

FCC-DOC COMPLIANCE REPORT

Test Report No. : E1/2015/50050

Applicant : Walt Disney Parks and Resorts U.S., Inc.
Address : PO Box 10000 Lake Buena Vista, FL32830
Manufacture : Walt Disney Parks and Resorts U.S., Inc.
Address : PO Box 10000 Lake Buena Vista, FL32830

Equipment Under Test (EUT) :

Product Name : Experience Payment Device
Brand Name : N/A
Model No. : xPD-R2G1
Added Model(s) : N/A

Standards : FCC Part 15:2015, Subpart B, Class B
Canada ICES-003 Issue 5(Aug. 2012)

Date of Receipt : May 22, 2015

Date of Test : May 22 ~ Jun. 23, 2015

Date of Issue : July 03, 2015

Test Result :	PASS
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In the configuration tested, the EUT complied with the standards specified above.

Remarks :

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report shall not be reproduced except in full, without the written approval of the laboratory. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Tested By: Mark Liu
Mark Liu (Engineer)

Date: July 03, 2015

Approved By: Victor Wen
Victor Wen (Assistant Manager)

Date: July 03, 2015

Version

Version No.	Description	Date
00	Original report	July 03, 2015

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1. General Information

1.1 Applicant & Manufacturer Information

Applicant : Walt Disney Parks and Resorts U.S., Inc.
Address of Applicant : PO Box 10000 Lake Buena Vista, FL32830
Manufacturer : Walt Disney Parks and Resorts U.S., Inc.
Address of Manufacturer : PO Box 10000 Lake Buena Vista, FL32830

1.2 General Description of EUT

Product Name : Experience Payment Device
Brand Name : N/A
Model No. : xPD-R2G1
Added Model(s) : N/A
Model Difference : N/A

1.3 Details of EUT

Power Rating : From PC System
Modes/Function : Mode 1: Operation mode
Worst case : Mode 1: Operation mode
Maximum Clock Frequency : 13.56 MHz
Adapter : N/A

1.4 Operation Procedure

1. Set up EUT with support units and turn on the power of all equipments.
2. Pre-test the EUT in all modes by each mode, then figure out the worst case.
3. Operate EUT under normal operation pattern.

1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Adaptor	HuntKey	HKA03619021-6C	A36B4212A003762
Mouse	DELL	MS111-T	CN-OKW2YH-71616-1CC-16PE
Mouse (EMS)	Lenovo	MSU1175	3D908D3319B
Cardle	DLI	DLI10-DTC	Eng001
Table PC	DLI	DLI10	ENG 000

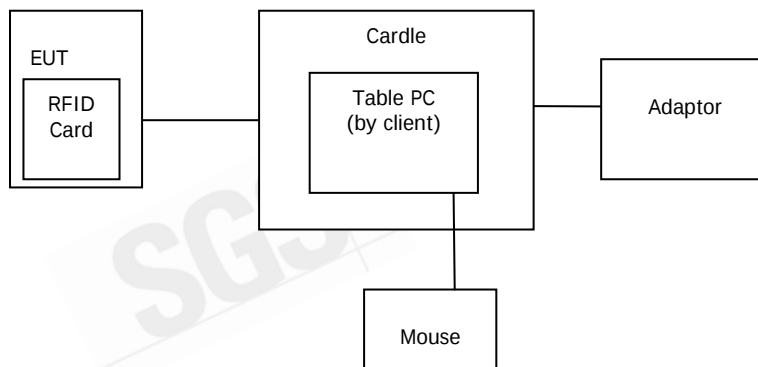
1.6 Modification List

No modification was made by SGS Taiwan Electronics & Communication Laboratory.

1.7 Cable List

Cable Type	Length	Shielding/Non-shielding
USB cable with core near power input&output	1.75 m	Shielding

1.8 Test Set-Up Configuration



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1.9 Measurement Procedure

Conducted Emission Testing was performed according to ANSI C63.4:2009 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2009 at the 10m semi-anechoic chamber. The EUT was placed on a 0.8m high table along with the peripherals. The turn table was placed 10m distance from the antenna. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for production of maximum emission.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

1.10 Standards Applicable for Testing

Tests to be carried out under FCC Part 15, Subpart B

Test Standards	Status
FCC Part 15, Subpart B	Applicable
Deviation from Standard	No deviation

1.11 Summary of Results

Standard	Test Type	Highest Emission			
		Result	Phase / Pol.	Frequency(MHz)	Margin(dB)
FCC Part 15 Subpart B Class B / CISPR 22 Class B Canada ICES-003 Issue 5(Aug. 2012)	Conducted Emission	PASS	Line	0.1600	-8.33(QP)
			Neutral	0.1606	-8.41(QP)
	Radiated Emission	PASS	Hor.	311.9960	-2.43(QP)

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2. EMISSION

2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission for FCC Part 15, Subpart B/CISPR 22

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note : (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

2.3.2 Limits of Radiated Emissions for FCC Part 15, Subpart B/CISPR 22

FCC Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.44	46
Above 960	49.54	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV) (at 3m)		Class B (dBuV) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	79.3	59.3	73.9	53.9

CISPR Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30-230	40	30
230-1000	47	37

- Detector Function : Peak , Average – Class A

Frequency range GHz	Average Limit dB(μV/m)	Peak Limit dB(μV/m)
1 to 3	56	76
3 to 6	60	80

- Detector Function : Peak , Average – Class B

Frequency range GHz	Average Limit dB(μV/m)	Peak Limit dB(μV/m)
1 to 3	50	70
3 to 6	54	74

Note : The lower limit applies at the transition frequency.

2.4 Test of Conducted Emission

2.4.1 Test Equipments

SGS Conducted Emission Test Site No. A

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101311	Jun. 20, 2014	Jun. 19, 2015
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	Feb. 06, 2015	Feb. 05, 2016
LISN	Schwarzbeck	NSLK 8128	NSLK8128-300	Jun. 19, 2014	Jun. 18, 2015
Pulse Limiter	Narda S.T.S.	PMM PL01	1110X30602	Aug. 13, 2014	Aug. 12, 2015
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

2.4.2 Test Site

SGS Taiwan LTD. Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

2.4.3 Operating Environment

Temperature : 25 degree C Humidity : 64 %RH
Atmospheric Pressure : 992 mBar

2.4.4 Measurement Uncertainty of Conducted Emission

Expanded uncertainty (K=2) of conducted emission is 2.20 dB.

2.4.5 Measurement Level Calculation

Factor = LISN insertion loss + Cable loss
Measurement Level = Reading Level + Factor
Over (Margin) = Measurement Level – Limit

2.4.6 Measurement Data:

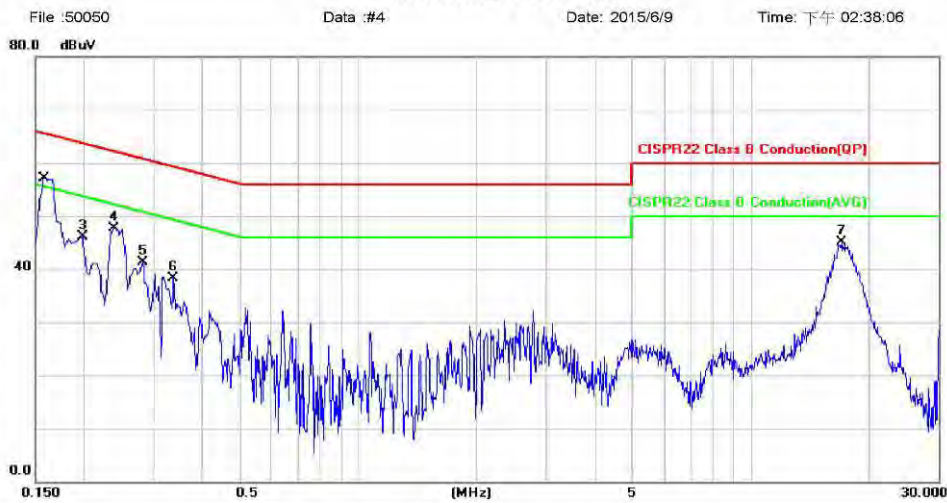
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Site : Conduction Room
Limit: CISPR22 Class B Conduction(QP)
Mode: Mode1
Note: 不開啟軟體的RFID掃描功能

Phase: L1
Power: From System

Temperature: 25 °C
Humidity: 64 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1600	57.00	0.13	57.13	65.46	-8.33	QP	
2		0.1600	42.30	0.13	42.43	55.46	-13.03	AVG	
3		0.1980	45.96	0.12	46.08	63.69	-17.61	peak	
4		0.2380	47.58	0.14	47.72	62.17	-14.45	peak	
5		0.2820	41.15	0.16	41.31	60.76	-19.45	peak	
6		0.3380	38.04	0.19	38.23	59.25	-21.02	peak	
7		17.0980	44.27	0.82	45.09	60.00	-14.91	peak	

*:Maximum data x:Over limit !:over margin

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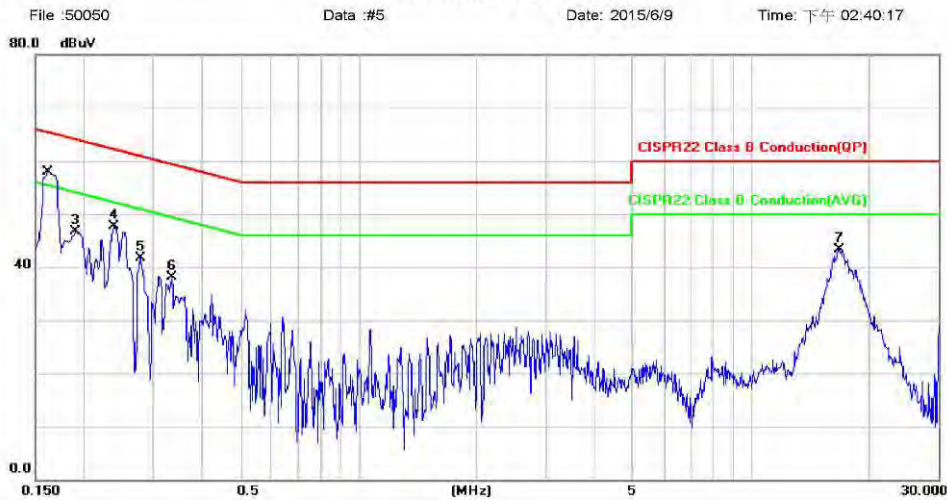
N

Site : Conduction Room
Limit: CISPR22 Class B Conduction(QP)
Mode: Mode1
Note: 不開啟軟體的RFID掃描功能

Phase: N
Power: From System

Temperature: 25 °C
Humidity: 64 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1606	56.91	0.11	57.02	65.43	-8.41	QP	
2		0.1606	42.72	0.11	42.83	55.43	-12.60	AVG	
3		0.1900	46.53	0.10	46.63	64.04	-17.41	peak	
4		0.2380	47.63	0.12	47.75	62.17	-14.42	peak	
5		0.2780	41.49	0.13	41.62	60.88	-19.26	peak	
6		0.3340	37.95	0.16	38.11	59.35	-21.24	peak	
7		16.7740	42.42	0.84	43.26	60.00	-16.74	peak	

*:Maximum data x:Over limit !:over margin

File :50050\Data :#5

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2.5 Test of Radiated Emission

2.5.1 Test Instruments

Below 1GHz

SGS 10m Chamber					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101342	Jan. 05, 2015	Jan. 04, 2016
EMI Test Receiver	R&S	ESCI 3	101343	Dec. 30, 2014	Dec. 29, 2015
Broadband Antenna	TESEQ	CBL 6112D	35241	Dec. 23, 2014	Dec. 22, 2015
Broadband Antenna	TESEQ	CBL 6112D	35242	Dec. 23, 2014	Dec. 22, 2015
Pre Amplifier	EMC Instruments	EMC330	980178	Mar. 31, 2015	Mar. 30, 2016
Pre Amplifier	EMC Instruments	EMC330	980179	Mar. 31, 2015	Mar. 30, 2016
Coaxial Cable	Huber+Suhner	RG 214/U	W30.02	Mar. 31, 2015	Mar. 30, 2016
Coaxial Cable	Huber+Suhner	RG 214/U	W31.02	Mar. 31, 2015	Mar. 30, 2016
Coaxial Cable	Huber+Suhner	RG 214/U	W32.02	Mar. 31, 2015	Mar. 30, 2016
Coaxial Cable	Huber+Suhner	RG 214/U	W30.03	Mar. 31, 2015	Mar. 30, 2016
Coaxial Cable	Huber+Suhner	RG 214/U	W31.03	Mar. 31, 2015	Mar. 30, 2016
Coaxial Cable	Huber+Suhner	RG 214/U	W32.03	Mar. 31, 2015	Mar. 30, 2016
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site NSA	SGS	10m Chamber	10M SAC	Dec. 31, 2014	Dec. 30, 2015
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

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Above 1GHz

SGS 966 Chamber No. A					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV 40	101419	Jan. 19, 2015	Jan. 18, 2016
EMI Test Receiver	R&S	ESR 7	101459	Jan. 21, 2015	Jan. 20, 2016
Horn Antenna	Schwarzbeck	BBHA9120D	BBHA9120D803	Jan. 27, 2015	Jan. 26, 2016
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	Dec. 25, 2014	Dec. 24, 2015
Pre Amplifier	EMC Instruments	EMC012645B	980216	Sep. 30, 2014	Sep. 29, 2015
Pre Amplifier	EMC Instruments	EMC184045B	980135	Oct. 27, 2014	Oct. 26, 2015
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	Apr. 23, 2015	Apr. 22, 2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	30255/4PEA	Apr. 23, 2015	Apr. 22, 2016
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	Apr. 23, 2015	Apr. 22, 2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2152/2	Jun. 05, 2015	Jun. 04, 2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	Jun. 05, 2015	Jun. 04, 2016
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site VSWR	SGS	966 Chamber A	SAC-A	Jan. 12, 2015	Jan. 11, 2016
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

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2.5.2 Test Site

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2.5.3 Operating Environment

Temperature : 21 degree C Humidity : 79 %RH
Atmospheric Pressure : 996 mBar

2.5.4 Measurement Uncertainty of Radiated Emission

Expanded uncertainty (k=2) of radiated emission measurement is 4.24 dB. (30-1000MHz)
Expanded uncertainty (k=2) of radiated emission measurement is 4.96 dB. (1-6GHz)

2.5.5 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain
Measurement Level = Reading Level + Correction Factor
Over (Margin) = Measurement Level – Limit

2.5.6 Measurement Data

Below 1GHz

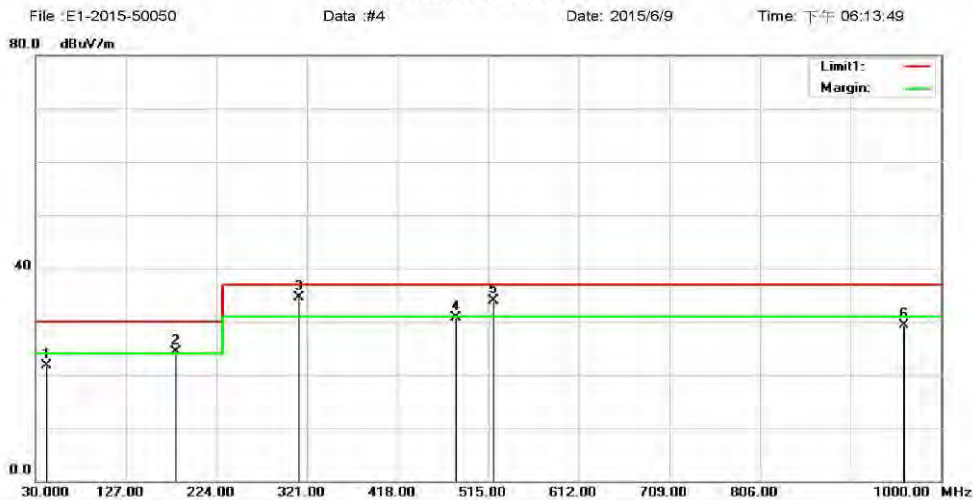
Horizontal Polarization

Site: SGS 10m Chamber
 Limit: CISPR22 Class B 10M Radiation
 Mode: Mode 1
 Note:

Polarization: **Horizontal**
 Power: AC 120V/60Hz
 Distance: 10m

Temperature: 21 °C
 Humidity: 79 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		40.6940	39.52	-17.76	21.76	30.00	-8.24	QP	
2	!	180.0160	45.16	-20.83	24.33	30.00	-5.67	QP	
3	*	311.9960	50.20	-15.63	34.57	37.00	-2.43	QP	
4		480.0280	42.05	-11.28	30.77	37.00	-6.23	QP	
5	!	519.9980	44.51	-10.62	33.89	37.00	-3.11	QP	
6		960.0620	35.10	-5.88	29.22	37.00	-7.78	QP	

*: Maximum data x: Over limit !: over margin

File: E1-2015-50050\Data: #4

Page: 1

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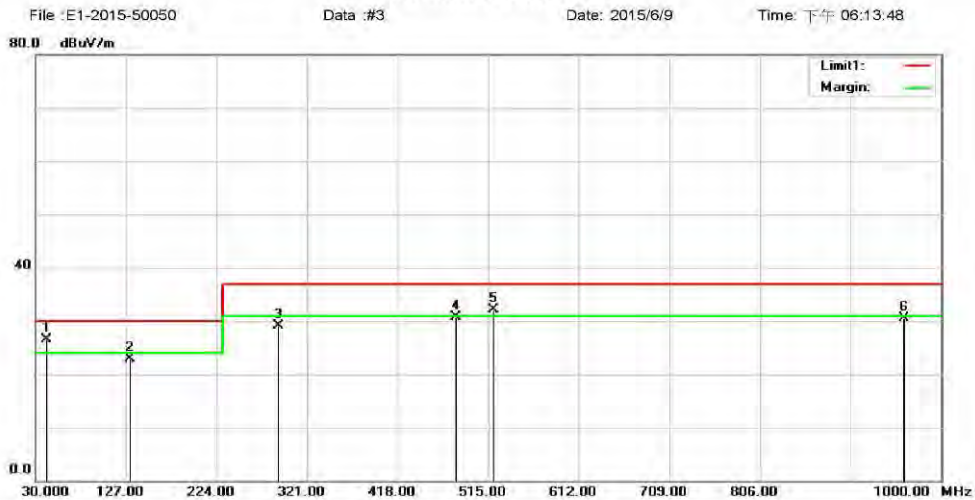
Vertical Polarization

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Mode 1
Note:

Polarization: **Vertical**
Power: AC 120V/60Hz
Distance: 10m

Temperature: 21 °C
Humidity: 79 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	40.6760	43.61	-17.11	26.50	30.00	-3.50	QP	
2		130.0120	40.33	-17.51	22.82	30.00	-7.18	QP	
3		290.2920	44.29	-15.13	29.16	37.00	-7.84	QP	
4		480.0220	40.89	-10.09	30.80	37.00	-6.20	QP	
5	!	519.9980	41.36	-9.28	32.08	37.00	-4.92	QP	
6		960.0570	34.77	-4.35	30.42	37.00	-6.58	QP	

*: Maximum data x: Over limit !: over margin

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Above 1GHz

Horizontal Polarization

Site: SGS 966 Chamber A

Limit: CISPR22 Class B Radiation 1G-18G(Peak)

Mode: Mode 1

Note:

Polarization: **Horizontal**

Power: AC 120V/60Hz

Distance:

Temperature: 23 °C

Humidity: 65 %

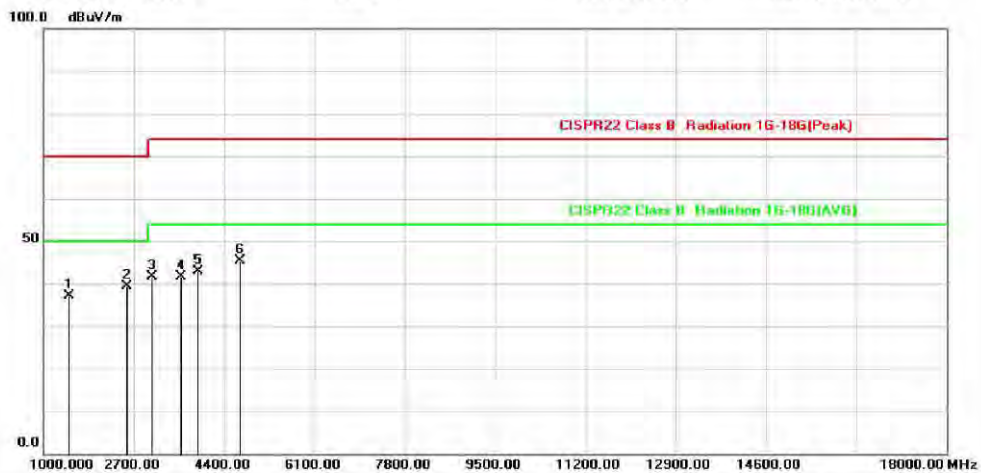
Radiated Emission

File: E1-2015-50050

Data: #4

Date: 2015/6/10

Time: 下午 07:05:38



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1493.000	59.21	-22.16	37.05	70.00	-32.95	peak	
2		2564.000	57.32	-17.98	39.34	70.00	-30.66	peak	
3		3057.000	58.13	-16.56	41.57	74.00	-32.43	peak	
4		3601.000	56.97	-15.30	41.67	74.00	-32.33	peak	
5		3907.000	57.47	-14.50	42.97	74.00	-31.03	peak	
6 *		4706.000	57.66	-12.27	45.39	74.00	-28.61	peak	

* Maximum data x: Over limit !: over margin

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Vertical Polarization

Site : SGS 966 Chamber A

Limit: CISPR22 Class B Radiation 1G-18G(Peak)

Mode: Mode 1

Note:

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance:

Temperature: 23 °C

Humidity: 65 %

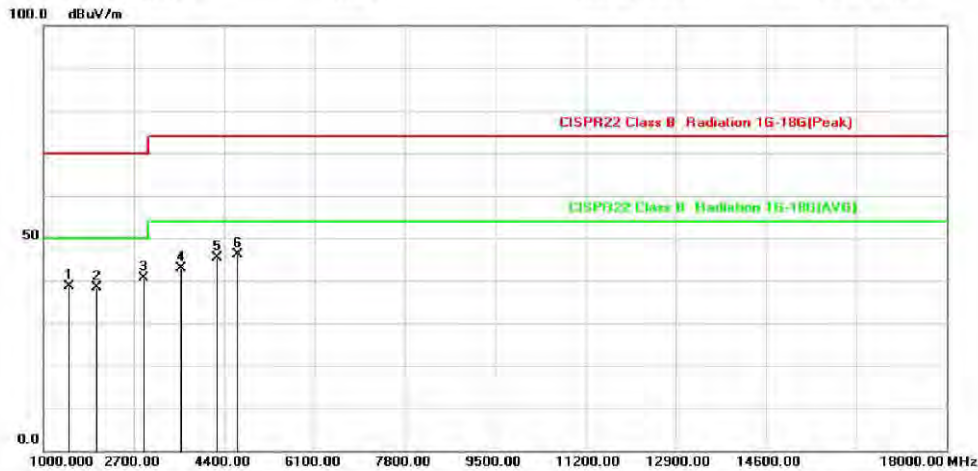
Radiated Emission

File :E1-2015-50050

Data :#3

Date: 2015/6/10

Time: 下午 07:04:36



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1493.000	60.90	-22.16	38.74	70.00	-31.26	peak	
2		2003.000	58.60	-20.30	38.30	70.00	-31.70	peak	
3		2887.000	57.77	-17.02	40.75	70.00	-29.25	peak	
4		3584.000	58.23	-15.35	42.88	74.00	-31.12	peak	
5		4264.000	58.85	-13.57	45.28	74.00	-28.72	peak	
6 *		4655.000	58.47	-12.43	46.04	74.00	-27.96	peak	

*:Maximum data x:Over limit !:over margin

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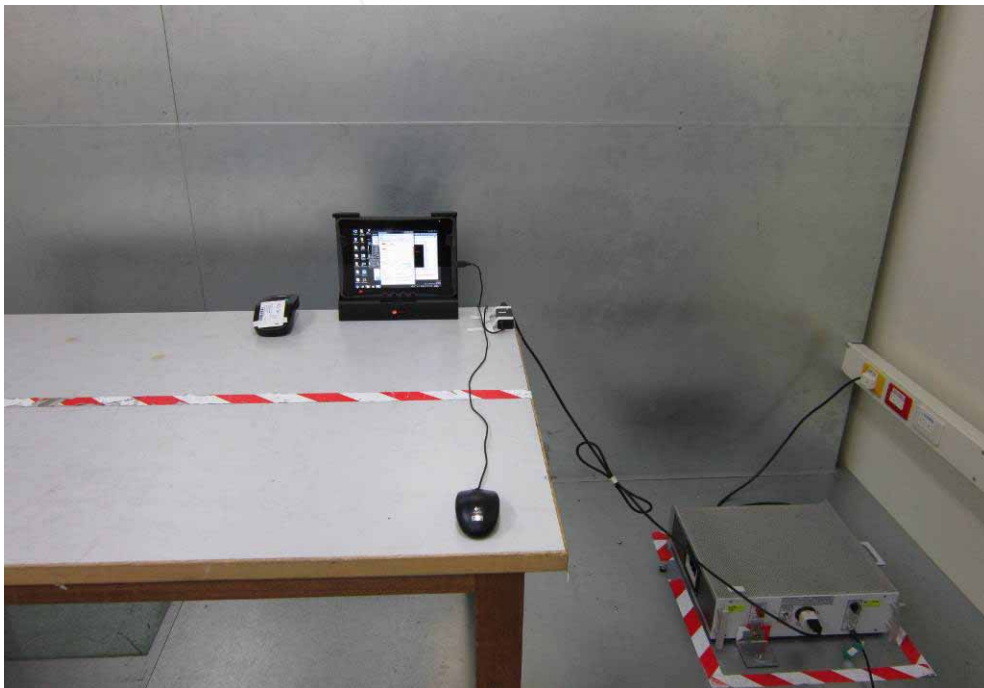
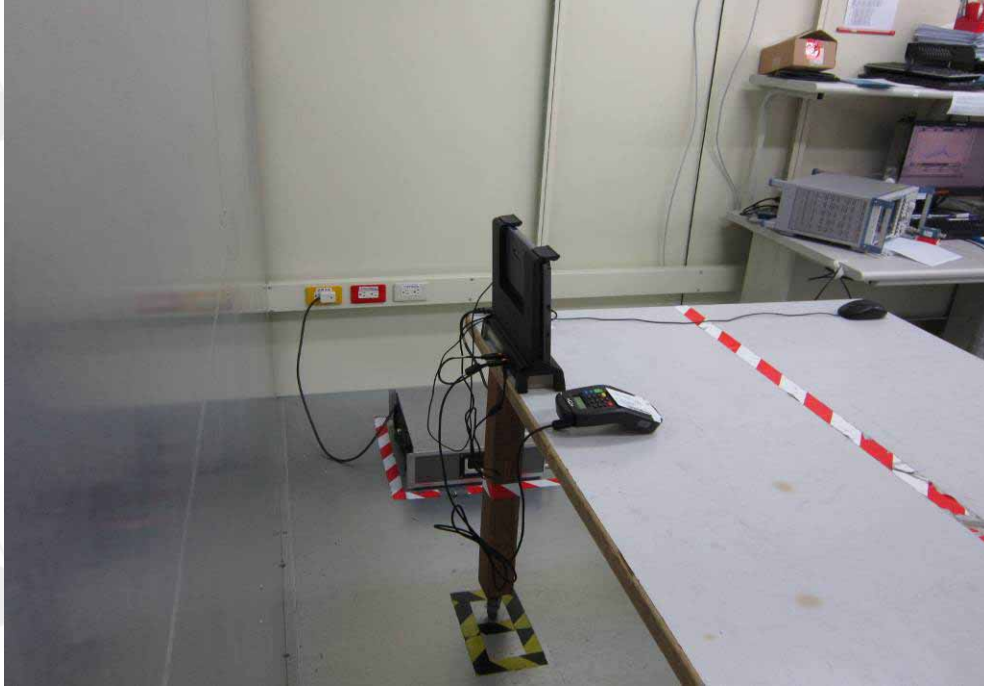
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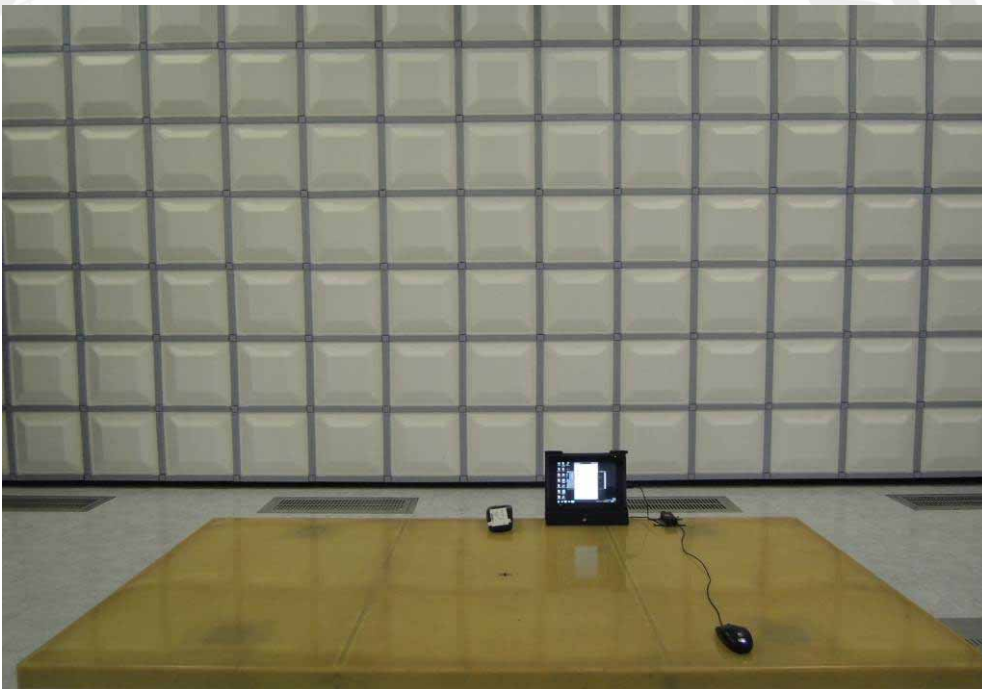
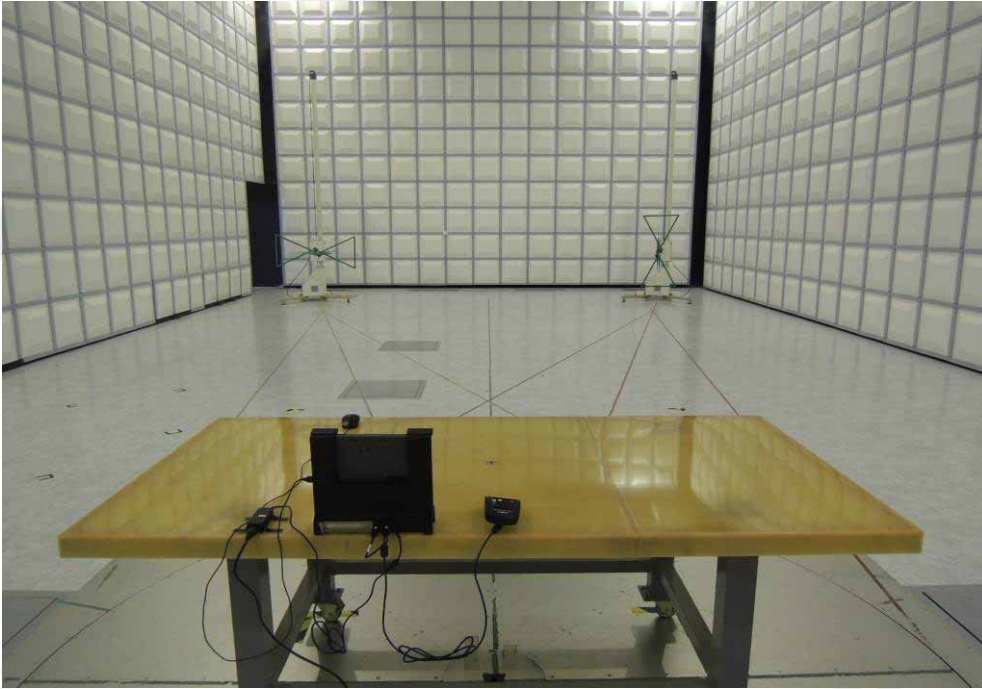
3. Photographs of Test

CE Testing Set-up



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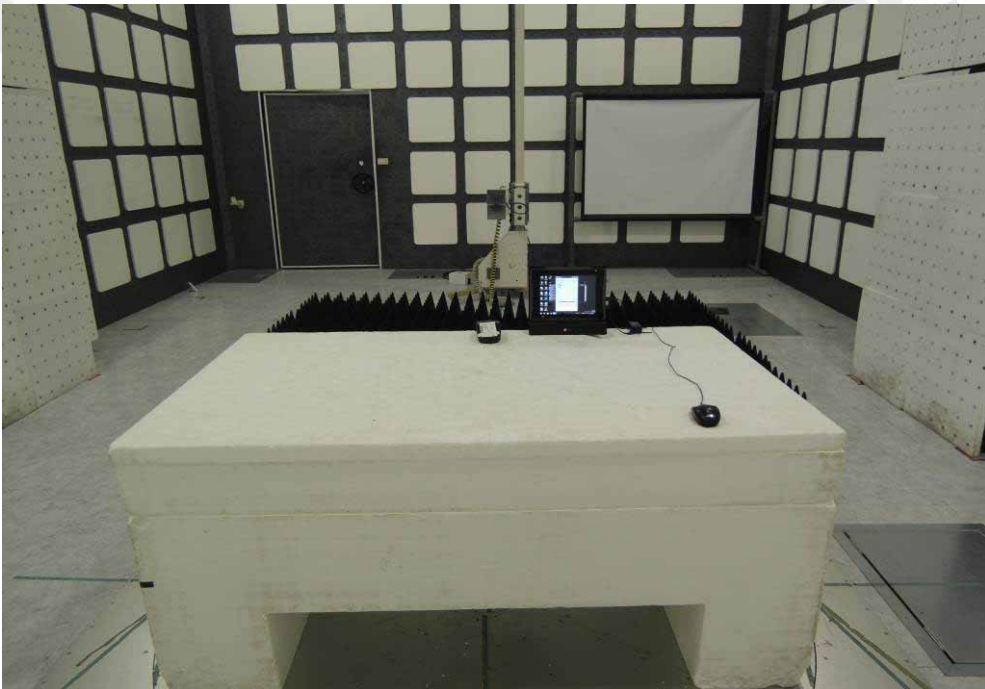
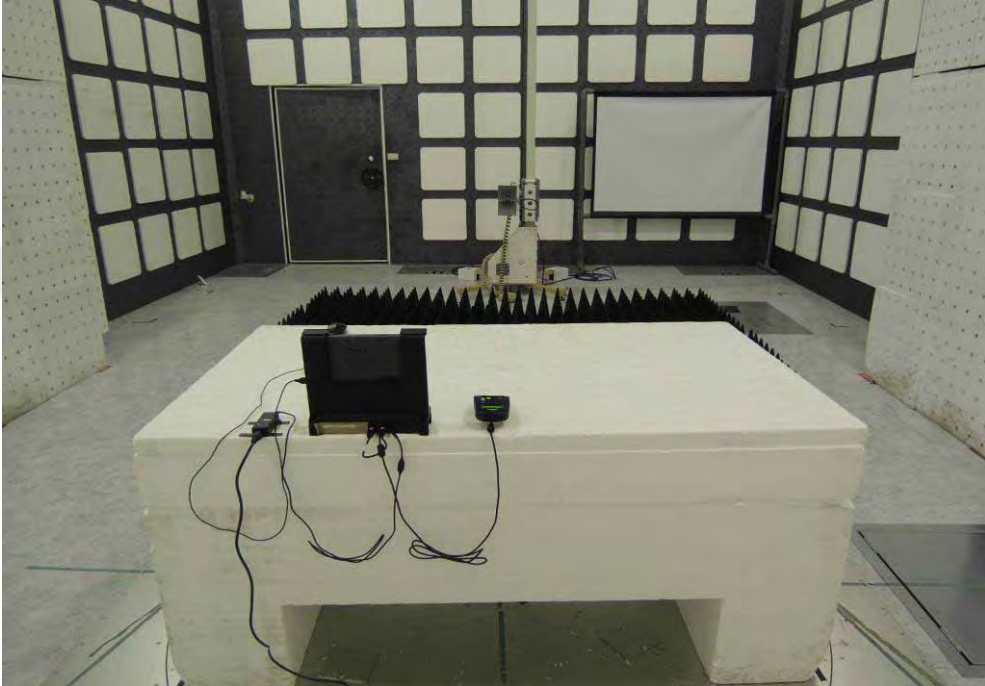
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**RE Testing Set-up
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Above 1GHz



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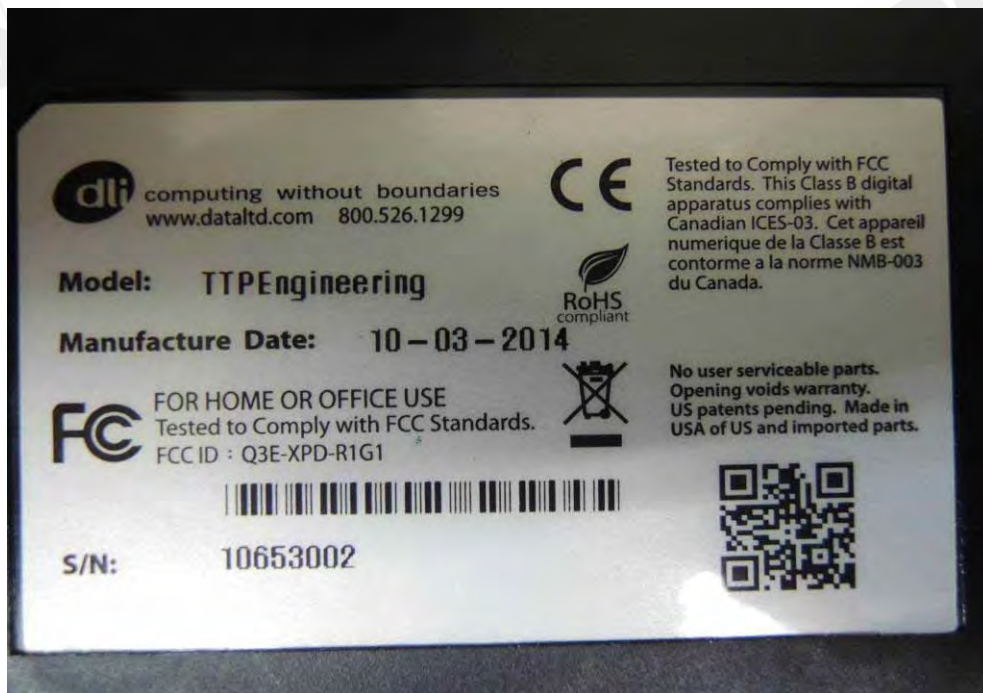
4. Photographs of Product

Exterior



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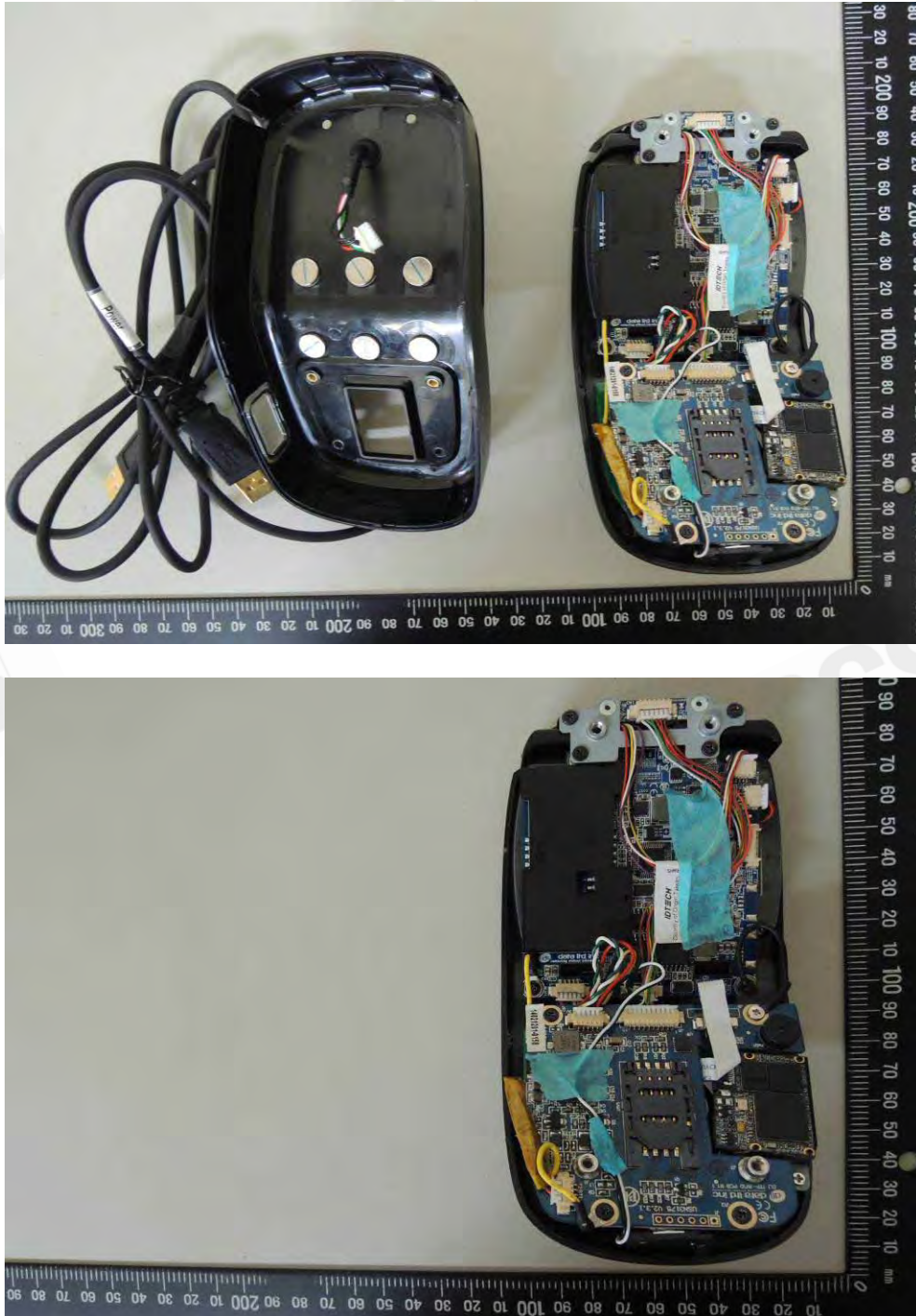
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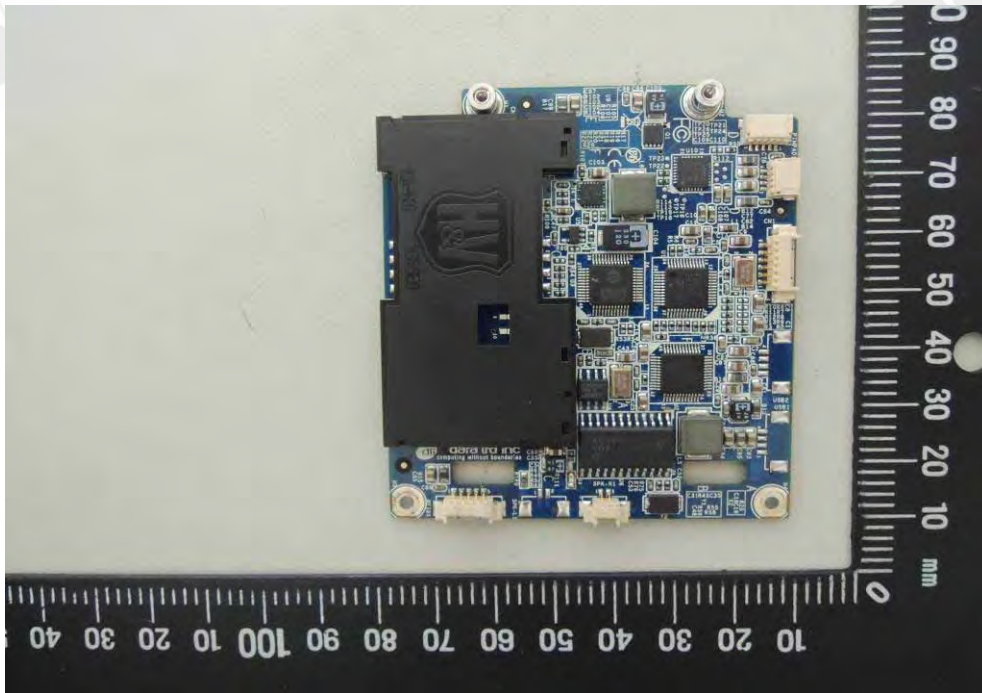
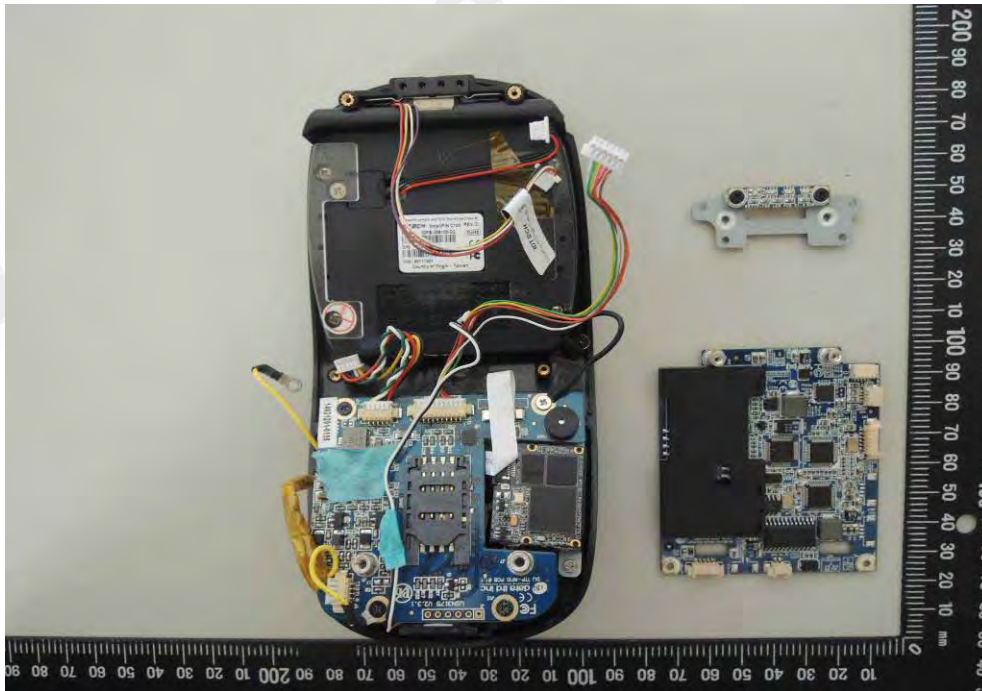
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Interior



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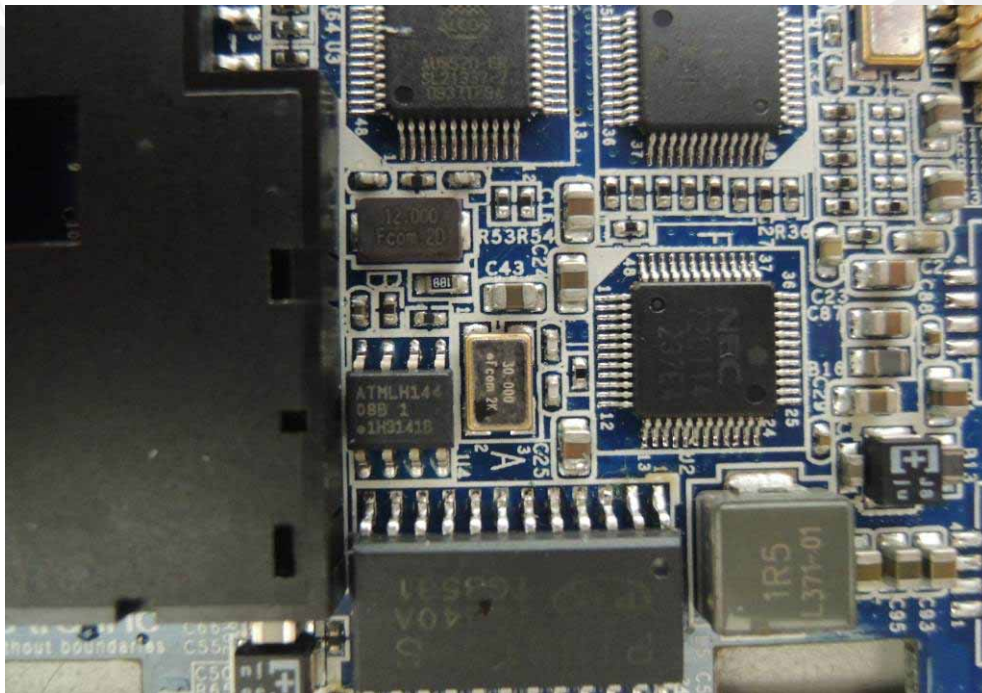
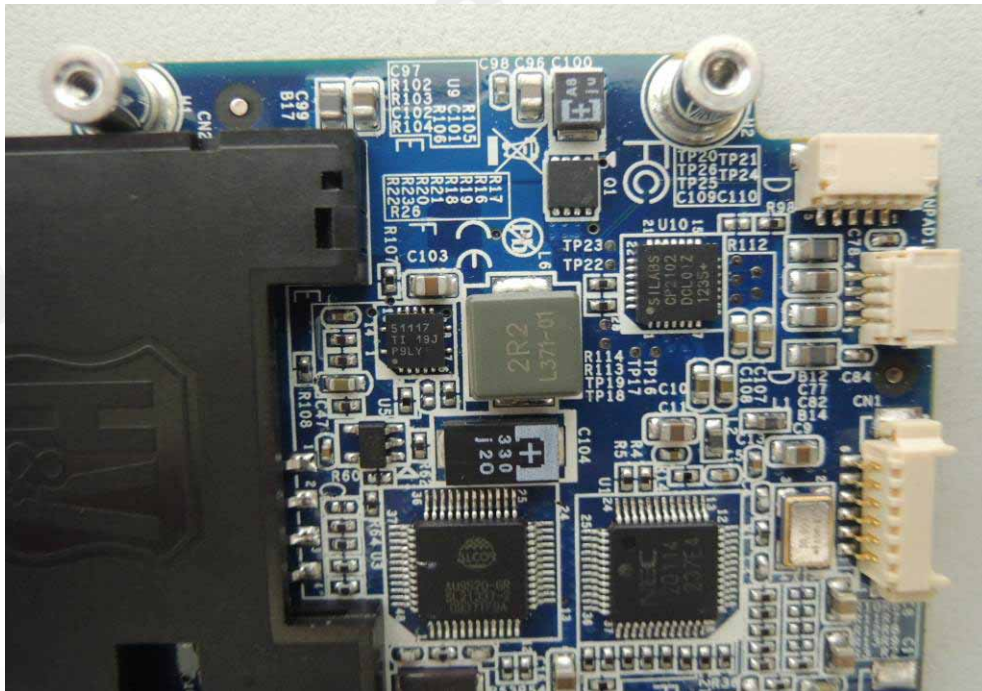
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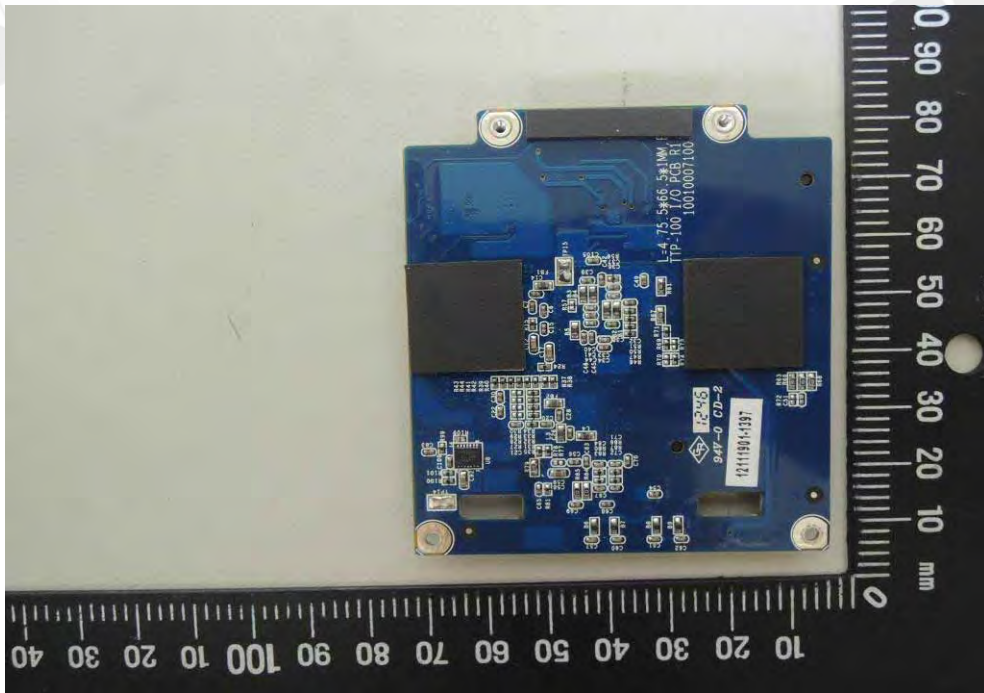
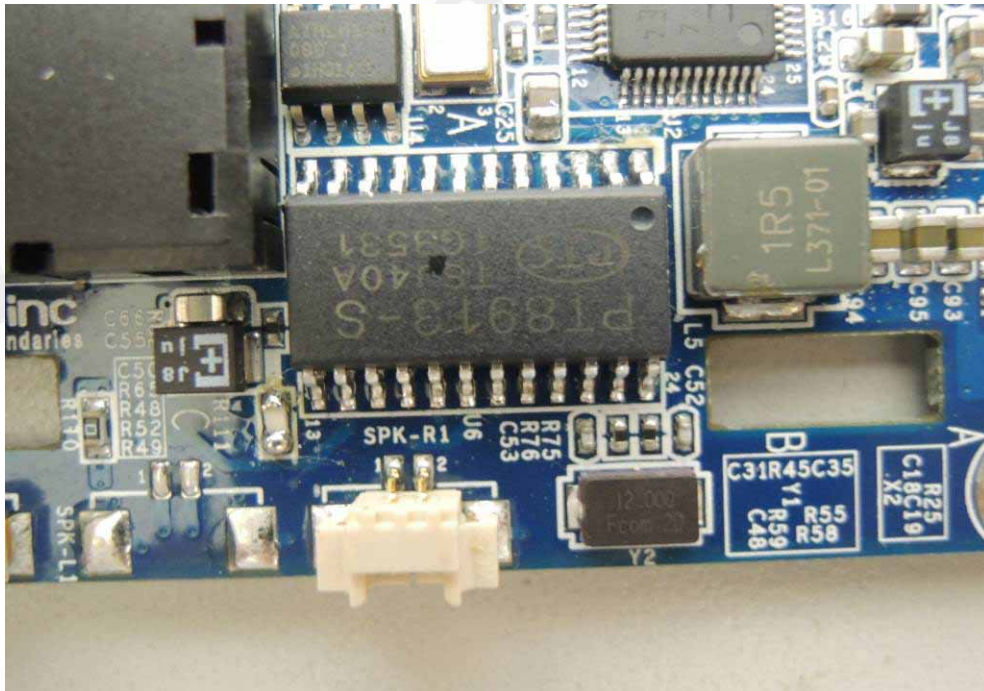
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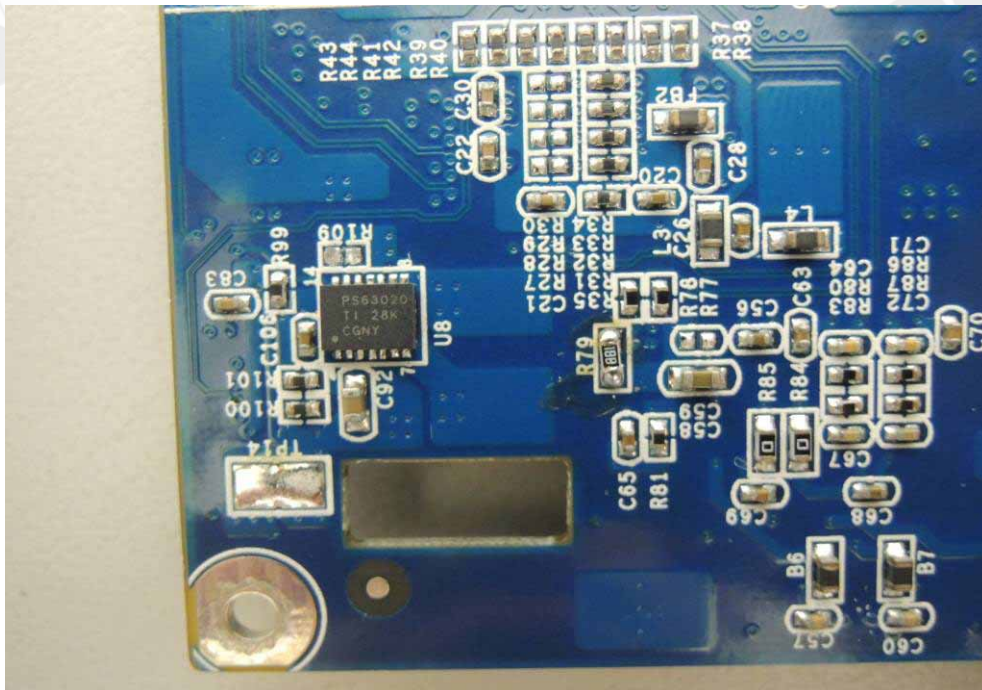
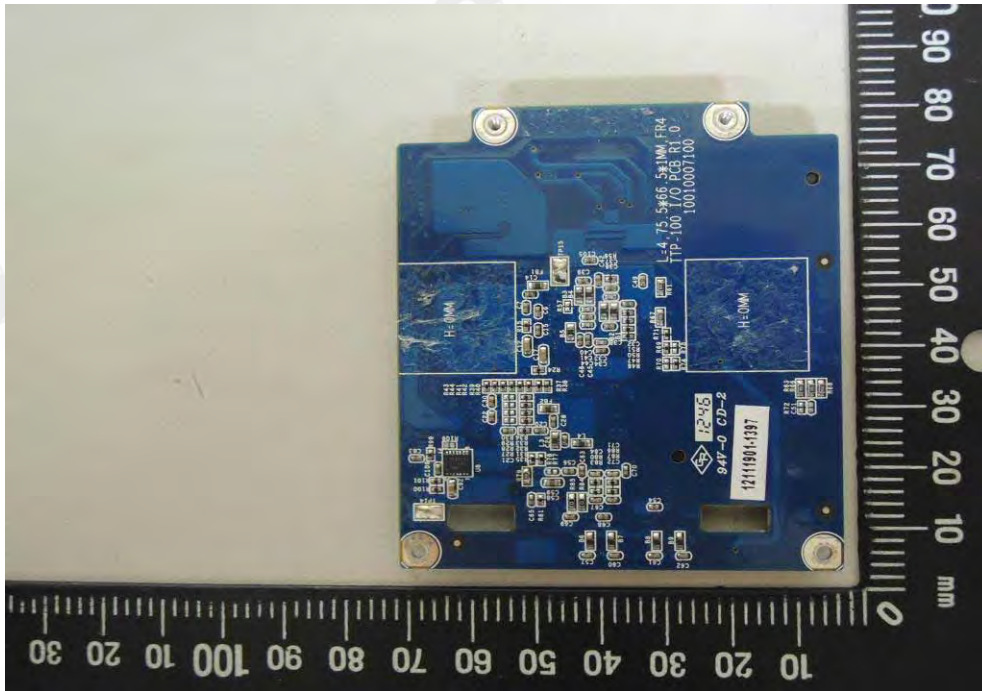
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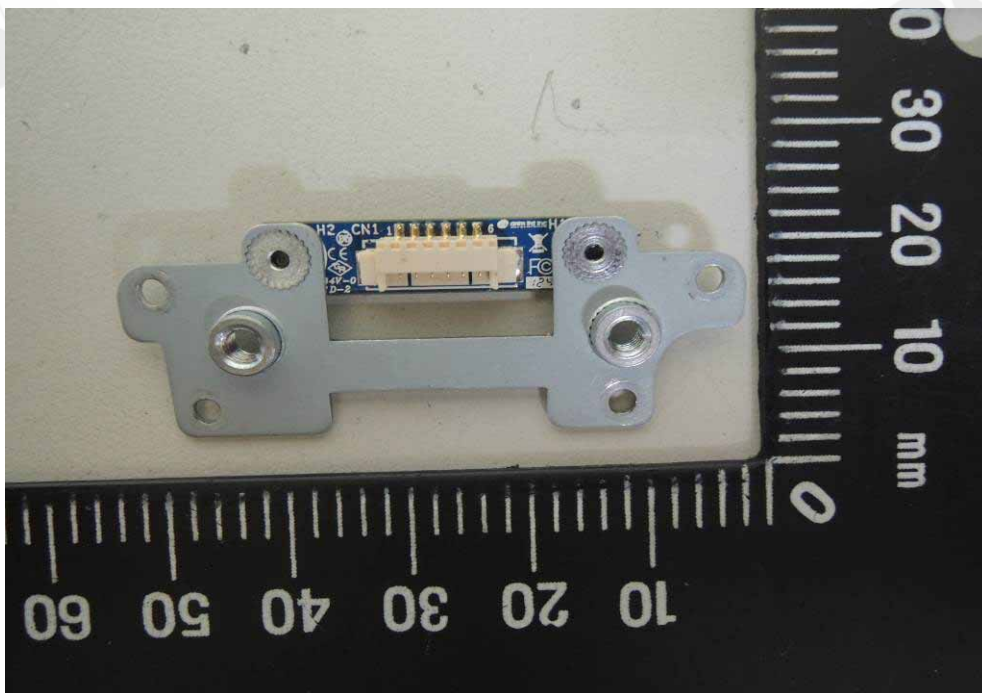
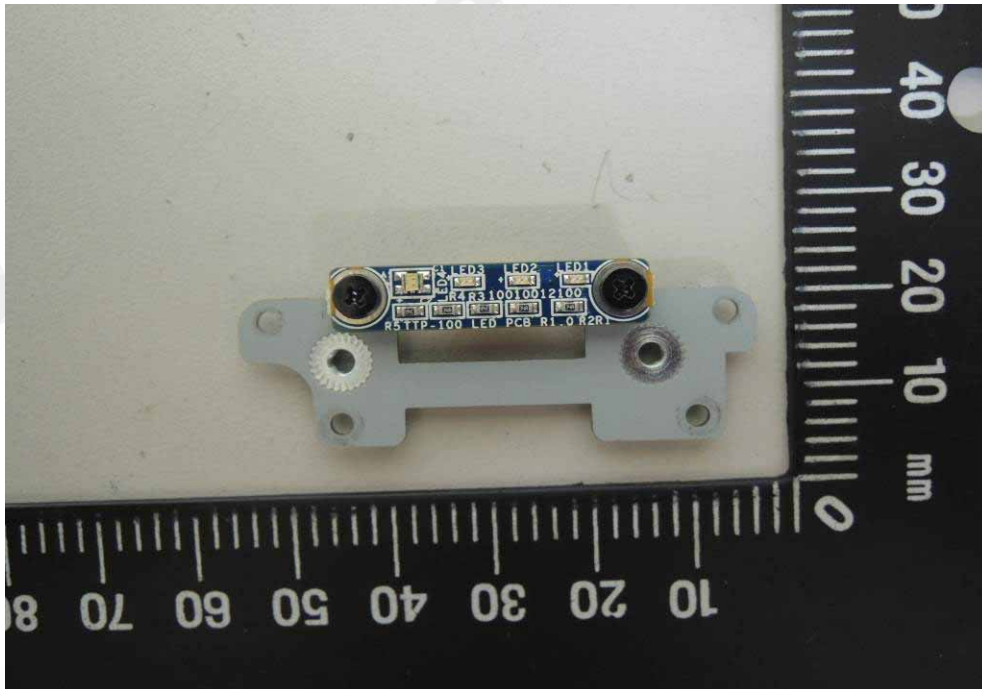
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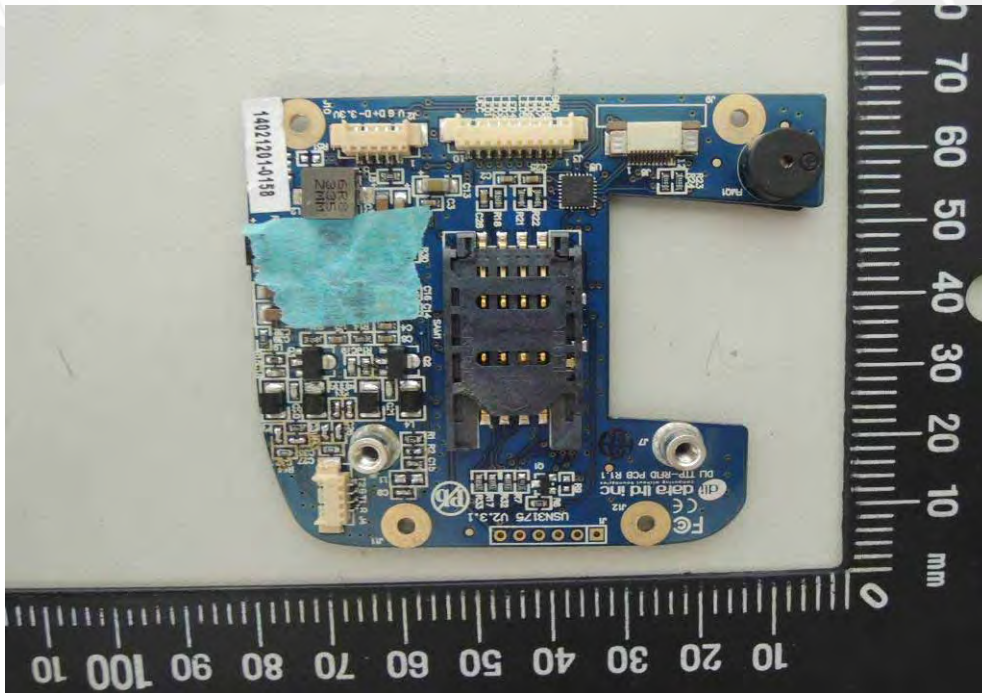
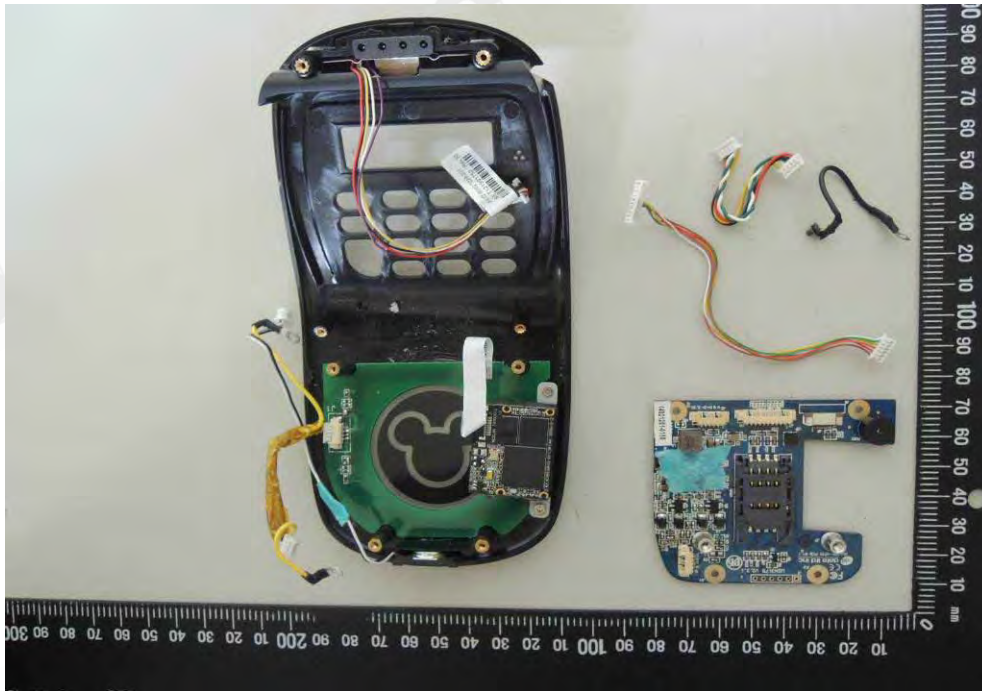
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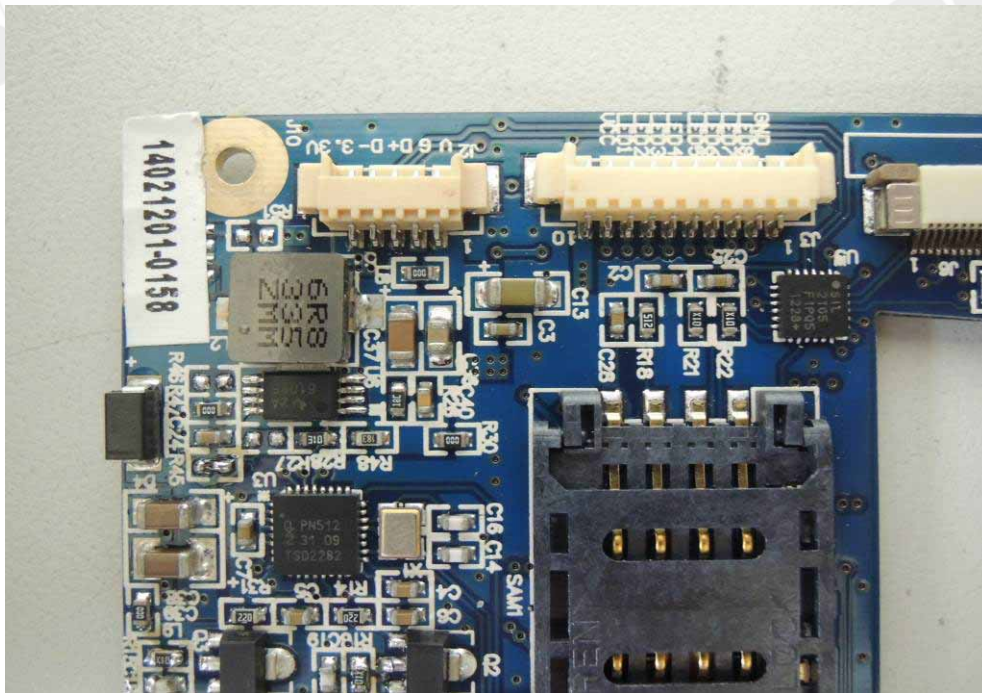
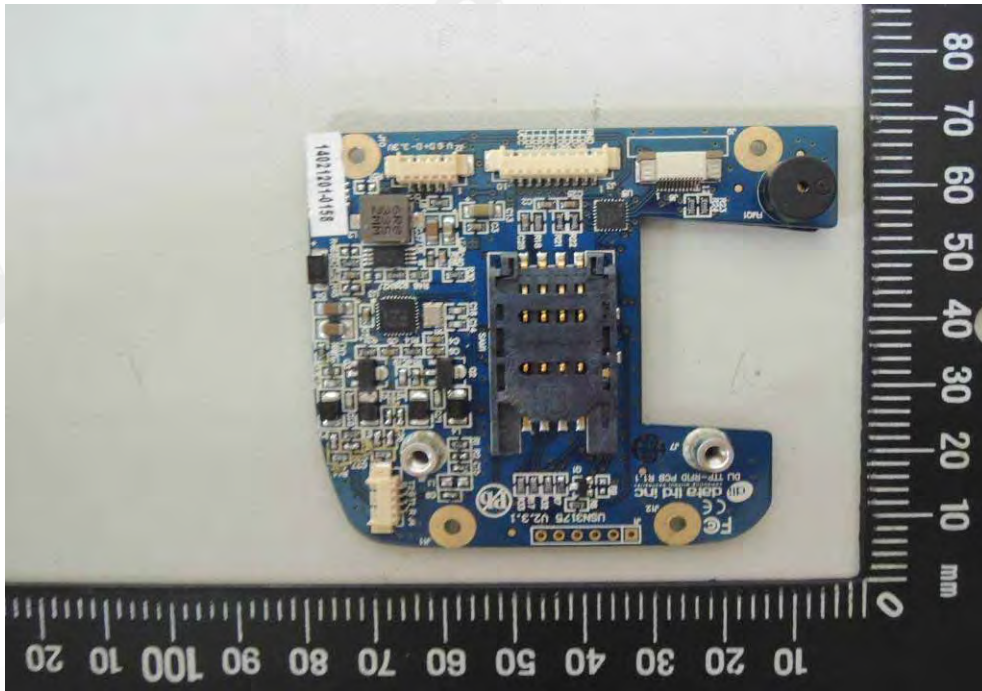
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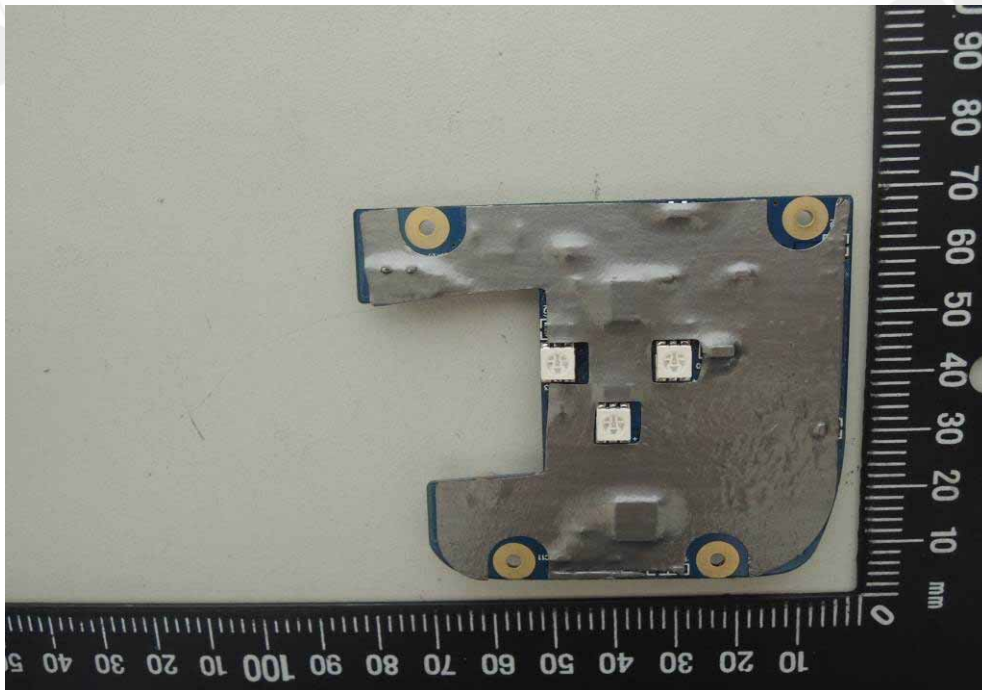
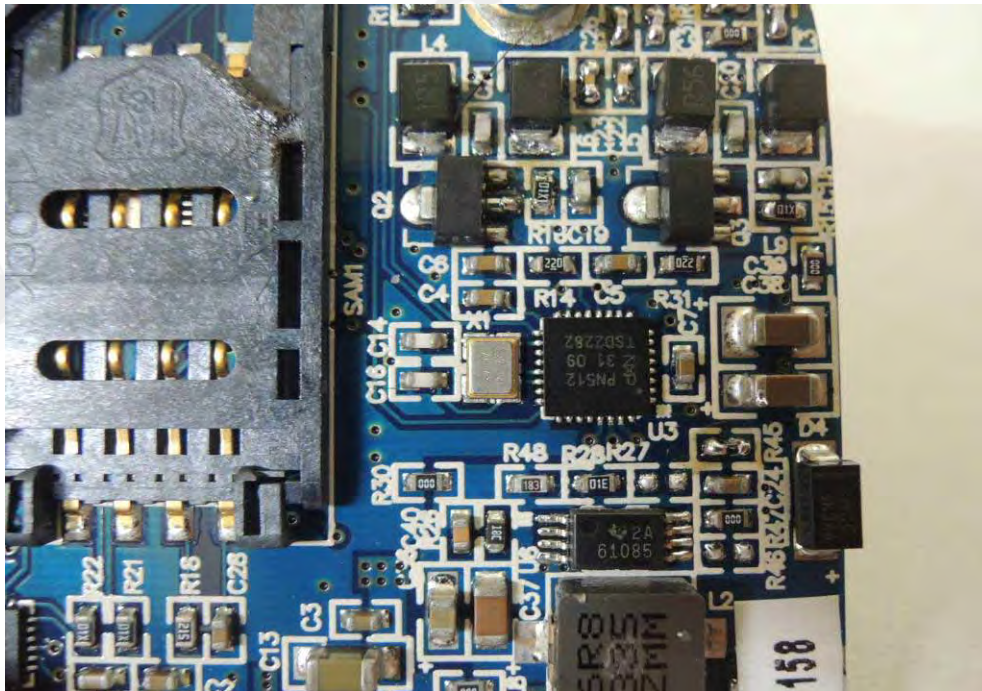
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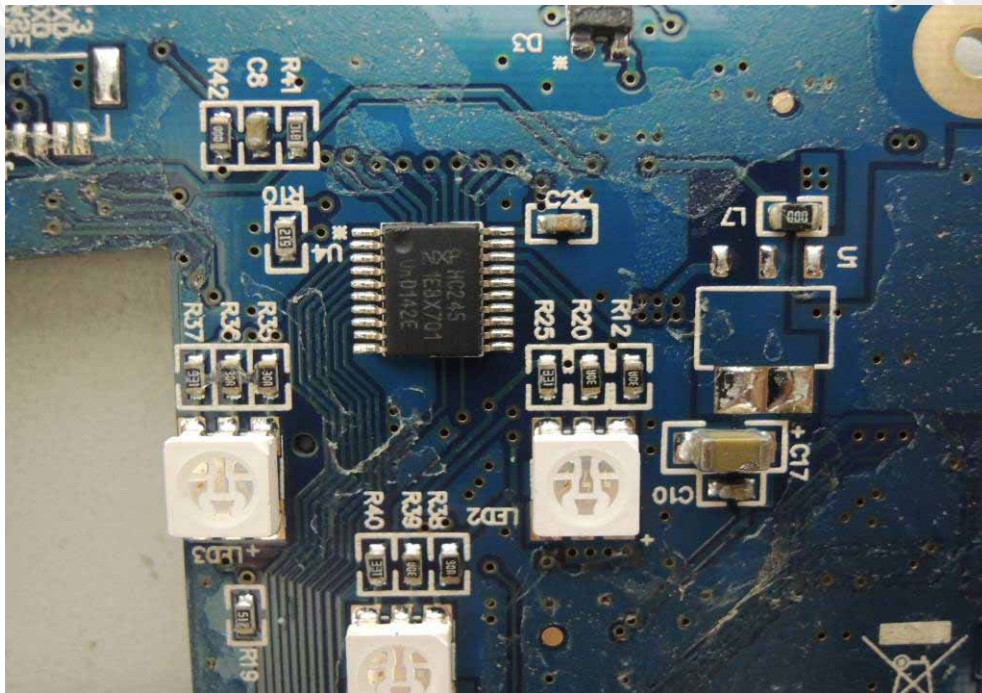
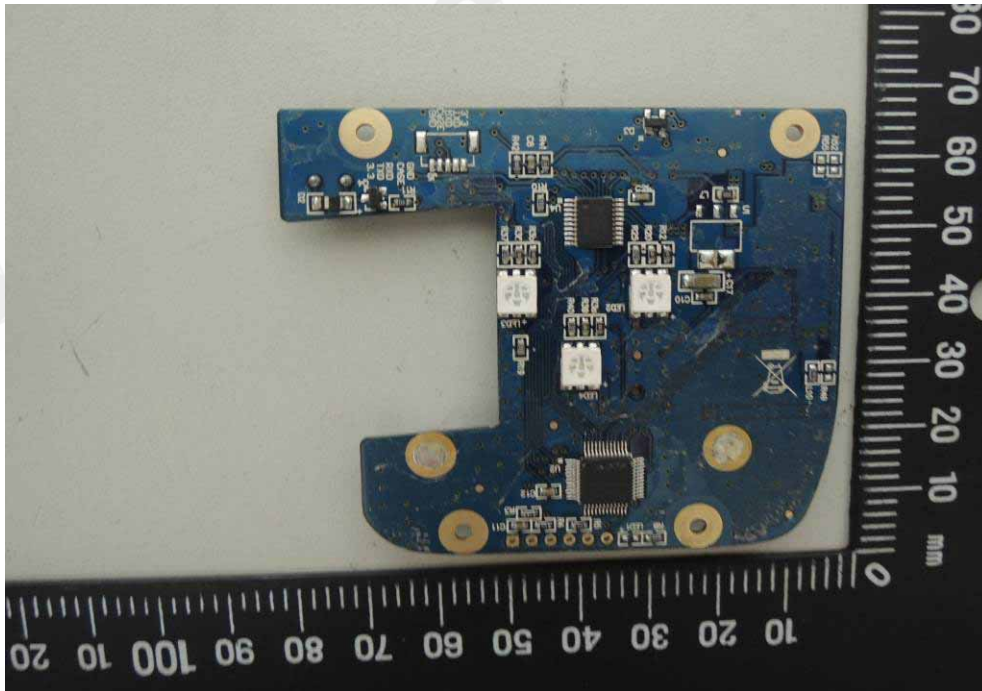
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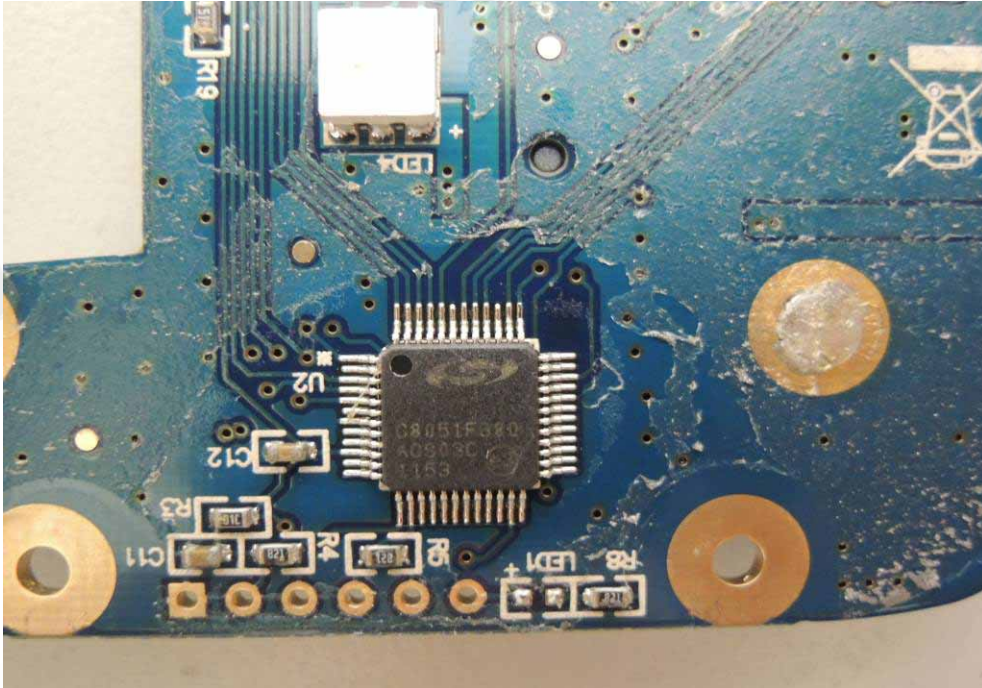
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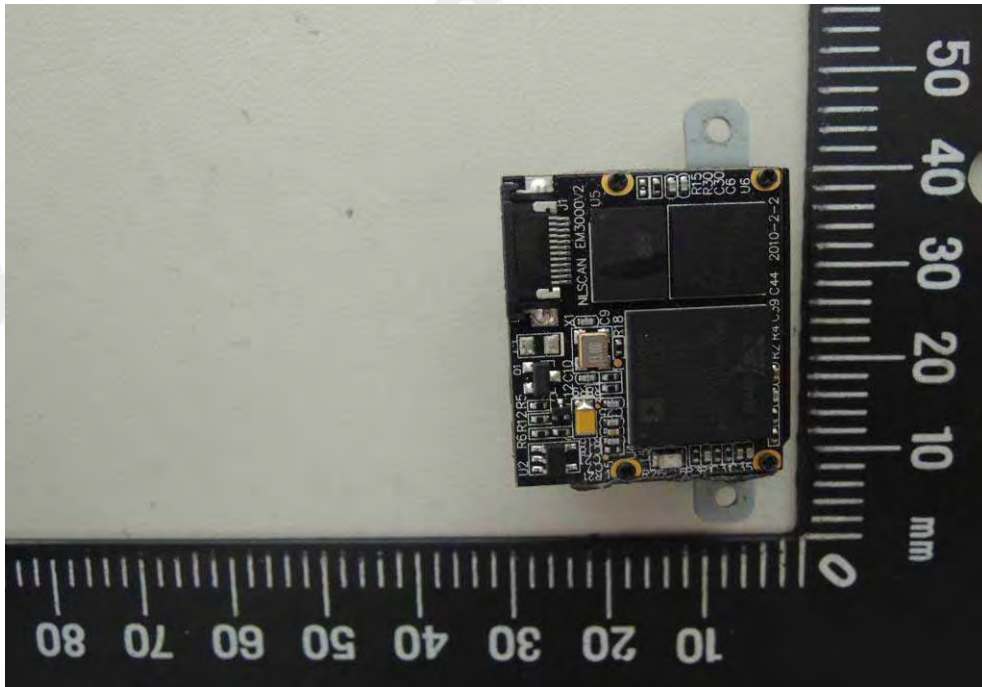
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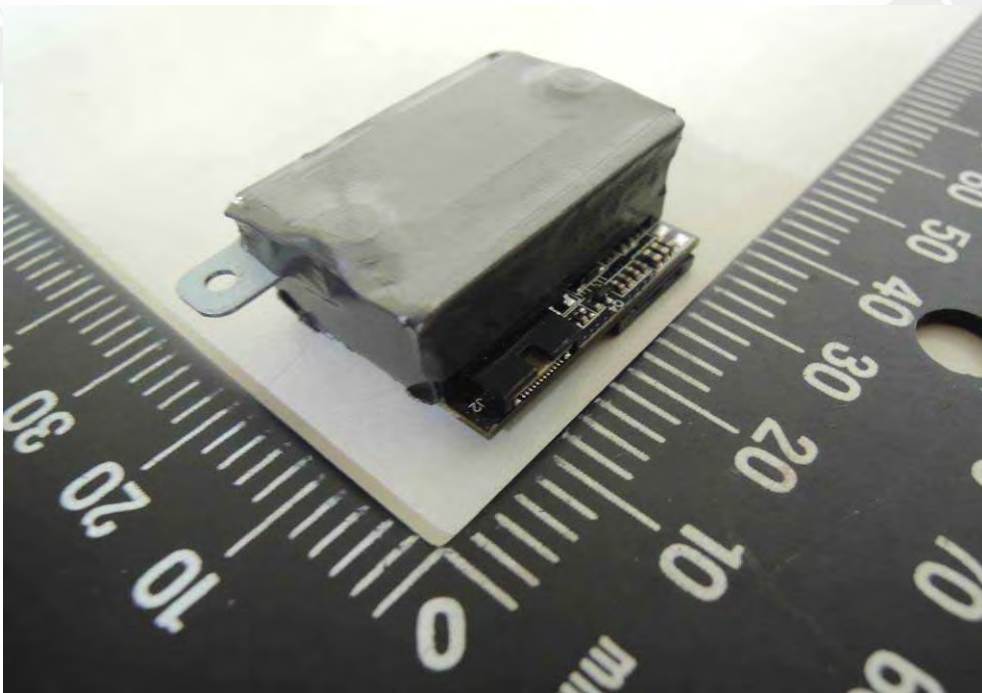
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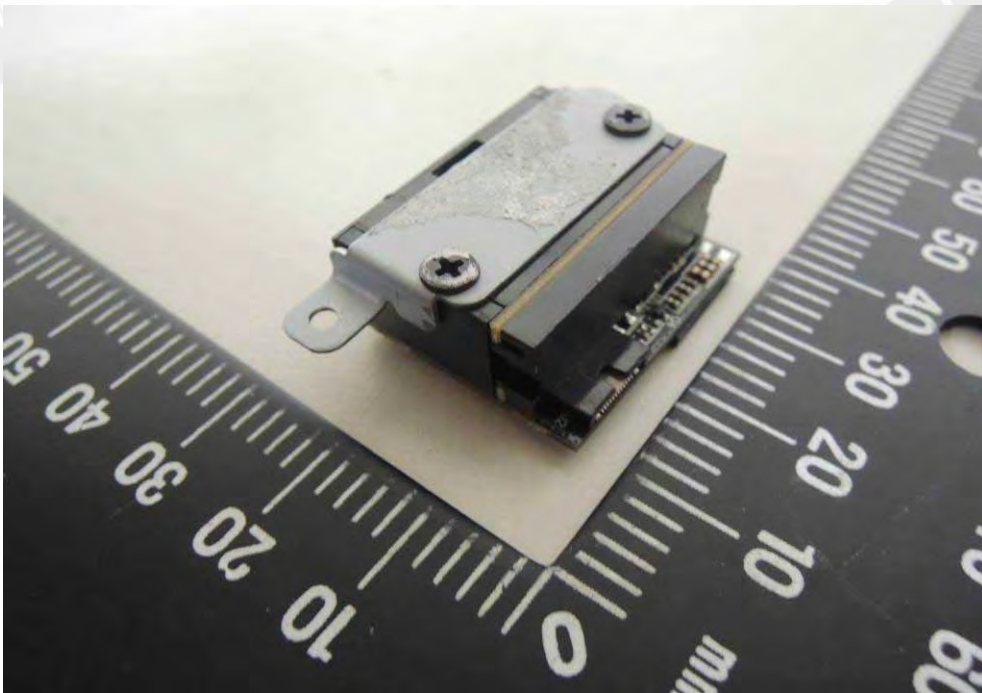
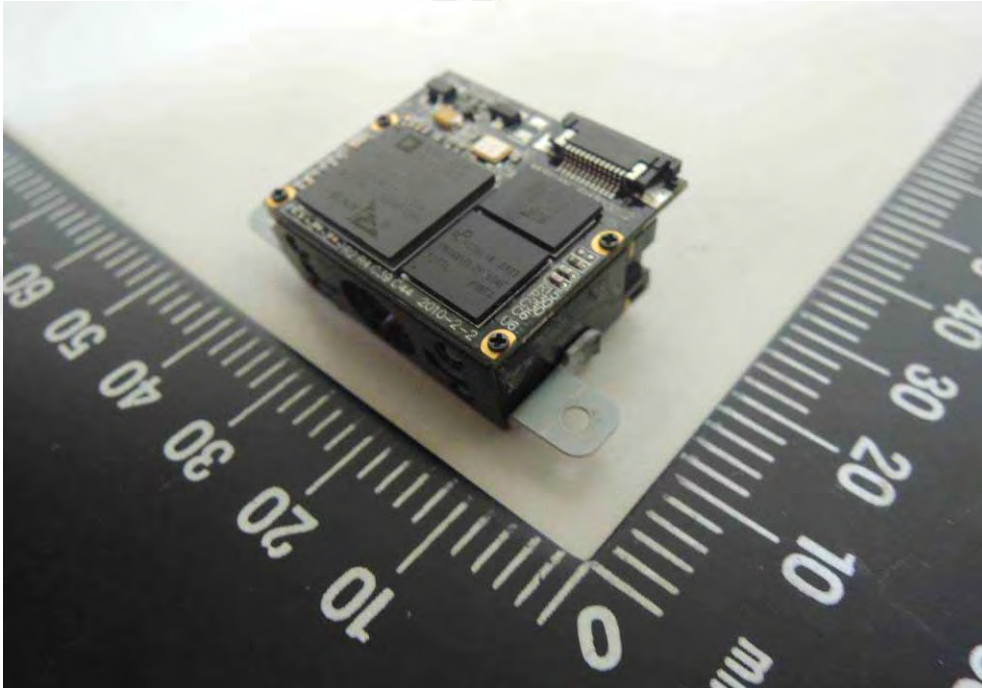
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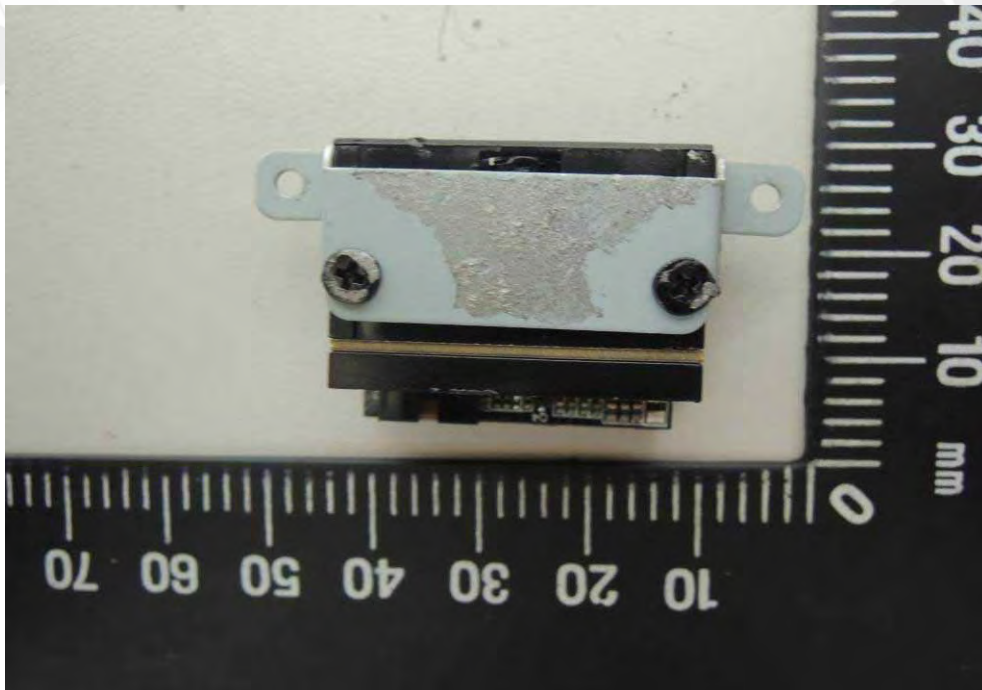
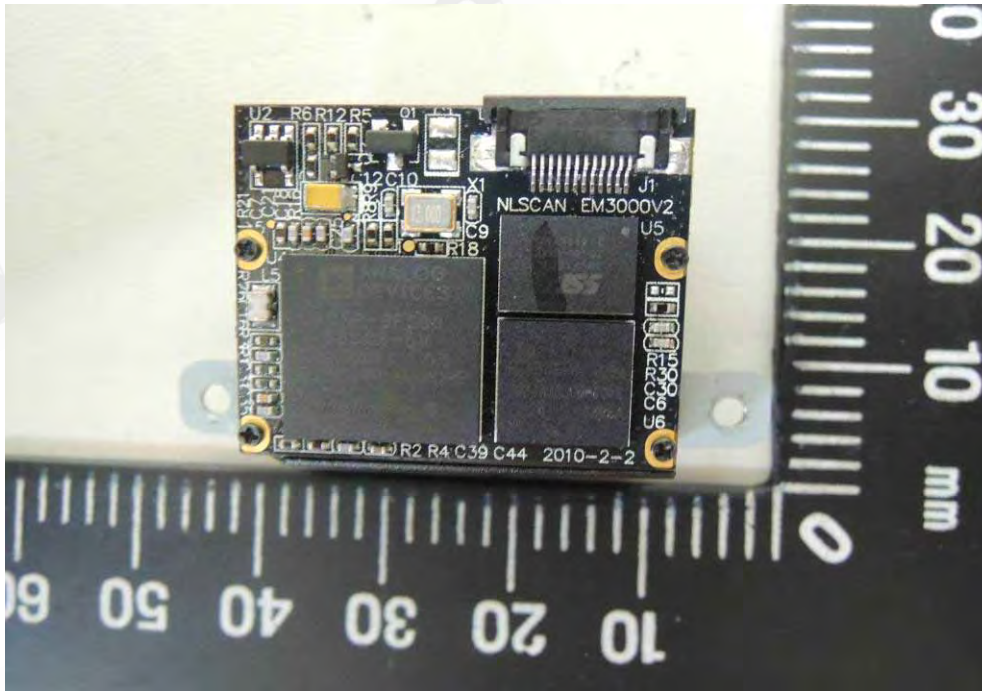
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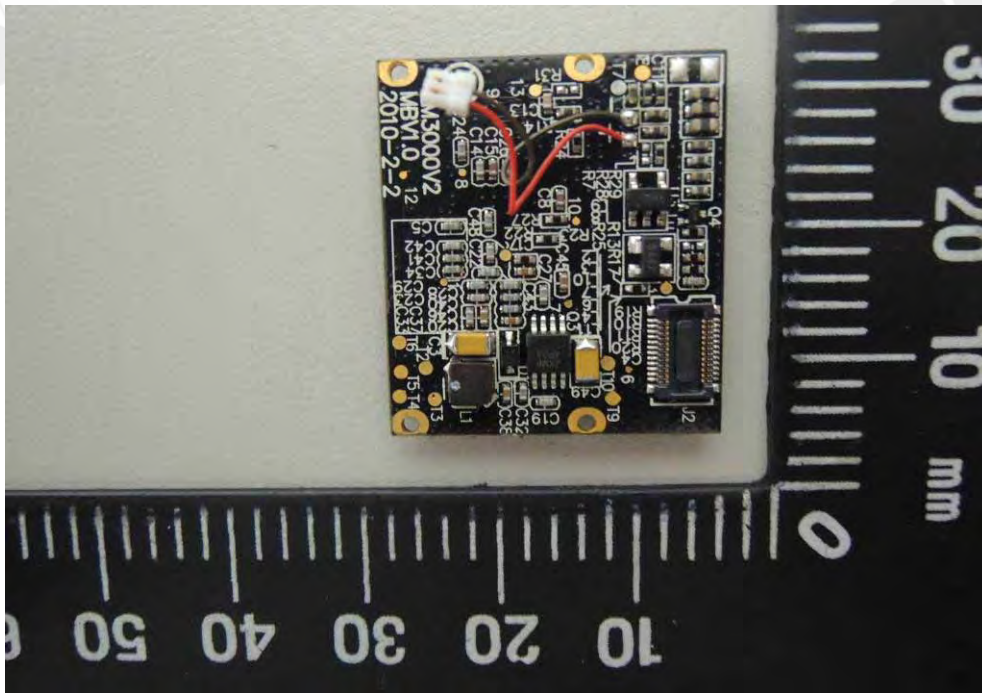
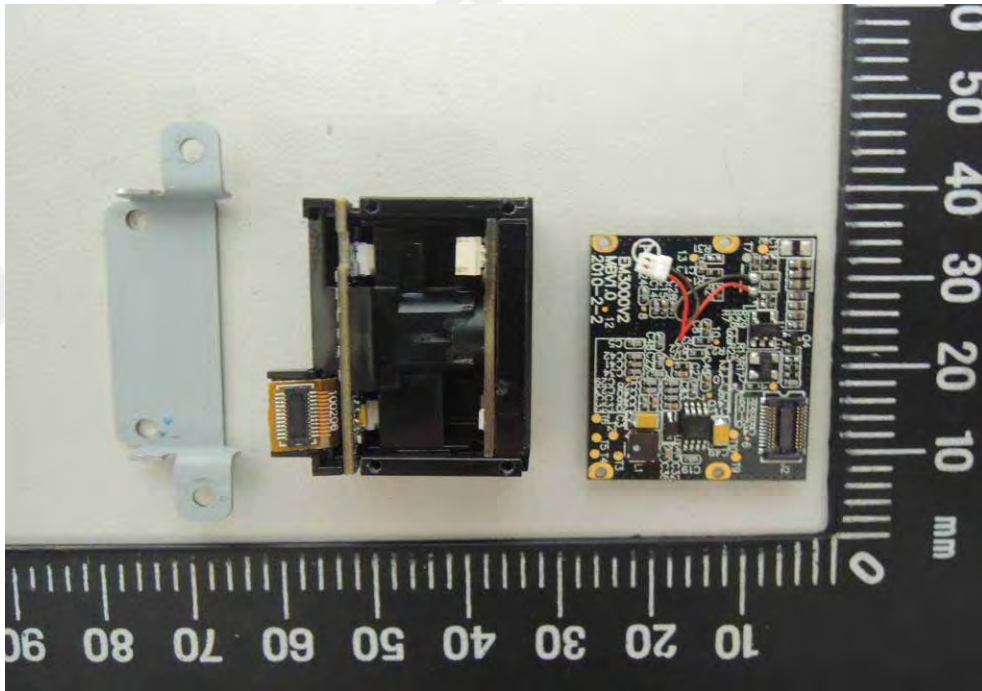
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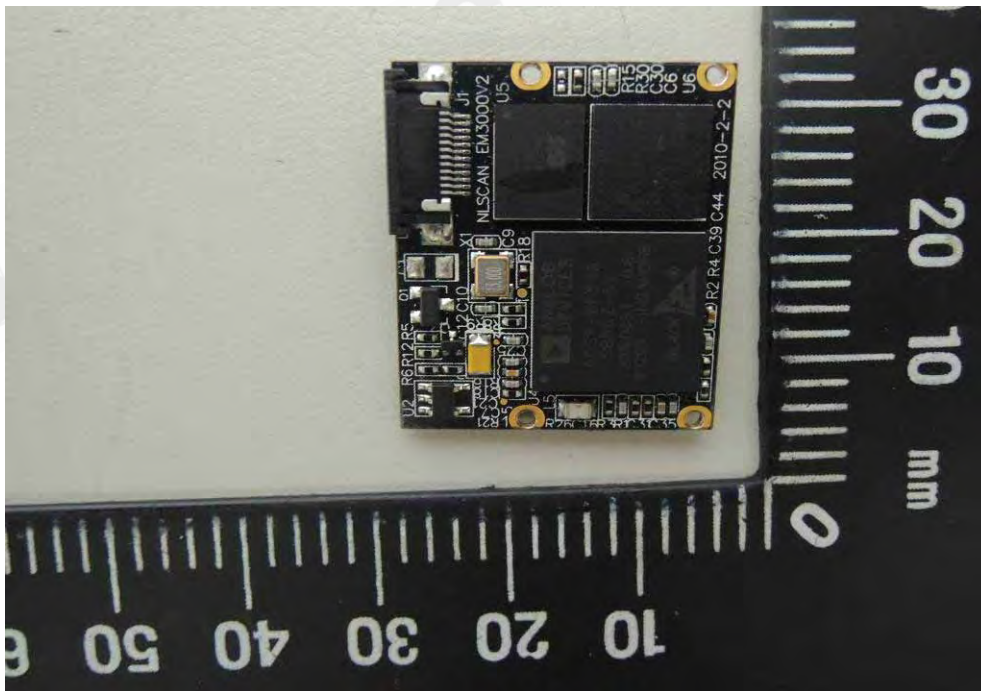
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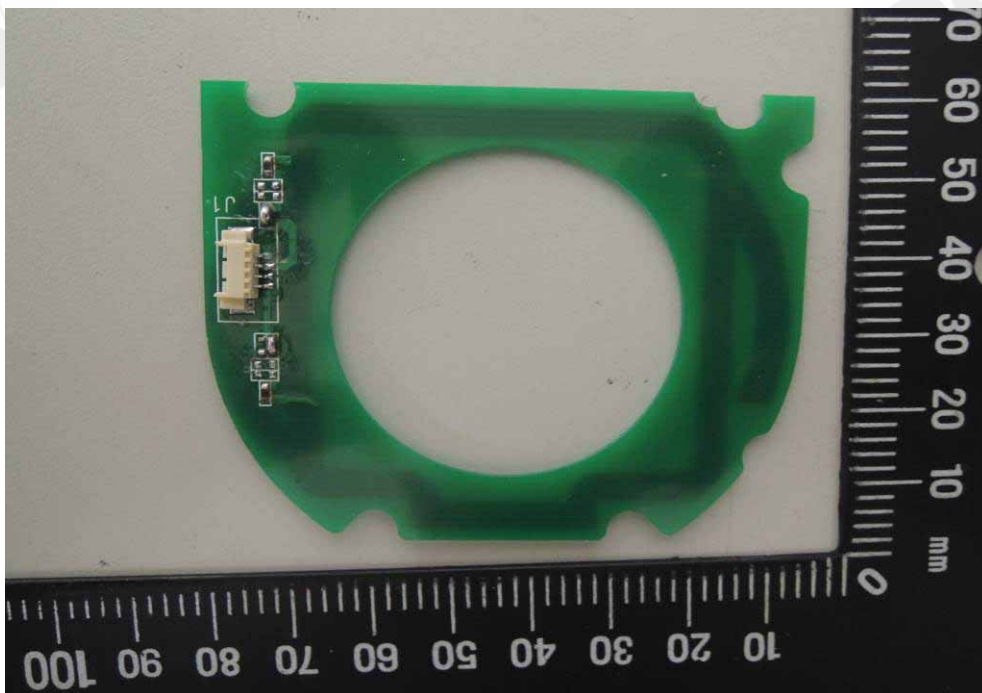
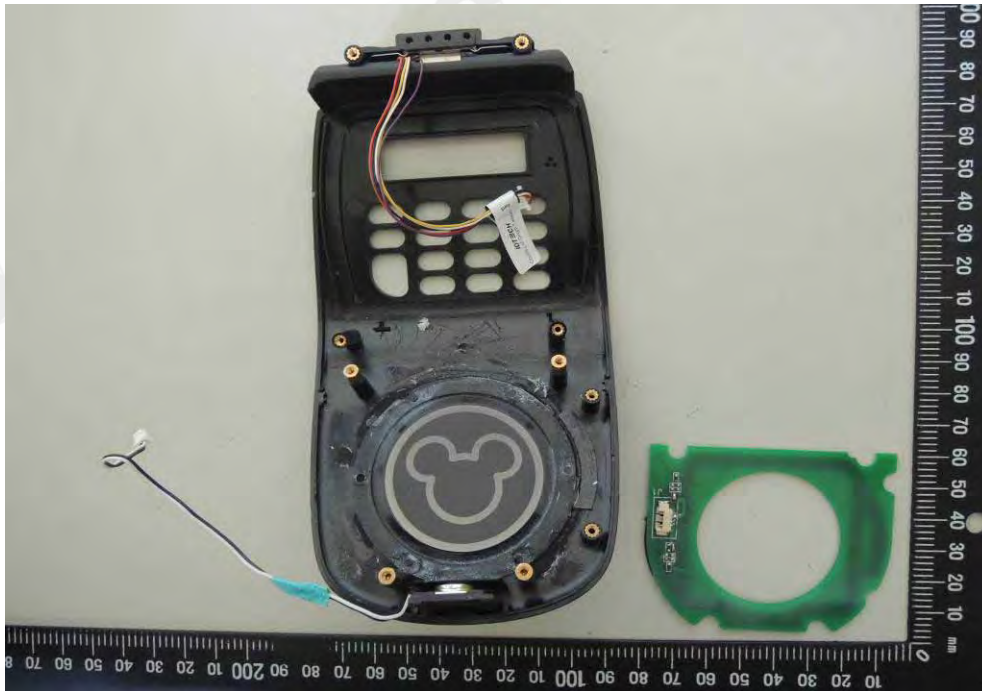
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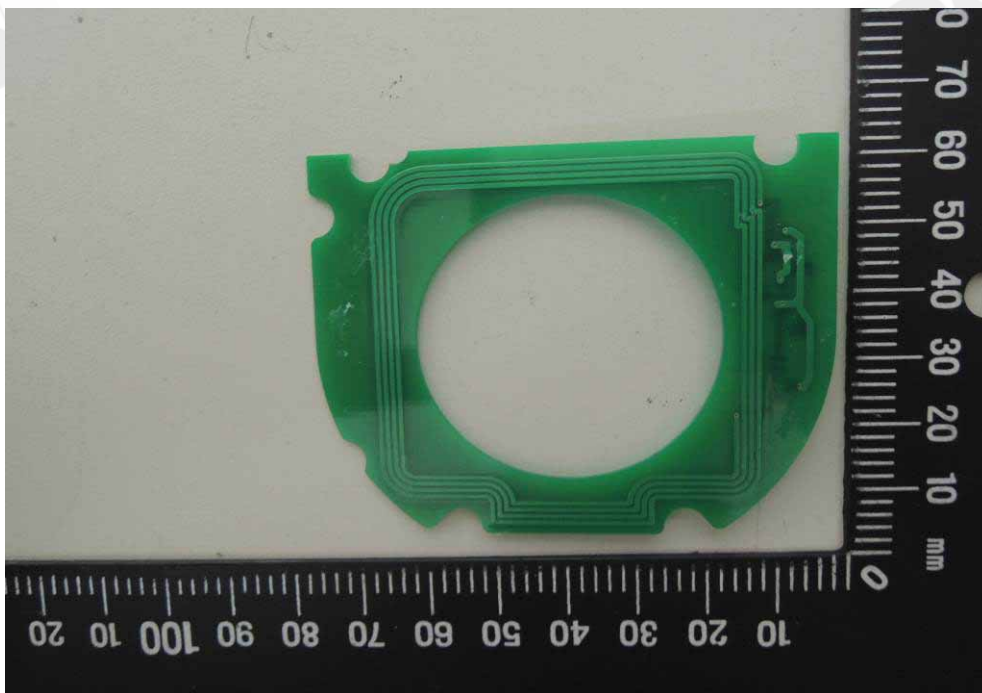
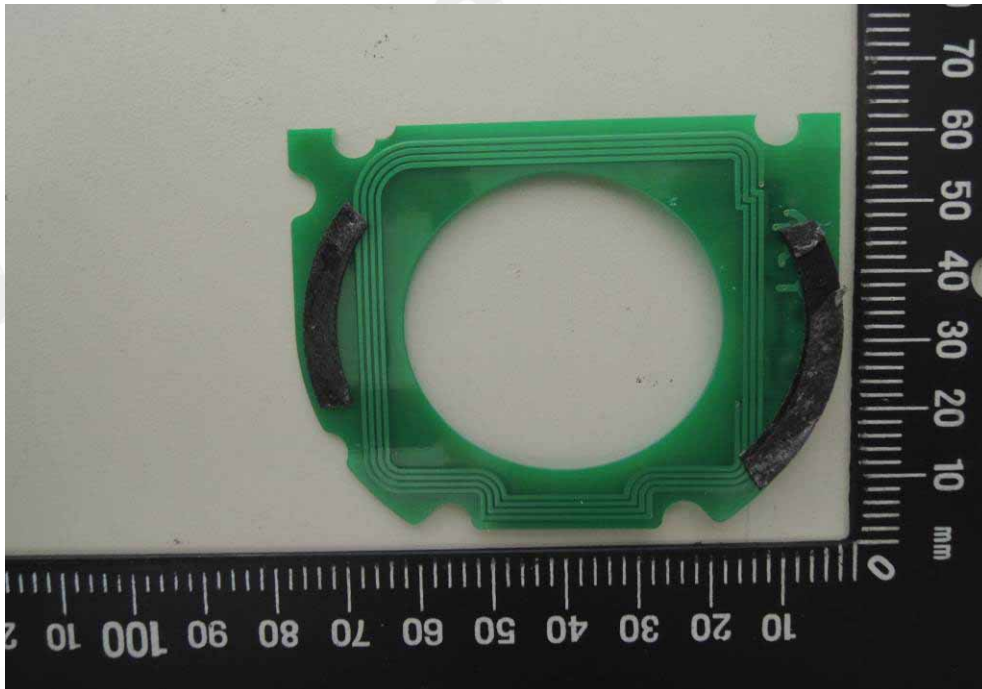
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