



Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 1 of 16

Applicant: Full Strike Ltd.

Address: Room 16C Wenwei Building, No. 322 Fuhua Road Futian Dist., Shenzhen, 518026 PRC.

Sample Information:

Sample Name: Digital to Stereo Audio Converter Sample Model: MD121CV CW0501000EU

Sample Received Date: Dec. 6, 2021

Testing Period: Dec. 6, 2021 - Dec. 11, 2021

Test Result: Please refer to the following page(s).

Test Requested:	Conclusion
As specified by client, to verify the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent	
Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers	D. GG
(PBDEs), Dibutyl phthalate(DBP), Butylbenzyl phthalate(BBP), Di-(2-ethylhexyl) Phthalate	PASS
(DEHP), Di-iso-butyl phthalate (DIBP) content in the sample with reference to	
EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863.	.0`

Signed for and on behalf of HCT

Michael Huang

技术有限公司 报告专用章



Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 2 of 16

Test Result(s):

No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
1	.0	Pb	BL			0
	Silver metal card (optical fiber cable)	Cd	BL	A	~	
1		Hg	BL	W	2021-12-6	•
		Cr(VI)	IN	N.D.	2	,
		PBBs		;(3	,
	110	PBDEs	_<	🔨	Y	
		Pb	BL		_ <	V
	.6`	Cd	BL	2) 		
2	Black plastic plug (optical fiber	Hg	BL		2021-12-6	•
	cable)	Cr(VI)	BL			
	201	PBBs	BL	/	±18	710
	A.	PBDEs	BL	_ ¿Ó`	3	
	110	Pb	BL	V		
	,	Cd	BL		_	
3	Black soft plastic outer wire	Hg	BL		2021-12-6	•
	jacket (optical fiber cable)	Cr(VI)	BL			
		PBBs	BL		_	<
	30	PBDEs	BL	. 2	17/	
		Pb	BL	,G `		
	~	Cd	BL		1	
4	Transparent plastic wire	Hg	BL		2021-12-6	- 3
	(optical fiber cable)	Cr(VI)	BL	3/2	1	
	4,	PBBs	BL			
	X	PBDEs	BL		4	
	30	Pb	BL		1/10	
5	Black metal screws	Cd	BL		2021-12-6	•
ri.		Hg	BL		Signal Test	ng Technol
		Cr(VI)	IN	N.D.	2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	紅彩校園 T製公司



Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 3 of 16

No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		PBBs	9			
		PBDEs	==			U
	7	Pb	BL	- 67-		
	, C	Cd	BL	kl		
6	Grey printed black metal shell	Hg	BL		2021-12-6	• 🖓
	c C	Cr(VI)	BL	3	(3)	
	1970	PBBs		X		
		PBDEs	W		_	
	.0`	Pb	BL		70	
	140	Cd	BL		2021-12-6	
7	Black plastic frame (PCB, JP4)	Hg	BL			HO
	6	Cr(VI)	BL	/		
		PBBs	IN	N.D.		
	HIC	PBDEs	IN	N.D.		
	2	Pb	BL	S:		
	.0	Cd	BL		20	
8	Silver metal rod (PCB, JP4)	Hg	BL	·	2021-12-6	•
	1	Cr(VI)	BL		-	<
	. 30	PBBs		A	177	
	1	PBDEs		,O '		
V		Pb	BL			(
	2	Cd	BL		4	1/2
9	Silver gray metal spring (PCB,	Hg	BL	3/2	2021-12-6	•
	JP4)	Cr(VI)	BL		1	
		PBBs	·		65	
	30	PBDEs	/		1/10	
4	7	Pb	BL			
10	Transparent LED light (PCB,	Cd	BL		2021-12-6 Tes	ing Technol
	JP4)	Hg	BL		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	紅彩松樹 有限公司



Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 4 of 16

No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		Cr(VI)	BL			
	. (PBBs	BL		3	0
	X Y	PBDEs	BL	- 6 <u>A</u> -		
- 3	(0	Pb	BL	A		
		Cd	BL		Z	Ų
11	Silver metal plunger (PCB,	Hg	BL	(2021-12-6	•
	JP4)	Cr(VI)	IN	N.D.		
	2	PBBs	'Yo			
	.0`	PBDEs			20.	
1		Pb	BL			
		Cd	BL		1	4
12	Yellow plastic frame (PCB,	Hg	BL	/	2021-12-6	410
	JP1)	Cr(VI)	BL	٠.		
	H	PBBs	BL		1	
	2	PBDEs	BL		_<	
	.0`	Pb	IN	112	20	2
	*	Cd	BL			
13	Golden metal shell (PCB,JP1)	Hg	BL	3) 	2021-12-6	· •
	. 30	Cr(VI)	BL	A	177	
		PBBs		,G		
		PBDEs			3	
	X	Pb	IN	150	1	
	10,	Cd	BL	\/\	1	
14	Silver metal insert (PCB, JP1)	Hg	BL		2021-12-6	•
	_<	Cr(VI)	BL		6	
	70.	PBBs	4		140	
	,	PBDEs	50			1
1.5	Transparent LED light (PCB,	Pb	BL		2021 Sept Tes	mg Technolo
15	LED2)	Cd	BL		2021-12-6	紅彩松樹 有限公司



Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 5 of 16

No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		Hg	BL		4	
	.0	Cr(VI)	BL		3	0
	-X	PBBs	IN	N.D.		
	Q.	PBDEs	IN	N.D.		
		Pb	BL		× .	
	c C	Cd	BL	(3	
16	Silver metal pins (PCB, LED2)	Hg	BL	X	2021-12-6	•
	2	Cr(VI)	BL		_<	
	.0`	PBBs			20.	
	A.	PBDEs	ć			
7		Pb	BL			
		Cd	BL	2	1	410
17	Black plastic frame (PCB, J3)	Hg	BL	٠.	2021-12-6	•
	HILL	Cr(VI)	BL			
		PBBs	IN	N.D.		
	.0	PBDEs	IN	N.D.	20	
	X.	Pb	BL			7
	1	Cd	BL	:0 :0 :0	1 -	5
18	Silver metal rod (PCB, J3)	Hg	BL	A	2021-12-6	•
	7	Cr(VI)	IN	N.D.	1	
		PBBs			1	
	2	PBDEs				X
	(0)	Pb	BL	1/2	/	
	4	Cd	BL		1	
19	Silver metal lead (PCB, J3)	Hg	BL		2021-12-6	•
	30	Cr(VI)	BL		110	
	4	PBBs	30			
		PBDEs			Official Test	ing Technol
20	Black plastic frame (PCB, J1)	Pb	BL		2021-12-62末	紅彩松桝 石脚公司●



Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 6 of 16

No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		Cd	BL			_
	.0	Hg	BL		3	U
	7	Cr(VI)	BL	6		
	O	PBBs	IN	N.D.		
		PBDEs	IN	N.D.	4	
	A.	Pb	BL	3	3	
	140	Cd	BL	X]	
21	Silver metal sheet (PCB, J1)	Hg	BL		2021-12-6	•
	· (c)	Cr(VI)	BL		7C.	
	Ay.	PBBs	6			
		PBDEs			1	-
	2	Pb	BL	2		44
	e ^A	Cd	BL	٠.0	1	
22	Golden metal shell (PCB, J2)	Hg	BL	<u></u>	2021-12-6	•
	,	Cr(VI)	BL			
	.0	PBBs	2		30	
	A.	PBDEs	.e^\	·		
		Pb	BL			
	. 30	Cd	BL	A	177	
23	White plastic frame (PCB, J2)	Hg	BL	,O	2021-12-6	•
		Cr(VI)	BL		1	
	2	PBBs	BL		1	1/2
	(6)	PBDEs	BL	3/2		
	100	Pb	BL			
	Α.	Cd	BL		-3	
24	Silver metal sheet (PCB, J2)	Hg	BL		2021-12-6	•
		Cr(VI)	BL			
		PBBs			wagcai Ten	ing Technol
		PBDEs			(紅彩松樹 有親公司



Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 7 of 16

No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		Pb	BL		4	X
	.0	Cd	BL		3	0
25	White plastic ring (PCB, J2)	Hg	BL	- A-	2021-12-6	•
	O	Cr(VI)	BL	4/		
		PBBs	BL		4	
		PBDEs	BL	(3	
	140	Pb	BL	X		
	2	Cd	BL			
26	Red plastic ring (PCB, J2)	Hg	BL		2021-12-6	•
	Ay.	Cr(VI)	BL		100	
		PBBs	BL		1	- 45
	201	PBDEs	BL	/		40
	c^	Pb	BL	٠.0	5	
	H	Cd	BL		2	
27	Silver crystal oscillator (PCB)	Hg	BL		2021-12-6	•
	.0	Cr(VI)	BL			
	A	PBBs	BL			
	J.	PBDEs	BL	3) 	-	<
	. 30	Pb	IN	338	177	
		Cd	BL	(O)		
28	Black printed white chip	Hg	BL		2021-12-6	• ,
	resistor (PCB)	Cr(VI)	BL	1	1	
	10	PBBs	BL	//		
	10	PBDEs	BL			
		Pb	BL		6	
	70	Cd	BL		11/2	
29	Brown chip capacitors (PCB)	Hg	BL		2021-12-6	
² .		Cr(VI)	BL		Actignal Test	ing Technole
		PBBs	BL		10 18 25 T	紅彩松樹 育製公司



Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 8 of 16

No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
	i .	PBDEs	BL			X
		Pb	BL		3	0
	7	Cd	BL	<u> </u>		
30	Brown printed black printed long IC (PCB)	Hg	BL	×	2021-12-6	•
		long IC (PCB) Cr(VI) BL	4			
		PBBs	BL	(3	
		PBDEs	BL	X		
	2	Pb	BL			
	Black diode (PCB)	Cd	BL		NO.	
31		Hg	BL	<u></u>	2021-12-6	•
		Cr(VI)	BL			-45
	6	PBBs	BL	1		40
		PBDEs	BL	£0,		
	H	Pb	BL	<u></u>		
	2	Cd	BL		_<	
32	Brown printed black eight-pins	n printed black eight-pins Hg BL 202	2021-12-6	•		
	body (PCB)	Cr(VI)	BL			<u></u>
	A A	PBBs	BL	3) 	-	<u> </u>
		PBDEs	BL	λ	177	
- 11	3	Pb	IN	41		
		Cd	BL	<u></u>	66	
33	Silver metal solder (PCB)	Hg	BL	1	2021-12-6	- "
	10,	Cr(VI)	BL	//		
	4.	PBBs	.G`			
		PBDEs	·		6	
5	Cream copper clad laminate	Pb	BL		K	
34		Cd	BL		2021-12-6	
rn'	with green coating (PCB)	Hg	BL		Actifical Test	- Ole
	2. 1	Cr(VI)	BL		探明市 技术	紅彩松樹 有限公司



Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 9 of 16

No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		PBBs	IN	N.D.		Α
		PBDEs	IN	N.D.		0

No.	Sample Description	Test Item(s)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
	· G	DBP	N.D.	Q.	
2	Black plastic plug (optical	ВВР	N.D.	2021-12-6	•
	fiber cable)	DEHP	N.D.		
	,0	DIBP	N.D.	770	e.
1	16.	DBP	N.D.		-
3	Black soft plastic outer wire	ВВР	N.D.	2021-12-6	6
	jacket (optical fiber cable)	DEHP	N.D.		
	.6	DIBP	N.D.		
	A.	DBP	N.D.		
4	Transparent plastic wire	BBP	N.D.	2021-12-6	•
·	(optical fiber cable)	DEHP	N.D.		
	X	DIBP	N.D.		
		DBP	N.D.		
7	Black plastic frame (PCB,	BBP	N.D.	2021-12-6	
	JP4)	DEHP	N.D.		
		DIBP	N.D.		
:	Α.	DBP	N.D.		1
10	Transparent LED light (PCB,	BBP	N.D.	2021-12-6	•
10	JP4)	DEHP	N.D.		
		DIBP	N.D.	.6	
2	110	DBP	N.D.	X,	
12	Yellow plastic frame (PCB,	ВВР	N.D.	2021-12-6	
	JP1)	DEHP	N.D.	Agrigan Ten	ng Technolo
	× ×	DIBP	N.D.	質 採明市 技术者	在影校園)



Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 10 of 16

No.	Sample Description	Test Item(s)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
	20,	DBP	N.D.	70	ė.
15	Transparent LED light (PCB,	BBP	N.D.	2021-12-6	
	LED2)	DEHP	N.D.		
	2	DIBP	N.D.	~).
	6	DBP	N.D.		
17	Black plastic frame (PCB, J3)	BBP	N.D.	2021-12-6	• 3
	r (- ,,,	DEHP	N.D.	_<	1
	30,	DIBP	N.D.	2	6:
		DBP	N.D.		
20	Black plastic frame (PCB, J1)	BBP	N.D.	2021-12-6	•
	r ,	DEHP	N.D.		
		DIBP	N.D.		- 2
0		DBP	N.D.		20°
23	White plastic frame (PCB, J2)	BBP	N.D.	2021-12-6	10
		DEHP	N.D.		
	7.	DIBP	N.D.	31	
		DBP	N.D.	.6	
25	White plastic ring (PCB, J2)	BBP	N.D.	2021-12-6	•
		DEHP	N.D.		<
	.0	DIBP	N.D.	24.)
	(Y	DBP	N.D.		
26	Red plastic ring (PCB, J2)	BBP	N.D.	2021-12-6	• /
		DEHP	N.D.		1/2
		DIBP	N.D.	3	
	410	DBP	N.D.		8
27	Silver crystal oscillator (PCB)	BBP	N.D.	2021-12-6	•
	.6	DEHP	N.D.		
A	1	DIBP	N.D.		
28	Black printed white chip	DBP	N.D.	2021-12-6	ing Tech
20	resistor (PCB)	BBP	N.D.	202 F 81 di	紅彩松州 (1)



Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 11 of 16

No.	Sample Description	Test Item(s)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
	20,	DEHP	N.D.	70	
	10	DIBP	N.D.		
	7.2	DBP	N.D.		-^-
29	Brown chip capacitors (PCB)	BBP	N.D.	2021-12-6	•
		DEHP	N.D.		
		DIBP	N.D.		
	×	DBP	N.D.		
30	Brown Printed Black Printed	BBP	N.D.	2021-12-6	•
	Long IC (PCB)	DEHP	N.D.		
		DIBP	N.D.	6	
-5.	200	DBP	N.D.	14	
31	Black diode (PCB)	BBP	N.D.	2021-12-6	Č,
		DEHP	N.D.		
	4	DIBP	N.D.		
	30	DBP	N.D.		
32	Brown printed black	BBP	N.D.	2021-12-6	•
	eight-pins body (PCB)	DEHP	N.D.		
	110	DIBP	N.D.	170	
		DBP	N.D.		<
34	Cream copper clad laminate	BBP	N.D.	2021-12-6	
٥.	with green coating (PCB)	DEHP	N.D.		
		DIBP	N.D.		

Note:

●=Actual tested sample





Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 12 of 16

Remark:

- (1)ED-XRF test
- (a) For the restricted substances PBBs/PBDEs, the ED-XRF results show the total Br content; for the restricted substance Cr(VI), the ED-XRF results show the total Cr content.
- (b) Results were obtained by ED-XRF for primary screening, and further chemical testing are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Unit:mg/kg

Elements	Polymers	Metals	Composite material
Pb	$BL \le 100 < X < 1200 \le OL$	$BL \le 100 < X < 1200 \le OL$	$BL \le 80 < X < 1300 \le OL$
Cd	$BL \le 30 < X < 120 \le OL$	$BL \le 30 < X < 120 \le OL$	$BL \le 30 < X < 120 \le OL$
Hg	$BL \le 100 < X < 1200 \le OL$	$BL \le 100 < X < 1200 \le OL$	$BL \le 80 < X < 1300 \le OL$
Cr	BL ≤ 200< X	BL ≤ 200 < X	$BL \le 150 < X$
Br	BL \le 200 < X	- 30	$BL \le 200 < X$

- (c) BL=Below Limit by ED-XRF analysis, OL=Over Limit by ED-XRF analysis,
- IN=Inconclusive, --- = Not regulated, X=need further chemical analysis
- (d) For composite material, the ED-XRF results may be different to the actual content in the sample.

(2)Chemical test and regulatory limits

Test Item	S	Test Method	Test Equipment	Report Limit	Limit(by weight in homogeneous materials)
Pb		IEC 62321-5:2013	ICP-OES/AAS	2mg/kg	1000mg/kg
Cd		IEC 62321-5:2013	ICP-OES/AAS	2mg/kg	100mg/kg
Hg	24	IEC 62321-4:2013+AMD1:2017	ICP-OES	2mg/kg	1000mg/kg
Cr(VI)	Metal	IEC 62321-7-1:2015	UV-VIS	0.10μg/cm ²	1000mg/kg
	Others	IEC 62321-7-2:2017	UV-VIS	8mg/kg	1000mg/kg
PBBs	4	IEC 62321-6:2015	GC-MS	5mg/kg(Each)	1000mg/kg(Sum)
PBDEs	,	IEC 62321-6:2015	GC-MS	5mg/kg(Each)	1000mg/kg(Sum)
DBP		IEC 62321-8:2017	GC-MS	100mg/kg	1000mg/kg
BBP		IEC 62321-8:2017	GC-MS	100mg/kg	1000mg/kg
DEHP	10	IEC 62321-8:2017	GC-MS	100mg/kg	1000mg/kg
DIBP	1.	IEC 62321-8:2017	GC-MS	100mg/kg	1000mg/kg





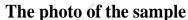
Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 13 of 16

- (a) Unit of Chemical test result: Cr(VI) of metal:µg/cm²,Other:mg/kg; MDL=Method Detection Limit µg/cm² (microgram per square centimeter)
 - 1mg/kg=1ppm=0.0001%, mg/kg (milligram per kilogram) = ppm (parts per million)
 - N.D.=not detected (less than report limit),---=Not Conducted
- (b) For corrosion-protected coatings on metals
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13\mu g/cm^2$. The sample coating is considered to contain Cr(VI);
 - b. The sample is negative for Cr(VI) if Cr(VI) is N.D. (concentration less than $0.10\mu g/cm^2$). The coating is considered a non-Cr(VI) based coating;
 - c. The result between $0.10\mu g/cm^2$ and $0.13\mu g/cm^2$ 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.
- (3) Screening and chemical tests were performed for the samples indicated by the photo in this report.



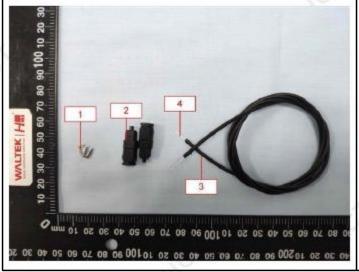


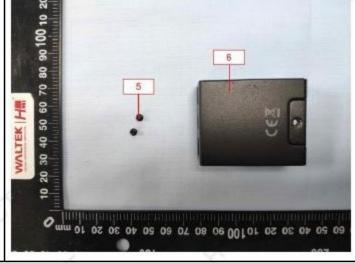
Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 14 of 16





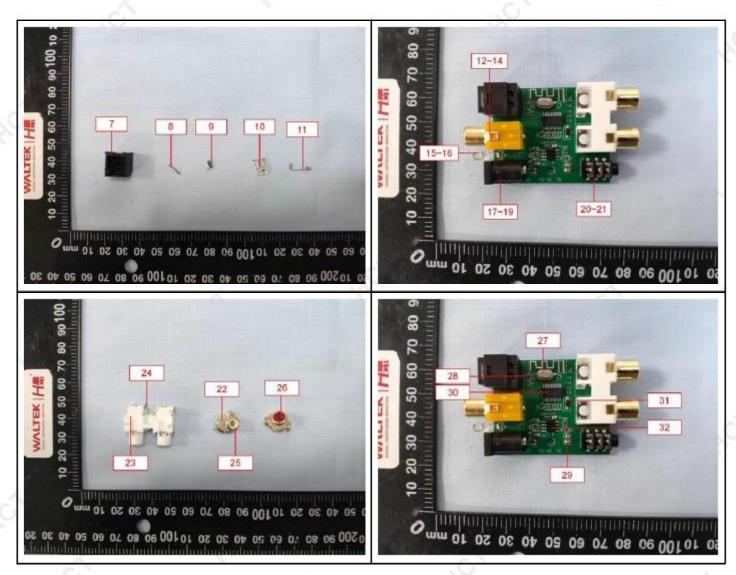
The photo of Disassembly









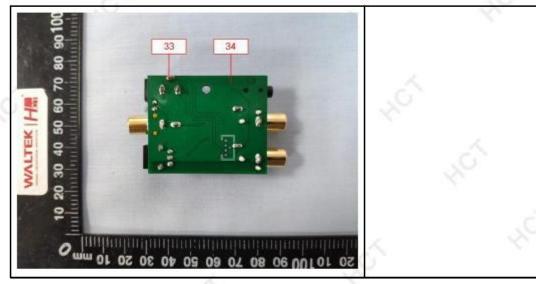


Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 15 of 16





Report No.: WTH21H12134834C-1 Date:Dec. 11, 2021 Page 16 of 16



/

Statement:

- 1. This report is considered invalid without approved signature and special seal;
- 2. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which HCT hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of HCT, this report can't be reproduced except in full.

***End ***

