

TEST REPORT

LAB NO. : (8817)081-0070 DATE : Apr 7, 2017 PAGE : 1 OF 15

APPLICANT : PARTICLE INDUSTRIES, INC.

1475 Folsom St. #200 San Francisco, CA 94103

DATE OF SUBMISSION: MAR 22, 2017

TEST PERIOD : MAR 22, 2017 TO APR 7, 2017

SAMPLE DESCRIPTION: 3G/2G INTERNET OF THINGS DEVELOPMENT KIT

Style No.: ELECTRON

P.O. No.: 型号: E260KIT, E270KIT, E350KIT

Manufacturer: PARTICLE INDUSTRIES, INC.

Country of Origin: CHINA

SUMMARY OF TEST RESULTS

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

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RT/EL/QQ

REMARK

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Photo of the Submitted Sample







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Test Item Description and Photo List

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I001		Multi- color coated brown plastic	Sticker, cover, small PCB, kit	-
I002		Silvery metal	Cover, small PCB, kit	-
I003		Black body	IC "M39LOR", small PCB, kit	-
I004		Black body	IC "i5715", small PCB, kit	-
I005		Black body	IC "i9812", small PCB, kit	-
I006		Black body	Smallest IC, side IC "i9812", small PCB, kit	-
1007		Silvery metal	Pin, smallest IC, side IC "i9812", small PCB, kit	-
1008		Black body	IC "AAF07", small PCB, kit	-
I009		Black body	IC "RF", small PCB, kit	-
I010		Black body	Small SMD resistor, small PCB, kit	-
I011		Brown body	Smaller SMD capacitor, small PCB, kit	-
I012		Brown body	Small SMD capacitor, small PCB, kit	-
I013		Brown body	Big SMD capacitor, small PCB, kit	-
I014		Black body	Bigger SMD capacitor, small PCB, kit	-
I015		Silvery body	EC "T260", small PCB, kit	-
I016		Silvery body	EC "M6", small PCB, kit	-
I017		Silvery grey body	Smaller Inductor, small PCB, kit	-
I018		Coppery metal	Coil, smaller inductor, small PCB, kit	-



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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I019		Green coated translucent plastic with coppery metal	Small PCB, kit	-
I020		Golden metal	Case, socket, big PCB, kit	-
I021		Golden metal	Pin, socket, big PCB, kit	-
I022		Off white plastic	Holder, socket, big PCB, kit	-
I023		Black plastic	Button, micro switch, big PCB, kit	-
I024		Silvery metal	Case, micro switch, big PCB, kit	-
I025		Silvery metal	Contact plate, micro switch, big PCB, kit	-
I026		Black plastic	Base, micro switch, big PCB, kit	-
I027		Silvery metal	Pin, micro switch, big PCB, kit	-
I028	- Mail 1	Translucent/black body	EC, side micro switch, big PCB, kit	-
I029	The state of the s	Beige body	SMD LED, big PCB, kit	-
I030		Black body	Big inductor, big PCB, kit	-
I031		Coppery metal	Coil, big inductor, big PCB, kit	-
I032		Black body	IC "4BN", big PCB, kit	-
I033		Silvery metal	Pin, IC "4BN", big PCB, kit	-
I034		Black body	IC "17043", big PCB, kit	-
I035		Silvery metal	Pin, IC "17043", big PCB, kit	-
I036		White coated black body	Big SMD resistor, big PCB, kit	-
I037		Black body	IC "CFY", big PCB, kit	-
I038		Silvery metal	Pin, IC "CFY", big PCB, kit	-



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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I039		Silvery metal	Case, USB socket, big PCB, kit	-
I040		Black plastic	Pin holder, USB socket, big PCB, kit	-
I041	No.	Silvery metal	Pin, USB socket, big PCB, kit	-
I042		Off white plastic	Socket, big PCB, kit	-
I043		Silvery metal	Pin, socket, big PCB, kit	-
I044		Silvery metal	Contact plate, socket, big PCB, kit	-
I045		Black plastic	Socket, side, big PCB, kit	-
I046		Light golden metal	Pin, socket, side, big PCB, kit	-
I047		Brown body	SMD capacitor "227J", big PCB, kit	-
I048		Silvery metal	Case, socket, big PCB, kit	-
I049		Black plastic	Base, socket, big PCB, kit	-
I050		Golden metal	Pin, base, socket, big PCB, kit	-
I051	Photo and a second	Silvery/golden body	Small EC "SFG30A", big PCB, kit	-
I052		Silvery/golden body	Big EC "SJ26", big PCB, kit	-
I053		Black body	IC "ARM", big PCB, kit	-
I054		Silvery metal	Pin, IC "ARM", big PCB, kit	-
I055		Black body	IC "CV5", big PCB, kit	-
I056		Silvery metal	Pin, IC "CV5", big PCB, kit	-
I057		Black body	IC "ZWU", big PCB, kit	-
I058		Silvery metal	Pin, IC "ZWU", big PCB, kit	-



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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I059		Black body	IC "BQ24", big PCB, kit	-
I060		Silvery metal	Pin, IC "BQ24", big PCB, kit	-
I061		Black body	SMD diode "33", big PCB, kit	-
I062	Constitution of the second of	Grey body	Inductor "2R2", big PCB, kit	-
I063		Coppery metal	Coil, inductor "2R2", big PCB, kit	-
I064		Silvery solder	Solder, big PCB, kit	-
I065		Black coated translucent plastic with coppery metal	Big PCB, kit	-
I066		Transparent soft plastic	Sleeve, cable, PCB, kit	-
I067		Golden metal	Socket, cable, PCB, kit	-
I068		White plastic	Holder, socket, cable, PCB, kit	-
I069		Black plastic	Wire jacket, cable, PCB, kit	-
I070	a taoglas	Transparent soft plastic	Wire insulation, cable, PCB, kit	-
I071		Silvery solder	Solder, PCB, kit	-
I072		Black coated translucent plastic with coppery metal	PCB, kit	-
I073		White paper with glue	Adhesive tape, PCB, kit	-
I074		Red printed white paper	Sheet, PCB, kit	-
I075		Black printed white paper	Barcode, socket, kit	-
I076		Black printed white plastic	Big socket, kit	-
I077		Silvery metal	Contact plate, big socket, kit	-
I078		Blue/red coated white plastic	Small socket, kit	-



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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I079		Silvery metal	Contact plate, small socket, kit	-
1080	jamana manana mana	White foam	Foam, socket, kit	-
I081		Yellow paper	Sheet, socket, kit	-
I082		White soft plastic	Case, big USB plug, cable, kit	-
I083		Silvery metal	Cover, big USB plug, cable, kit	-
I084		White plastic	Pin holder, front, big USB plug, cable, kit	-
I085		White soft plastic	Pin holder, behind, big USB plug, cable, kit	-
I086		Silvery metal	Pin, big USB plug, cable, kit	-
I087		Silvery solder	Solder, pin, big USB plug, cable, kit	-
I088		White soft plastic	Wire jacket, cable, kit	-
I089		Blue coated silvery metal	Foil, cable, kit	-
1090		White soft plastic	Wire insulation, cable, kit	-
I091		Black soft plastic	Wire insulation, cable, kit	-
I092		Red soft plastic	Wire insulation, cable, kit	-
I093		Green soft plastic	Wire insulation, cable, kit	-
I094		Silvery plated coppery metal	Wire, cable, kit	-
1095		White soft plastic	Case, small USB plug, cable, kit	-
I096		Silvery metal	Cover, small USB plug, cable, kit	-
I097		Black plastic	Pin holder, front, small USB plug, cable, kit	-
1098		White soft plastic	Pin holder, behind, small USB plug, cable, kit	-



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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
1099		Silvery metal	Pin, small USB plug, cable, kit	-
I100		White soft plastic	Belt, cable, kit	-
I101		Silvery metal	Wire, belt, cable, kit	-
I102		Transparent plastic	Bag, kit	-
I103		Beige paper with glue	Adhesive tape, bag, kit	-
I104		Transparent body	Small LED, bag, kit	-
I105		Silvery metal	Pin, small LED, bag, kit	-
I106		Transparent body	Big LED, bag, kit	-
I107		Silvery metal	Pin, big LED, bag, kit	-
I108		Brown paper with glue	Adhesive tape, carbon film resistor, bag, kit	-
I109		Multi- color coated beige body	Carbon film resistor, bag, kit	-
I110		Silvery metal	Pin, carbon film resistor, bag, kit	-
I111		Blue/black printed white plastic with glue	Sticker, card, kit	-
I112	*Particle	Dark blue coated white plastic with golden metal	Card, kit	-
I113		Blue coated white plastic with glue	Sticker, kit	-
I114		White paper	Sheet, sticker, kit	-



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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I115		Blue coated white paper	Strip, kit	
I116		Multi- color coated white paper	Sheet, kit	
I117		Black printed white plastic	Barcode, box, kit	
I118		Black paper	Box, kit	
I119		Red coated transparent plastic	Bag, kit	-
I120		Yellow/black printed coated white plastic	Sticker, bag, kit	-
I121	The Control of the Co	White plastic	Socket, cable, battery, kit	-
I122	V	Silvery metal	Pin, socket, cable, battery, kit	-
I123	***************************************	Red soft plastic	Wire insulation, cable, battery, kit	-
I124		Black soft plastic	Wire insulation, cable, battery, kit	-
I125		Silvery solder	Solder, PCB, battery, kit	-
I126		Green coated translucent plastic with coppery metal	PCB, battery, kit	-
I127		White coated transparent plastic	Box, kit	-
I128		Matt black foam	Thick, foam, box, kit	-
I129		Black foam	Thin, foam, box, kit	-



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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							
D 4	I 1 (D1)	Cadmium	Mercury	Chromium	DDD	DDDE	G 1 .	
Parameter	Lead (Pb)	(Cd)	(Hg)	VI (Cr VI)	PBBs	PBDEs	Conclusion	
Unit			mg	g/kg			-	
Test Item(s)	-	-	-	-	-	-	-	
I001	ND	ND	ND	ND	ND	ND	PASS	
I002	ND	ND	ND	ND	NA	NA	PASS	
1003	ND	ND	ND	ND	ND	ND	PASS	
I004	ND	ND	ND	ND	ND	ND	PASS	
I005	ND	ND	ND	ND	ND	ND	PASS	
I006	ND	ND	ND	ND	ND	ND	PASS	
I007	ND	ND	ND	ND	NA	NA	PASS	
1008	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	ND	ND	ND	PASS	
I012	ND	ND	ND	ND	ND	ND	PASS	
I013	ND	ND	ND	ND	ND	ND	PASS	
I014	ND	ND	ND	ND	ND	ND	PASS	
I015	ND	ND	ND	ND	NA	NA	PASS	
I016	ND	ND	ND	ND	NA	NA	PASS	
I017	ND	ND	ND	ND	NA	NA	PASS	
I018	ND	ND	ND	ND	NA	NA	PASS	
I019	ND	ND	ND	ND	ND	ND	PASS	
I020	ND	ND	ND	ND	NA	NA	PASS	
I021	ND	ND	ND	ND	NA	NA	PASS	
I022	ND	ND	ND	ND	ND	ND	PASS	
I023	ND	ND	ND	ND	ND	ND	PASS	
I024	ND	ND	ND	Negative*	NA	NA	PASS	
I025	ND	ND	ND	Negative*	NA	NA	PASS	
I026	ND	ND	ND	ND	ND	ND	PASS	
1027	ND	ND	ND	ND	NA	NA	PASS	



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				175		175	D. 66
I028	ND	ND	ND	ND	ND	ND	PASS
I029	ND	ND	ND	ND	ND	ND	PASS
I030	ND	ND	ND	ND	NA	NA	PASS
I031	ND	ND	ND	ND	NA	NA	PASS
I032	ND	ND	ND	ND	ND	ND	PASS
I033	ND	ND	ND	ND	NA	NA	PASS
I034	ND	ND	ND	ND	ND	ND	PASS
I035	ND	ND	ND	ND	NA	NA	PASS
I036	ND	ND	ND	ND	ND	ND	PASS
I037	ND	ND	ND	ND	ND	ND	PASS
I038	ND	ND	ND	ND	NA	NA	PASS
I039	ND	ND	ND	ND	NA	NA	PASS
I040	ND	ND	ND	ND	ND	ND	PASS
I041	ND	ND	ND	ND	NA	NA	PASS
I042	ND	ND	ND	ND	ND*	ND*	PASS
I043	ND	ND	ND	ND	NA	NA	PASS
I044	ND	ND	ND	ND	NA	NA	PASS
I045	ND	ND	ND	ND	ND*	ND*	PASS
I046	ND	ND	ND	ND	NA	NA	PASS
I047	ND	ND	ND	ND	ND	ND	PASS
I048	ND	ND	ND	Negative*	NA	NA	PASS
I049	ND	ND	ND	ND	ND	ND	PASS
I050	ND	ND	ND	ND	NA	NA	PASS
I051	ND	ND	ND	ND	NA	NA	PASS
I052	ND	ND	ND	ND	NA	NA	PASS
I053	ND	ND	ND	ND	ND	ND	PASS
I054	ND	ND	ND	ND	NA	NA	PASS
I055	ND	ND	ND	ND	ND	ND	PASS
I056	ND	ND	ND	ND	NA	NA	PASS
I057	ND	ND	ND	ND	ND	ND	PASS
I058	ND	ND	ND	ND	NA	NA	PASS
I059	ND	ND	ND	ND	ND	ND	PASS
I060	ND	ND	ND	ND	NA	NA	PASS
I061	ND	ND	ND	ND	ND*	ND*	PASS
I062	ND	ND	ND	ND	NA	NA	PASS
I063	ND	ND	ND	ND	NA	NA	PASS
I064	ND	ND	ND	ND	NA	NA	PASS
I065	ND	ND	ND	ND	ND*	ND*	PASS
INSS	ND	ND	ND	ND	ND	ND	PASS
I066	ND	111	- 1				
I066 I067	ND	ND	ND	ND	NA	NA	PASS



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I069	ND	ND	ND	ND	ND	ND	PASS
I070	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	PASS
I070	ND ND	ND ND	ND ND	ND ND	NA NA	NA NA	PASS
I071	ND ND	ND ND	ND ND	ND ND	ND*	ND*	PASS
I072	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	PASS
I073	ND ND	ND ND	ND ND	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 ND	PASS
1078	ND	ND	ND	ND	ND	ND	PASS
I079	ND	ND	ND	ND	NA	NA	PASS
I080	ND	ND	ND	ND	ND	ND	PASS
I081	ND	ND	ND	ND	ND	ND	PASS
I082	ND	ND	ND	ND	ND	ND	PASS
I083	ND	ND	ND	ND	NA	NA	PASS
I084	ND	ND	ND	ND	ND*	ND*	PASS
I085	ND	ND	ND	ND	ND	ND	PASS
I086	ND	ND	ND	ND	NA	NA	PASS
I087	ND	ND	ND	ND	NA	NA	PASS
I088	ND	ND	ND	ND	ND	ND	PASS
I089	ND	ND	ND	Negative*	NA	NA	PASS
I090	ND	ND	ND	ND	ND	ND	PASS
I091	ND	ND	ND	ND	ND	ND	PASS
I092	ND	ND	ND	ND	ND	ND	PASS
I093	ND	ND	ND	ND	ND	ND	PASS
I094	ND	ND	ND	ND	ND	ND	PASS
I095	ND	ND	ND	ND	ND	ND	PASS
I096	ND	ND	ND	Negative*	NA	NA	PASS
I097	ND	ND	ND	ND	ND	ND	PASS
I098	ND	ND	ND	ND	ND	ND	PASS
I099	ND	ND	ND	Negative*	NA	NA	PASS
I100	ND	ND	ND	ND	ND	ND	PASS
I101	ND	ND	ND	ND	NA	NA	PASS
I102	ND	ND	ND	ND	ND	ND	PASS
I103	ND	ND	ND	ND	ND	ND	PASS
I104	ND	ND	ND	ND	ND*	ND*	PASS
I105	ND	ND	ND	ND	NA	NA	PASS
I106	ND	ND	ND	ND	ND*	ND*	PASS
I107	ND	ND	ND	ND	NA	NA	PASS
I108	ND	ND	ND	ND	ND	ND	PASS
I109	ND	ND	ND	ND	ND	ND	PASS



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I110	ND	ND	ND	ND	NA	NA	PASS
I111	ND	ND	ND	ND	ND	ND	PASS
I112	ND	ND	ND	ND	ND	ND	PASS
I113	ND	ND	ND	ND	ND	ND	PASS
I114	ND	ND	ND	ND	ND	ND	PASS
I115	ND	ND	ND	ND	ND	ND	PASS
I116	ND	ND	ND	ND	ND	ND	PASS
I117	ND	ND	ND	ND	ND	ND	PASS
I118	ND	ND	ND	ND	ND	ND	PASS
I119	ND	ND	ND	ND	ND	ND	PASS
I120	ND	ND	ND	ND	ND	ND	PASS
I121	ND	ND	ND	ND	ND	ND	PASS
I122	ND	ND	ND	ND	NA	NA	PASS
I123	ND	ND	ND	ND	ND	ND	PASS
I124	ND	ND	ND	ND	ND	ND	PASS
I125	ND	ND	ND	ND	NA	NA	PASS
I126	ND	ND	ND	ND	ND*	ND*	PASS
I127	ND	ND	ND	ND	ND	ND	PASS
I128	ND	ND	ND	ND	ND	ND	PASS
I129	ND	ND	ND	ND	ND	ND	PASS
L		l .		1	l .		l

Note / Key:

Detection Limit: See Appendix.

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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APPENDIX

List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [Compliance Test for European Parliament and Council Directive 2011/65/EU]: **Detection Limit (mg/kg)** Maximum X-ray fluorescence $(XRF)^{[a]}$ Allowable No. Name of Analytes Wet Metallic / Limit Chemistry Plastic glass / Others (mg/kg) ceramic 10^[b] 1 Lead (Pb) 100 200 200 1000 10^[b] 2 Cadmium (Cd) 50 50 50 100 10^[c] 100 200 200 1000 3 Mercury (Hg) 4 Chromium (Cr) 100 200 200 NA NA 3^[g, h] / 10^[d] / 1000 / 5 Chromium VI (Cr VI) NA NA NA See [e, j] Negative^[j] 6 Bromine (Br) 200 NA 200 NA NA Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) 7 Each 50^[f] Sum 1000 - Pentabromobiphenyl (PentaBB) NA NA NA - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB) Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) Each 50^[f] 8 - Pentabromodiphenyl ether (PentaBDE) NA NA NA Sum 1000 - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE)

- Decabromodiphenyl ether (DecaBDE)



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List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [Compliance Test for European Parliament and Council Directive 2011/65/EU]:

- NA = Not applicable
- [a] Test method with reference to International Standard IEC 62321-3-1: 2013.
- Test method with reference to International Standard IEC 62321-5: 2013.
- [c] Test method with reference to International Standard IEC 62321-4: 2013.
- [d] Polymers and Electronics Test method with reference to European Standard EN 62321: 2009, Annex C.
- [e] Metal Test method with reference to International Standard IEC 62321-7-1: 2015.
- [f] Test method with reference to International Standard IEC 62321-6: 2015.
- [g] Leather Test method International Standard ISO 17075: 2007.
- (h) Other Than Metal, Leather, Polymers and Electronics Test method with reference to International Standard ISO 17075: 2007.
- The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.
- 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 Parliament and Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).

Testing Approach [Compliance Test for European Parliament and Council Directive 2011/65/EU]:

The testing approach was with reference to the following document(s).

- 1 International Standards IEC 62321-1: 2013 and IEC 62321-2: 2013
- 2 "RoHS Enforcement Guidance Document Version 1" by EU RoHS Enforcement Authorities Informal Network. (May 2006)
- 3 "RoHS Regulations Government Guidance Notes" by United Kingdom Department for Business Innovation & Skills. (February 2011)
- 4 "Final Report to RoHS substances (Hg, Pb, Cr(VI), Cd, PBB and PBDE) in electrical and electronic equipment in Belgium" by Belgium Federal Public Service Health, Food Chain Safety and Environment. (November 2005)

*** End of Report ***