



**LAB NO.** : (8816)112-0097  
**DATE** : May 5, 2016  
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**APPLICANT** : **INNOKIN TECHNOLOGY CO.,LTD**  
BUILDING 6 ,XINXINTIAN INDUSTRIAL PARK, XINSHA  
ROAD, SHAJING,BAOAN DISTRICT,SHENZHEN, CHINA

**DATE OF SUBMISSION** : APR 21, 2016

**TEST PERIOD** : APR 21, 2016 TO MAY 5, 2016

**SAMPLE DESCRIPTION** : COOL FIRE IV TC100, ISUB V

Style No. : COOL FIRE IV TC100, ISUB V

**SUMMARY OF TEST RESULTS**

<b>TEST REQUESTED</b>	<b>CONCLUSION</b>	<b>REMARK</b>
European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)	PASS	-

BUREAU VERITAS SHENZHEN CO.,LTD  
DONGGUAN BRANCH

Harvey Xue  
Assistant Manager, Analytical Lab

RT/ML

**REMARK**

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86) 0769 85935656 Ext. 8819 CPSAnalytical.DG@cn.bureauveritas.com



Business Contact: (86) 0769 85893595

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Photo of the Submitted Sample



**Test Item Description and Photo List**

<b>Test Item(s)</b>	<b>Sample Photo</b>	<b>Item / Component Description(s)</b>	<b>Location(s)</b>	<b>Style(s)</b>
I001		Black printed white plastic	Case, big USB plug, cable, cool fire	-
I002		Silvery metal	Cover, big USB plug, cable, cool fire	-
I003		White plastic	Pin holder, big USB plug, cable, cool fire	-
I004		Silvery metal	Pin, big USB plug, cable, cool fire	-
I005		Silvery solder	Solder, pin, big USB plug, cable, cool fire	-
I006		White soft plastic	Wire jacket, cable, cool fire	-
I007		White soft plastic	Wire insulation, cable, cool fire	-
I008		Black soft plastic	Wire insulation, cable, cool fire	-
I009		Red soft plastic	Wire insulation, cable, cool fire	-
I010		Green soft plastic	Wire insulation, cable, cool fire	-
I011		Coppery metal	Wire, cable, cool fire	-
I012		White soft plastic	Case, small USB plug, cable, cool fire	-
I013		Silvery metal	Cover, small USB plug, cable, cool fire	-
I014		Black plastic	Pin holder, small USB plug, cable, cool fire	-
I015		Silvery metal	Pin, small USB plug, cable, cool fire	-
I016		Blue coated silvery metal	Connector, front, cool fire	-
I017		Black plastic	Sleeve, connector, front, cool fire	-
I018		Translucent soft plastic	Sealing ring, connector, front, cool fire	-

**Test Item Description and Photo List**

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I019		Blue coated silvery metal	Big connector, middle, cool fire	-
I020		Translucent soft plastic	Sealing ring, big connector, middle, cool fire	-
I021		Silvery metal	Big spring, big connector, middle, cool fire	-
I022		Transparent plastic	Outer cover, big connector, middle, cool fire cool fire	-
I023		Silvery metal	Pin, big connector, middle, cool fire cool fire	-
I024		Silvery metal	Bigger sleeve, big connector, middle, cool fire	-
I025		Silvery metal	Big sleeve, big connector, middle, cool fire	-
I026		Silvery metal	Small sleeve, big connector, middle, cool fire	-
I027		Brown coated silvery metal	Long sleeve "iSub", inner, big connector, middle, cool fire	-
I028		Silvery metal	Short sleeve, inner, big connector, middle, cool fire	-
I029		Silvery metal	Small connector, inner, big connector, middle, cool fire	-
I030		Silvery metal	Smaller connector, inner, big connector, middle, cool fire	-
I031		Silvery metal	Small spring, long sleeve, inner, big connector, middle	-
I032		Silvery metal	Net, long sleeve, inner, big connector, middle, cool fire	-
I033		Blue soft plastic	Ring, long sleeve, inner, big connector, middle, cool fire	-
I034		White soft plastic	Stopper, long sleeve, inner, big connector, middle, cool fire	-
I035		Grey soft plastic	Stopper, long sleeve, inner, big connector, middle, cool fire	-
I036		White fabric	Strip, long sleeve, inner, big connector, middle, cool fire	-
I037	White fabric	Filler, long sleeve, inner, big connector, middle, cool fire	-	


**Test Item Description and Photo List**

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I038		Grey coated silvery metal	Big sleeve "iSub", inner, big connector, middle, cool fire	
I039		Silvery metal	Small sleeve, inner, big connector, middle, cool fire	-
I040		Silvery metal	Small connector, inner, big connector, middle, cool fire	-
I041		Golden metal	Smaller connector, inner, big connector, middle, cool fire	-
I042		White ceramic	Sleeve, inner, big connector, middle, cool fire	-
I043		Blue coated silvery metal	Outer ring, middle, cool fire	-
I044		Silvery metal	Inner ring "CE", middle, cool fire	-
I045		Silvery metal	Pin, inner ring "CE", middle, cool fire	-
I046		Black printed white paper	Sticker, case, cool fire	-
I047		Blue coated silvery metal	Case, cool fire	-
I048		Black coated silvery metal	Nameplate, case, cool fire	-
I049		Black fabric	Diaphragm, case, cool fire	-
I050		Black coated silvery metal	Long frame, case, cool fire	-
I051		Black coated transparent plastic	Protector, display, long frame, case, cool fire	-
I052		Silvery metal	Connector, behind connector, long frame, case, cool fire	-
I053		Golden metal	Pin, behind connector, long frame, case, cool fire	-
I054		Grey plastic	Pin holder, behind connector, long frame, case, cool fire	-
I055		Silvery solder	Solder, pin, behind connector, long frame, case, cool fire	-
I056		Black coated silvery metal	Small button, long frame, case, cool fire	-
I057		Black coated silvery metal	Big button, long frame, case, cool fire	-
I058	Black/transparent plastic	Button cover, long frame, case, cool fire	-	

**Test Item Description and Photo List**




Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I059		Translucent soft plastic	Gasket, button, long frame, case, cool fire	-
I060		Black coated silvery metal	Short, frame, case, cool fire	-
I061		Brown/transparent plastic	Film, short frame, case, cool fire	-
I062		Black/transparent plastic	Film display, PCB, cool fire	-
I063		Transparent glass	Display, PCB, cool fire	-
I064		Brown/black plastic with silvery metal	Flat cable, display, PCB, cool fire	-
I065		Black/transparent plastic	Cover, display, PCB, cool fire	-
I066		Black soft plastic	Wire insulation, cable, PCB, cool fire	-
I067		Black soft plastic	Wire insulation, cable, PCB, cool fire	-
I068		Silvery plated coppery metal	Wire, cable, PCB, cool fire	-
I069		Golden metal	Contact plate, cable, PCB, cool fire	-
I070		Silvery solder	Solder, contact plate, cable, PCB, cool fire	-
I071		White coated black body	SMD resistor, PCB, cool fire	-
I072		Brown body	SMD capacitor, PCB, cool fire	-
I073		Black body	SMD capacitor, PCB, cool fire	-
I074		Black body	SMD diode, PCB, cool fire	-
I075		Black body	SMD transistor, PCB, cool fire	-
I076		Brown printed black body	IC "STM32F", PCB, cool fire	-
I077	Silvery metal	Pin, IC "STM32F", PCB, cool fire	-	
I078	Brown printed black body	IC "C5KBA", PCB, cool fire	-	

**Test Item Description and Photo List**

<b>Test Item(s)</b>	<b>Sample Photo</b>	<b>Item / Component Description(s)</b>	<b>Location(s)</b>	<b>Style(s)</b>
I079		Brown printed black body	IC "1530CL", PCB, cool fire	-
I080		Silvery metal	Pin, IC "1530CL", PCB, cool fire	-
I081		Brown printed black body	Back, IC "TP50001550", PCB, cool fire	-
I082		Brown printed black body	IC "GAR609", PCB, cool fire	-
I083		Brown printed black body	IC "H102", PCB, cool fire	-
I084		Silvery metal	Pin, IC "H102", PCB, cool fire	-
I085		Black body	IC "SFCED", PCB, cool fire	-
I086		Silvery metal	Pin, IC "SFCED", PCB, cool fire	-
I087		Transparent/silvery body	SMD LED, PCB, cool fire	-
I088		Multi- color coated white plastic	Sticker, EC "P46A1", PCB, cool fire	-
I089		Silvery grey body	EC "P46A1", PCB, cool fire	-
I090		Black metal	Coil holder "3R3", inductor, PCB, cool fire	-
I091		Coppery metal	Coil, inductor, PCB, cool fire	-
I092		Translucent soft plastic	Frame, big micro switch, PCB, cool fire	-
I093		White plastic	Button, big micro switch, PCB, cool fire	-
I094		Silvery metal	Case, big micro switch, PCB, cool fire	-
I095		Silvery metal	Contact plate, big micro switch, PCB, cool fire	-
I096		Silvery metal	Pin, big micro switch, PCB, cool fire	-
I097	Black plastic	Base, big micro switch, PCB, cool fire	-	
I098	Transparent/silvery body	SMD LED, PCB, cool fire	-	





**Test Item Description and Photo List**

<b>Test Item(s)</b>	<b>Sample Photo</b>	<b>Item / Component Description(s)</b>	<b>Location(s)</b>	<b>Style(s)</b>
I099		Black plastic	Button, small micro switch, PCB, cool fire	-
I100		Silvery metal	Case, small micro switch, PCB, cool fire	-
I101		Silvery metal	Contact plate, small micro switch, PCB, cool fire	-
I102		Silvery metal	Pin, small micro switch, PCB, cool fire	-
I103		Black plastic	Base, small micro switch, PCB, cool fire	-
I104		Silvery metal	Case, USB socket, PCB, cool fire	-
I105		Black plastic	Pin holder, USB socket, PCB, cool fire	-
I106		Silvery metal	Pin, USB socket, PCB, cool fire	-
I107		Black glue	Glue, case, USB socket, PCB, cool fire	-
I108		Silvery solder	Solder, PCB, cool fire	-
I109	Blue coated translucent plastic with coppery metal	PCB, cool fire	-	
I110		White/black coated silvery metal	Case, cool fire	-
I111		White coated silvery metal	Connector, front, cool fire	-
I112		White coated silvery metal	Big connector, middle, cool fire	-
I113		White coated silvery metal	Outer ring, middle, cool fire	-
I114		Red/ black coated silvery metal	Case, cool fire	-
I115		Red coated silvery metal	Connector, front, cool fire	-
I116		Red coated silvery metal	Big connector, middle, cool fire	-
I117		Red coated silvery metal	Outer ring, middle, cool fire	-



**Test Item Description and Photo List**

<b>Test Item(s)</b>	<b>Sample Photo</b>	<b>Item / Component Description(s)</b>	<b>Location(s)</b>	<b>Style(s)</b>
I118		Black coated silvery metal	Case, cool fire	-
I119		Black coated silvery metal	Connector, front, cool fire	-
I120		Black coated silvery metal	Big connector, middle, cool fire	-
I121		Black coated silvery metal	Outer ring, middle, cool fire	-
I122		Silvery metal	Short, screw, cool fire	-
I123		Silvery metal	Long, screw, cool fire	-
I124		Black coated silvery metal	Screw, cool fire	-

**TEST RESULT**

**Compliance Test – European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)**

Test Method : See Appendix.

See Analytes and their corresponding Maximum Allowable Limit in Appendix

-	Result						
Parameter	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	Conclusion
Unit	mg/kg						-
Test Item(s)	-	-	-	-	-	-	-
I001	ND	ND	ND	ND	ND	ND	PASS
I002	ND	ND	ND	ND	NA	NA	PASS
I003	ND	ND	ND	ND	ND	ND	PASS
I004	ND	ND	ND	ND	NA	NA	PASS
I005	ND	ND	ND	ND	NA	NA	PASS
I006	ND	ND	ND	ND	ND	ND	PASS
I007	ND	ND	ND	ND	ND	ND	PASS
I008	ND	ND	ND	ND	ND	ND	PASS
I009	ND	ND	ND	ND	ND	ND	PASS
I010	ND	ND	ND	ND	ND	ND	PASS
I011	ND	ND	ND	Negative*	NA	NA	PASS
I012	ND	ND	ND	ND	ND	ND	PASS
I013	ND	ND	ND	Negative*	NA	NA	PASS
I014	ND	ND	ND	ND	ND*	ND*	PASS
I015	ND	ND	ND	Negative*	NA	NA	PASS
I016	ND	ND	ND	Negative*	NA	NA	PASS
I017	ND	ND	ND	ND	ND	ND	PASS
I018	ND	ND	ND	ND	ND	ND	PASS
I019	ND	ND	ND	Negative*	NA	NA	PASS
I020	ND	ND	ND	ND	ND	ND	PASS
I021	ND	ND	ND	Negative*	NA	NA	PASS
I022	ND	ND	ND	ND	ND	ND	PASS
I023	ND	ND	ND	Negative*	NA	NA	PASS
I024	22000*	ND	ND	ND	NA	NA	PASS
I025	ND	ND	ND	Negative*	NA	NA	PASS



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**TEST RESULT**

-	Result						
Parameter	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	Conclusion
Unit	mg/kg						-
Test Item(s)	-	-	-	-	-	-	-
I026	ND	ND	ND	Negative*	NA	NA	PASS
I027	31000*	ND	ND	ND	NA	NA	PASS
I028	30000*	ND	ND	ND	NA	NA	PASS
I029	30000*	ND	ND	ND	NA	NA	PASS
I030	27000*	ND	ND	ND	NA	NA	PASS
I031	ND	ND	ND	Negative*	NA	NA	PASS
I032	ND	ND	ND	Negative*	NA	NA	PASS
I033	ND	ND	ND	ND	ND	ND	PASS
I034	ND	ND	ND	ND	ND	ND	PASS
I035	ND	ND	ND	ND	ND	ND	PASS
I036	ND	ND	ND	ND	ND	ND	PASS
I037	ND	ND	ND	ND	ND	ND	PASS
I038	30000*	ND	ND	ND	NA	NA	PASS
I039	33000*	ND	ND	ND	NA	NA	PASS
I040	27000*	ND	ND	ND	NA	NA	PASS
I041	30000*	ND	ND	ND	NA	NA	PASS
I042	ND	ND	ND	ND	ND	ND	PASS
I043	ND	ND	ND	Negative*	NA	NA	PASS
I044	ND	ND	ND	Negative*	NA	NA	PASS
I045	ND	ND	ND	Negative*	NA	NA	PASS
I046	ND	ND	ND	ND	ND	ND	PASS
I047	ND	ND	ND	Negative*	NA	NA	PASS
I048	ND	ND	ND	ND	NA	NA	PASS
I049	ND	ND	ND	ND	ND	ND	PASS
I050	ND	ND	ND	ND	NA	NA	PASS
I051	ND	ND	ND	ND	ND	ND	PASS
I052	ND	ND	ND	Negative*	NA	NA	PASS
I053	32000*	ND	ND	ND	NA	NA	PASS
I054	ND	ND	ND	ND	ND	ND	PASS
I055	ND	ND	ND	ND	NA	NA	PASS
I056	ND	ND	ND	ND	NA	NA	PASS
I057	ND	ND	ND	ND	NA	NA	PASS



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**TEST RESULT**

-	Result						
Parameter	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	Conclusion
Unit	mg/kg						-
Test Item(s)	-	-	-	-	-	-	-
I058	ND	ND	ND	ND	ND	ND	PASS
I059	ND	ND	ND	ND	ND	ND	PASS
I060	ND	ND	ND	ND	ND	ND	PASS
I061	ND	ND	ND	ND	ND	ND	PASS
I062	ND	ND	ND	ND	ND	ND	PASS
I063	ND	ND	ND	ND	ND	ND	PASS
I064	ND	ND	ND	ND	ND	ND	PASS
I065	ND	ND	ND	ND	ND	ND	PASS
I066	ND	ND	ND	ND	ND	ND	PASS
I067	ND	ND	ND	ND	ND	ND	PASS
I068	ND	ND	ND	Negative*	NA	NA	PASS
I069	ND	ND	ND	ND	NA	NA	PASS
I070	ND	ND	ND	ND	NA	NA	PASS
I071	ND	ND	ND	ND	ND	ND	PASS
I072	ND	ND	ND	ND	ND	ND	PASS
I073	ND	ND	ND	ND	ND	ND	PASS
I074	ND	ND	ND	ND	ND	ND	PASS
I075	ND	ND	ND	ND	ND	ND	PASS
I076	ND	ND	ND	ND	ND	ND	PASS
I077	ND	ND	ND	ND	NA	NA	PASS
I078	ND	ND	ND	ND	ND	ND	PASS
I079	ND	ND	ND	ND	ND	ND	PASS
I080	ND	ND	ND	ND	NA	NA	PASS
I081	ND	ND	ND	ND	ND	ND	PASS
I082	ND	ND	ND	ND	ND	ND	PASS
I083	ND	ND	ND	ND	ND	ND	PASS
I084	ND	ND	ND	ND	NA	NA	PASS
I085	ND	ND	ND	ND	ND	ND	PASS
I086	ND	ND	ND	ND	NA	NA	PASS
I087	ND	ND	ND	ND	ND	ND	PASS
I088	ND	ND	ND	ND	ND	ND	PASS
I089	ND	ND	ND	ND	ND	ND	PASS



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**TEST RESULT**

-	Result						
Parameter	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	Conclusion
Unit	mg/kg						-
Test Item(s)	-	-	-	-	-	-	-
I090	ND	ND	ND	Negative*	NA	NA	PASS
I091	ND	ND	ND	ND	NA	NA	PASS
I092	ND	ND	ND	ND	ND	ND	PASS
I093	ND	ND	ND	ND	ND	ND	PASS
I094	ND	ND	ND	Negative*	NA	NA	PASS
I095	ND	ND	ND	Negative*	NA	NA	PASS
I096	ND	ND	ND	ND	NA	NA	PASS
I097	ND	ND	ND	ND	ND	ND	PASS
I098	ND	ND	ND	ND	ND	ND	PASS
I099	ND	ND	ND	ND	ND	ND	PASS
I100	ND	ND	ND	Negative*	NA	NA	PASS
I101	ND	ND	ND	Negative*	NA	NA	PASS
I102	ND	ND	ND	ND	NA	NA	PASS
I103	ND	ND	ND	ND	ND	ND	PASS
I104	ND	ND	ND	Negative*	NA	NA	PASS
I105	ND	ND	ND	ND	ND	ND	PASS
I106	ND	ND	ND	ND	NA	NA	PASS
I107	ND	ND	ND	ND	ND	ND	PASS
I108	ND	ND	ND	ND	NA	NA	PASS
I109	ND	ND	ND	ND	ND*	ND*	PASS
I110	ND	ND	ND	ND	ND	ND	PASS
I111	ND	ND	ND	Negative*	NA	NA	PASS
I112	ND	ND	ND	Negative*	NA	NA	PASS
I113	ND	ND	ND	Negative*	NA	NA	PASS
I114	ND	ND	ND	Negative*	NA	NA	PASS
I115	ND	ND	ND	Negative*	NA	NA	PASS
I116	ND	ND	ND	Negative*	NA	NA	PASS
I117	ND	ND	ND	Negative*	NA	NA	PASS
I118	ND	ND	ND	Negative*	NA	NA	PASS
I119	ND	ND	ND	Negative*	NA	NA	PASS
I120	ND	ND	ND	Negative*	NA	NA	PASS
I121	ND	ND	ND	Negative*	NA	NA	PASS



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**TEST RESULT**

-	Result						
Parameter	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	Conclusion
Unit	mg/kg						-
Test Item(s)	-	-	-	-	-	-	-
I122	ND	ND	ND	Negative*	NA	NA	PASS
I123	ND	ND	ND	Negative*	NA	NA	PASS
I124	ND	ND	ND	Negative*	NA	NA	PASS

Note / Key:

ND = Not detected  
NR = Not requested  
NA = Not applicable  
Detection Limit : See Appendix.

“>” = Greater than  
mg/kg = milligram(s) per kilogram = ppm = part(s) per million  
% = percent

“<” = Less than  
10000 mg/kg = 1 %

Remark:

- The testing approach is listed in table of Appendix.
- \* denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- According to European Council Directive 2011/65/EU, Article 5 “Adaptation of the Annexes to scientific and technical progress”, exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.

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\*\*\* End of Report \*\*\*