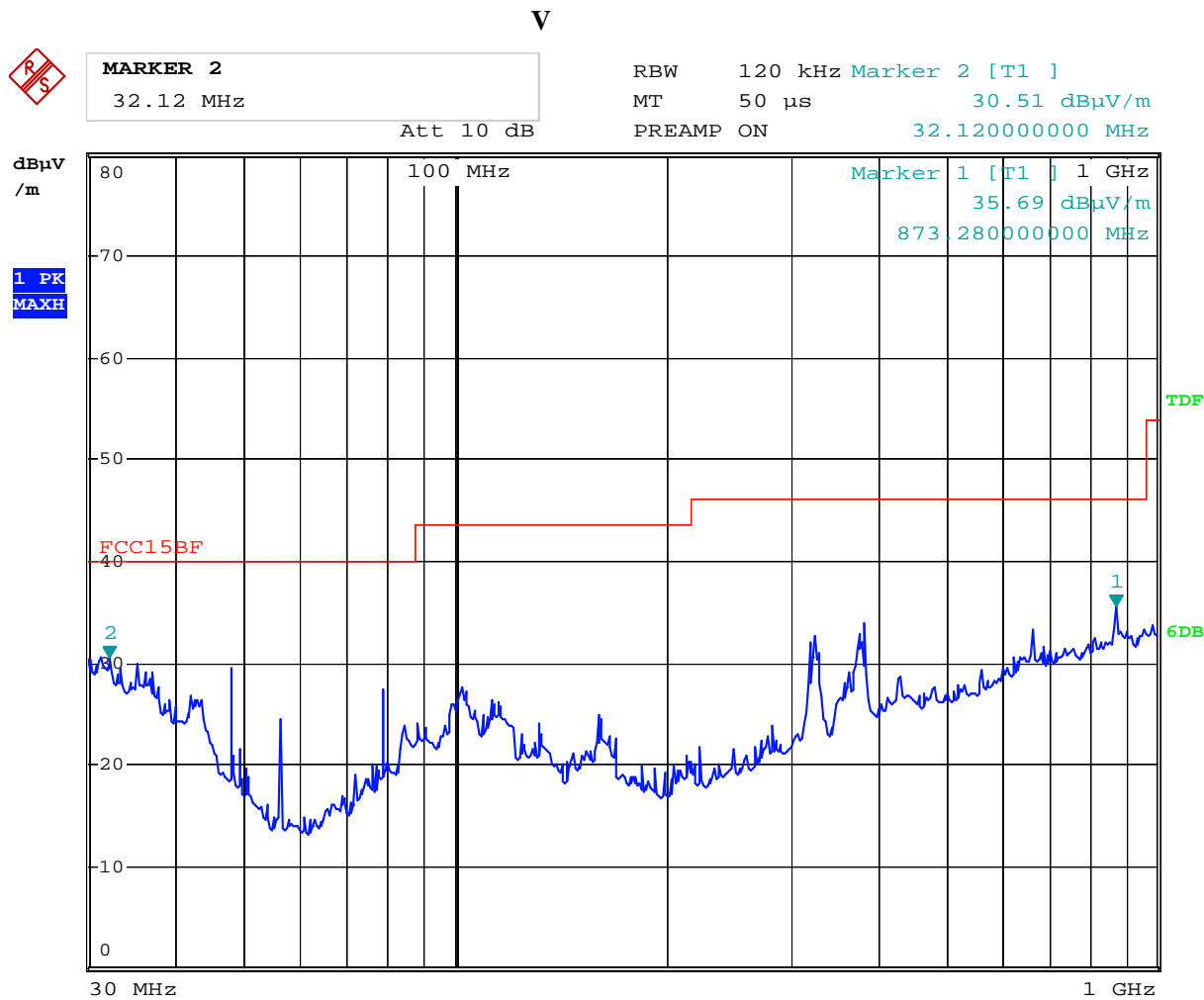


Date: 17.MAR.2015 10:26:06

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Test Figure:



Date: 17.MAR.2015 10:27:51

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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 μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
30.960	30.21	H	40.00
666.440	35.57	H	46.00
31.440	32.00	V	40.00
875.880	34.60	V	46.00

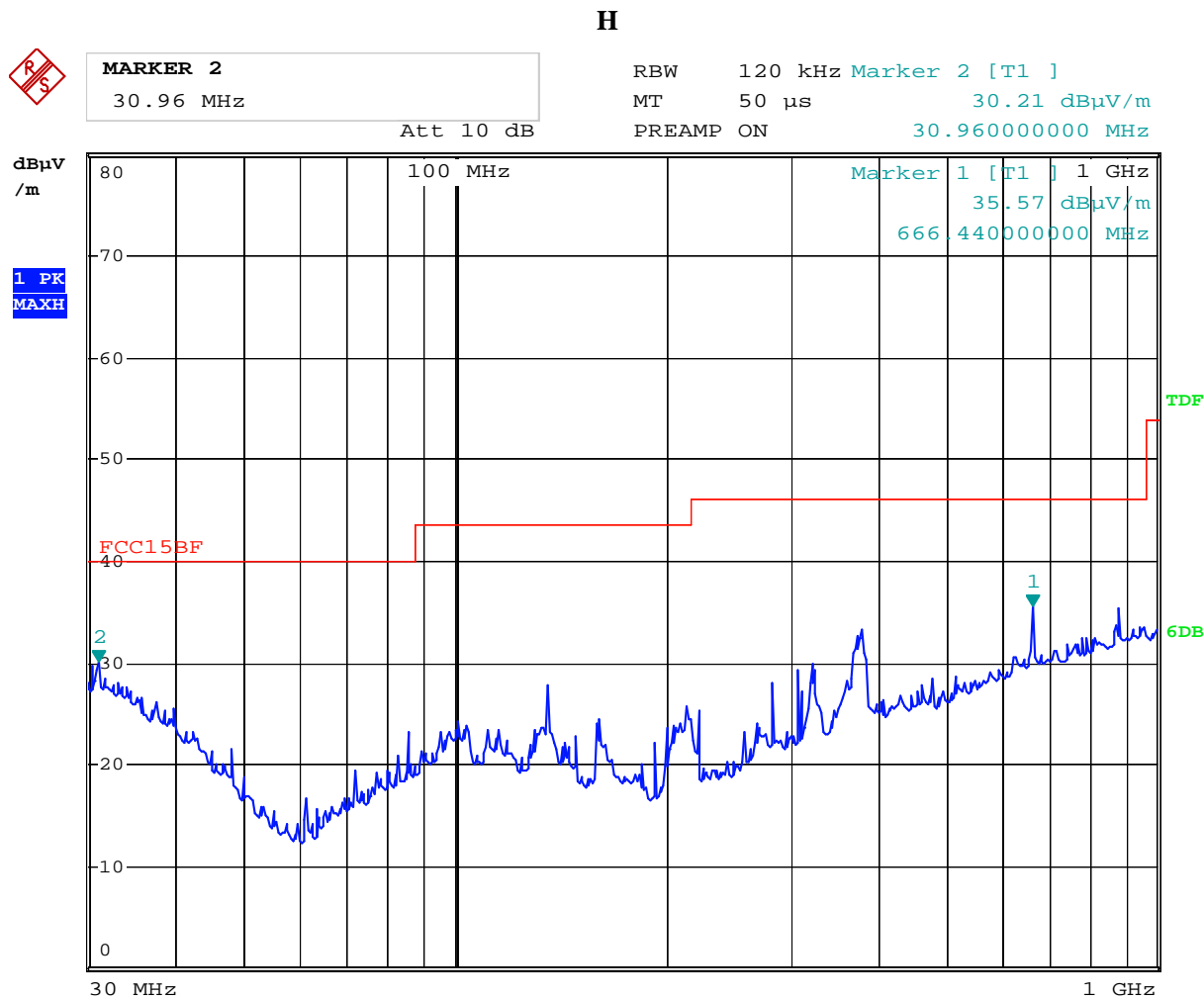
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Test Figure:

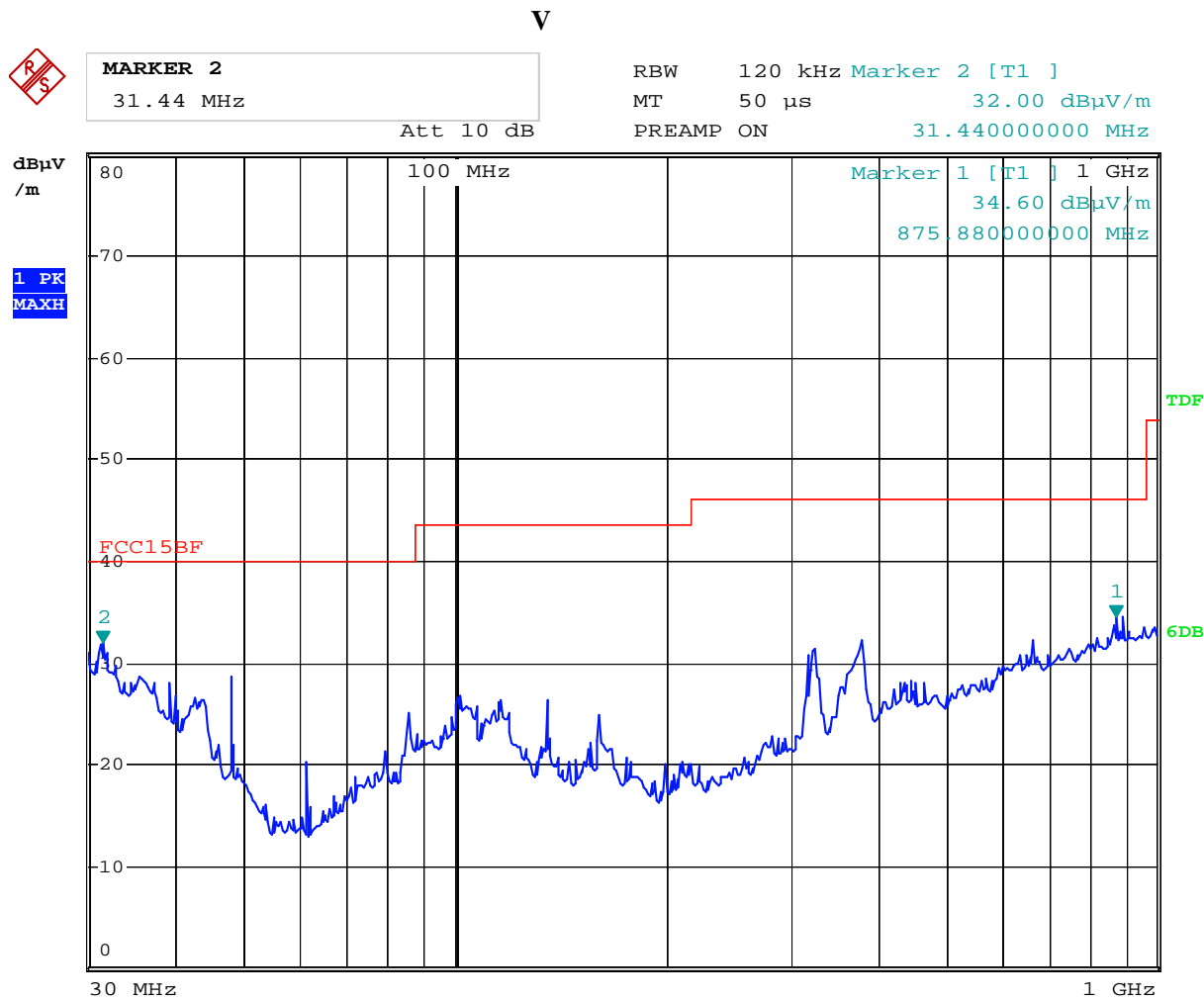


Date: 17.MAR.2015 10:23:17

The report refers only to the sample tested and does not apply to the bulk.
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Test Figure:



Date: 17.MAR.2015 10:21:29

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Radiated Disturbance (1000MHz---18000MHz)

EUT Operating Environment

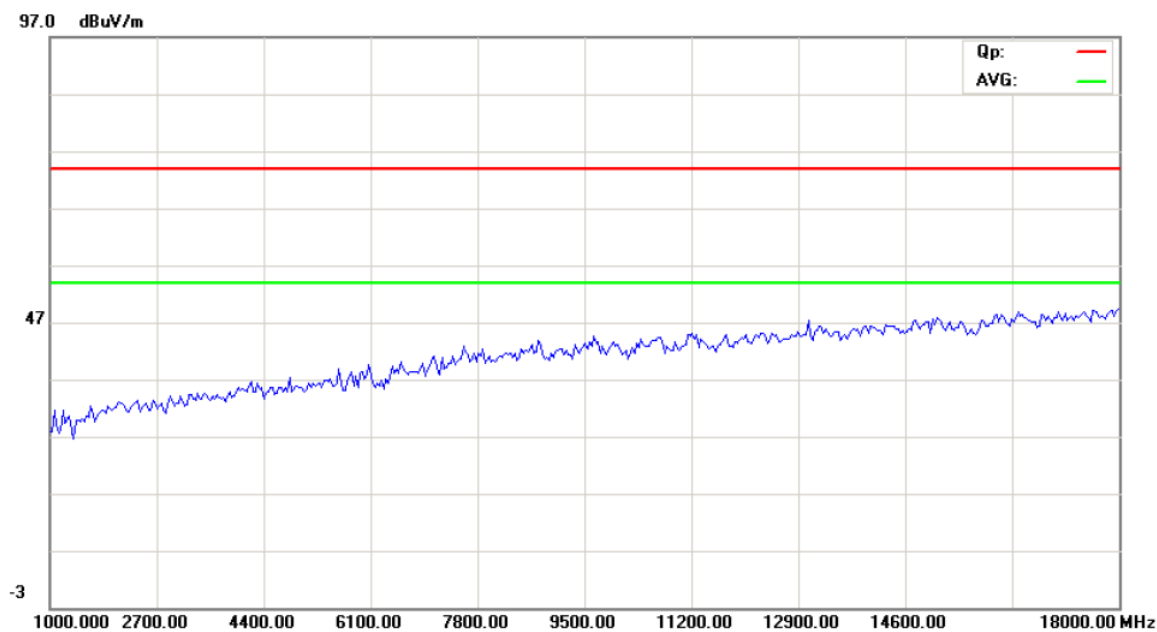
Temperature:25℃ **Humidity:** 75%RH **Atmospheric Pressure:** 101 KPa

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

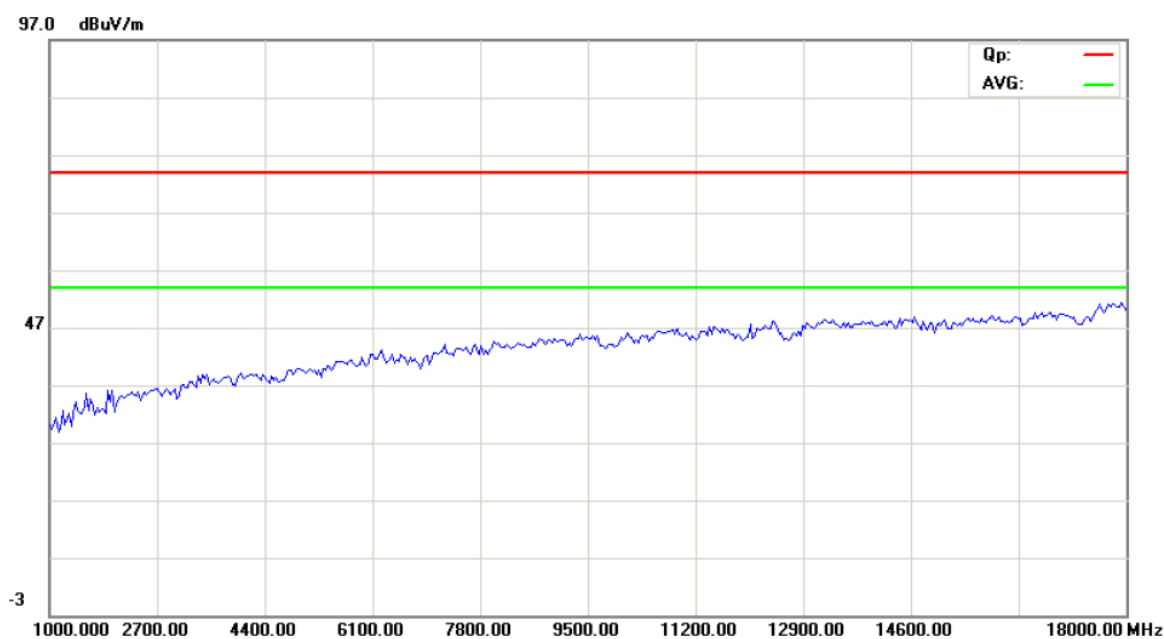
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

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
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Radiated Disturbance (1000MHz---18000MHz)

EUT Operating Environment

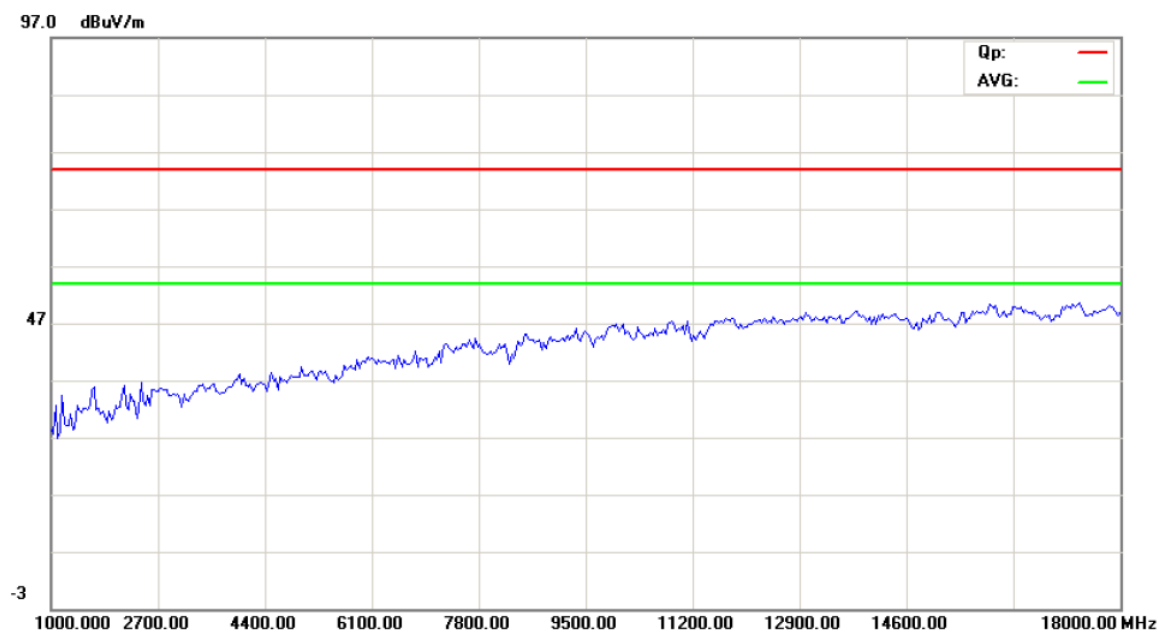
Temperature:25℃ **Humidity:** 75%RH **Atmospheric Pressure:** 101 KPa

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

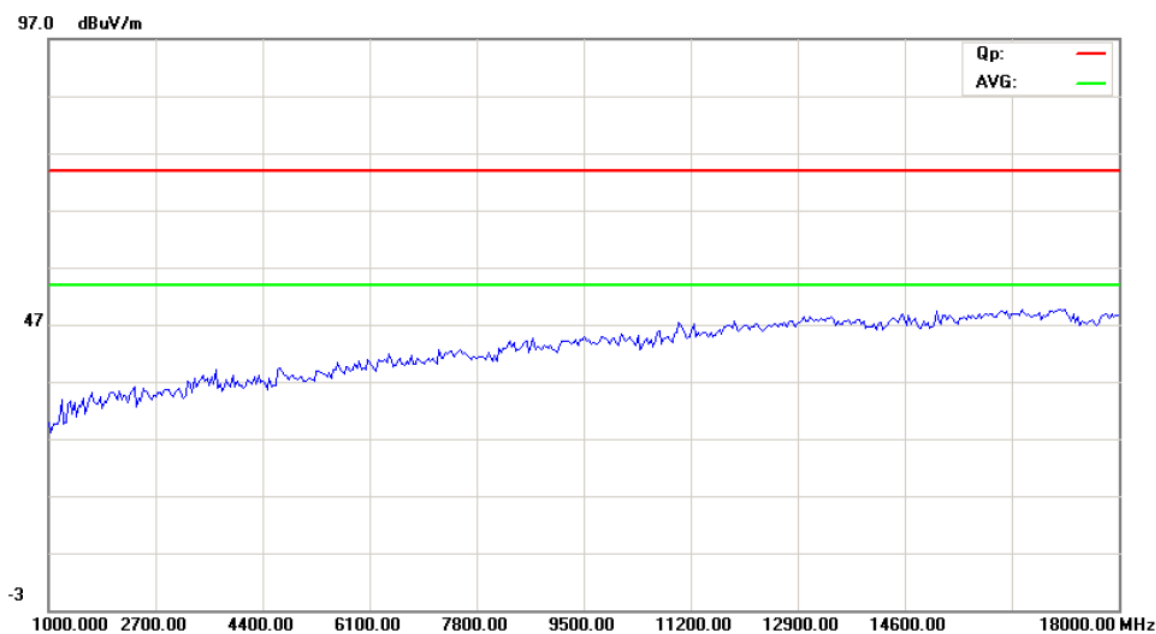
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

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

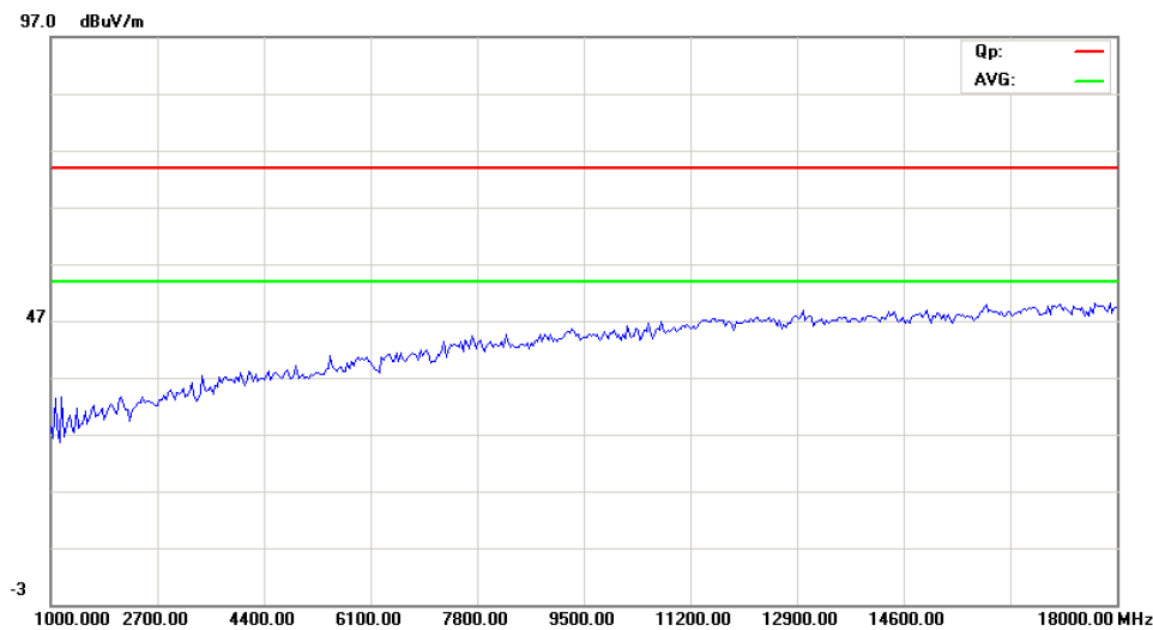
Temperature:25℃ **Humidity:** 75%RH **Atmospheric Pressure:** 101 KPa

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

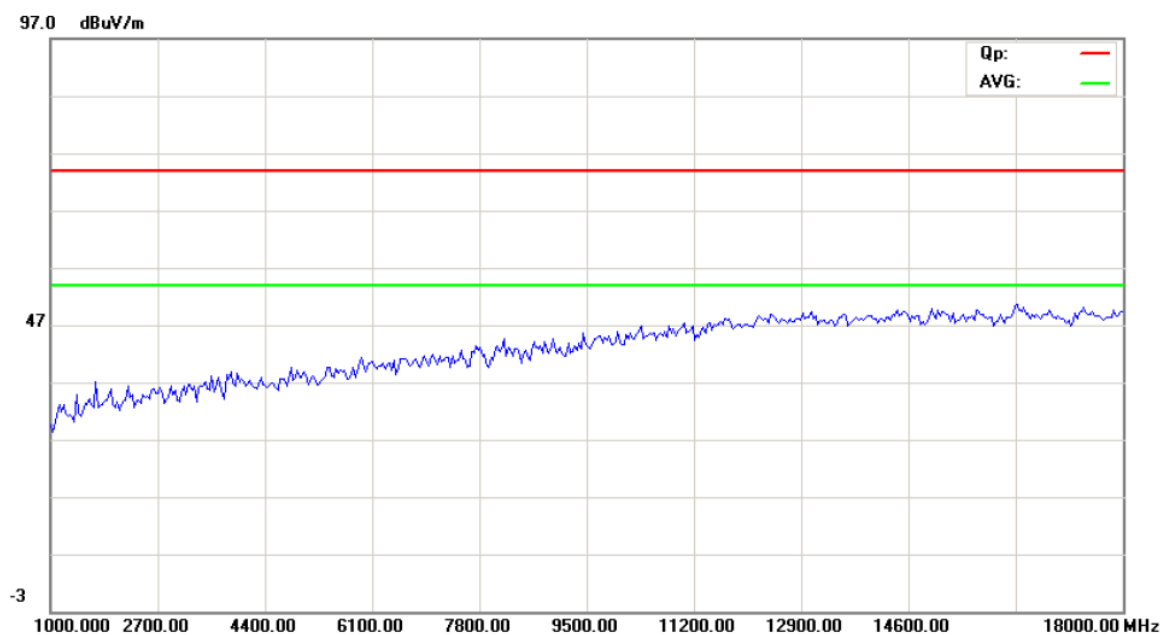
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

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

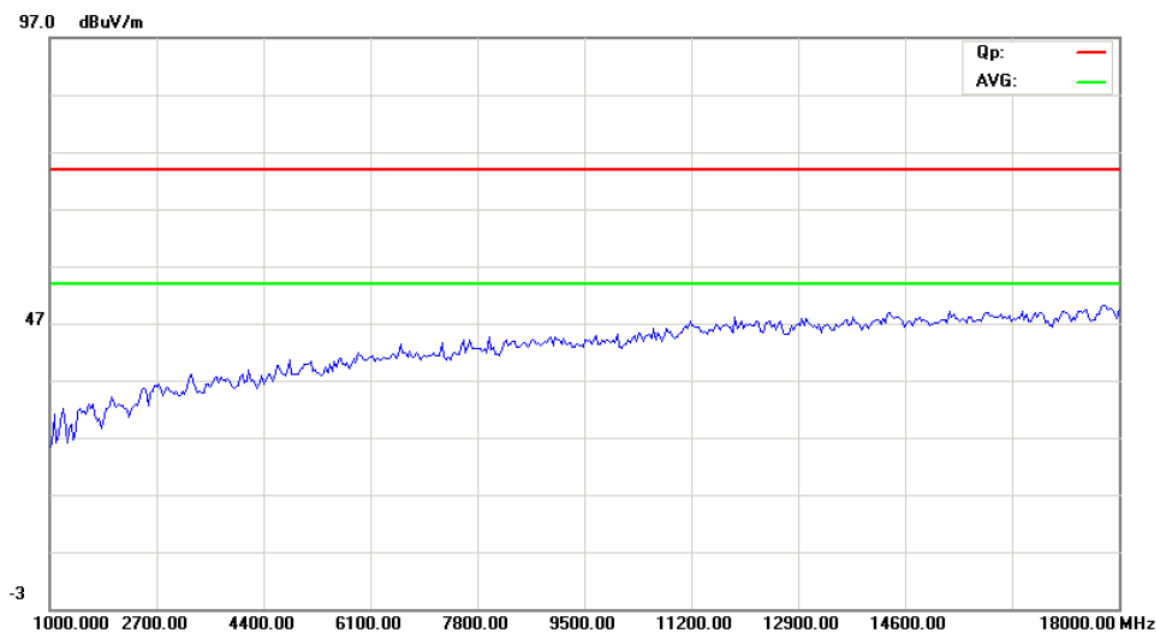
Temperature:25℃ **Humidity:** 75%RH **Atmospheric Pressure:** 101 KPa

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

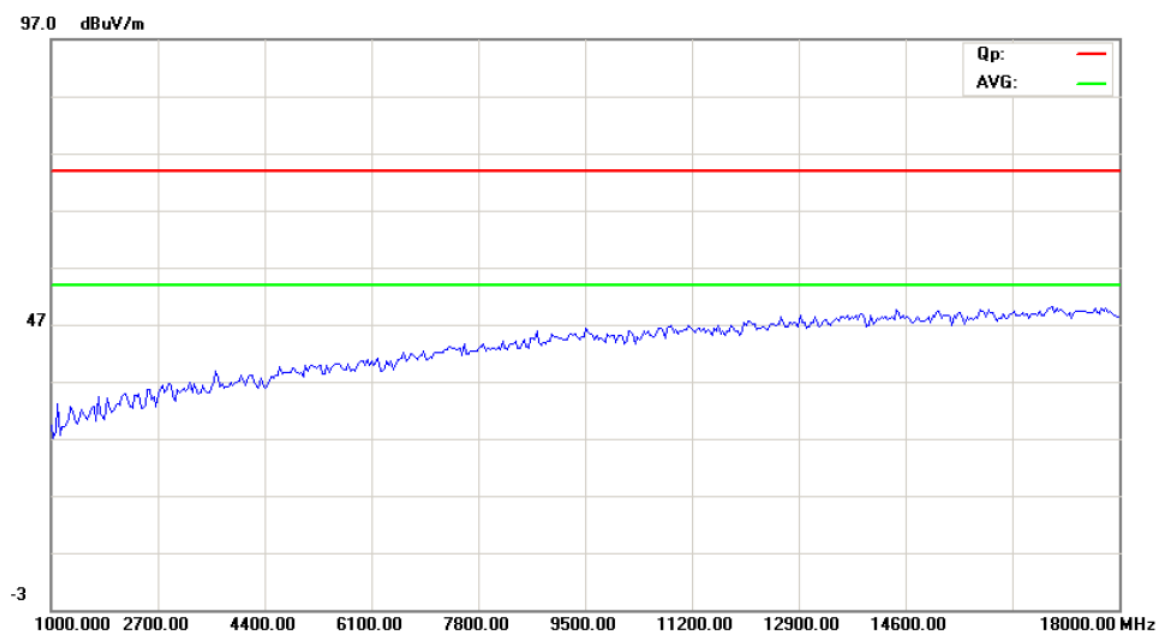
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

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
2. For radiated Emissions from 18-30GHz, it is only the floor noise.

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Radiated Disturbance (1000MHz---18000MHz)

EUT Operating Environment

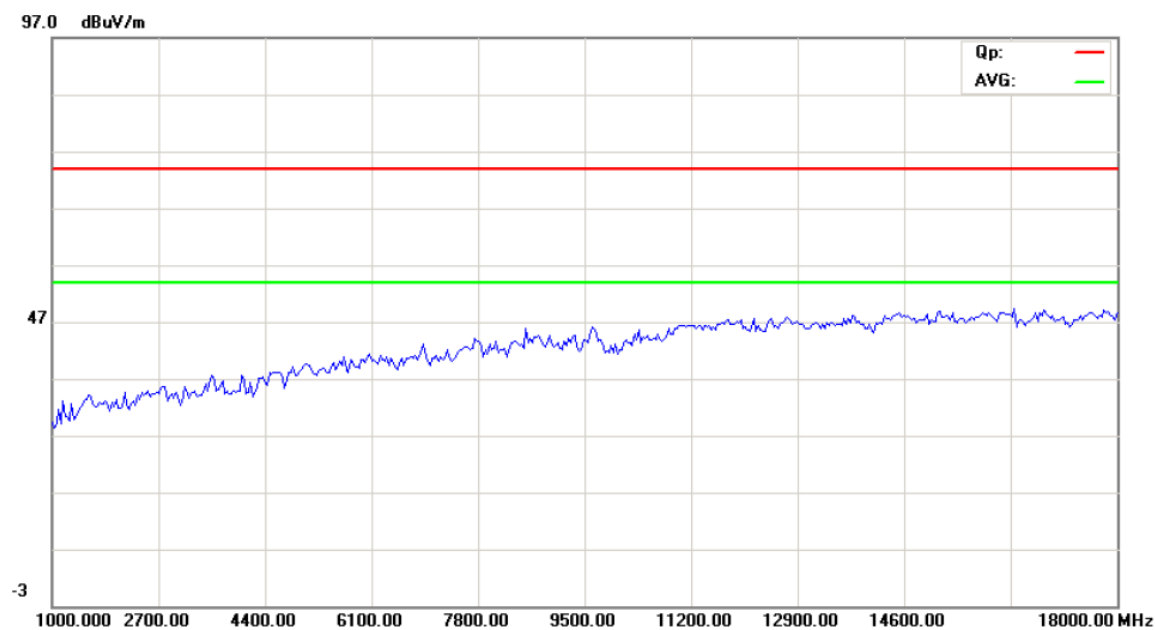
Temperature:25℃ **Humidity:** 75%RH **Atmospheric Pressure:** 101 KPa

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)
--	--	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

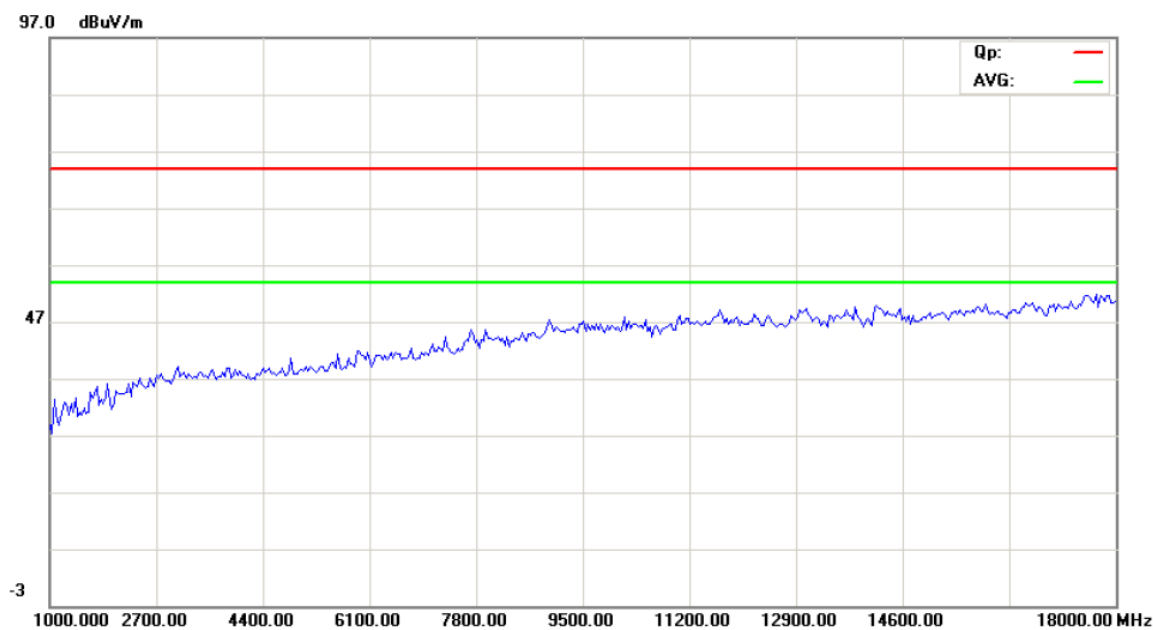
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

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
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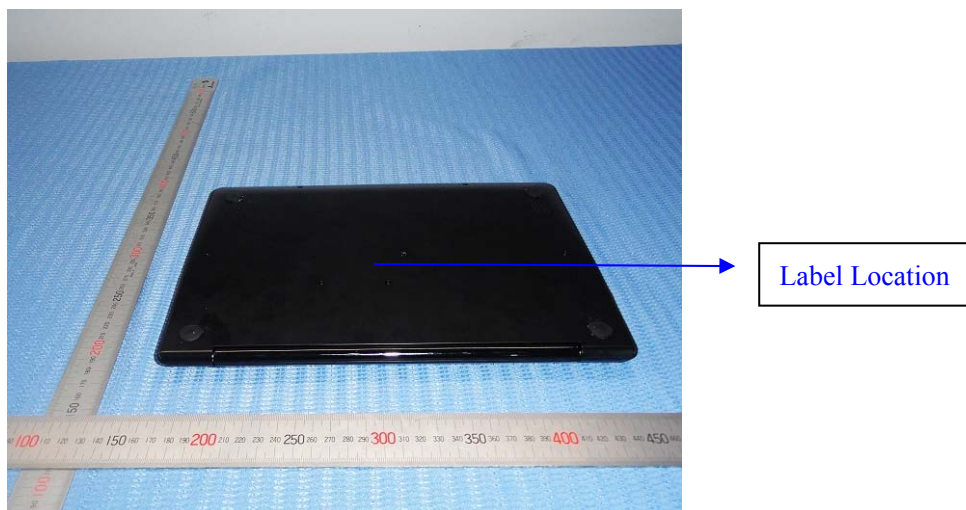
6.0 FCC ID Label

FCC ID: RH2-HR-116R

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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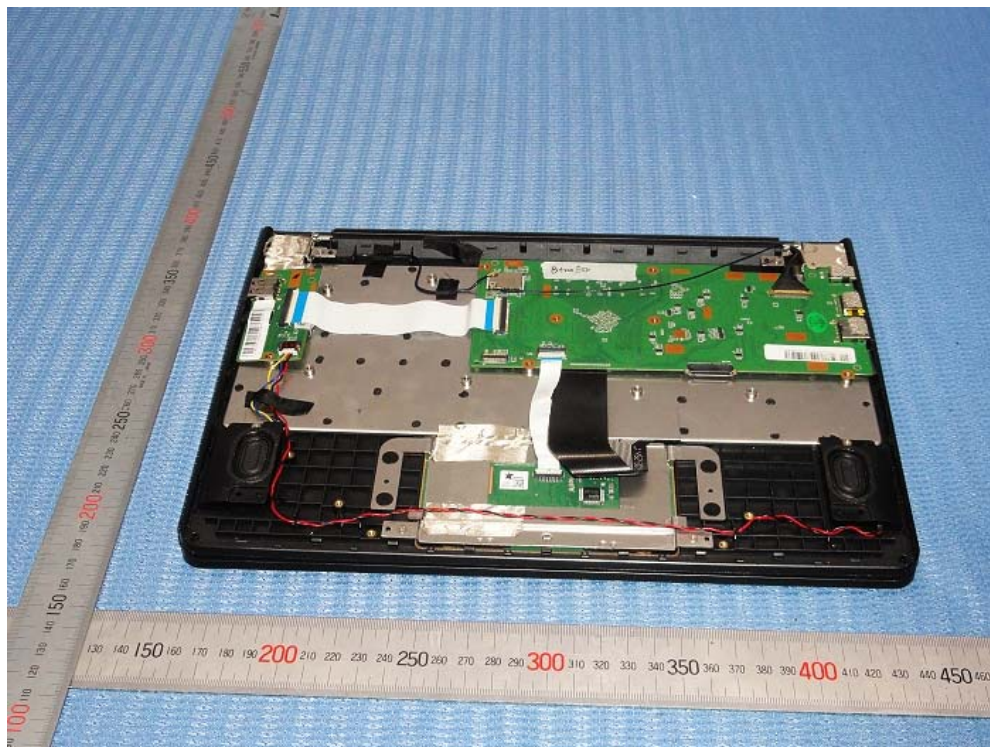


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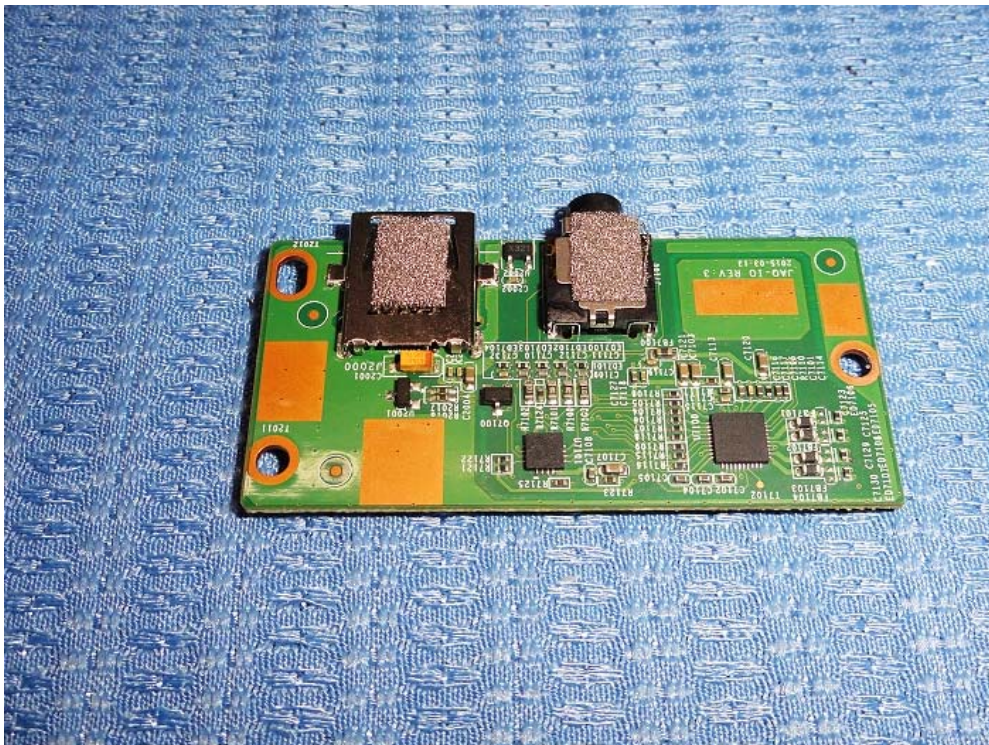


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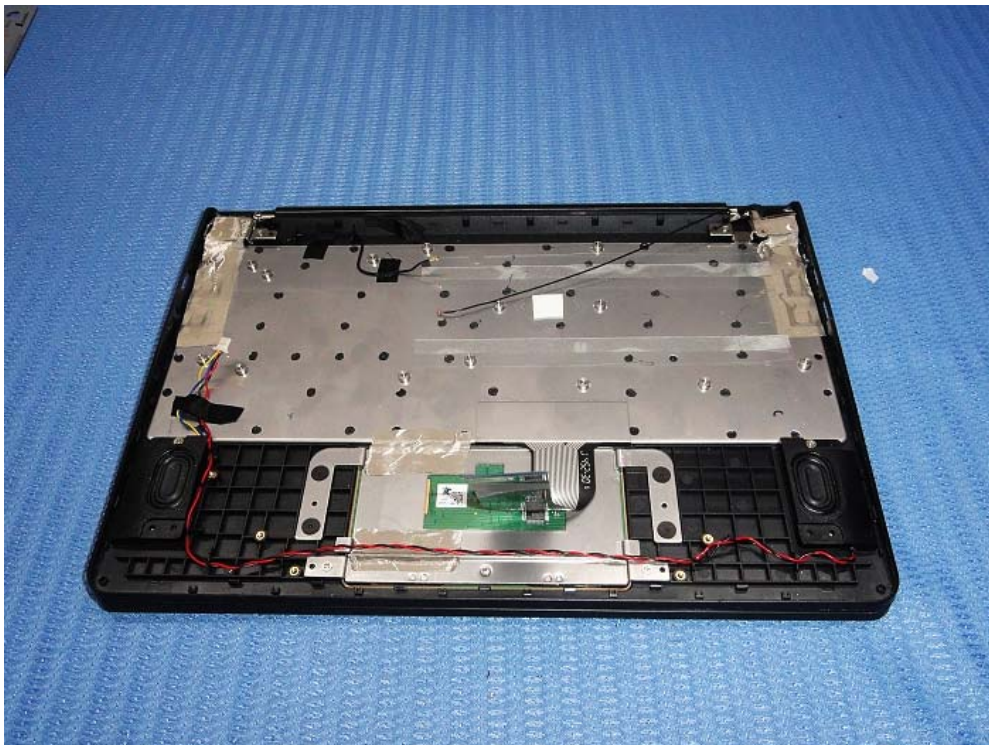


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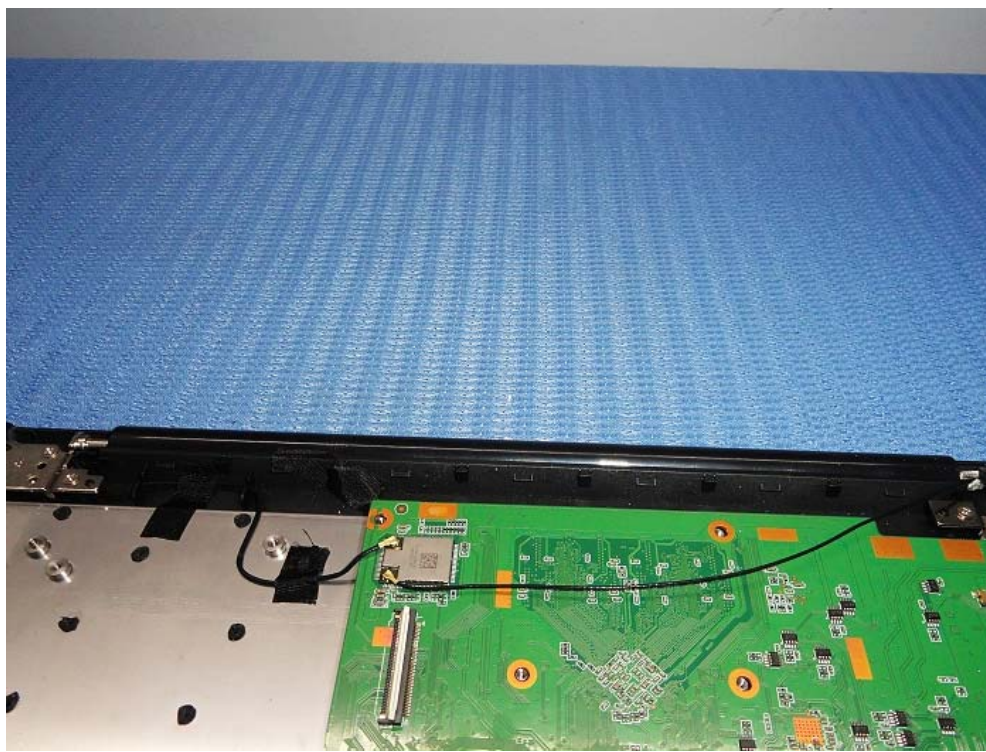


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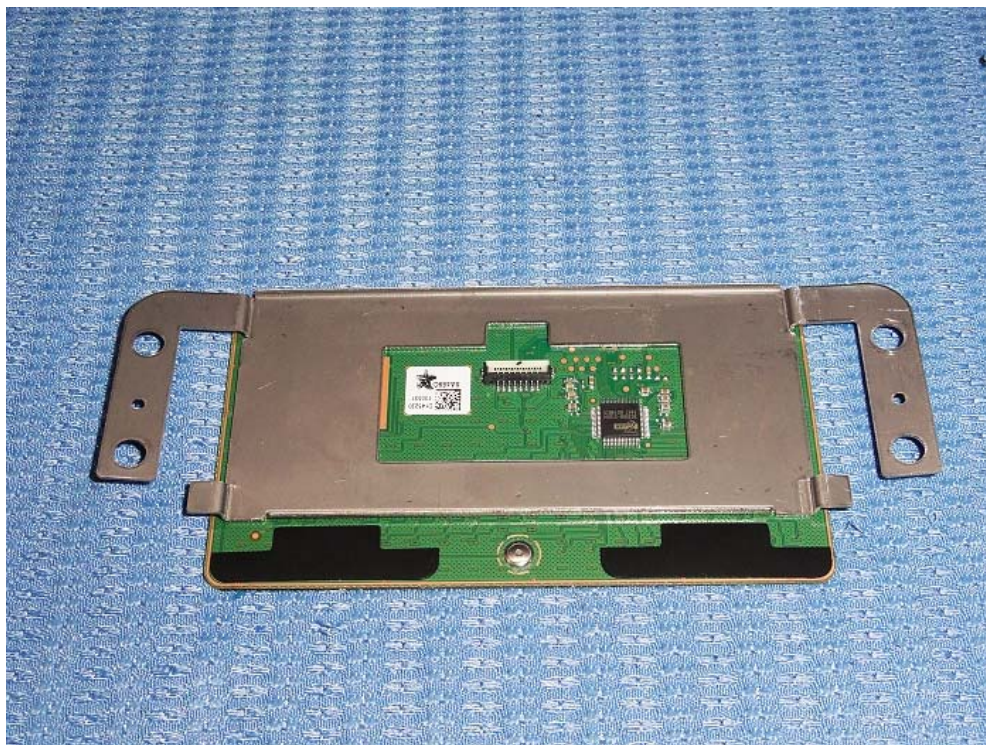


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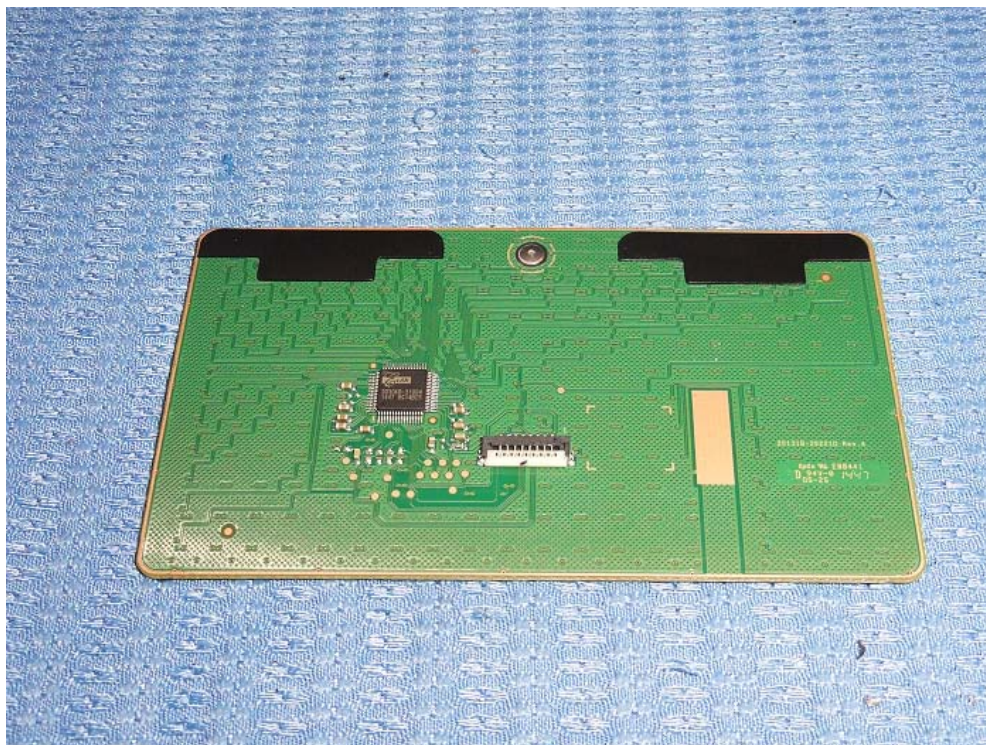


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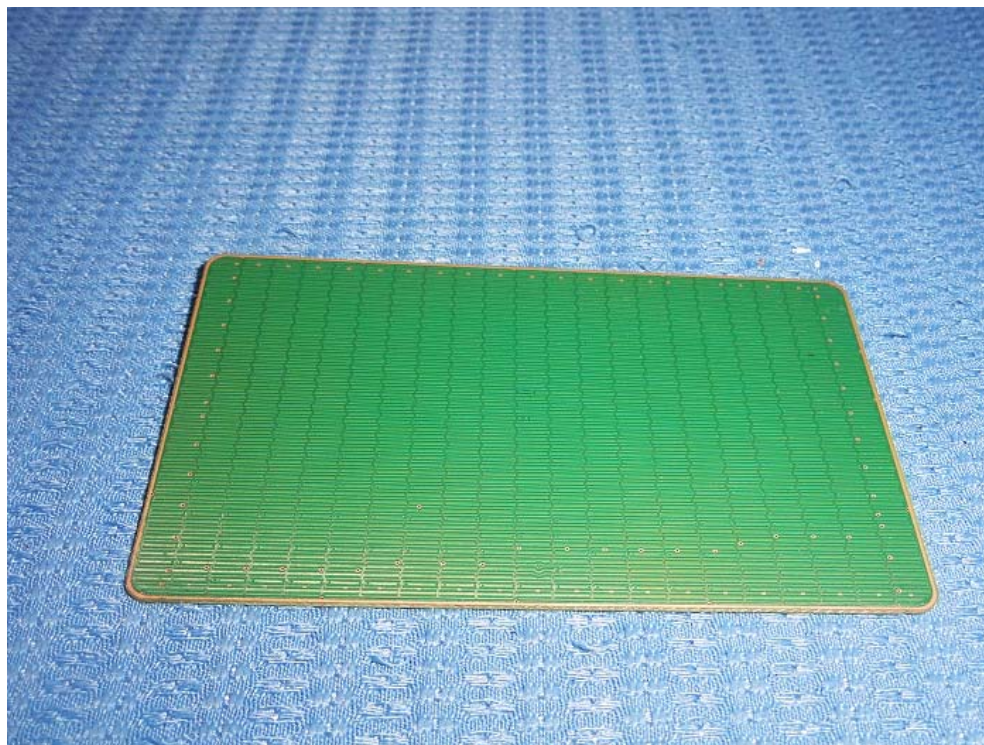


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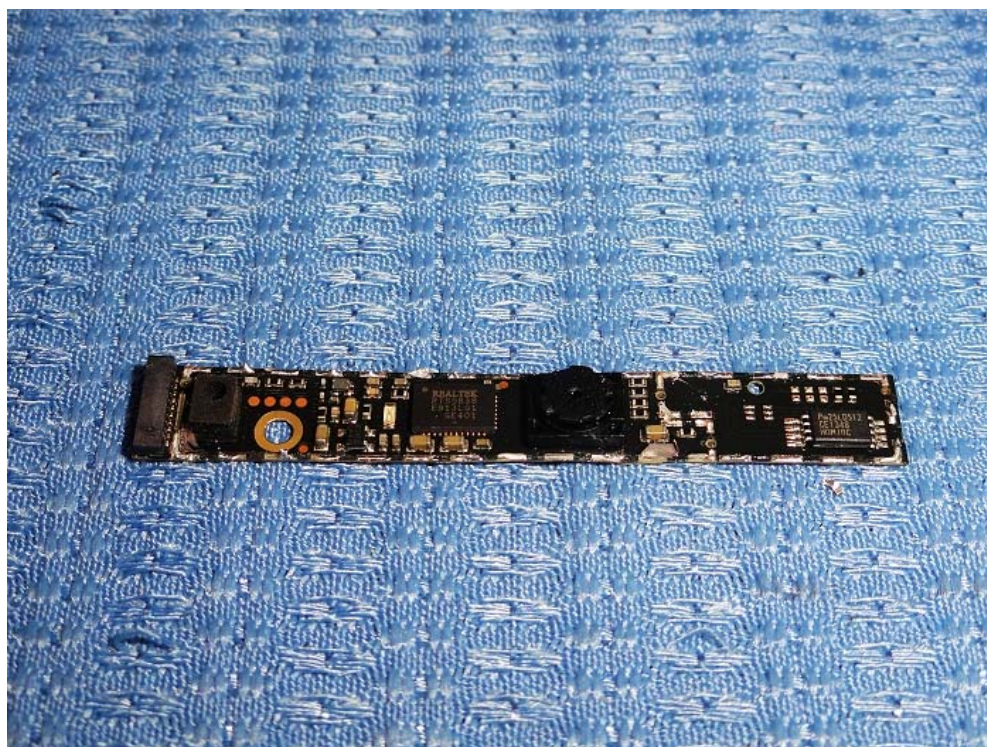
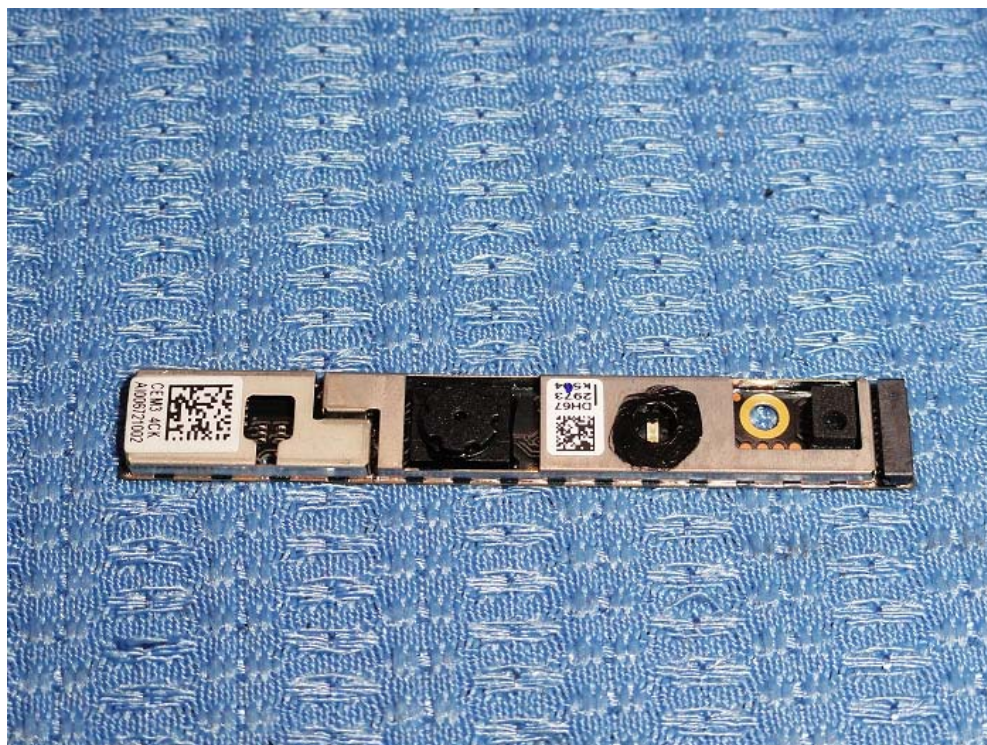


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-End of the report-

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