

TEST REPORT

SAMPLE INFORMATION:

Sample Name:	Humidity temp dew point calibrator meter
Trade Mark:	NA
Basic Model NO.:	HK-J8A100 Series
Series Model NO.:	HK-J8A102,HK-J8A103
Manufacturer:	HENGKO Technology Co., Ltd.
Manufacturer Address:	No. 51-3, Fuan West Road, Pinghu Street, Longgang District, Shenzhen,
	Guangdong, 518111 China

CLIENT INFORMATION:	
Applicant:	HENGKO Technology Co., Ltd.
Applicant Address:	No. 51-3, Fuan West Road, Pinghu Street, Longgang District, Shenzhen,
	Guangdong, 518111 China
Date of Receipt:	May 31,2021
Date of Test:	May 31,2021-June 11,2021

Test Requested:

With reference to RoHS Directive 2015/863/EU amending 2011/65/EU.

Test Method:

Please refer to next page(s).

Test Results:

Please refer to next page(s).

Summary

As requested by applicant, the submitted sample was/were tested, with is listed as specimen description in the following page.the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis (2-ethylhexyl) phthalate (DEHP), Dibutyl phthalate (DBP), Butylbenzyl Phthalate (BBP), Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Conclusion

PASS

Signed for Shenzhen TOBY

Xiao Shan. Ni

Xiaoshan Ni(Supervisor)



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Shenzhen Toby Testing Co.,Ltd.

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Remark:

(1) There are the results on total Br while tset items on restricted substances are PBBs and PBDEs. There are the results on total Cr while tset items on restricted substances Cr(VI)

(2) Results are obtained by EDXRF for primary screening, and futher 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 Materials	Metal Materials	Composite Materials
Cd	P≤70-3σ <d<130+3σ≤f< td=""><td>P≤70-3σ<d<130+3σ≤f< td=""><td>P≤50-3σ<d<150+3σ≤f< td=""></d<150+3σ≤f<></td></d<130+3σ≤f<></td></d<130+3σ≤f<>	P≤70-3σ <d<130+3σ≤f< td=""><td>P≤50-3σ<d<150+3σ≤f< td=""></d<150+3σ≤f<></td></d<130+3σ≤f<>	P≤50-3σ <d<150+3σ≤f< td=""></d<150+3σ≤f<>
Pb	P≤700-3σ <d<1300+3σ≤f< td=""><td>P≤700-3σ<d<1300+3σ≤f< td=""><td>P≤500-3σ<d<1500+3σ≤f< td=""></d<1500+3σ≤f<></td></d<1300+3σ≤f<></td></d<1300+3σ≤f<>	P≤700-3σ <d<1300+3σ≤f< td=""><td>P≤500-3σ<d<1500+3σ≤f< td=""></d<1500+3σ≤f<></td></d<1300+3σ≤f<>	P≤500-3σ <d<1500+3σ≤f< td=""></d<1500+3σ≤f<>
Hg	P≤700-3σ <d<1300+3σ≤f< td=""><td>P≤700-3σ<d<1300+3σ≤f< td=""><td>P≤500-3σ<d<1500+3σ≤f< td=""></d<1500+3σ≤f<></td></d<1300+3σ≤f<></td></d<1300+3σ≤f<>	P≤700-3σ <d<1300+3σ≤f< td=""><td>P≤500-3σ<d<1500+3σ≤f< td=""></d<1500+3σ≤f<></td></d<1300+3σ≤f<>	P≤500-3σ <d<1500+3σ≤f< td=""></d<1500+3σ≤f<>
Br	P≤300-3σ <d< td=""><td></td><td>P≤250-3σ<d< td=""></d<></td></d<>		P≤250-3σ <d< td=""></d<>
Cr	P≤700-3σ <d< td=""><td>P≤700-3σ<d< td=""><td>P≤500-3σ<d< td=""></d<></td></d<></td></d<>	P≤700-3σ <d< td=""><td>P≤500-3σ<d< td=""></d<></td></d<>	P≤500-3σ <d< td=""></d<>

(a) P = Below Limit, F = Over Limit, D=Inconclusive, LOD=Limit of Detection, ---=Not regulated.

(b)The XRF screening test for RoHS elements- the reading may be different to actual content in the sample be of non-uniformity composition

(3) Chemical Method

① With reference to IEC 62321-5:2013, determination of Cadmium,Lead by ICP-OES.

2 With reference to IEC 62321-4:2013+AMD1:2017 CSV, determination of Mercury by ICP-OES.

③ With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by UV-Vis.

④ With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

(5) With reference to IEC 62321-8:2017, determination of Phthalates by GC-MS.

(4) (a) mg/kg=0.0001%,MDL=MDL=Method Detection Limit,(3)ND=Not Detected(<MDL),(4)---=Not Regulated

Test Item	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg						
MDL	10	10	10	100	100	100	100

(b)Unit and MDL in wet chemical test

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

MDL of Cr(VI) for polymer and composite anmple is 10 mg/kg

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

- (c) ▼=Metal sample
 - a. The sample is negative for Cr⁶⁺ the Cr⁶⁺ concentration is below the limit 0.10ug/cm². The coating is considered a non-Cr⁶⁺ based coating.
- b. The sample positive for Cr⁶⁺ if the Cr⁶⁺ concentration is greater than 0.13ug/cm². The sample coating is considered to contain Cr⁶⁺.
- c. The result between 0.10ug/cm² and 0.13ug/cm² is considered to be inconclusive unavoidable coating variations may influence the determination.



Test Results and Sample Description The results of XRF screening and chemical test (Unit: mg/kg)

Part No.	Part Description	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitte
1 and	any -	Pb	Р		6000	
		Cd	Р		(IIII)	BJ
P1	P1 Black plastic back cover	Hg	Р		Comply	(B)
127	Diack plastic back cover	Cr(Cr ⁶⁺)	Р	3 6	Comply	
	111 1000	Br(PBBs&PBDEs)	Р		600	2
\mathbf{a}		DBP,BBP,DEHP,DIBP	2 0	N.D.		COB1
		Pb	Р			
	B RUDD	Cd	Р		a and a	
P2	Black plastic front cover	Hg	Р		Comply	
FZ	Diack plastic from cover	Cr(Cr ⁶⁺)	P		Comply	
		Br(PBBs&PBDEs)	Р		anne	S V
1	and a com	DBP,BBP,DEHP,DIBP		N.D.		100
		Pb	Р			
		Cd	P		100	
P3	Grey plastic key panel	Hg	Р	(19-19-1)	Comply	
13	Grey plastic key parter	Cr(Cr ⁶⁺)	Р		Comply	(TOD)
		Br(PBBs&PBDEs)	Р		(DB)	
070		DBP,BBP,DEHP,DIBP		N.D.	a Uu	
		Pb	Р	077		NUR
		Cd	Р		COBS	
P4	Black plastic button	Hg	Р		Comply	
F4	Diack plastic button	Cr(Cr ⁶⁺)	Р		Comply	
	(TOB)	Br(PBBs&PBDEs)	Р		and by	
		DBP,BBP,DEHP,DIBP		N.D.		
		Pb	Р	C. L.		-03
	600	Cd	P	S 6	000	
P5	Black plastic battery	Hg	Р		Comply	
гJ	cover	Cr(Cr ⁶⁺)	Р		Comply	
		Br(PBBs&PBDEs)	P			No.
- THE	3 6022	DBP,BBP,DEHP,DIBP		N.D.	000	
		Pb	Р			087
		Cd	P			
DC	Cilvery metal antenna	Hg	P		Committee	
P6	Silvery metal antenna	Cr(Cr ⁶⁺)	D	Negative	Comply	
		Br(PBBs&PBDEs)				608
		DBP,BBP,DEHP,DIBP	07-	P		
5		Pb	Р	CUTO S	- <u>-</u>	
	anBJ -	Cd	Р		DJ C	TUDD
	a la ser	Hg	Р			
P7	Blue battery	Cr(Cr ⁶⁺)	Р	100	Comply	
		Br(PBBs&PBDEs)	P			
		DBP,BBP,DEHP,DIBP		N.D.	COBS	
TUP		Pb	P			
		Cd	P	0027		
	MABL		P		0037	a nu
P8	Black metal screws	Hg			Comply	1
		Cr(Cr ⁶⁺) P		TIM		
		Br(PBBs&PBDEs)			100	NUL
		DBP,BBP,DEHP,DIBP				



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Part No.	Part Description	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
110-		Pb	Р	01		
		Cd	Р			
DO		Hg	Р			
P9	Silvery metal screws	Cr(Cr ⁶⁺)	D	Negative	Comply	
		Br(PBBs&PBDEs)				anB1
997		DBP,BBP,DEHP,DIBP	10		Non and	
	RU AND	Pb	Р	COURS 2	A GUD	
\mathbf{n}		Cd	Р		81	0000
20		Hg	Р		TER	
P10	Grey plastic screw cap	Cr(Cr ⁶⁺)	Р	1027	Comply	
		Br(PBBs&PBDEs)	Р			NDD
1		DBP,BBP,DEHP,DIBP		N.D.	(internet)	00
002		Pb	Р			
		Cd	P	0022		1
1900		Hg	P	3	an BL	A RUP
P11	Black glass display	Cr(Cr ⁶⁺)	P		Comply	1
		Br(PBBs&PBDEs)	P	MODE		TOBY
28					The	
		DBP,BBP,DEHP,DIBP Pb	 P	N.D.		
2 834				10	a b	mBY Y
5		Cd	P		Comply	100
P12	Clear plastic lens	Hg	Р	RD.		1
A Bar		Cr(Cr ⁶⁺)	P			Jus
		Br(PBBs&PBDEs)	Р			
Lang	GUUL .	DBP,BBP,DEHP,DIBP		N.D.	MUD	a
e e		Pb	P			2
		Cd	Р		199	an BL
P13	White plastic lens	Hg	P		Comply	
110		Cr(Cr ⁶⁺)	Р	00 to 1		
		Br(PBBs&PBDEs)	Р		3.5	TUDD
		DBP,BBP,DEHP,DIBP	Q117 D1-	N.D.	1100	
(U)		Pb	Р	002		AN V
		Cd	Р			UL
P14	White plastic sticker	Hg	Р	Y g	Comply	
1 14		Cr(Cr ⁶⁺)	Р		Comply	
		Br(PBBs&PBDEs)	Р	(44)))2		
18 B		DBP,BBP,DEHP,DIBP		N.D.	2002	CIUDE
		Pb	P		(all)	
		Cd	Р	The second secon	21 000	
DIE		Hg	Р	(1)		
P15	Black plastic leather 1	Cr(Cr ⁶⁺)	Р		Comply	
LIN I		Br(PBBs&PBDEs)	Р			INBL.
		DBP,BBP,DEHP,DIBP	(Q13))	N.D.		0
CUUD)		Pb	Р	NO2 ~		10
		Cd	P			1010
		Hg	Р	G 199		mB
P16	Red plastic leather	Cr(Cr ⁶⁺)	P		Comply	
6		Br(PBBs&PBDEs)	P	Cellon .		
		DBP,BBP,DEHP,DIBP		N.D.	BU C	0000
				N.D.		



Part No.	Part Description	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
TUP		Pb	P			
	TOD TO U	Cd	Р	402		
- AND	6000	Hg	Р	48	0000	
P17	Green plastic leather	Cr(Cr ⁶⁺)	Р		Comply	
	No and	Br(PBBs&PBDEs)	Р			anBl
		DBP,BBP,DEHP,DIBP		N.D.	Not so	
	NU AU	Pb	Р	COURS 2		
		Cd	Р		81	4000
20		Hg	Р		18.00	
P18	Yellow plastic skin	Cr(Cr ⁶⁺)	Р	1002	Comply	
	MOBILE I	Br(PBBs&PBDEs)	Р			NUCC
	anB)	DBP,BBP,DEHP,DIBP		N.D.	Con Bi	00
MAR.		Pb	Р			0.0
		Cd	Р	a august		
	1000	Hg	Р		1022	
P19	Black plastic leather 2	Cr(Cr ⁶⁺)	Р		Comply	1
		Br(PBBs&PBDEs)	Р	RUCE		(B)
		DBP,BBP,DEHP,DIBP		N.D.	July and	Les .
		Pb	Р	2012	A MUN	
		Cd	Р		33	1085
	White woolen	Hg P	Tan			
P20		Cr(Cr ⁶⁺)	Р	039	Comply	
		Br(PBBs&PBDEs)	Р	-nB		
	anBy	DBP,BBP,DEHP,DIBP		N.D.	Camp	
		Pb	Р			
		Cd	Р	(MIDD		1900
	1000	Hg	P	3	ORD	RUDE
P21	Silvery metal conductor	Cr(Cr ⁶⁺)	Р	THE R	Comply	1
		Br(PBBs&PBDEs)	Р		51 0	
		DBP,BBP,DEHP,DIBP	anb	N.D.		Les a
and		Pb	Р	0102		
		Cd	Р		5 6	087
		Hg	Р		FROM	
P22	IC1	Cr(Cr ⁶⁺)	Р		Comply	
	AND AU	Br(PBBs&PBDEs)	P	(and B)	E CAL	
	B	DBP,BBP,DEHP,DIBP		N.D.	Cano I	000
1		Pb	Р			
		Cd	Р	MUDD		100
	61031	Hg	Р	019	100	RUDE
P23	IC2	Cr(Cr ⁶⁺)	Р	THE P	Comply	
		Br(PBBs&PBDEs)	P		3	mBU '
	TODO A	DBP,BBP,DEHP,DIBP	COB)	N.D.	2	L'est
anti		Pb	P		000	
	mBI mn	Cd	P			
		Hg	P	a mus		CON B
P24	Audion 1	Cr(Cr ⁶⁺)	P		Comply	1
		Br(PBBs&PBDEs)	P	60033		2
		DBP,BBP,DEHP,DIBP		N.D.	IRY .	any s
13.3				IN.D.		

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Part No.	Part Description	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
110-		Pb	Р	0		187
		Cd	P			
DOF	Dia da industra a	Hg	P		Querta	
P25	Black inductance	Cr(Cr ⁶⁺)	Р		Comply	
		Br(PBBs&PBDEs)	Р			anB
1972		DBP,BBP,DEHP,DIBP		N.D.	No.	
601		Pb	Р	60182	- (TU)	
0 0		Cd	Р		81	900
2		Hg P	18.00			
P26	Audion 2	Cr(Cr ⁶⁺)	Р	2027	Comply	
		Br(PBBs&PBDEs)	Р			NUC
FOR		DBP,BBP,DEHP,DIBP		N.D.	anni	00
The second		Pb	Р			21
		Cd	Р	000		1
199		Hg	P	S3	any -	a MUL
P27	Yellow patch capacitor	Cr(Cr ⁶⁺)	P		Comply	TUBT
20		Br(PBBs&PBDEs)	P	RUDE		
39		DBP,BBP,DEHP,DIBP	(AB)	N.D.	000	
-		Pb	P	N.D.	Same -	
		Cd	P			anBU)
		Hg	P		Comply	10
P28	Silvery metal case	Cr(Cr ⁶⁺)		UBP.		
C.C.			P			197
		Br(PBBs&PBDEs)			E.C.	1000
1012		DBP,BBP,DEHP,DIBP				
6		Pb	P	COLUMN S		
		Cd	P		NBU -	0005
P29	Green metal coating	Hg		P Comply	Comply	
110			P	0000		100
		Br(PBBs&PBDEs)	Р		30	BULL
		DBP,BBP,DEHP,DIBP		N.D.		
(TUP		Pb	Р			ARL C
		Cd	Р	TTOP		2
P30	Green wood	Hg	Р	81	Comply	1
UUL I		Cr(Cr ⁶⁺)	Р		100	39
		Br(PBBs&PBDEs)	D	N.D.		anB)
BU		DBP,BBP,DEHP,DIBP		N.D.	AUDI	
		Pb	P		100	2
		Cd	Р	1	RY	and
P31	Gold metal solder	Hg	Р		Comply	
(0,0)		Cr(Cr ⁶⁺)	Р	2013		
		Br(PBBs&PBDEs)			3	1000
		DBP,BBP,DEHP,DIBP	HP,DIBP		(ml)	
annor		Pb	Р	100		
		Cd	Р	1031		
P32	Blue metal coating	Hg	Р	3	Comply	900
1 52		Cr(Cr ⁶⁺)	Р		Comply	
-		Br(PBBs&PBDEs)	Р	LT 22		1 and
281 6		DBP,BBP,DEHP,DIBP		N.D.		NUU



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Rm.307-309, 311, Bldg.2, Huahan Sci-tech Industrial Park, No.19 Lanjin 4th Road, Heping Community, Pingshan St., Pingshan District, Shenzhen Tel: (86) 0755-28681350 Http: //www.toby.org.cn

Part No.	Part Description	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
NUC -		Pb	Р		6	TRU T
		Cd	P			
Daa	Diversid	Hg	P		Comply	1
P33	Blue wood	Cr(Cr ⁶⁺)	Р			
		Br(PBBs&PBDEs)	D	N.D.		
000		DBP,BBP,DEHP,DIBP		N.D.		
		Pb	Р	60-32		
		Cd	Р		84	MODE
DOA	Cilvery metal colder	Hg	Р		Comply	
P34 Silv	Silvery metal solder	Cr(Cr ⁶⁺)	Р	1002	Comply	
		Br(PBBs&PBDEs)				
		DBP,BBP,DEHP,DIBP			CON131	

Remark:

1. a= Lead in copper alloy containing up to 4% lead by weight. The item is exempted from the requirements of the item 6(c) in ANNEX III, (Directive 2011/65/EU).

2、b=Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead, The item is exempted from the requirements of the item 7(a) in ANNEX III, (Directive 2011/65/EU)

3、c=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.

The item is exempted from the requirements of the item 7(c)-I in ANNEX III, (Directive 2011/65/EU).



Sample Photo





Verify only the photos on the original report. ***** END OF REPORT *****

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