



FCC-DOC COMPLIANCE REPORT

Test Report No. : E1/2016/20071
Applicant : ID TECH
Address : 10721 Walker St., Cypress, CA90630, USA
Manufacturer : ID TECH - Taiwan
Address : No. 16, lane 22, QaoQing Rd., YanMei, TaoYuan County 326, Taiwan

Equipment Under Test (EUT) :
Product Name : Augusta
Brand Name : ID TECH
Model No. : IDEM-251T
Added Model(s) : IDEM-XXXA-ZZ

Standards : FCC Part 15:2016, Subpart B, Class B

Date of Receipt : Feb. 25, 2016
Date of Test : Feb. 25 ~ Mar. 02, 2016
Date of Issue : Mar. 09, 2016

Test Result :	PASS
----------------------	-------------

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:

Bill Cheng

Date

Mar. 09, 2016

Bill Cheng (Engineer)

Approved By

Victor Wen

Date

Mar. 09, 2016

Victor Wen (Assistant Manager)



Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Revision History

Report Number	Revision	Description	Issue Date
E1/2016/20071	Rev.00	Initial creation of document	Mar. 09, 2016

Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Contents

1. GENERAL INFORMATION	4
1.1 APPLICANT & MANUFACTURER INFORMATION	4
1.2 GENERAL DESCRIPTION OF EUT	4
1.3 DETAILS OF EUT	4
1.4 OPERATION PROCEDURE	5
1.5 DESCRIPTION OF SUPPORT UNITS	5
1.6 MODIFICATION LIST	5
1.7 CABLE LIST	5
1.8 TEST SET-UP CONFIGURATION	5
1.9 MEASUREMENT PROCEDURE	6
1.10 STANDARDS APPLICABLE FOR TESTING	6
1.11 SUMMARY OF RESULTS	6
2. EMISSION	7
2.1 TEST RESULTS	7
2.2 FREQUENCY RANGE	7
2.3 LIMITS OF CONDUCTED AND RADIATED EMISSION	7
2.3.1 LIMITS OF CONDUCTED EMISSION FOR FCC PART 15, SUBPART B/CISPR 22	7
2.3.2 LIMITS OF RADIATED EMISSIONS FOR FCC PART 15, SUBPART B/CISPR 22	8
2.4. TEST OF CONDUCTED EMISSION	9
2.4.1 TEST EQUIPMENTS	9
2.4.2 OPERATING ENVIRONMENT	9
2.4.3 MEASUREMENT LEVEL CALCULATION	9
2.4.4 MEASUREMENT DATA:	10
2.5 TEST OF RADIATED EMISSION	12
2.5.1 TEST EQUIPMENTS	12
2.5.2 OPERATING ENVIRONMENT	13
2.5.3 MEASUREMENT LEVEL CALCULATION	13
2.5.4 MEASUREMENT DATA	14
3. PHOTOGRAPHS OF TEST	18
4. PHOTOGRAPHS OF PRODUCT	21

Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

1. General Information

1.1 Applicant & Manufacturer Information

Applicant : ID TECH
 Address of Applicant : 10721 Walker St., Cypress, CA90630, USA
 Manufacturer : ID TECH - Taiwan
 Address of Manufacturer : No. 16, lane 22, QaoQing Rd., YanMei, TaoYuan
 County 326, Taiwan

1.2 General Description of EUT

Product Name : Augusta
 Brand Name : ID TECH
 Model No. : IDEM-251T
 Added Model(s) : IDEM-XXXA-ZZ
 Model Difference : Appearance difference
 Option is "-XXXA", where "X" represents a numeric digit, "A" represents an alpha character. -ZZ is added at the end to identify custom set up values.

1.3 Details of EUT

Power Supply : From System
 Modes/Function : Mode 1. Operation
 Worst case : CE Worst :Mode 1. Operation
 RE Worst :Mode 1. Operation
 Highest operate description : 120 MHz
 Adapter : N/A

1.4 Operation Procedure

Mode: 1

1. Let EUT connect to NB.
2. Turned on Augusta HID test program from client.
3. Start the test.

1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Test Card	ID TECH	N/A	N/A
Notebook	DELL	Latitude E5430	COVZYW1
Mouse	DELL	MS111-T	CN-OKW2YH-71616-345-OL7T
Printer	HP	VCVRA-1004	CN33K19J3F
MICROPROCESSOR Card	ID TECH	N/A	N/A

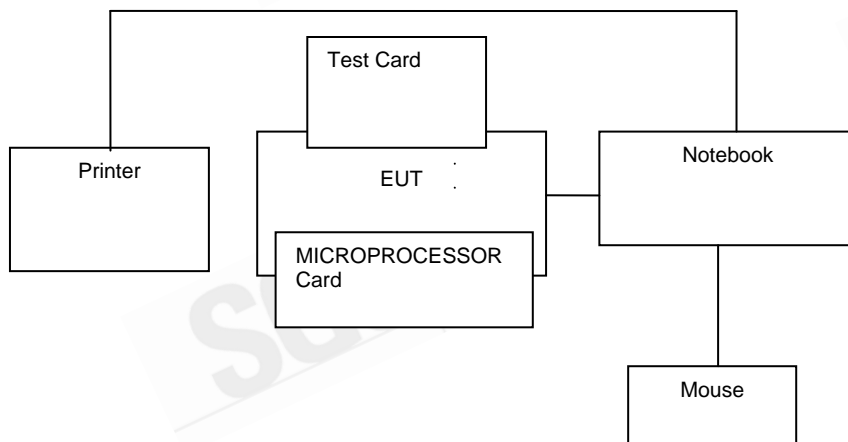
1.6 Modification List

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

1.7 Cable List

Cable Type	Core	Length	Category	Shielding/Non-shielding
USB cable	N/A	1.8m	N/A	Shielding

1.8 Test Set-Up Configuration



1.9 Measurement Procedure

Conducted Emission Testing was performed according to ANSI C63.4:2014 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 C63.4:2014 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

Highest Emission					
Standard	Test Type	Result	Phase/Pol.	Frequency(MHz)	Margin(dB)
FCC Part 15 Subpart B Class B/ CISPR 22 Class B	Conducted Emission	PASS	Line	1.2780	-15.02 (AVG)
			Neutral	0.4260	-14.43 (AVG)
	Radiated Emission	PASS	Ver.	60.0200	-6.90 (QP)

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 HWAYA Conducted Room No.A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101311	2015/6/18	2016/6/17
Coaxial Cables	N/A	N30N30-1042-150	N/A	2016/2/6	2017/2/5
LISN	SCHWARZBECK	NSLK 8127	8127-648	2015/6/9	2016/6/8
Pulse Limiter	Narda S.T.S.	PMM PL01	1110X30602	2015/8/13	2016/8/12
LISN	Rolf-Heine	NNB-2/16Z	99012	2015/3/4	2016/3/3
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.
SGS Taiwan LTD. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Measurement Uncertainty of Conducted Emission Expanded uncertainty (K=2) of conducted emission is 2.20 dB					

2.4.2 Operating Environment

Temperature : 20 degree C

Humidity : 54 %RH

Atmospheric Pressure : 992 mBar

2.4.3 Measurement Level Calculation

$$\text{Factor} = \text{LISN insertion loss} + \text{Cable loss}$$

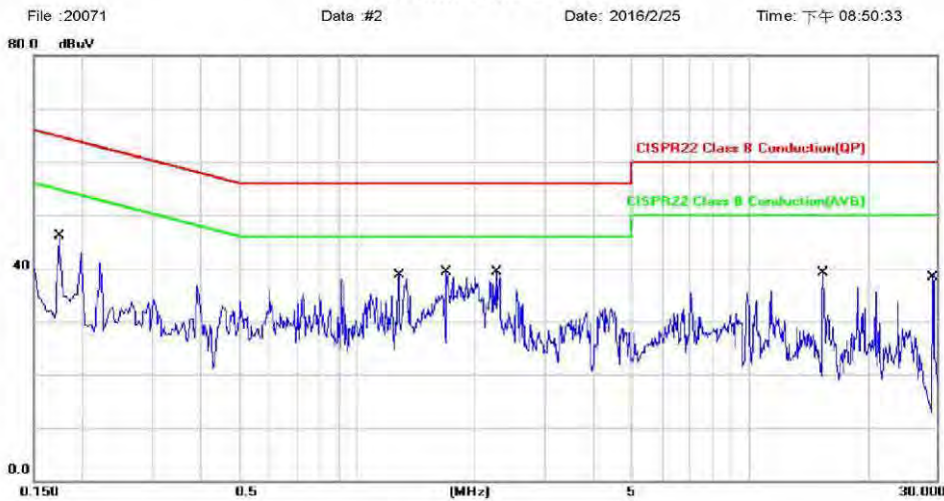
$$\text{Measurement Level} = \text{Reading Level} + \text{Factor}$$

2.4.4 Measurement Data:

Mode_1_L

Site : Conduction Room Phase: **L1** Temperature: 20 °C
 Limit: CISPR22 Class B Conduction(QP) Power: From System Humidity: 54 %
 Mode: Mode 1
 Note: AC 120V/60Hz

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1740	38.60	0.14	38.74	64.77	-26.03	QP	
2		0.1740	27.30	0.14	27.44	54.77	-27.33	AVG	
3		1.2780	37.20	0.18	37.38	56.00	-18.62	QP	
4 *		1.2780	30.80	0.18	30.98	46.00	-15.02	AVG	
5		1.6940	37.30	0.18	37.48	56.00	-18.52	QP	
6		1.6940	27.30	0.18	27.48	46.00	-18.52	AVG	
7		2.2660	37.80	0.20	38.00	56.00	-18.00	QP	
8		2.2660	28.20	0.20	28.40	46.00	-17.60	AVG	
9		15.4180	32.20	0.50	32.70	60.00	-27.30	QP	
10		15.4180	21.30	0.50	21.80	50.00	-28.20	AVG	
11		29.3460	25.50	0.90	26.40	60.00	-33.60	QP	
12		29.3460	14.80	0.90	15.70	50.00	-34.30	AVG	

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

File :20071\Data :#2

Page: 1

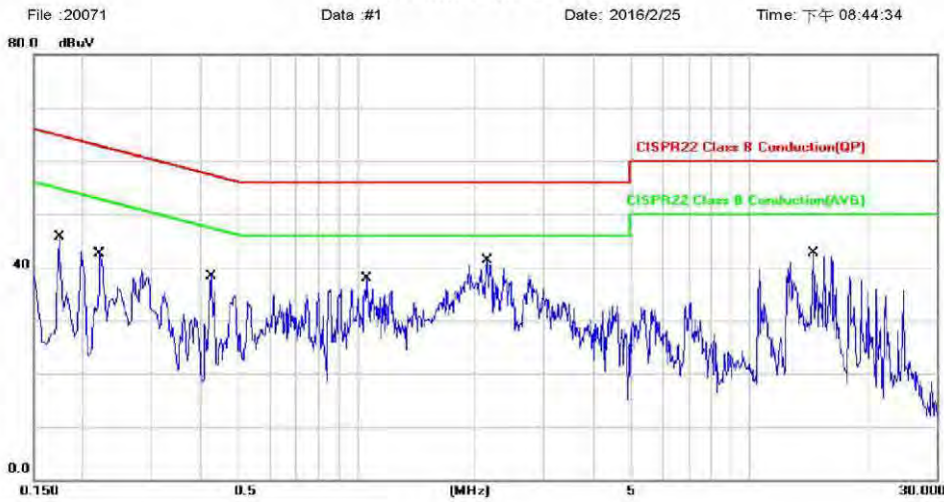
Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Mode_1_N

Site : Conduction Room Phase: **N** Temperature: 20 °C
 Limit: CISPR22 Class B Conduction(QP) Power: From System Humidity: 54 %
 Mode: Mode 1
 Note: AC 120V/60Hz

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1740	37.00	0.20	37.20	64.77	-27.57	QP	
2		0.1740	21.40	0.20	21.60	54.77	-33.17	AVG	
3		0.2220	32.80	0.19	32.99	62.74	-29.75	QP	
4		0.2220	21.60	0.19	21.79	52.74	-30.95	AVG	
5		0.4260	39.30	0.20	39.50	57.33	-17.83	QP	
6 *		0.4260	32.70	0.20	32.90	47.33	-14.43	AVG	
7		1.0580	30.80	0.21	31.01	56.00	-24.99	QP	
8		1.0580	22.30	0.21	22.51	46.00	-23.49	AVG	
9		2.1500	32.90	0.25	33.15	56.00	-22.85	QP	
10		2.1500	26.70	0.25	26.95	46.00	-19.05	AVG	
11		14.5580	28.20	0.52	28.72	60.00	-31.28	QP	
12		14.5580	18.80	0.52	19.32	50.00	-30.68	AVG	

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

File :20071\Data :#1

Page: 1

Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

SGS Radiated_Below_1GHz HWAYA 10m_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100950	2015/12/8	2016/12/7
EMI Test Receiver	R&S	ESCI 3	101343	2015/12/25	2016/12/24
Broadband Antenna	SCHWAZBECK	VULB9168	9168-628	2015/9/23	2016/9/22
Broadband Antenna	SCHWAZBECK	VULB9168	9168-629	2015/9/23	2016/9/22
Pre Amplifier	EMC Instruments Corp.	EMC330	980178	2015/3/31	2016/3/30
Pre Amplifier	EMC Instruments Corp.	EMC330	980179	2015/3/31	2016/3/30
Coaxial Cable	Huber+Suhner	RG 214/U	W30.02	2015/3/31	2016/3/30
Coaxial Cable	Huber+Suhner	RG 214/U	W31.02	2015/3/31	2016/3/30
Coaxial Cable	Huber+Suhner	RG 214/U	W32.02	2015/3/31	2016/3/30
Coaxial Cable	Huber+Suhner	RG 214/U	W30.03	2015/3/31	2016/3/30
Coaxial Cable	Huber+Suhner	RG 214/U	W31.03	2015/3/31	2016/3/30
Coaxial Cable	Huber+Suhner	RG 214/U	W32.03	2015/3/31	2016/3/30
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	Chance Most	10M Chamber	10M SAC	2015/12/31	2016/12/30
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

SGS Taiwan LTD. Electronics & Communication Laboratory
 No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
 Measurement Uncertainty of Radiated Emission
 Expanded uncertainty of radiated emission is 4.16 dB. (30MHz ~ 1000MHz)

Above 1GHz

SGS Radiated_Above_1GHz HWAYA 966A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV 40	101059	2015/12/9	2016/12/8
EMI Test Receiver	R&S	ESR 7	101507	2015/5/20	2016/5/19
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D803	2015/10/8	2016/10/7
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	2015/12/11	2016/12/10
Pre Amplifier	EMC Instruments Corp.	EMC012645B	980216	2015/9/30	2016/9/29
Pre Amplifier	EMC Instruments Corp.	EMC184045B	980135	2015/10/27	2016/10/26
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	2015/4/23	2016/4/22
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	30255/4PEA	N.C.R.	N.C.R.
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2015/4/23	2016/4/22
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2152/2	2015/6/5	2016/6/4
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2015/6/5	2016/6/4
Controller	MF	MF-7802	N.C.R.	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	2016/1/12	2017/1/11
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

SGS Taiwan LTD. Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
Measurement Uncertainty of Radiated Emission
Expanded uncertainty (k=2) of radiated emission measurement is 4.96 dB. (1-6GHz)
Expanded uncertainty (k=2) of radiated emission measurement is 5.14 dB. (6-18GHz)
Expanded uncertainty (k=2) of radiated emission measurement is 4.86 dB. (18-26GHz)
Expanded uncertainty (k=2) of radiated emission measurement is 4.81 dB. (26-40GHz)

2.5.2 Operating Environment

Temperature : 19 degree C Humidity : 72 %RH
Atmospheric Pressure : 996 mBar

2.5.3 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain
Measurement Level = Reading Level + Correction Factor

Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

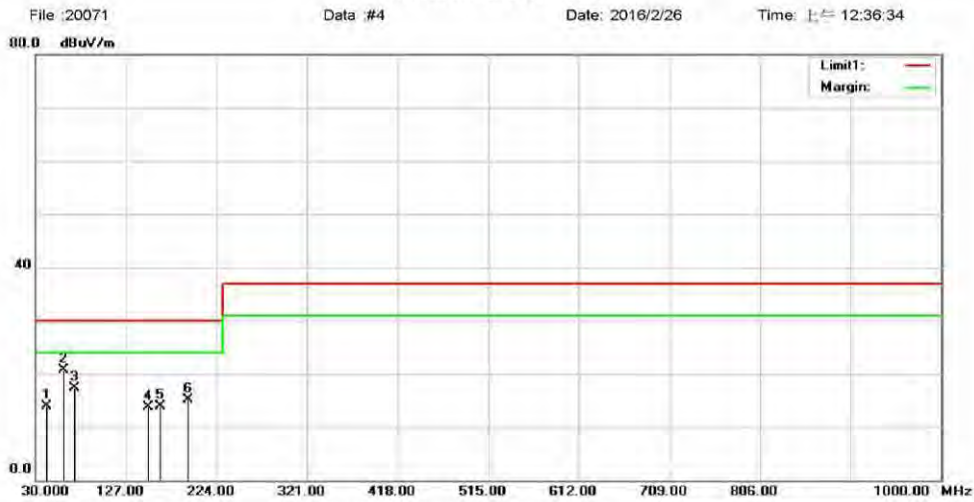
2.5.4 Measurement Data

Below 1GHz

Mode_1_H

Site: SGS 10m Chamber Polarization: **Horizontal** Temperature: 19 °C
 Limit: CISPR22 Class B 10M Radiation Power: From System Humidity: 72 %
 Mode: Mode_1 Distance:

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		40.8900	25.70	-11.80	13.90	30.00	-16.10	QP	
2	*	59.9900	32.98	-12.18	20.80	30.00	-9.20	QP	
3		71.3500	31.53	-14.13	17.40	30.00	-12.60	QP	
4		150.0200	25.79	-12.09	13.70	30.00	-16.30	QP	
5		163.0100	25.76	-11.86	13.90	30.00	-16.10	QP	
6		192.0300	29.85	-14.65	15.20	30.00	-14.80	QP	

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

File :20071\Data :#4

Page: 1

Mode_1_V

Site: SGS 10m Chamber Polarization: **Vertical** Temperature: 19 °C
 Limit: CISPR22 Class B 10M Radiation Power: From System Humidity: 72 %
 Mode: Mode_1 Distance:
 Note:

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	60.0200	34.84	-11.74	23.10	30.00	-6.90	QP	
2		72.0300	28.99	-13.89	15.10	30.00	-14.90	QP	
3		147.2500	25.77	-11.47	14.30	30.00	-15.70	QP	
4		168.0200	26.89	-11.59	15.30	30.00	-14.70	QP	
5		191.9900	36.17	-14.27	21.90	30.00	-8.10	QP	
6		199.2000	30.73	-14.53	16.20	30.00	-13.80	QP	

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

File :20071\Data :#3

Page: 1

Above 1GHz

Mode_1_H

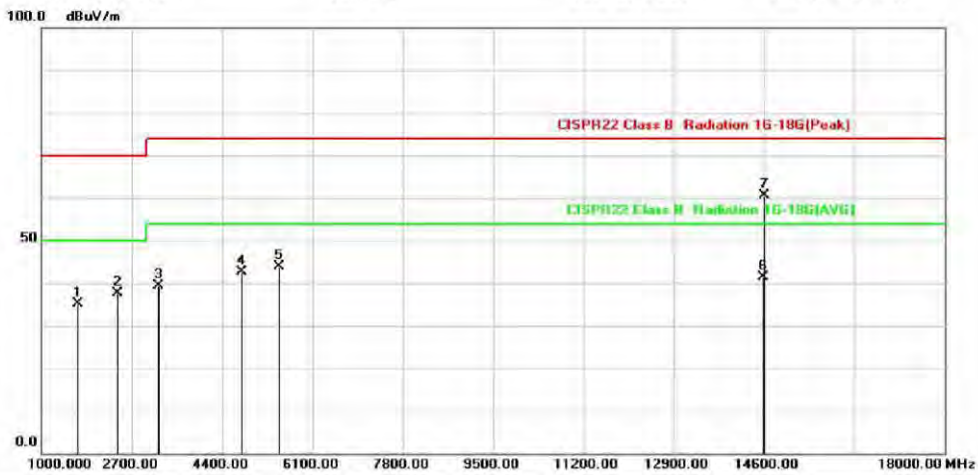
Site: SGS 966 Chamber A
 Limit: CISPR22 Class B Radiation 1G-18G(Peak)
 Mode: Mode_1
 Note:

Polarization: **Horizontal**
 Power: From System
 Distance:

Temperature: 18 °C
 Humidity: 57 %

Radiated Emission

File: E1-2016-20071 Data: #4 Date: 2016/2/25 Time: 下午 10:47:56



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1680.000	43.19	-8.14	35.05	70.00	-34.95	peak	
2		2428.000	43.31	-5.57	37.74	70.00	-32.26	peak	
3		3210.000	42.79	-3.50	39.29	74.00	-34.71	peak	
4		4774.000	41.90	0.79	42.69	74.00	-31.31	peak	
5		5471.000	41.43	2.42	43.85	74.00	-30.15	peak	
6 *		14593.193	23.81	17.66	41.47	54.00	-12.53	AVG	
7		14600.000	43.07	17.65	60.72	74.00	-13.28	peak	

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

File: E1-2016-20071\Data: #4

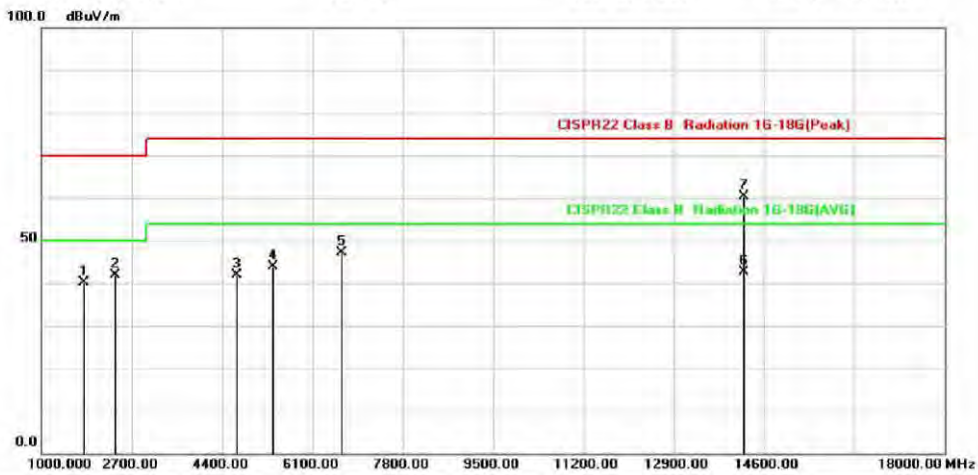
Page: 1

Mode_1_V

Site: SGS 966 Chamber A Polarization: **Vertical** Temperature: 18 °C
 Limit: CISPR22 Class B Radiation 1G-18G(Peak) Power: From System Humidity: 57 %
 Mode: Mode_1 Distance:
 Note:

Radiated Emission

File: E1-2016-20071 Data: #3 Date: 2016/2/25 Time: 下午 10:45:02



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1799.000	47.99	-7.80	40.19	70.00	-29.81	peak	
2		2394.000	47.66	-5.71	41.95	70.00	-28.05	peak	
3		4689.000	41.36	0.59	41.95	74.00	-32.05	peak	
4		5369.000	41.82	2.18	44.00	74.00	-30.00	peak	
5		6661.000	41.06	6.17	47.23	74.00	-26.77	peak	
6 *		14219.739	25.50	17.08	42.58	54.00	-11.42	AVG	
7		14226.000	43.41	17.09	60.50	74.00	-13.50	peak	

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

File: E1-2016-20071\Data: #3

Page: 1

Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

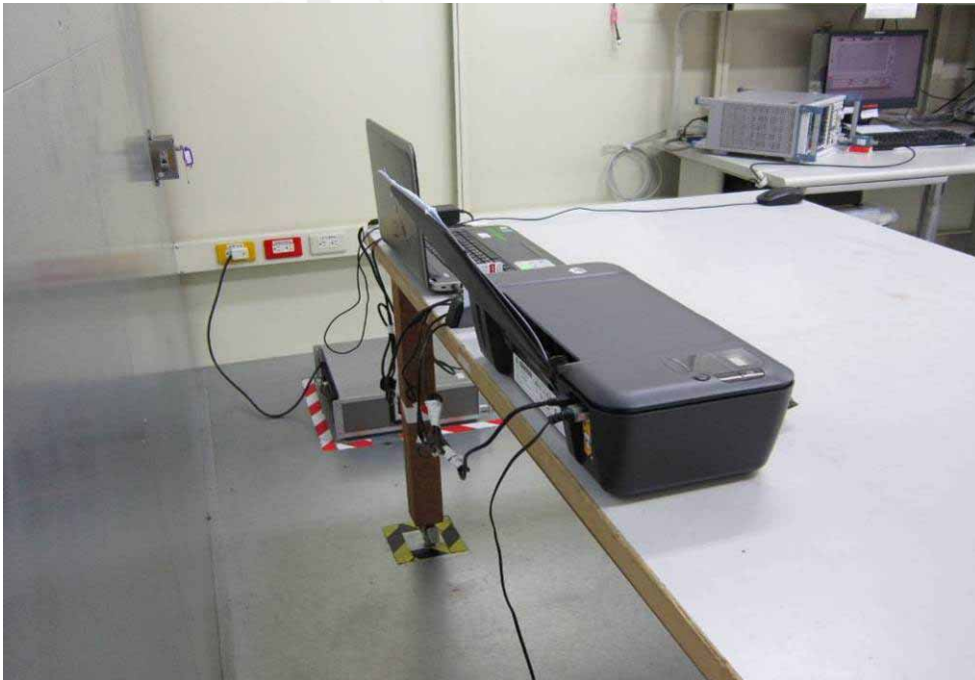
3. Photographs of Test

CE Testing Set-up

Mode_1_+



Mode_1_-

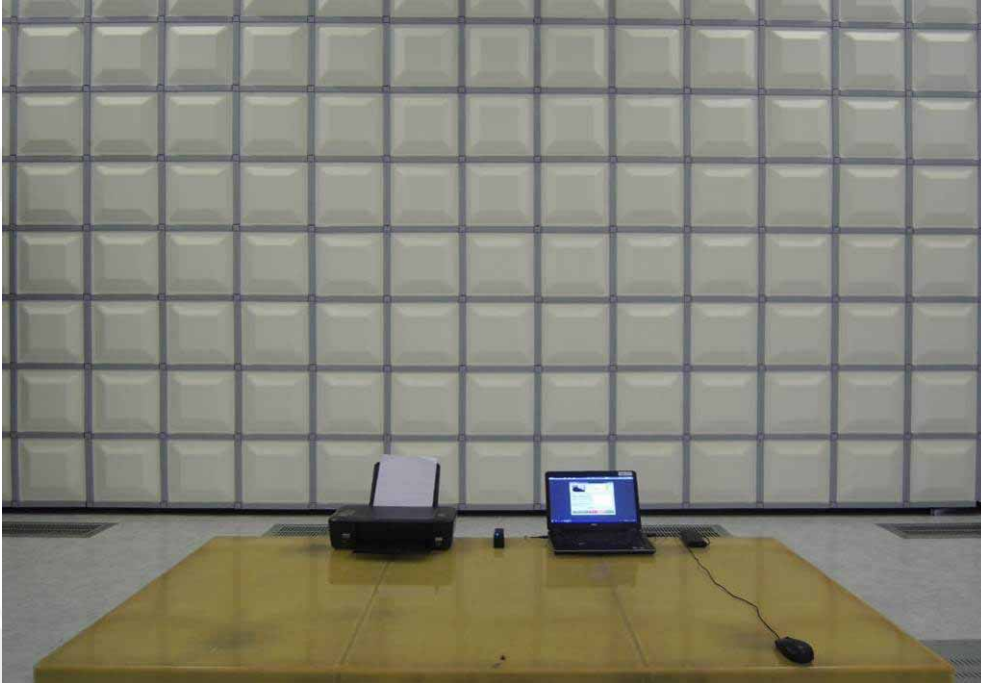


Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

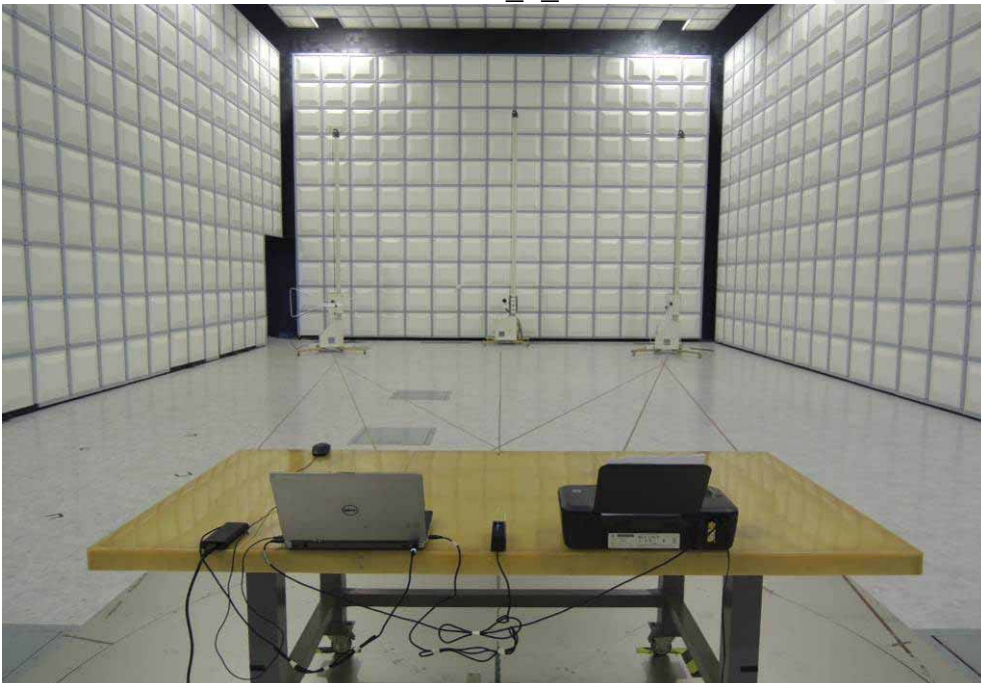
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

RE Testing Set-up Below 1GHz

Mode_1_+



Mode_1_-



Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

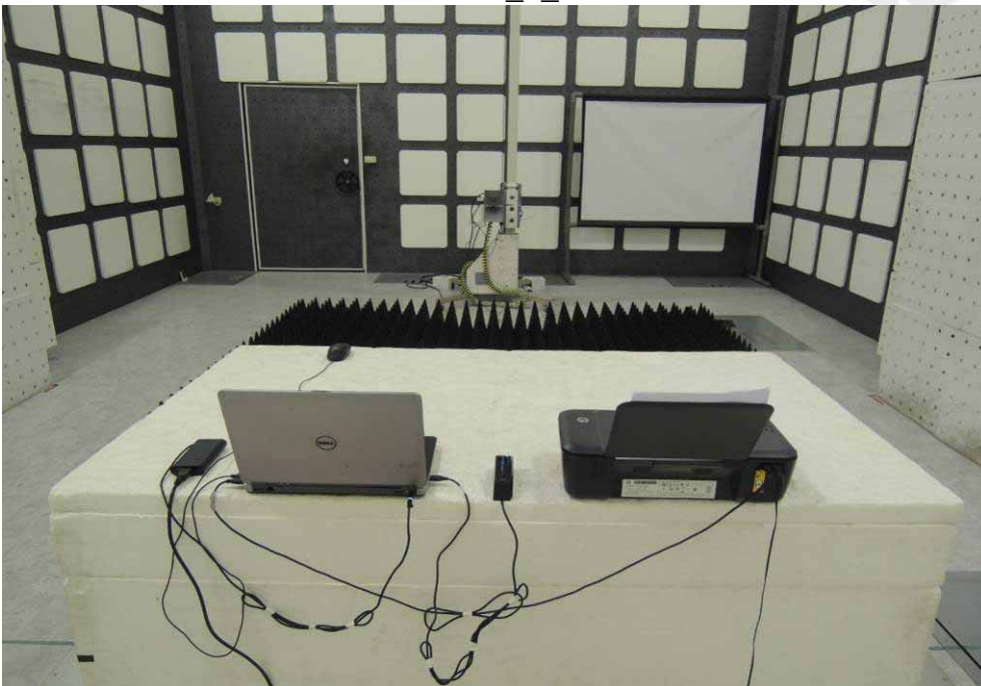
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Above 1GHz

Mode_1_+



Mode_1_-



Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

4. Photographs of Product

Exterior

001



002



Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Interior

I01



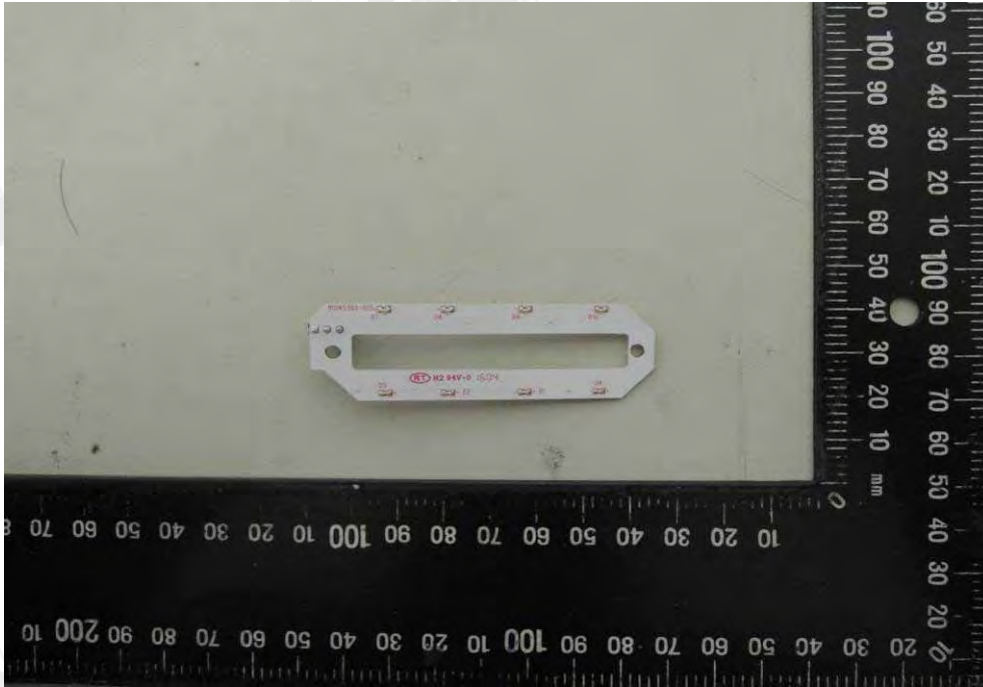
I02



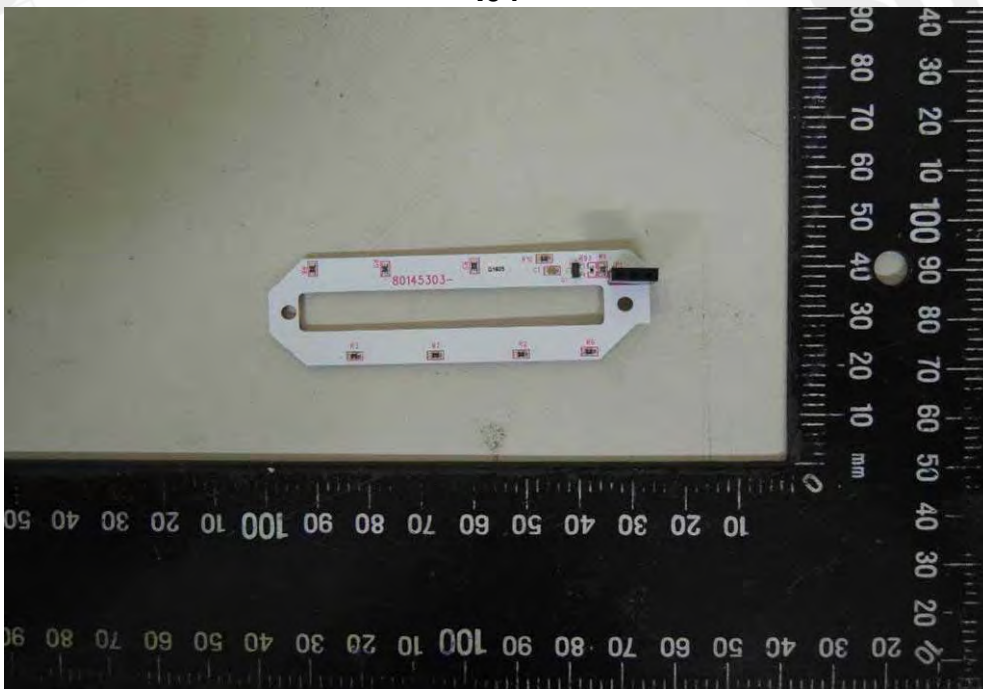
Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

I03



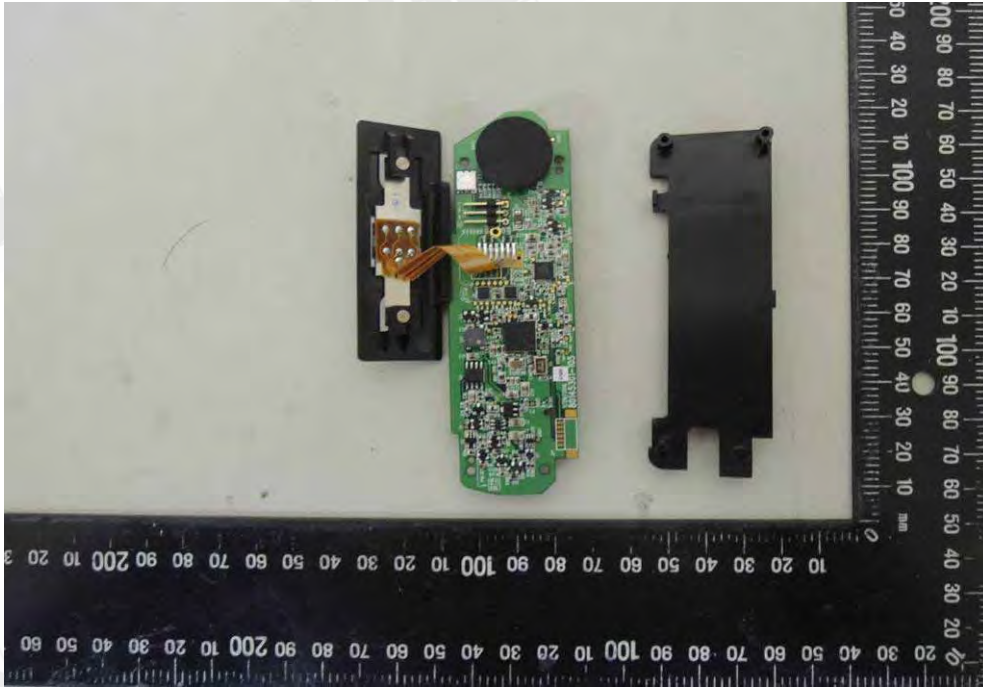
I04



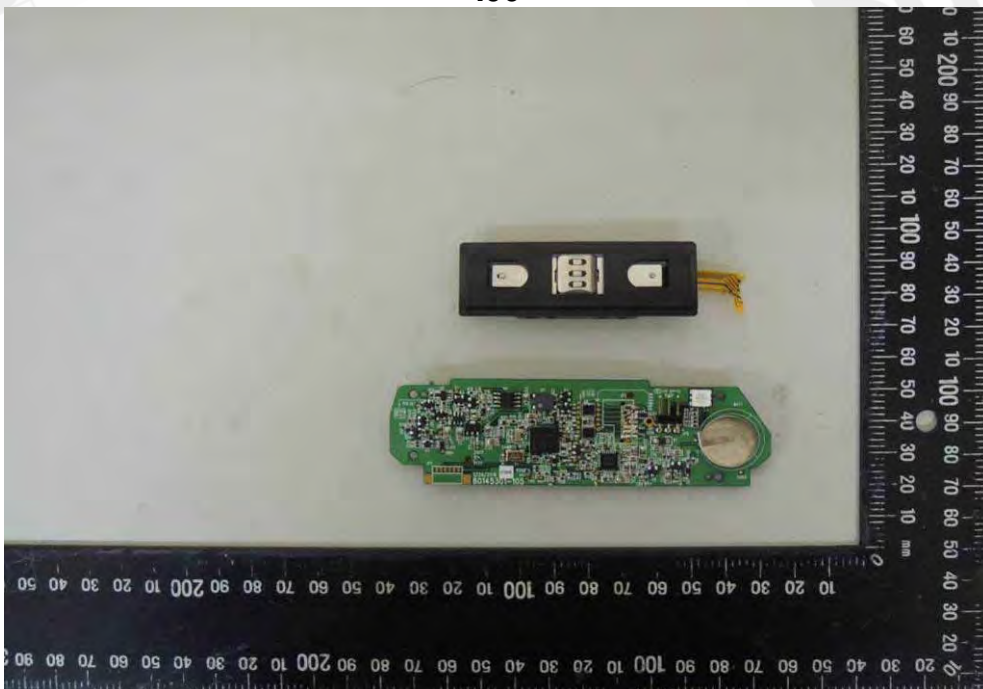
Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

I05



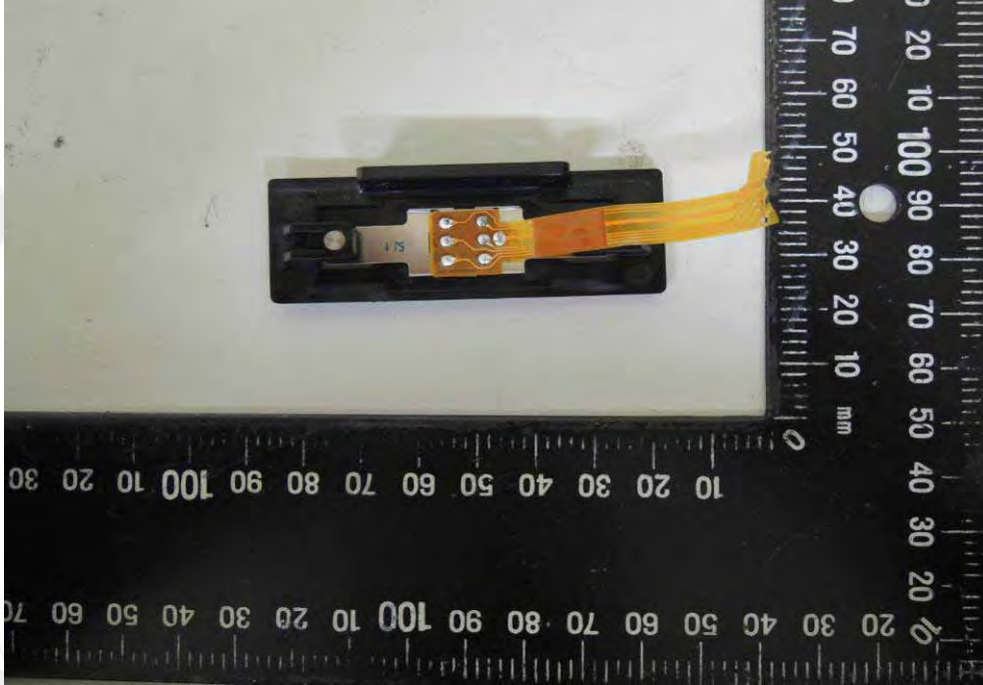
I06



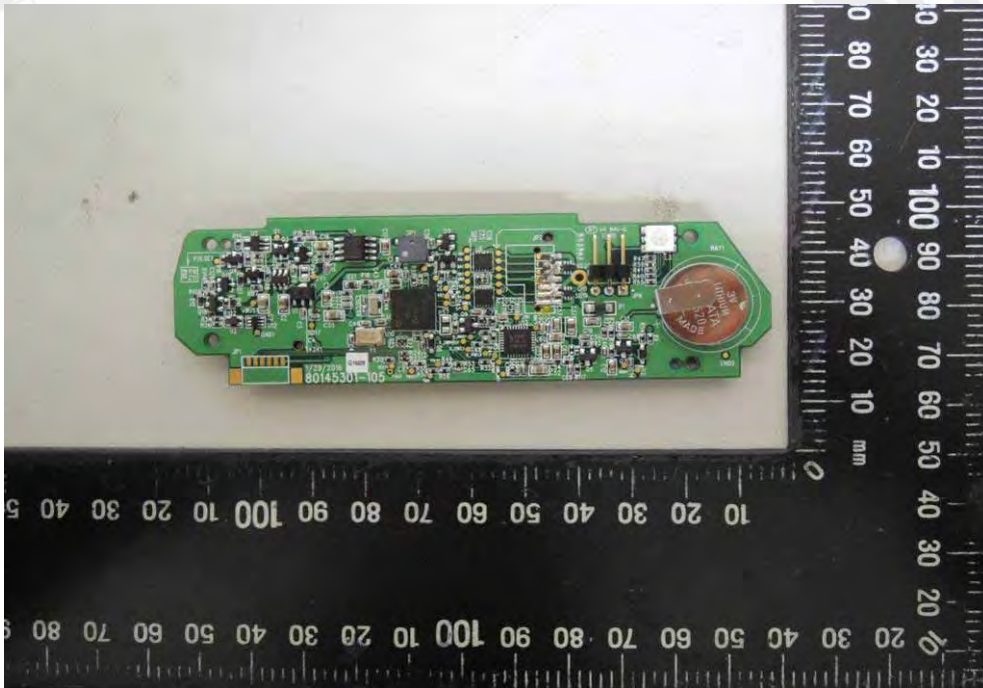
Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

I07



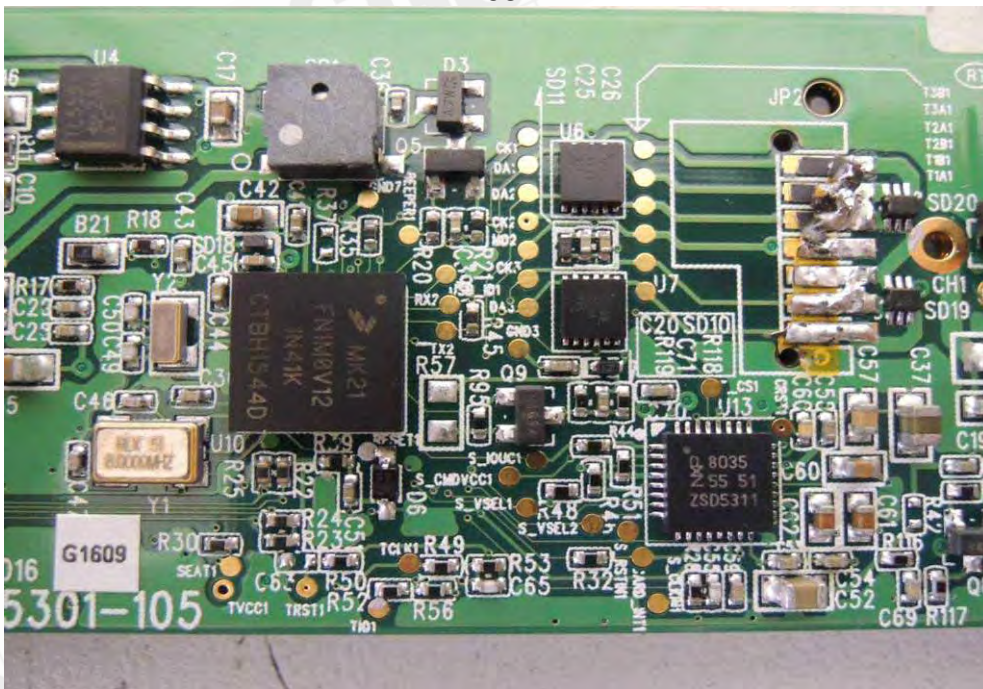
I08



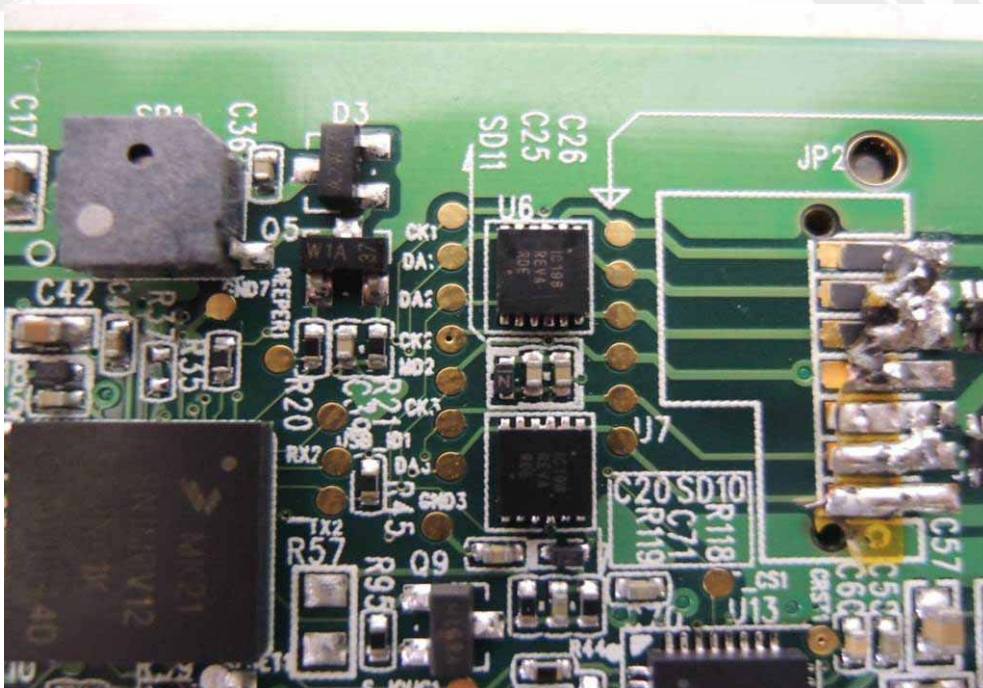
Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

109



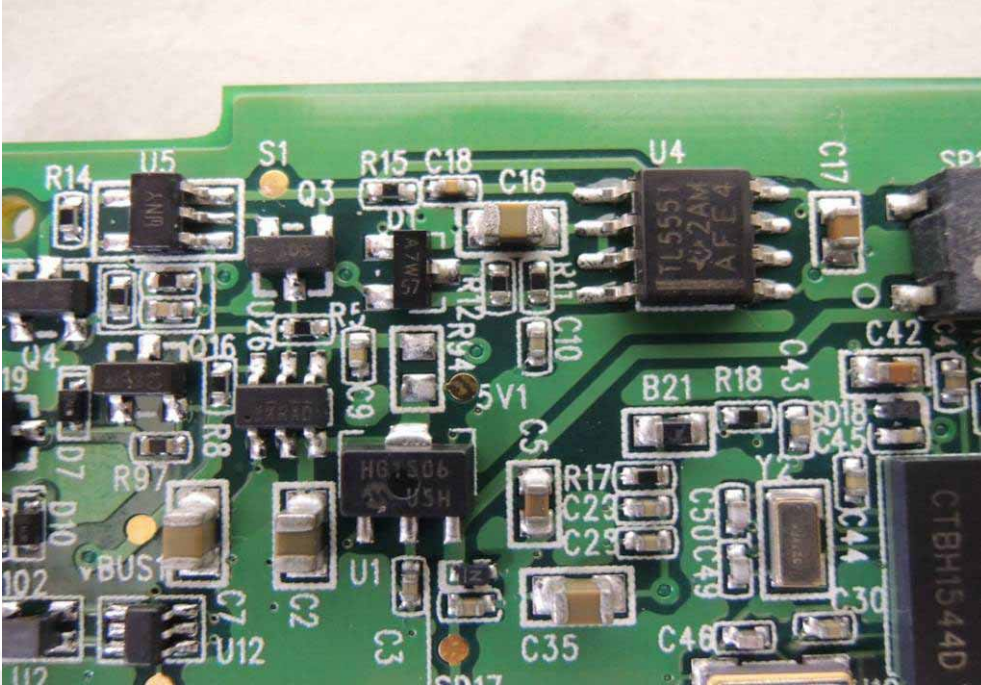
110



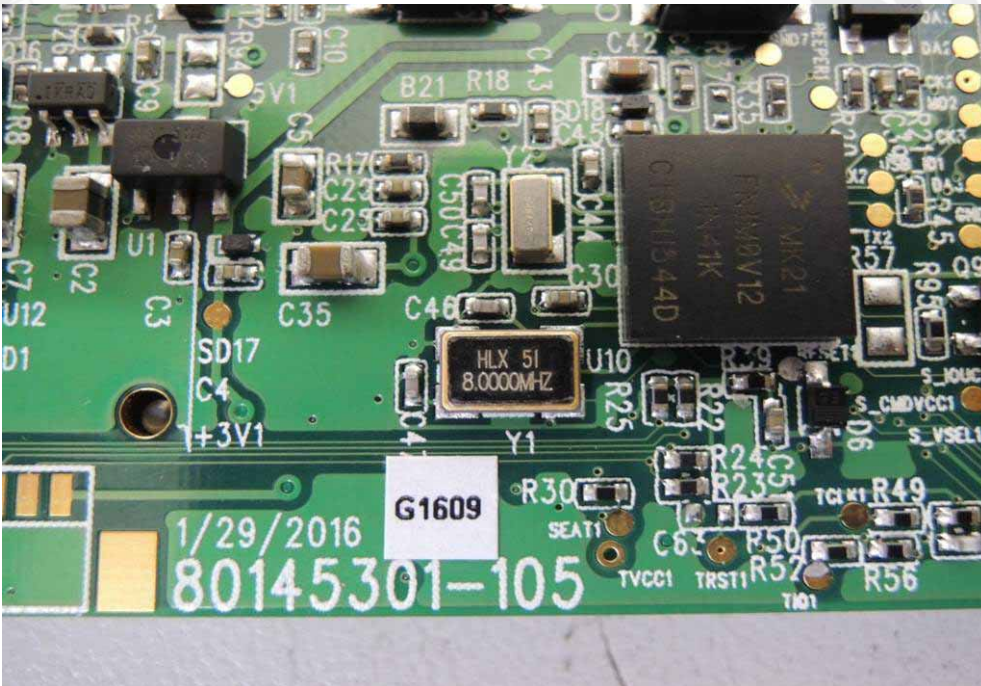
Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

I11



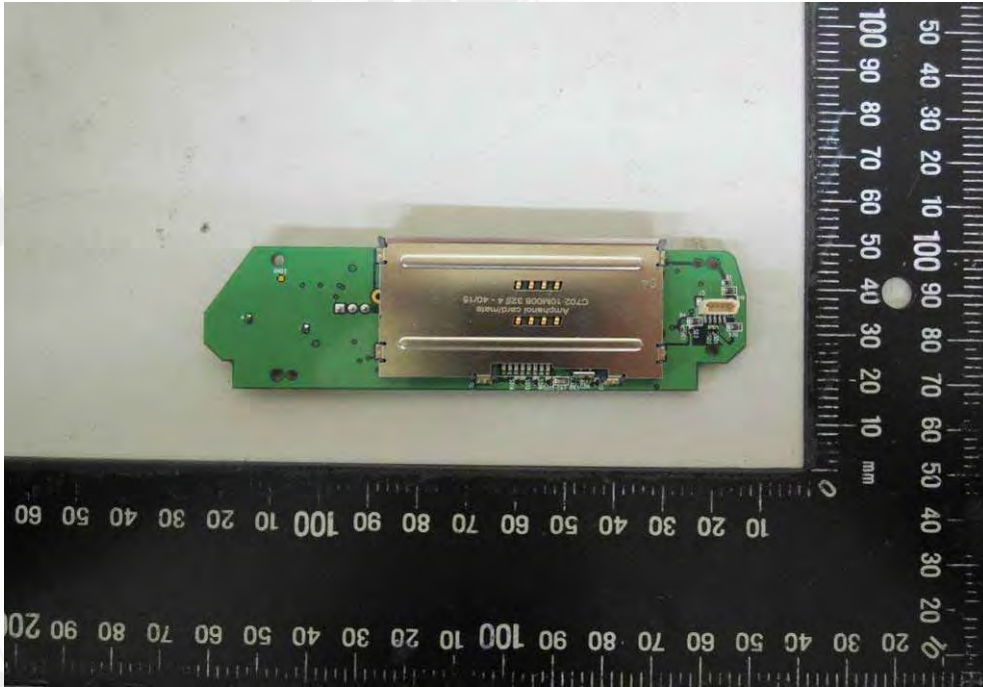
I12



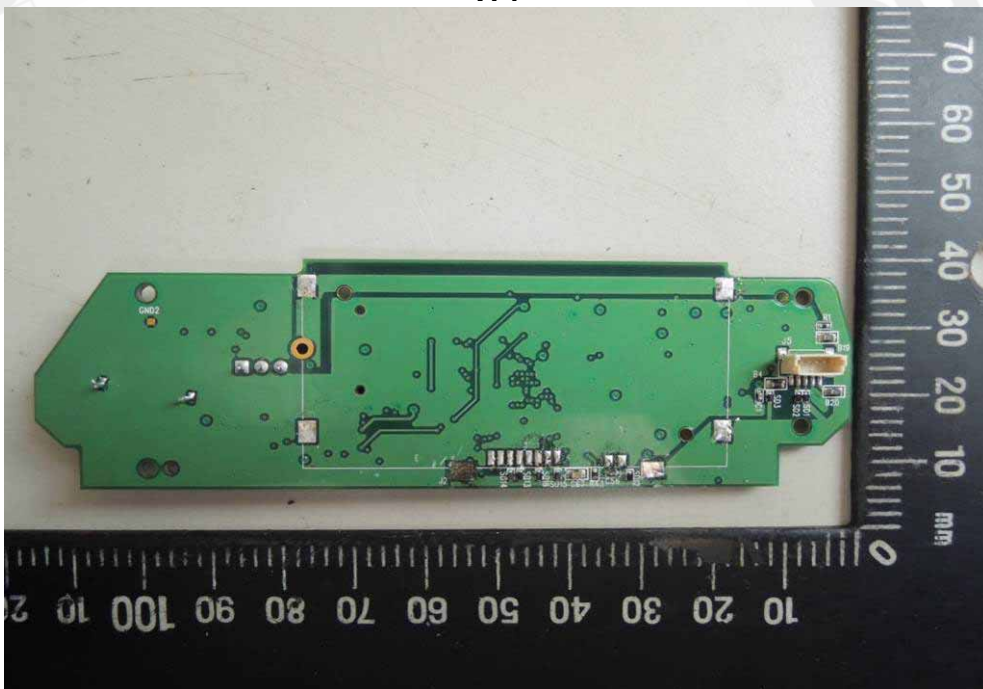
Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

I13



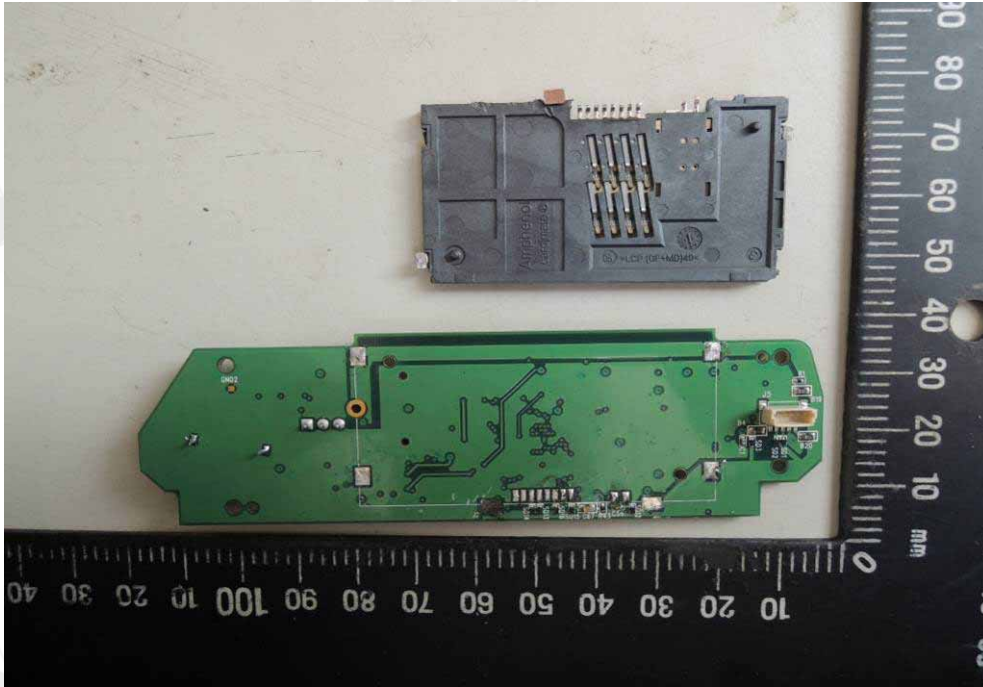
I14



Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

I15

**** End of Report ****

Copyright of this verification is owned by SGS Taiwan LTD. Electronics & Communication Laboratory and may not be reproduced except in full and with the prior approval of the Manager of SGS Taiwan Ltd. Electronics & Communication Laboratory.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.