

Verification Report No. CANEC2003735801 Date: 11 May 2020 Page 1 of 35

GUANGZHOU ZHIYUAN ELECTRONICS CO.,LTD.

FLOOR2, BUILDING NO.7, HUANGZHOU INDUSTRIAL ESTATE, CHEBEI ROAD, TIANHE DISTRICT, GUANGZHOU, CHINA

USBCAN Interface Card Sample Name:

SGS Job No.: CP20-011067 - GZ

Tested Basic Model No.

(P.O.No):

USBCAN-E-D

Date of Sample Received: 25 Mar 2020

Verification Period: 25 Mar 2020 - 11 May 2020

With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU. Verification Requested:

Verification Method: Please refer to next page(s). Verification Result: Please refer to next page(s).

Verification Conclusion: Based on the verification results of the submitted samples, the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Letitia Pan Approved Signatory

Letitia Pan



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Verification Method:

- 1. With reference to IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles.
- 2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
- (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy
- (2) Wet chemical test method
- a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES
- b.With reference to IEC 62321-5:2013, determination of Lead by ICP-OES c.With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES
- d.With reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017 & ISO 17075-1:2017, determination of Hexavalent chromium by Colorimetric method using UV-Vis. e.With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
- 3. With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.



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In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified.

Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
1	White adhesive plastic	Pb	BL			Comply	25 Mar 2020
	sheet w/ black printing	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
2	Silvery metal shell w/	Pb	BL			Comply	25 Mar 2020
_	white printing	Cd	BL			Comply	25 IVIAI 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
3	Silvery metal screw	Pb	BL			Comply	25 Mar 2020
-		Cd	BL			Comply	20 IVIGI 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP					
		DEHP					
		DIBP					
4	Grey surfaced plastic	Pb	BL			Comply	25 Mar 2020
	cover w/ black printing	Cd	BL			Comply	20 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
5	Green plastic part	Pb	BL			Comply	25 Mar 2020
	' '	Cd	BL			Comply	20 Wai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	 Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
6	Silvery metal pin	Pb	BL	 	Comply	25 Mar 2020
		Cd	BL	 	Comply	
		Hg	BL	 	Comply	
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		
7	Silvery metal sheet	Pb	BL	 	Comply	25 Mar 2020
		Cd	BL	 	Comply	25 Mai 2020
		Hg	BL	 	Comply	
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		
8	Silvery metal screw	Pb	BL	 	Comply	25 Mar 2020
		Cd	BL	 	Comply	20 IVIAI 2020
		Hg	BL	 	Comply	
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP					
		DEHP					
		DIBP					
9	Silvery metal part	Pb	OL		21774▲	Comply	25 Mar 2020
		Cd	BL			Comply	20 10101 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
10	Black plastic shell	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	25 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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11	Silvery metal part	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	20 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
12	Silvery metal sheet	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	20 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	IN		ND	Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
		Pb	BL			Comply	25 Mar 2020
13	ISilvery metal part			1	I	l	L CO IVIAI CUCU
13	Silvery metal part	Cd	BL			Comply	
13	Silvery metal part	Cd Hg	BL BL			Comply Comply	
13	Silvery metal part						
13	Silvery metal part	Hg	BL			Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP					
		DEHP					
		DIBP					
14	Silvery metal frame	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
15	Silvery metal pin	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	20 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
16	Beige plastic part	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
17	White translucent body	Pb	BL			Comply	25 Mar 2020
	(LED)	Cd	BL			Comply	20 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
18	Black plastic button	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	20 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	



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		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
19	Silvery metal sheet	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	20 Wai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
20	Black plastic part	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	20 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
21	Silvery metal sheet	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	Zo Mai Zozo
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
22	Black plastic shell w/	Pb	BL			Comply	25 Mar 2020
	white printing	Cd	BL			Comply	20 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
23	Black rubber cover	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	20 11101 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
24	Black plastic shell w/	Pb	BL			Comply	25 Mar 2020
	white printing	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
25	Beige plastic shell w/	Pb	BL			Comply	25 Mar 2020
	black printing	Cd	BL			Comply	20 Wai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
26	Green "PCB"	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
27	Black block	Pb	BL			Comply	25 Mar 2020
	(envelopment)	Cd	BL			Comply	20 10101 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
28	Black body	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	20 11101 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP			ND	Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
29	Black body	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	20 Wai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
30	Black body w/ white	Pb	BL			Comply	25 Mar 2020
	printing	Cd	BL			Comply	20 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
31	Black body	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
32	Black body w/ white	Pb	BL			Comply	25 Mar 2020
	printing	Cd	BL			Comply	20 Wai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
33	Black body w/ white	Pb	BL			Comply	25 Mar 2020
	printing	Cd	BL			Comply	20 IVIAI 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
34	Black body	Pb	OL▲			Comply	25 Mar 2020
		Cd	BL			Comply	20 Wai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
35	Yellow body	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	20 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
36	Black body	Pb	OL▲			Comply	25 Mar 2020
		Cd	BL			Comply	20 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
37	Black body	Pb	OL▲			Comply	25 Mar 2020
		Cd	BL			Comply	25 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
38	Black body	Pb	OL▲			Comply	25 Mar 2020
		Cd	BL			Comply	20 IVIGI 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
39	Black body	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	20 11101 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
40	Dark blue plastic shell w/	Pb	BL			Comply	25 Mar 2020
	white printing	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
41	Copper-colored metal pin	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	20 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
42	Light golden metal sheet	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	20 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
43	Silvery metal sheet	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	 Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP		 		
		DEHP		 		
		DIBP		 		
44	Black plastic part	Pb	BL	 	Comply	25 Mar 2020
		Cd	BL	 	Comply	20 11101 2020
		Hg	BL	 	Comply	
		Cr(VI)▼	BL	 	Comply	
		PBBs	IN	 ND	Comply	
		PBDEs	IN	 ND	Comply	
		DBP		 ND	Comply	
		BBP		 ND	Comply	
		DEHP		 ND	Comply	
		DIBP		 ND	Comply	
45	Silvery metal solder	Pb	BL	 	Comply	25 Mar 2020
		Cd	BL	 	Comply	20 10101 2020
		Hg	BL	 	Comply	
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
46	Green "PCB"	Pb	BL			Comply	25 Mar 2020
		Cd	BL			Comply	20 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
47	Silvery metal pin	Pb	BL			Comply	25 Mar 2020
	, p	Cd	BL			Comply	25 Mai 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
48	Blue body w/ multicolor	Pb	BL			Comply	25 Mar 2020
	printing	Cd	BL			Comply	20 11101 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	"	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	



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Remark

(1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDFs.

There is the result on total Cr while test item on restricted substances is Cr(VI).

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

Element	Polymer	Metal	Composite Materials
Cd	BL≤(70-3σ)< X <(130+3σ)≤OL	BL≤(70-3σ)< X <(130+3σ)≤OL	LOD < X <(150+3σ)≤ OL
Pd	BL≤(700-3σ)< X<(1300+3σ)≤ OL	BL≤(700-3σ)< X <(1300+3σ)≤ OL	BL≤(500-3σ)< X<(1500+3σ)≤ OL
Hg	BL≤(700-3σ)< X <(1300+3σ)≤ OL	BL≤(700-3σ)< X <(1300+3σ)≤ OL	BL≤(500-3σ)< X <(1500+3σ)≤ OL
Br	BL ≤ (300-3σ)< X		BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

- (c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not regulated.
- (d) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) Screening results of PHTH are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value(unit: mg/kg).

Compound	Polymer
DBP	BL ≤ 600< X
BBP	BL ≤ 600< X
DEHP	BL ≤ 600< X
DIBP	BL ≤ 600< X

- (3) (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not conducted, = Without BOM.
 - (b) Unit and MDL in wet chemical test

Test	Item	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
U	nit	mg/kg						
М	DL	10	10	10	100	100	100	100

The MDL for single compound of PBBs and PBDEs is 100 mg/kg,

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MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.

MDL of Cr(VI) for metal sample is 0.10µg/cm².



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- (c) [▼] =Metal sample
 - a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 μ g/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive
 - unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

(4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBBs/PBDEs/DEHP/DBP/BBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(5) ▲=According to the declaration from the client,

Lead (Pb) in No.34, No.36, No.37 are exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(c)-I|: 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.

Lead (Pb) in No.38 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(a)|: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).



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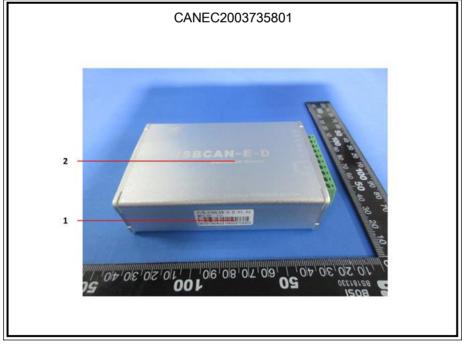
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Sample photo:







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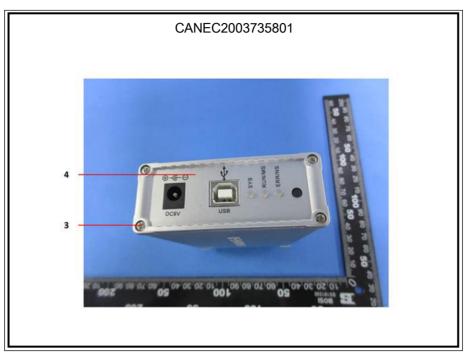
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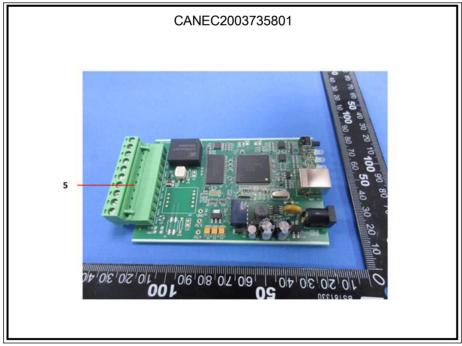


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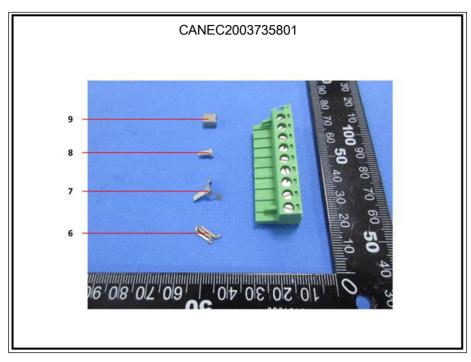
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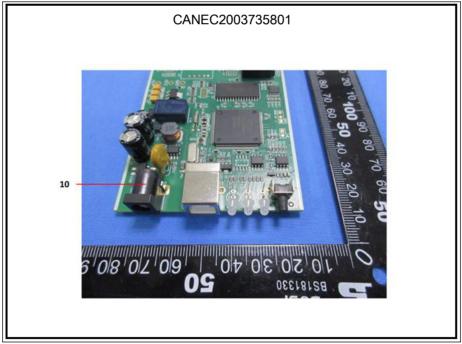
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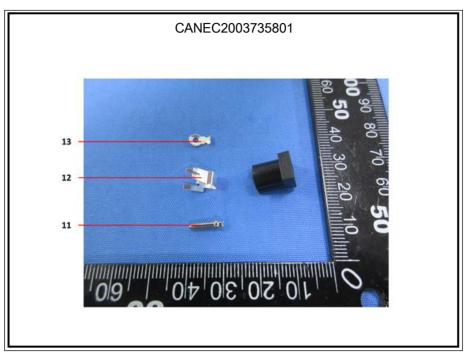
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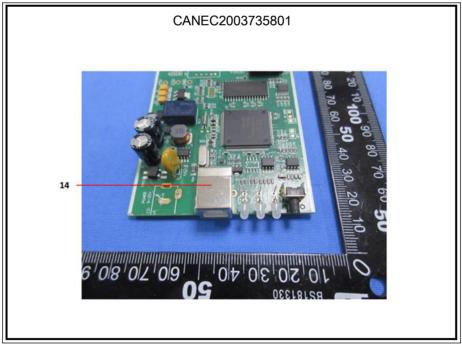
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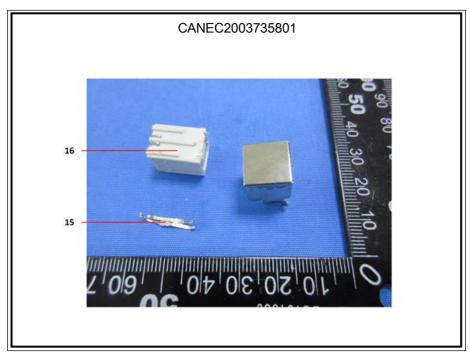
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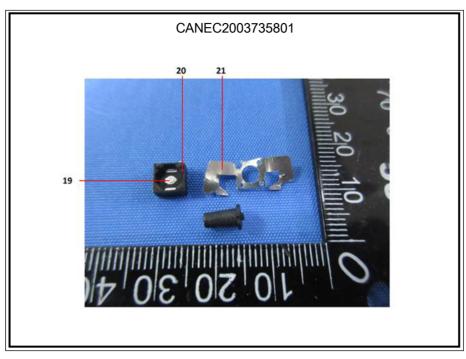


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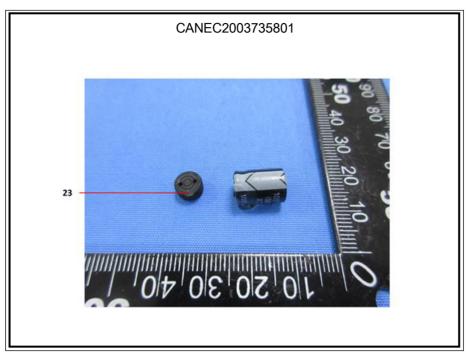
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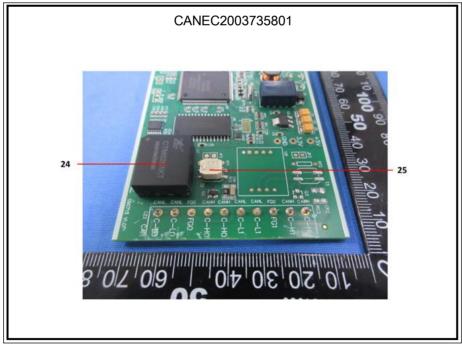
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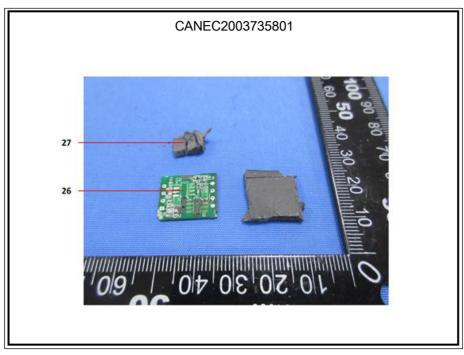
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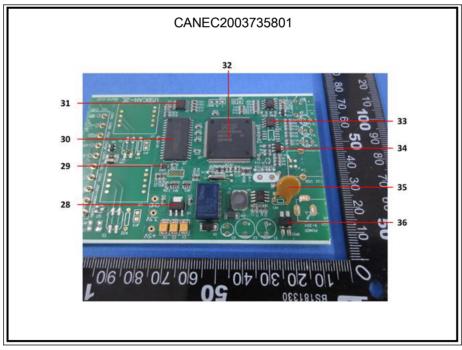


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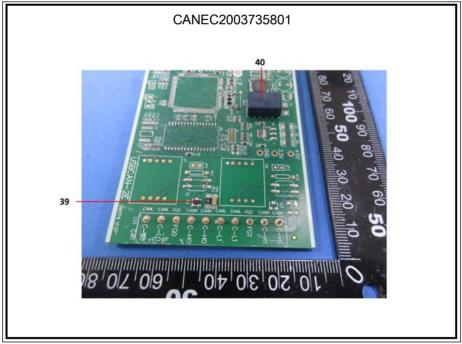


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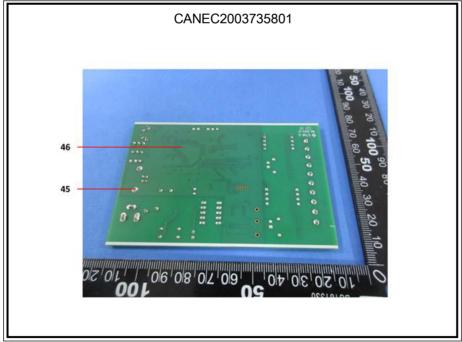
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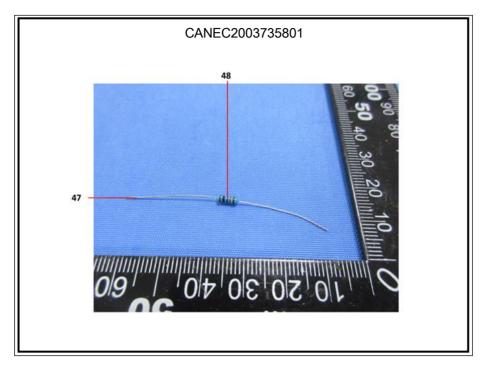
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