



Test Report

Report No.: EBCT260506002

Date: May 27, 2026

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Applicant: HK ELECHOUSE LIMITED

Address: Room A516, 5/F, Yik Lee Industrial Building 35 Tai Yau Street, San Po Kong, Kowloon Hong Kong

The following sample(s) and information were submitted and identified by the applicant

Sample Name: 13.56 MHz NFC/HF RFID Reader Module
Model No.: ST25R3916, ST25R3916B Series NFC Reader Module
Sub Model No.: ST25R3916B NFC Module, ST25R3916 NFC Reader Module
Trademark: ELECHOUSE
Manufacturer: HK ELECHOUSE LIMITED
Manufacture Address: Room A516, 5/F, Yik Lee Industrial Building 35 Tai Yau Street, San Po Kong, Kowloon Hong Kong
Goods Exported to: N/A
Country of Origin: N/A
Sample Received Date: May 06, 2026
Testing Period: May 06, 2026 to May 13, 2026
Testing Requirements: Test as requested by client
Test Method: Please refer to next page(s)
Test Results: Please refer to next page(s)

Summary of test results:

Test Requested	Conclusion
RoHS Directive 2011/65/EU Annex II amending Commission Delegated Directive (EU) 2015/863 and EN IEC 63000:2018 - Lead, Mercury, Cadmium, Hexavalent Chromium, PBBs and PBDEs, Dibutyl phthalate (DBP), Benzylbutyl phthalate (BBP), Di-(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate (DIBP) Content.	PASS



Authorized signature

Hayes

Hayes Xiao

Technical supervisor

Approved Signatory

Shenzhen Ebo Testing Co., Ltd.

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Tel: 18929379499

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Results:

A. EU RoHS Directive 2011/65/EU

Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
1	White plastic	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
2	Chip capacitor	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
3	Transistor	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
4	Crystal oscillator	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
5	Silver metal	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
6	Black IC	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
7	Solder	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
8	White PCB	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	X	N.D.	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Note:

- (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 IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70-3\sigma < X$ $< 130+3\sigma \leq OL$	$BL \leq 70-3\sigma < X$ $< 130+3\sigma \leq OL$	$BL \leq 50-3\sigma < X$ $< 150+3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700-3\sigma < X$ $< 1300+3\sigma \leq OL$	$BL \leq 700-3\sigma < X$ $< 1300+3\sigma \leq OL$	$BL \leq 500-3\sigma < X$ $< 1500+3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700-3\sigma < X$ $< 1300+3\sigma \leq OL$	$BL \leq 700-3\sigma < X$ $< 1300+3\sigma \leq OL$	$BL \leq 500-3\sigma < X$ $< 1500+3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700-3\sigma < X$	$BL \leq 700-3\sigma < X$	$BL \leq 500-3\sigma < X$
Br	mg/kg	$BL \leq 300-3\sigma < X$	--	$BL \leq 250-3\sigma < X$

BL = Below Limit
OL = Over Limit
X = Inconclusive

- (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 document 2015/863/EC amending RoHS directive 2011/65/EU.
- (4) ▼ =For restricted substances PBBs and PBDEs, the results show the total Br content; The restricted substance was Cr (VI), and the results showed the total Cr content.

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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(5) Test method:

Lead (Pb) & Cadmium (Cd) Content:

According to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Mercury (Hg) Content:

According to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Hexavalent Chromium (Cr(VI)) Content:

According to IEC 62321-7-1:2015 or IEC 62321-7-2:2017, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

According to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

DBP, BBP, DEHP, DIBP Content:

According to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

RoHS Restricted Substances	Unit	MDL	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	mg/kg	2	100
Lead (Pb)	mg/kg	2	1000
Mercury (Hg)	mg/kg	2	1000
Hexavalent Chromium (Cr(VI))	ug/cm ² (Metal); mg/kg (Nonmetal)	0.1ug/cm ² (Metal); 8mg/kg (Nonmetal)	See below (Metal); 1000mg/kg (Nonmetal)
Polybrominated biphenyls (PBBs)	mg/kg	5	1000
Polybrominated diphenyl ethers (PBDEs)	mg/kg	5	1000
Dibutyl Phthalate (DBP)	mg/kg	50	1000
Benzyl butyl Phthalate (BBP)	mg/kg	50	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	1000
Diisobutyl Phthalate (DIBP)	mg/kg	50	1000

(6) As specified by applicant, to test content in the materials of the submitted samples. The test results are only responsible for the submitted sample. The test report is only for customer research, teaching, internal quality control, product development and other purposes, for reference only.

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- MDL = Method Detection Limit
 - /= Not apply
 - LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 $\mu\text{g}/\text{cm}^2$
 - mg/kg = ppm=parts per million
 - N.D.=Not Detected (<MDL or LOQ)
 - a. The sample is positive for Cr (VI) if the Cr (VI) concentration is greater than 0.13 $\mu\text{g}/\text{cm}^2$. The sample coating is considered to contain Cr (VI)
 - b. The sample is negative for Cr (VI) if Cr (VI) is N.D. (concentration less than 0.10 $\mu\text{g}/\text{cm}^2$). The sample coating is considered a non- Cr (VI) based coating
 - c. The result between 0.10 $\mu\text{g}/\text{cm}^2$ and 0.13 $\mu\text{g}/\text{cm}^2$ is considered to be inconclusive, unavoidable coating variations may influence the determination
- #1 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 5(a), Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.
- #2 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 7(c)-I, Lead is exempted in glass or ceramic otherthan dielectric ceramic in capacitors (e.g. piezo electronic devices)or in a glass orceramic matrix compound.
- #3 According to the statement provided by the customer, RoHS directive 2011/65/EU based on ANNEX III 6(c), Lead is exempted as an alloying element in Copper containing up to 4% (4000ppm) by weight.
- #4 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 7(a), Lead is exempted in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).
- #5 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 6(b), Lead is exempted as an alloying element in Aluminum containing up to 0.4% (4000ppm) by weight.
- #6 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 8(b), Cadmium and its compounds in electrical contact is exempted.
- #7 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 6(a), Lead is exempted in steel for machining purposes and in galvanized steel containing up to 0.35% (3500ppm) by weight.

Remark: As per confirmation by client, all components for different styles of test are in same materials.

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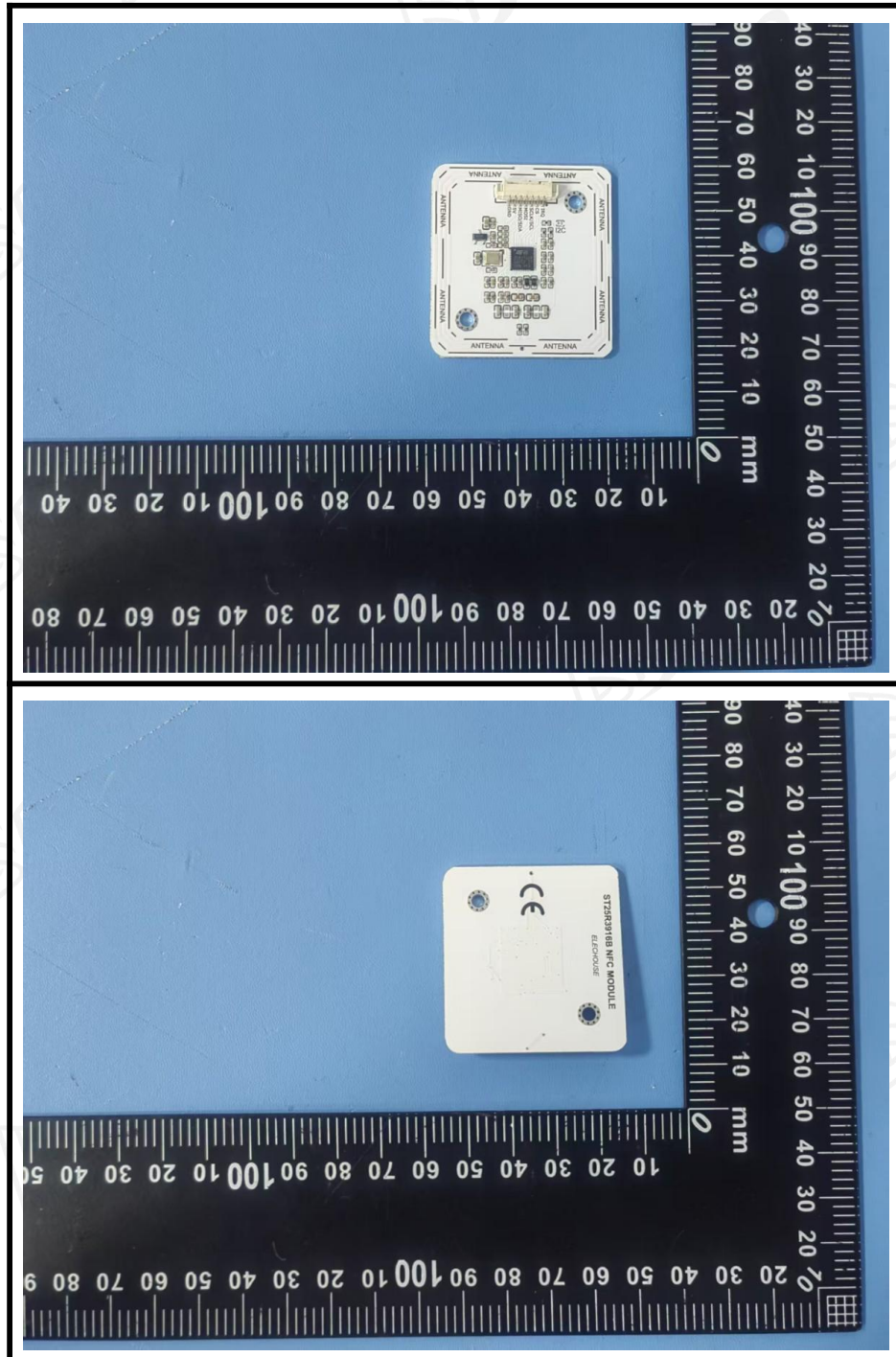
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Sample Photo:



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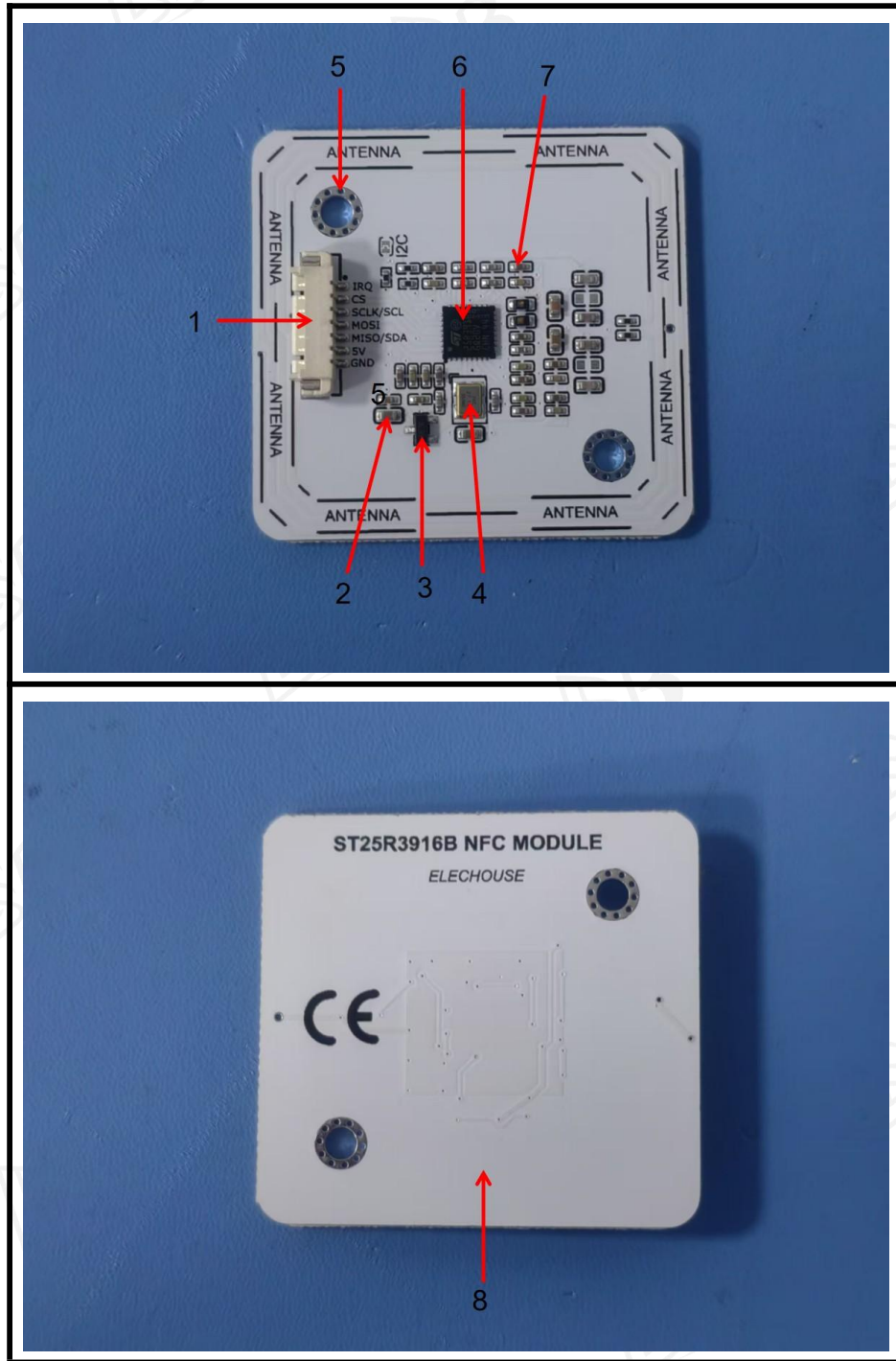


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