

# Test Report

Report No.: **NB2019092920**

Date: **October 8, 2019**

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**Applicant:** INNOVISTA SENSORS INDUSTRY (HUIZHOU) LTD.

**Address:** 3RD FLOOR, NO. 6, HUIFENG WEST 2ND ROAD, PINGNAN INDUSTRIAL PARK -  
ZHONGKAI HI-TECH INDUSTRIAL DEVELOPMENT ZONE - HUIZHOU, GUANGDONG,  
P.R. CHINA, 516006.

The following merchandise were submitted and identified by the clients as:

Sample Name: TIMER RELAY  
Model No.: DZ1R08MV1

The following information were confirmed by the laboratory:

Testing Period: From September 25, 2019 to October 8, 2019  
Test Results: Please refer to next page(s)

## Summary of test results

	Test Requested	Conclusion
1	Heavy Metals and Flame Retardants Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)	PASS
2	Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863	PASS

Remark: Compositated test by client's request.

Signed for and on behalf of Guangdong NewBest Testing Service Co., Ltd.

Approved by:

*Jimm.*

Manager



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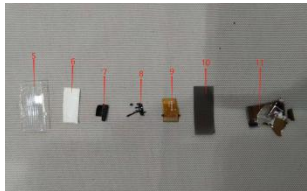
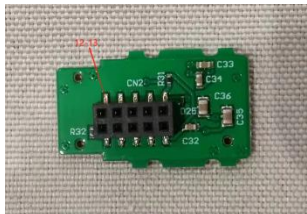
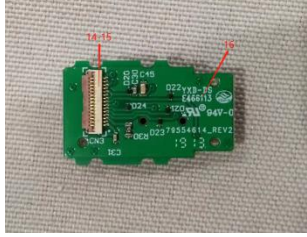
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## Test results

### Tested part(s) description:

Test Item(s)	Description	Location	Photo	
I001	Black plastic clasp	Time limit relay shell		
I002	Light grey plastic with grey printing	Time limit relay shell		
I003	Transparent plastic	Time limit relay shell		
I004	Orange plastic knob	Time limit relay shell		
I005	Transparent plastic	Digital display screen		
I006	White foam with adhesive	Digital display screen		
I007	Bright black plastic with adhesive	Digital display screen		
I008	Black glue	Digital display screen		
I009	Soft brown PCB with white printing	Digital display screen		
I010	Light black transparent plastic	Digital display screen		
I011	Transparent mirror glass with black print	Digital display screen		
I012	Black plastic base	Digital display screen PCB		
I013	Golden metal pin	Digital display screen PCB		
I014	Brown plastic	Digital display screen PCB		
I015	Beige plastic base	Digital display screen PCB		
I016	Dark green PCB with white printing	Digital display screen PCB		

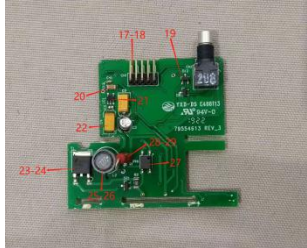

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Test Item(s)	Description	Location	Photo
I017	Black plastic	Time limit relay mainboard(CN1)	
I018	Silvery metal pin	Time limit relay mainboard(CN1)	
I019	lack triode body	Time limit relay mainboard(D12/D9)	
I020	Brown/silvery patch capacitor	Time limit relay mainboard(C12)	
I021	Black IC body	Time limit relay mainboard(IC1)	
I022	Yellow cap capacitor	Time limit relay mainboard(C3/C4)	
I023	Black transformer body	Time limit relay mainboard(T1)	
I024	Silvery metal pin	Time limit relay mainboard(T1)	
I025	Black I inductance	Time limit relay mainboard(L2)	
I026	Copper wire	Time limit relay mainboard(L2)	
I027	Black body	Time limit relay mainboard(PH1)	
I028	Brown resistance main body	Time limit relay mainboard(R1)	
I029	Silvery metal pin	Time limit relay mainboard(R1)	
I030	Black plastic base	Electrolysis capacitor(C2)	
I031	Silvery metal case with black printing	Electrolysis capacitor(C2)	
I032	Black soft plastic plug	Electrolysis capacitor(C2)	
I033	Silvery metal pin	Electrolysis capacitor(C2)	
I034	Brown paper roll	Electrolysis capacitor(C2)	
I035	Grey metal foil	Electrolysis capacitor(C2)	
I036	Silvery metal support	Rotary switch(EN1)	
I037	Black plastic shell	Rotary switch(EN1)	
I038	Golden plated silvery metal gasket	Rotary switch(EN1)	
I039	Silvery metal pin	Rotary switch(EN1)	
I040	Black plastic gear	Rotary switch(EN1)	
I041	Silvery metal axle	Rotary switch(EN1)	
I042	Black soft plastic washer	Rotary switch(EN1)	
I043	Silvery metal gasket	Rotary switch(EN1)	

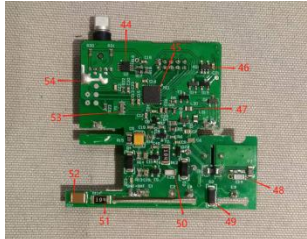

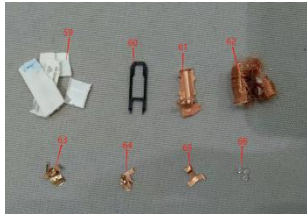
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Test Item(s)	Description	Location	Photo	
I044	Black IC body	Time limit relay mainboard(U2)		
I045	Black IC body	Time limit relay mainboard(MC1)		
I046	Black IC body	Time limit relay mainboard(AS1)		
I047	Black/silvery SMT inductor	Time limit relay mainboard(L30/L31)		
I048	White/silver patch capacitor	Time limit relay mainboard(C14)		
I049	Black diode body	Time limit relay mainboard(D2/D3/D4)		
I050	White/silver patch capacitor	Time limit relay mainboard(C29)		
I051	Black/silver patch resistor	Time limit relay mainboard(R11/R12)		
I052	Brown/silver patch capacitor	Time limit relay mainboard(C27)		
I053	Silver crystal oscillator body	Time limit relay mainboard(Y1)		
I054	Silvery metal solder	Time limit relay mainboard		
I055	Silvery metal screw	Circuit board (short)		
I056	Black plastic base	Circuit board (short)		
I057	Silvery metal clamp	Circuit board (short)		
I058	Silvery metal pin	Circuit board (short)		
I059	White plastic shell with grey printing	Relay		
I060	Black plastic	Relay		
I061	Copper metal axle	Relay		
I062	Copper wire	Relay		
I063	Golden metal shrapnel	Relay		
I064	Copper metal wafer(thin)	Relay		
I065	Copper metal wafer(thick)	Relay		
I066	Silvery metal contact	Relay		

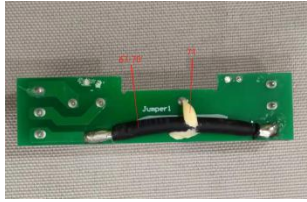
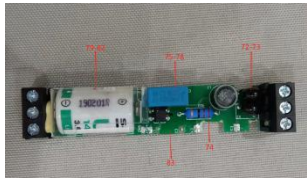
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Test Item(s)	Description	Location	Photo
I067	Black soft plastic outer wire jacket	Circuit board (short)	
I068	Black soft plastic inside wire jacket	Circuit board (short)	
I069	Silvery metal wire	Circuit board (short)	
I070	Silvery metal solder	Circuit board (short)	
I071	Light yellow glue	Circuit board (short)	
I072	Black capacitor body(G1/G2)	Circuit board (long)	
I073	Silvery metal pin(G1/G2)	Circuit board (long)	
I074	Blue resistor body with color printing(R10)	Circuit board (long)	
I075	Blue plastic shell	Potentiometer	
I076	Blue filler	Potentiometer	
I077	Silvery plastic film	Potentiometer	
I078	Silvery metal pin	Potentiometer	
I079	Transparent plastic	Battery cover	
I080	Silvery metal	Battery pin	
I081	White paper black printing with adhesive	Battery shell	
I082	White plastic with green/black printing	Battery shell	
I083	Green PCB	Circuit board (long)	

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## 1.1. Screening Test for the Certain Hazardous Substances of RoHS

- Heavy Metal (Lead, Cadmium, Mercury, Chromium) Content Test
- Bromine Content Test

Test Method: IEC62321-3-1:2013, and Quantification Analyzed with Energy Dispersive X-ray Fluorescence Spectrometers.

Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	Conclusion
Test Item(s)	Result (mg/kg)					
I001	BL	BL	BL	BL	BL	PASS
I002	BL	BL	BL	BL	IN	-
I003	BL	BL	BL	BL	BL	PASS
I004	BL	BL	BL	BL	BL	PASS
I005	BL	BL	BL	BL	BL	PASS
I006	BL	BL	BL	BL	BL	PASS
I007	BL	BL	BL	BL	BL	PASS
I008	BL	BL	BL	BL	BL	PASS
I009	BL	BL	BL	BL	BL	PASS
I010	BL	BL	BL	BL	BL	PASS
I011	BL	BL	BL	BL	BL	PASS
I012	BL	BL	BL	BL	IN	-
I013	BL	BL	BL	BL	N.A.	PASS
I014	BL	BL	BL	BL	BL	PASS
I015	BL	BL	BL	BL	BL	PASS
I016	BL	BL	BL	BL	IN	-
I017	BL	BL	BL	BL	IN	-
I018	BL	BL	BL	BL	N.A.	PASS
I019	BL	BL	BL	BL	BL	PASS
I020	BL	BL	BL	BL	BL	PASS
I021	BL	BL	BL	BL	BL	PASS
I022	BL	BL	BL	BL	BL	PASS
I023	BL	BL	BL	BL	BL	PASS
I024	BL	BL	BL	BL	N.A.	PASS
I025	BL	BL	BL	BL	BL	PASS
I026	BL	BL	BL	BL	N.A.	PASS
I027	BL	BL	BL	BL	BL	PASS
I028	BL	BL	BL	BL	BL	PASS

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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	Conclusion
Test Item(s)	Result (mg/kg)					
I029	BL	BL	BL	BL	N.A.	PASS
I030	BL	BL	BL	BL	BL	PASS
I031	BL	BL	BL	BL	N.A.	PASS
I032	BL	BL	BL	BL	BL	PASS
I033	BL	BL	BL	BL	N.A.	PASS
I034	BL	BL	BL	BL	BL	PASS
I035	BL	BL	BL	BL	N.A.	PASS
I036	BL	BL	BL	BL	N.A.	PASS
I037	BL	BL	BL	BL	BL	PASS
I038	BL	BL	BL	IN	N.A.	-
I039	BL	BL	BL	BL	N.A.	PASS
I040	BL	BL	BL	BL	BL	PASS
I041	IN	BL	BL	BL	N.A.	-
I042	BL	BL	BL	BL	BL	PASS
I043	BL	BL	BL	IN	N.A.	-
I044	BL	BL	BL	BL	IN	-
I045	BL	BL	BL	BL	BL	PASS
I046	BL	BL	BL	BL	BL	PASS
I047	BL	BL	BL	IN	BL	-
I048	BL	BL	BL	BL	BL	PASS
I049	BL	BL	BL	BL	BL	PASS
I050	BL	BL	BL	BL	BL	PASS
I051	OL	BL	BL	BL	BL	EXEMPTEN
I052	BL	BL	BL	BL	BL	PASS
I053	BL	BL	BL	BL	BL	PASS
I054	BL	BL	BL	BL	N.A.	PASS
I055	BL	BL	BL	BL	N.A.	PASS
I056	BL	BL	BL	BL	BL	PASS
I057	BL	BL	BL	BL	N.A.	PASS
I058	BL	BL	BL	BL	N.A.	PASS
I059	BL	BL	BL	BL	IN	-
I060	BL	BL	BL	BL	IN	-
I061	BL	BL	BL	BL	N.A.	PASS
I062	BL	BL	BL	BL	N.A.	PASS

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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	Conclusion
Test Item(s)	Result (mg/kg)					
I063	BL	BL	BL	BL	N.A.	PASS
I064	BL	BL	BL	BL	N.A.	PASS
I065	BL	BL	BL	BL	N.A.	PASS
I066	BL	BL	BL	BL	N.A.	PASS
I067	BL	BL	BL	BL	BL	PASS
I068	BL	BL	BL	BL	BL	PASS
I069	BL	BL	BL	BL	N.A.	PASS
I070	BL	BL	BL	BL	N.A.	PASS
I071	BL	BL	BL	BL	BL	PASS
I072	BL	BL	BL	BL	IN	-
I073	BL	BL	BL	BL	N.A.	PASS
I074	BL	BL	BL	BL	BL	PASS
I075	BL	BL	BL	BL	IN	-
I076	BL	BL	BL	BL	IN	-
I077	BL	BL	BL	BL	BL	PASS
I078	BL	BL	BL	BL	N.A.	PASS
I079	BL	BL	BL	BL	BL	PASS
I080	BL	BL	BL	IN	N.A.	-
I081	BL	BL	BL	BL	BL	PASS
I082	BL	BL	BL	BL	BL	PASS
I083	BL	BL	BL	BL	IN	-

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Note:

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %
2. "OL" denotes "over limit" ; "BL" denotes "below limit" ; "N.A." denotes "Not Applicable" ; "IN" denotes "Inconclusive" , thus further confirmation test was conducted, results are listed in 1.2 and 1.3.
3. PBBs&PBDEs were evaluated by Bromine content of XRF screening.
4. According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(c)-I is reiterated here "Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.". Test Item(s) < I051> was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
5. XRF screening limits for different materials:

Element	Polymers	Metal	Composite material
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$

## 1.2. Test for Heavy Metals

- Lead, Cadmium and Chromium Content Tests according to IEC 62321-5:2015.
- Mercury Content Test according to IEC 62321-4:2015.
- Chromium VI Content in Metal Test according to IEC 62321-7-1:2015.
- Chromium VI Content in Polymers and Electronic Test according to IEC 62321-7-2:2017.

Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	Conclusion
Detection Limit	10	10	10	10 / Δ	
Requirements	1000	100	1000	1000 / Negative	
Test Item(s)	Result (mg/kg)				
I038	/	/	/	Negative	PASS
I041	3121	/	/	/	EXEMPTED
I043	/	/	/	Negative	PASS
I047	/	/	/	N.D.	PASS
I080	/	/	/	Negative	PASS

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**Note:**

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %.
2. "N.D." = "Not Detected".
3. "Δ" = Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1)(less than 0.10μg/cm<sup>2</sup>). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1)(greater than 0.13μg/cm<sup>2</sup>).
4. According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 6(b) is reiterated here "Lead as an alloying element in aluminium containing up to 0.4 % lead by weight ". Test Item(s) < I041 > was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.

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### 1.3. Test for Flame Retardants

Test Method: IEC62321-6:2015, Analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Analyte		Result (mg/kg)					Requirement (mg/kg)
		I002	I012	I016	I017	I044	
PBBs	Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBBs < 1000
	Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBBs	N.D.	N.D.	N.D.	N.D.	N.D.	
PBDEs	Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBDEs < 1000
	Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Heptabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.	
<b>Conclusion</b>		PASS	PASS	PASS	PASS	PASS	-

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Analyte		Result (mg/kg)						Requirement (mg/kg)
		I059	I060	I072	I075	I076	I083	
PBBs	Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBBs < 1000
	Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBBs	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
PBDEs	Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBDEs < 1000
	Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Heptabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
<b>Conclusion</b>		PASS	PASS	PASS	PASS	PASS	PASS	-

Note:

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %.
2. MDL= Detection Limit = 50mg/kg.
3. "N.D." = "Not Detected".

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**2. Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863**

Test Method: IEC 62321-8:2017, Analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I001+I002+I003	I004+I005+I012	I006+I007+I008	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I009	I010+I032+I042	I014+I015+I017	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I016+I083	I030+I037+I040	I056+I059+I060	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-

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Analyte	Result (mg/kg)			Requirement (mg/kg)
	I067+I068+I071	I075+I079	I077+I082	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	90	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-

Note:

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %.
2. MDL= Detection Limit = 50mg/kg.
3. "N.D." = "Not Detected".

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Samples photograph



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NBTS authenticate the photograph on original report only

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

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