







ISO/IEC17025 Accredited Lab.

Report No: FCC 1309102-03

File reference No: 2013-10-10

Applicant: TD Semi,Inc.

Product: Torn Tab

Model No: T3157

Trademark: TD Semi

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: October 10, 2013

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 TECHNOLOGY CONSULTING CO., LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996

Report No: 1309102-03 Page 2 of 47

Date: 2013-10-10



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.



Date: 2013-10-10



Test Report Conclusion

Content

1.0	General Details	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Test Uncertainty.	4
1.5	Submitted Sample	4
1.6	Test Duration.	4
2.0	List of Measurement Equipment	5
2.1	Conducted Emission Test.	5
2.2	Radiated electromagnetic disturbance test.	5
2.3	Auxiliary Equipment	5
3.0	Technical Details.	6
3.1	Investigations Requested	6
3.2	Test Standards.	6
4.0	Power line Conducted Emission Test.	7
5.0	Radiated Disturbance Test.	11
6.0	FCC ID Label	38
7.0	Photo of testing	39

Date: 2013-10-10



1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

Address: East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian

District, Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

1.2 Applicant Details

Applicant: TD Semi, Inc.

Address: 3704 Marlborough Ct., Plano, TX 75075, USA

Telephone: 1.972.865.8671

Fax: N/A

1.3 Description of EUT

Product: Torn Tab

Manufacturer: Shenzhen Jizhao Information Technology Co., Ltd

Address: 4th Floor, Yuxing Sanwei Tech Park, HangKong Road, Xixiang Town,

Bao'an, Shenzhen, China.

Brand Name: TD Semi Model Number: T3157 Additional Model Number: N/A

Power Adapter Model No.: DSA-20PFE-05 FCH 050300

Input: 100-240V, 50/60Hz, 0.7A; Output: DC5V, 3A

1.4 Submitted Sample: 2 Sample

1.5 Test Duration: 2013-09-23 to 2013-10-10

1.6 Test Uncertainty

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

1.7 Test Engineer

leng lang

The sample tested by

Print Name: Terry Tong

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

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Date: 2013-10-10



List of Measurement Equipment 2.0

2.1 Conducted Emission Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESH3	860905/006	RS	2013-08-21	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2013-08-21	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2013-08-21	1Year
LISN	ESH3-Z5	100294	RS	2013-08-21	1Year
LISN	ESH3-Z5	100253	RS	2013-08-21	1Year
LISN	LS16C	10010947251	AFJ	2013-08-21	1Year
LISN (Three Phase)	NSLK 8126	8126453	Schwarebeck	2013-08-23	1Year

2.2 Radiated electromagnetic disturbance test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESVD	100008	RS	2013-08-23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer	8595E	3441A00893	НР	2013-07-24	1Year
Amplifier	8447D	2727A05017	HP	2013-07-24	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2013-08-21	1Year
Horn Antenna	BBHA 9120D	9120D-631	Schwarebeck	2013-08-23	1Year

2.3 **Auxiliary Equipment**

					FCC DOC/
Name	Model No.	Serial No.	Manufacturer	Cable	ID
				Data cable of	
Monitor	P2450		SAMSUNG	1.5m length	FCC DOC
U-disk	U208		Netac		FCC DOC
SD			Kingston		
PC	R400		IBM		FCC DOC
Mouse	M-F105		L.SEletron		FCC DOC
TF					

Report No: 1309102-03 Page 6 of 47

Date: 2013-10-10

3.0 **Technical Details**

3.1 Investigations Requested Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

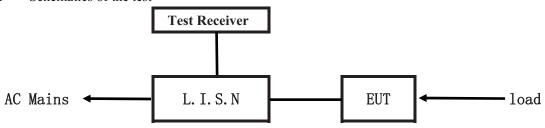
FCC Part 15 Subpart B: 2012

Date: 2013-10-10



4.0 Conducted Power line Test

4.1 Schematics of the test



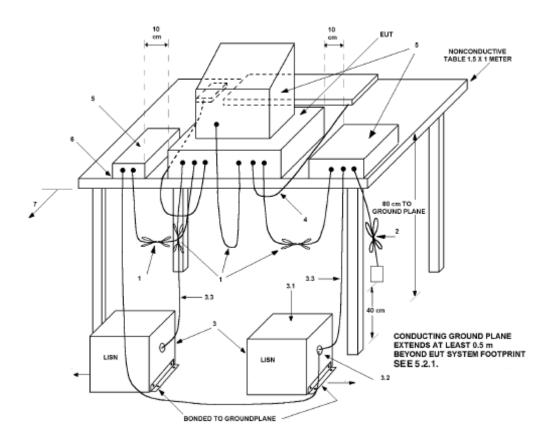
EUT: Equipment Under Test

4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003 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 -2003. 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



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

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Report No: 1309102-03 Page 8 of 47

Date: 2013-10-10



4.3 Power line conducted Emission Limit

Eraguanay (MHz)	Class A Li	mits dB(μV)	Class B Limits dB(µV)	
Frequency(MHz)	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

- 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.

Date: 2013-10-10



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

EUT Operating Environment

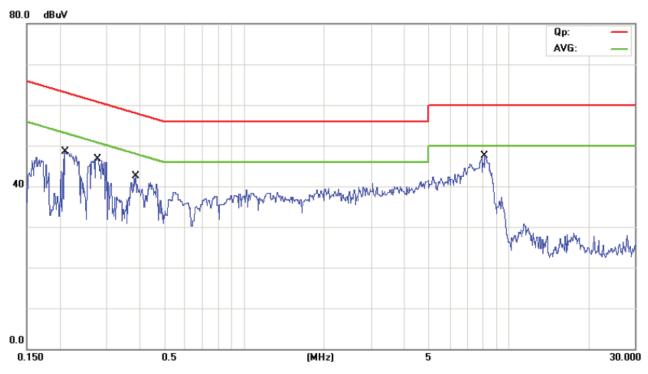
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: PC communication mode by USB port

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



Frequency	Line	Reading(dBμV)	Limit(dBμV)
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.2100	Neutral	43.86	13.56	63.21	53.21
0.2770	Neutral	44.53	31.73	60.91	50.91
0.3863	Neutral	38.65	25.75	58.14	48.14
8.2103	Neutral	41.95	33.35	60.00	50.00

Date: 2013-10-10



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

EUT Operating Environment

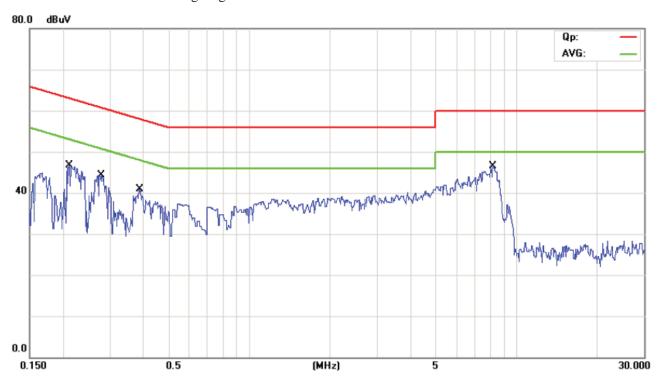
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: PC communication mode by USB port

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency	Line Reading(dBµV)		Limit(dBµV)		
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.2115	Live	42.57	16.97	63.15	53.15
0.2770	Live	42.43	26.03	60.91	50.91
0.3865	Live	37.85	24.15	58.14	48.14
8.2443	Live	41.64	33.84	60.00	50.00

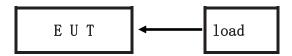
Report No: 1309102-03 Page 11 of 47

Date: 2013-10-10



5.0 Radiated Disturbance Test

5.1 Schematics of the test

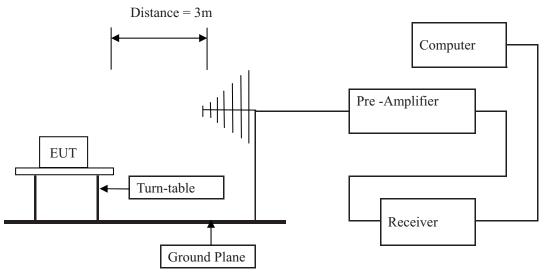


5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003 The frequency spectrum from 30MHz to 6GHz 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 detector.

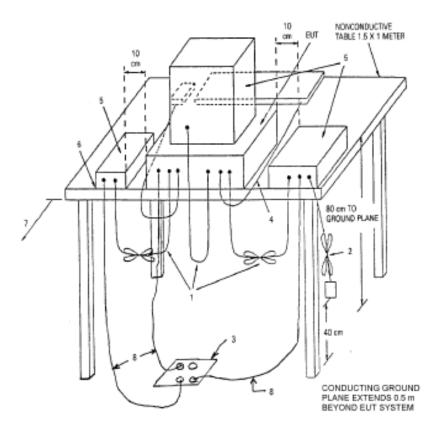
Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



Date: 2013-10-10





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 handhold 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 6GHz 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.

Report No: 1309102-03 Page 13 of 47

Date: 2013-10-10



Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Play USB disk

Results: Pass

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
148.480	37.56	Н	43.50
445.160	40.13	Н	46.00
35.920	37.20	V	40.00
109.720	38.39	V	43.50
133.520	38.05	V	43.50
445.560	38.40	V	46.00

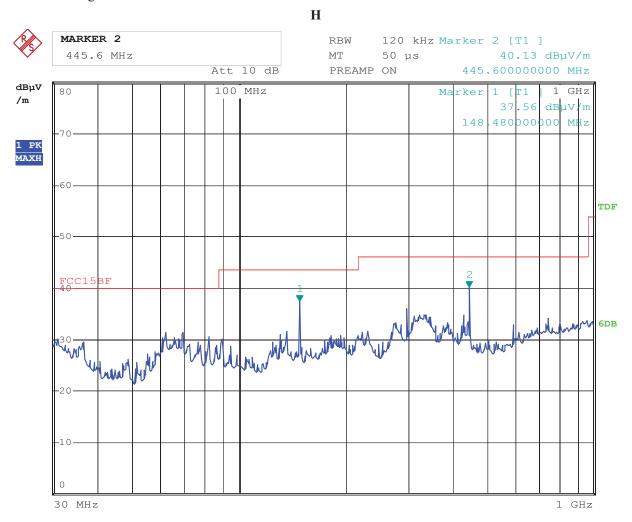
Page 14 of 47

Report No: 1309102-03

Date: 2013-10-10



Test Figure:



Date: 24.SEP.2013 15:46:33

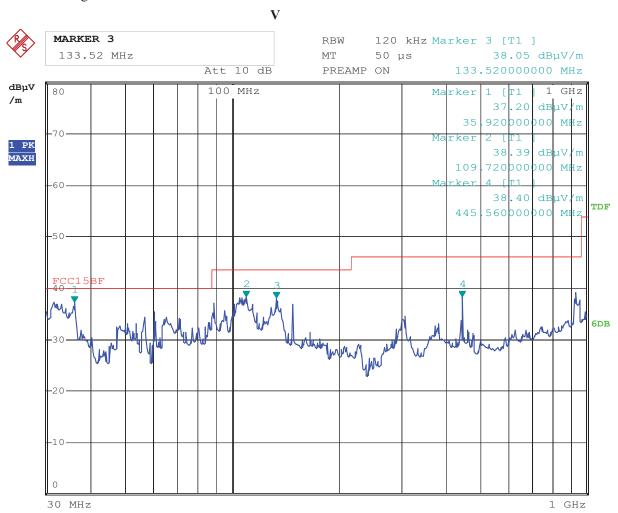
Page 15 of 47

Report No: 1309102-03

Date: 2013-10-10



Test Figure:



Date: 24.SEP.2013 15:44:36

Report No: 1309102-03 Page 16 of 47

Date: 2013-10-10



Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: PC communication mode by USB port

Results: Pass

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
39.120	36.29	Н	40.00
40.480	35.78	Н	40.00
115.480	35.19	Н	43.50
445.400	33.91	Н	46.00
32.720	36.34	V	40.00
40.520	36.53	V	40.00
115.040	32.45	V	43.50
445.400	36.19	V	46.00

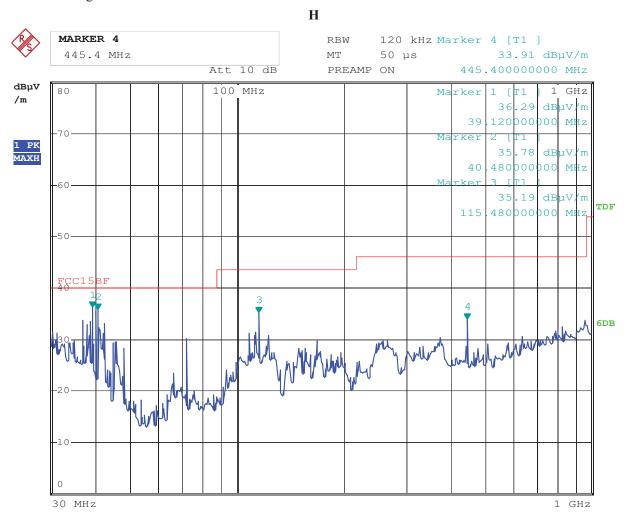
Page 17 of 47

Report No: 1309102-03

Date: 2013-10-10



Test Figure:



Date: 24.SEP.2013 15:37:36

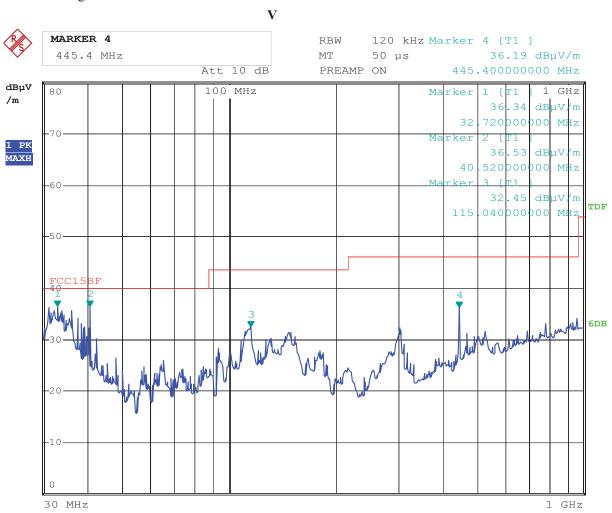
Page 18 of 47

Report No: 1309102-03

Date: 2013-10-10



Test Figure:



24.SEP.2013 15:40:13 Date:

Report No: 1309102-03 Page 19 of 47

Date: 2013-10-10



Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Play TF Card

Results: Pass

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
148.480	37.57	Н	43.50
445.160	40.13	Н	46.00
308.960	38.97	Н	46.00
31.640	36.96	V	40.00
87.400	36.84	V	40.00
108.240	38.50	V	43.50
136.160	37.74	V	43.50

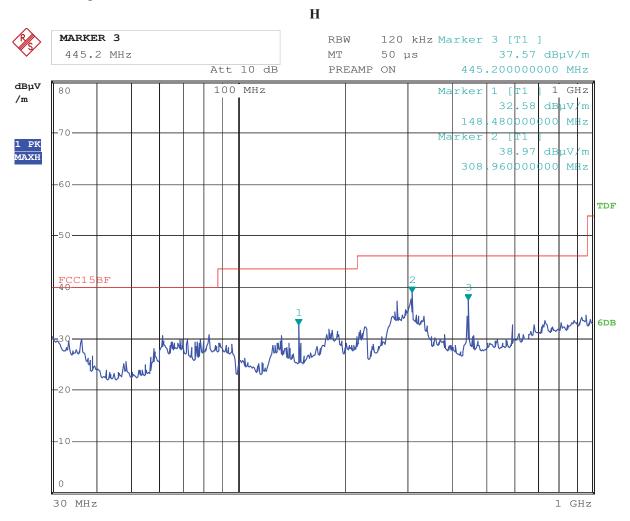
Page 20 of 47

Report No: 1309102-03

Date: 2013-10-10



Test Figure:



Date: 24.SEP.2013 15:50:11

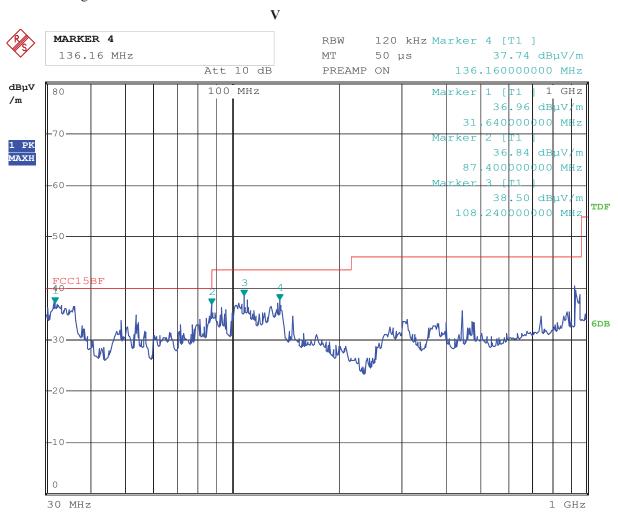
Page 21 of 47

Report No: 1309102-03

Date: 2013-10-10



Test Figure:



Date: 24.SEP.2013 15:52:43

Report No: 1309102-03 Page 22 of 47

Date: 2013-10-10



Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Front Camera On

Results: Pass

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
144.000	29.57	Н	43.50
445.760	38.65	Н	46.00
31.280	36.22	V	40.00
108.960	37.32	V	43.50
149.80	34.05	V	43.50

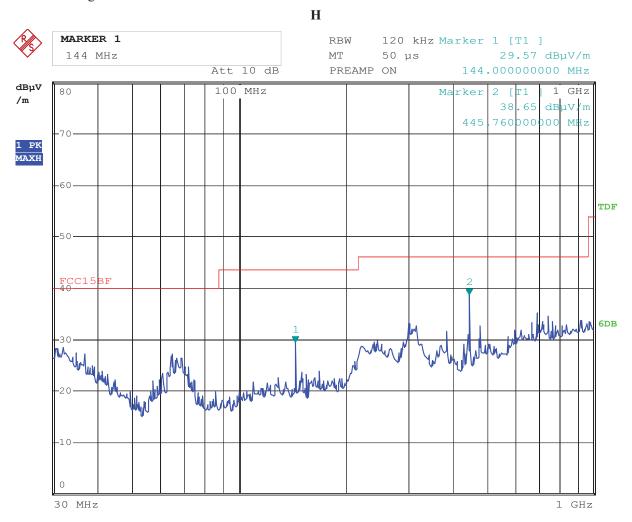
Page 23 of 47

Report No: 1309102-03

Date: 2013-10-10



Test Figure:



Date: 24.SEP.2013 16:03:30

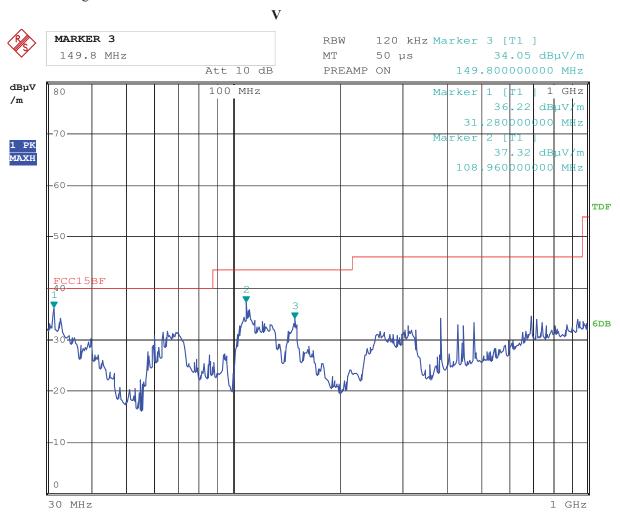
Page 24 of 47

Report No: 1309102-03

Date: 2013-10-10



Test Figure:



24.SEP.2013 16:04:55 Date:

Report No: 1309102-03 Page 25 of 47

Date: 2013-10-10



Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Rear camera On

Results: Pass

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
144.000	34.27	Н	43.50
445.640	35.83	Н	46.00
672.000	38.24	Н	46.00
31.440	33.54	V	40.00
65.280	33.36	V	40.00
120.000	34.99	V	43.50
144.000	35.81	V	43.50

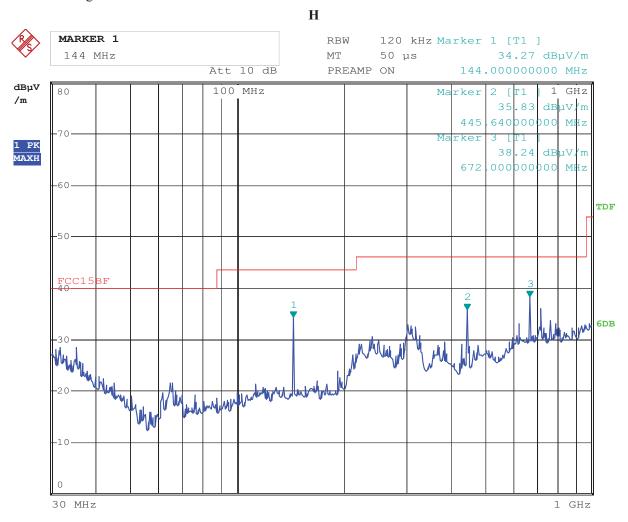
Page 26 of 47

Report No: 1309102-03

Date: 2013-10-10



Test Figure:



Date: 24.SEP.2013 16:02:38

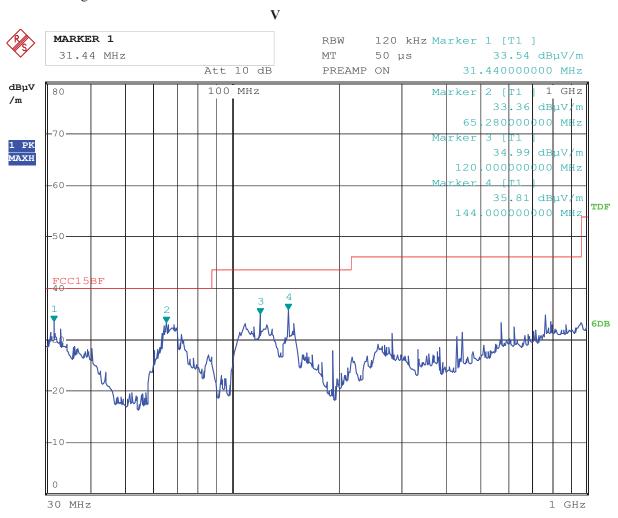
Page 27 of 47

Report No: 1309102-03

Date: 2013-10-10



Test Figure:



24.SEP.2013 15:59:55 Date:

Page 28 of 47

Report No: 1309102-03

Date: 2013-10-10



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

EUT Operating Environment

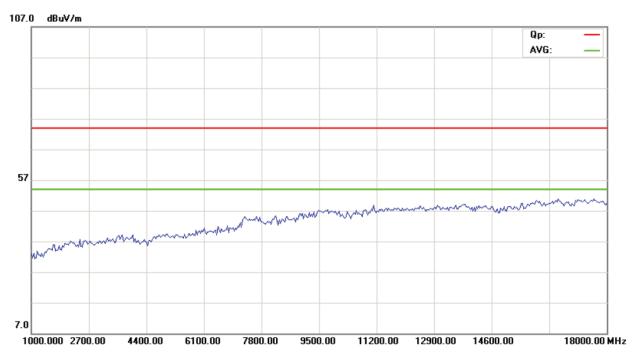
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play USB Disk

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)
		Н	54(AV)
		Н	54(AV)

Date: 2013-10-10



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

EUT Operating Environment

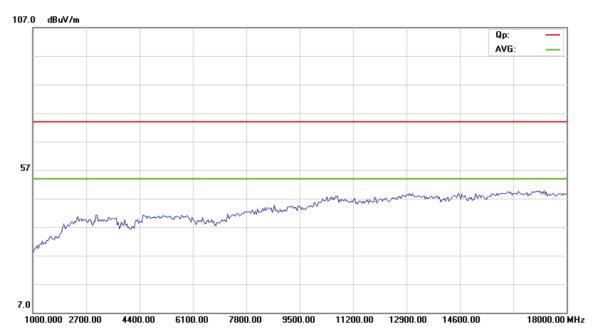
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play USB Disk

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)
	1	V	54(AV)
		V	54(AV)
		V	54(AV)

Report No: 1309102-03 Page 30 of 47

Date: 2013-10-10



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

EUT Operating Environment

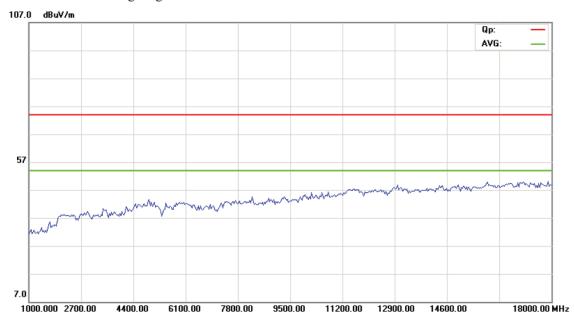
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: PC communication mode by USB port

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)
		Н	54(AV)

Report No: 1309102-03 Page 31 of 47

Date: 2013-10-10



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

EUT Operating Environment

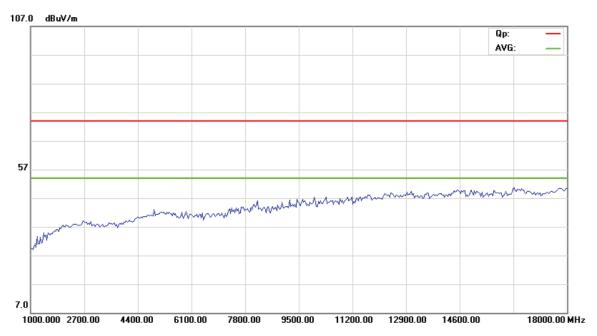
Temperature:25 °C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: PC communication mode by USB port

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)
ĺ			V	54(AV)

Report No: 1309102-03 Page 32 of 47

Date: 2013-10-10



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

EUT Operating Environment

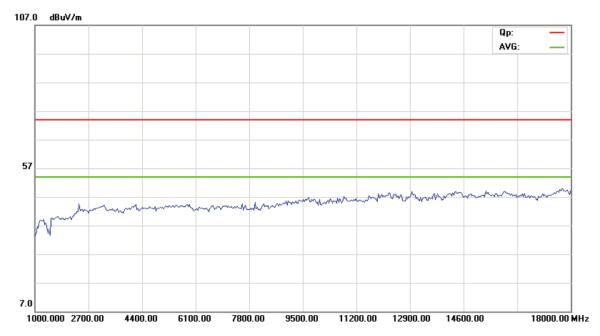
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play TF 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)

Date: 2013-10-10



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

EUT Operating Environment

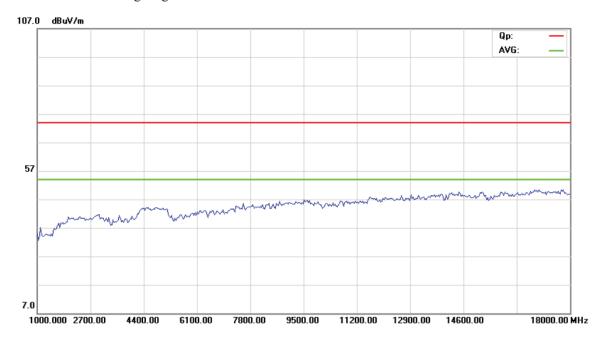
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play TF 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)
		Н	54(AV)

Date: 2013-10-10



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

EUT Operating Environment

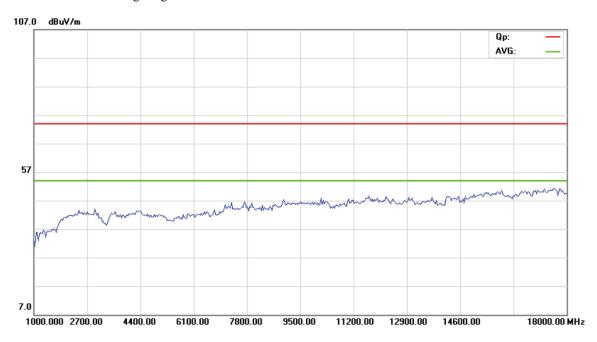
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Front 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)
		Н	54(AV)

Date: 2013-10-10



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

EUT Operating Environment

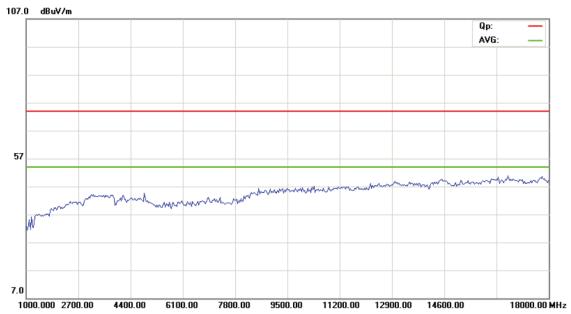
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Front 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)

Report No: 1309102-03 Page 36 of 47

Date: 2013-10-10



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

EUT Operating Environment

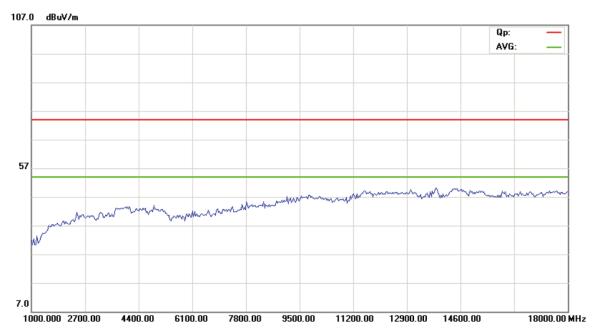
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Rear 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)
		Н	54(AV)

Report No: 1309102-03 Page 37 of 47

Date: 2013-10-10



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

EUT Operating Environment

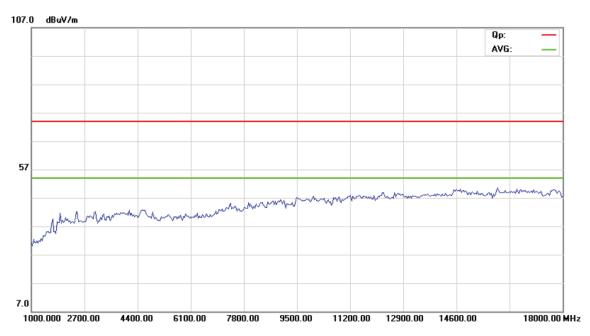
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Rear 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)

Report No: 1309102-03 Page 38 of 47

Date: 2013-10-10



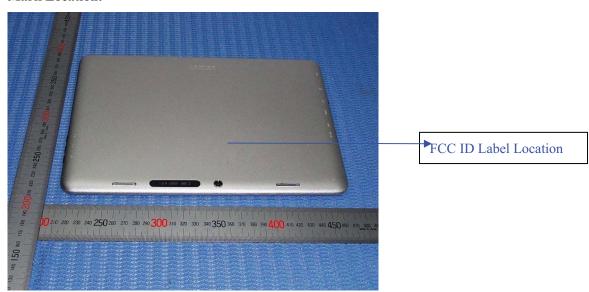
6.0 FCC ID Label

FCC ID: 2AAY2-T3157

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:



Page 39 of 47 Report No: 1309102-03

Date: 2013-10-10



7.0 Photo of testing

Conducted test View--7.1



Date: 2013-10-10



7.2 Radiated emission test view--





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

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Photo for the EUT





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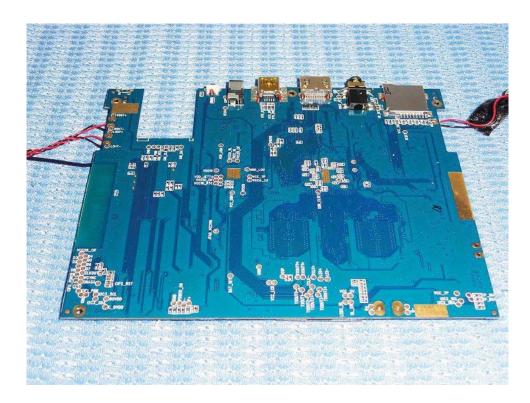
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Photo for the EUT





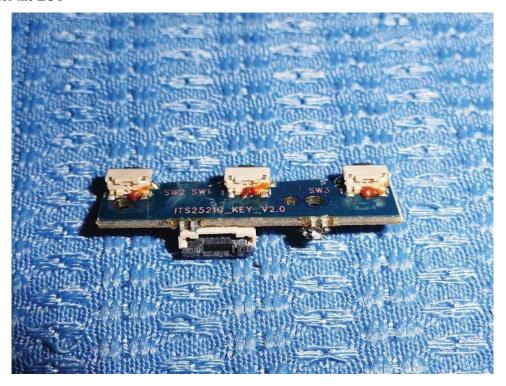
The report refers only to the sample tested and does not apply to the bulk.

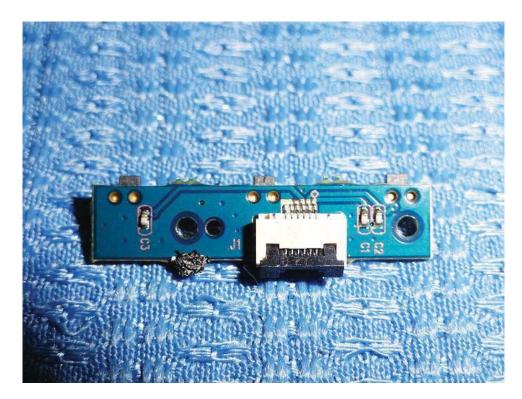
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Photo for the EUT





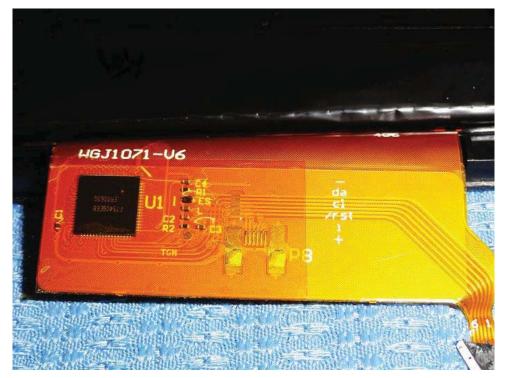
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Page 46 of 47

Report No: 1309102-03

Date: 2013-10-10



Power Supply:





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Report No: 1309102-03 Page 47 of 47

Date: 2013-10-10



Power Supply:



-End of the report-