



TEST REPORT

REPORT No.: R2SH160825F0502E

Date: September 19, 2016

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Shanghai SIMCom Wireless Solutions Ltd
SIM Technology Building, No.633, Jinzhong Road, Changning District, Shanghai, P.R. China

Report on the submitted samples said to be:

Sample Description : GSM/GPRS Module
Style/Item No. : SIM800/ SIM808
Manufacturer : Shenyang SIMCom Ltd
Sample Receiving Date : August 25, 2016
Testing Period : From August 25, 2016 to September 19, 2016
Results : Please refer to next page(s).

Summary of Test Results:

TEST REQUEST

CONCLUSION

A EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Pass

Signed for and on behalf of
BACL

Checked by: Jane Xu
Jane Xu
Technical Supervisor

Approved by: William Wei
William Wei
Laboratory Manager

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Results:

A. EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC62321-3-1:2013 screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	Yellow plastic with white/black/red printing(label)①-②	BL	BL	BL	BL	BL
2	Silvery metal(shield)①-②	BL	BL	BL	BL	---
3	Black body(IC)①-②	BL	BL	BL	BL	BL
4	Golden body(crystal)①-②	BL	BL	BL	BL	BL
5	Brown body(SMD capacitor)①-②	BL	BL	BL	BL	BL
6	Black/white body(SMD resistor)①-②	BL	BL	BL	BL	BL
7*1	Chocolate body with white printing(crystal) ①-②	OL	BL	BL	BL	BL
8	Black body(triode)①-②	BL	BL	BL	BL	BL
9	Black body(diode)①-②	BL	BL	BL	BL	BL
10	Black body(EC)①	BL	BL	BL	BL	BL
11	Black body(small IC)②	BL	BL	BL	BL	BL
12	Green PCB①-②	BL	BL	BL	BL	BL
13	Silvery solder①-②	BL	BL	BL	BL	---
14	Black body(RF-IC)①-②	BL	BL	BL	BL	BL

Remark: ①SIM800 ②SIM808

-- = Not Conducted

*1 = As claimed by the material declaration submitted by the client, the materials of the sample No.7 is ceramic. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted in electronic ceramic parts (e.g. piezoelectronic devices).

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Remark:

- (1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	LOD<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	--	BL≤250-3σ<X

Note:

- BL = Below Limit
- OL = Over Limit
- IN = Inconclusive (questionable, need further chemical analysis)
- LOD = Limit of Detection

- (2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the RoHS directive 2011/65/EU:

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RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

Remark :

(4) As requested by applicant, only components shown in this report were screened by XRF spectroscopy for 2011/65/EU and its amendment directives, other components were not screened included in this report.

(5) Photo appendix is included.

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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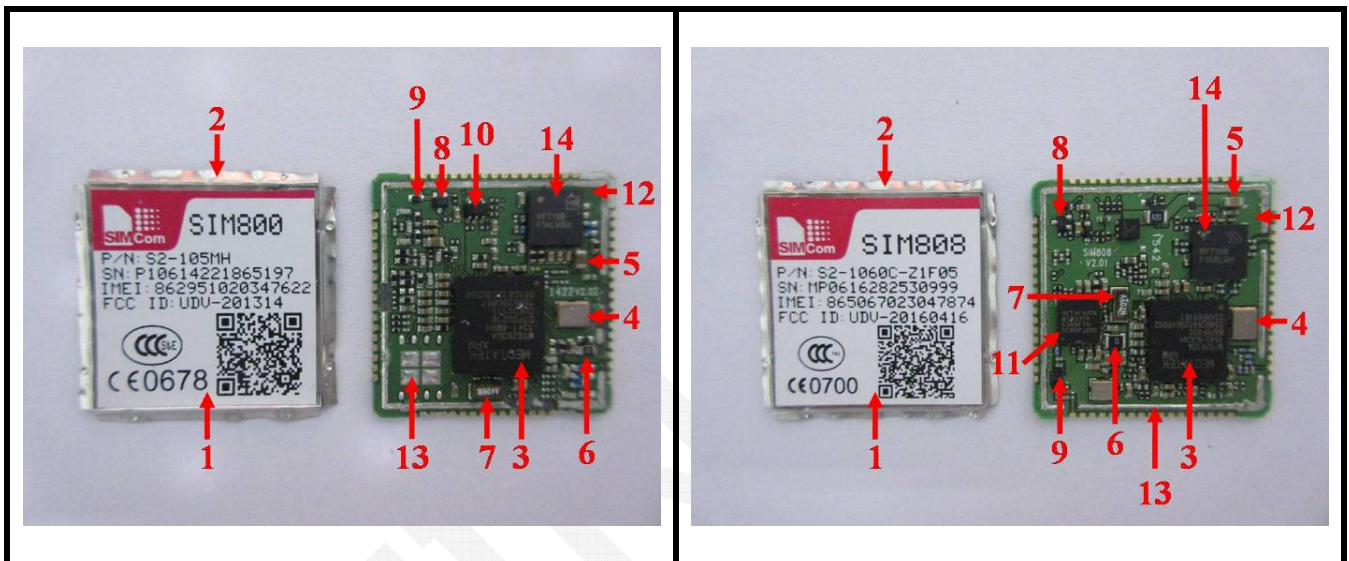
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Appendix

Photograph of Sample



BACL authenticate the photo on original report only

*** End of Report ***

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