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Applicant: Guangzhou Xingyi Electronic Technology Co., Ltd

Contact information: Room 805-808, Room 801, Building 4, No. 1, 3, and 5, Kesheng Road, Guangzhou

Private Science and Technology Park, No. 1633 Beitai Road, Baiyun District,

Guangzhou City

The following sample(s) was (were) submitted and identified by client as:

Sample Name : STM32MP257 Core Board

Model No. : ATK-CLMP257B

Trade mark : ALIENTEK

Manufacturer : Guangzhou Xingyi Electronic Technology Co., Ltd

Address : Room 805-808, Room 801, Building 4, No. 1, 3, and 5, Kesheng Road,

Guangzhou Private Science and Technology Park, No. 1633 Beitai Road,

Baiyun District, Guangzhou City

Factory : Dongguan Zhichen Electronic Technology Co., Ltd

Address : 301, Building 1, No. 16 Xingui Road, Lincun, Tangxia Town, Dongguan City,

Guangdong Province

Received Date : Apr. 3, 2025

Testing Period : From Apr. 3, 2025 to Apr. 9, 2025

Test Request : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Shen Zhen UONE Test Co., LTD.

Prepared by

Checked by

Approved by

Marcia Deng

Thea Ye

Mark Wu



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Summary of Test Results :			90, 90,
TEST REQUEST			CONCLUSION
	nium(Cd), Mercury(Hg), Hexavalent Bs) and Polybrominated DiphenylE	Chromium(Cr(VI)),	PASS
(2) To determine Phthalates (DBP	, BBP, DEHP, DIBP) content by che	mical test	PASS



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Test Material List

Material No.	Description (Location)	Photo(s) of tested materials
10, 1 110,	Black body (diode)	10, 10, 10, 10,
2	Brown body (capacitor)	4. 4. 4. 4
10,3 10,	Black body (IC)	12345678910 11
4	White body (LED)	
0H/5 0H/	Black body (resistor)	? O V 8 - 9
6	Black body (diode)	
1 7	Silvery metal (solder)	
10 8 10	Silvery body (crystal)	bc
9	Black body (IC)	
10 10	Black body (IC)	10 pr 10 pr 10 pr
11	Black body (IC)	6 6 6 6
12	Black body (inductor)	Comment of the Commen
13	Golden metal (pin)	12 13 14 15 16
14	Black plastic (holder)	
15	Black body (triode)	CAMPANY VIZ. ENGINE
16	Black PCB	



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Test Result(s):

(1) Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs)

Test Method: IEC62321-3-1: 2013, IEC62321-4: 2013+A1:2017, IEC62321-5: 2013, IEC62321-6: 2015, IEC 62321-7-1:2015, IEC 62321-7-2: 2017, analyzed by EDXRF & ICP-OES & GC-MS & UV-Vis.

11012	10,	EDX	RF Resu	ılt ⁽¹⁾		Chemical Result (2)	0 - 10	1012 1012
No.	Pb	Cd	Hg	Cr	Br	(mg/kg)	Remark ⁽³⁾	Conclusion
1	BL	BL	BL	BL	BL	10 HD - 10 HD	10HD . TOH	PASS
2	BL	BL	BL	BL	BL	2 _0	3	PASS
3	BL	BL	BL	BL	BL	Mr - Mr	11/2 - 11/2	PASS
4	BL	BL	BL	BL	BL	120 -120 ,	20 70	PASS
5	BL	BL	BL	BL	BL	<u> </u>	Jr - Jr	PASS
6	BL	BL	BL	BL	BL	10, -10,	20, 20,	PASS
7	BL	BL	BL	BL	NA	4 4.	.cc.	PASS
8	BL	BL	BL	BL	BL	10th -10th 1	10 14 14 14 16 16 16 16 16 16 16 16 16 16 16 16 16	PASS
9	BL	BL	BL	BL	BL			PASS
10	BL	BL	BL	BL	BL	10 Hz - 0 Hz	0 1/2 - 0 1/2	PASS
11	BL	BL	BL	BL	BL	00.	2. 7.	PASS
12	BL	BL	BL	BL	BL		NE -NE	PASS
13	BL	BL	BL	BL	NA	110, 710,	20. 70.	PASS
14	BL	BL	BL	BL	BL	<u> </u>	& - &	PASS
15	BL	BL	BL	BL	BL	11012 -1012 1	701, 401,	PASS
16	BL	BL	BL	BL	Х	PBBs: N.D. PBDEs: N.D.	& - &	PASS

Remark:

- (1) ①Results are obtained by EDXRF for primary screening, and further wet 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 an inconclusive result was found (as "X" in below table) (unit: mg/kg).
 - ②OL = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable.
 - 3The EDXRF screening test for RoHS elements The reading may be different to the actual content in the

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sample be of non-uniformity composition.

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
Pb	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	NA	BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

Units and limits in EU RoHS Directive 2011/65/EU:

Element	Pb	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit	1000	100	1000	1000	1000	1000

(2) ① mg/kg = ppm = 0.0001%, N.D. = Not Detected (Less than MDL).

②Unit and MDL (Method detection limit) in wet chemical test.

Element	Pb	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	2	2	2	8	5	5

③According to IEC 62321-7-1:2015, result on Cr(VI) for metal sample is shown as Positive/Negative.

Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.

Storage condition and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

- According to IEC 62321-3-1:2013, this column represents the results of wet chem test.
- (3) This column represents the exempted decoration of material or other related testing sample's information.



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(2) Phthalates (DBP, BBP, DEHP, DIBP) content

Test Method: IEC 62321-8: 2017, analyzed by gas chromatographic- mass spectrometer (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	10, 10,
Limit (mg/kg)	1000	1000	1000	1000	Conclusion
MDL (mg/kg)	20	20	20	20	110 LA. 110 LA
Material No.	1. 1.	1.			
10HE 1 10HE	N.D.	N.D.	N.D.	N.D.	PASS
2	N.D.	N.D.	N.D.	N.D.	PASS
3	N.D.	N.D.	N.D.	N.D.	PASS
4 110	N.D.	N.D.	N.D.	N.D.	PASS
5 5	N.D.	N.D.	N.D.	N.D.	PASS
10, 610,	N.D.	N.D.	N.D.	N.D.	PASS
8	N.D.	N.D.	N.D.	N.D.	PASS
9	N.D.	N.D.	N.D.	N.D.	PASS
10	N.D.	N.D.	N.D.	N.D.	PASS
11 NF	N.D.	N.D.	N.D.	N.D.	PASS
12	N.D.	N.D.	N.D.	N.D.	PASS
14	N.D.	N.D.	N.D.	N.D.	PASS
15	N.D.	N.D.	N.D.	N.D.	PASS
16	N.D.	N.D.	N.D.	N.D.	PASS

Note:

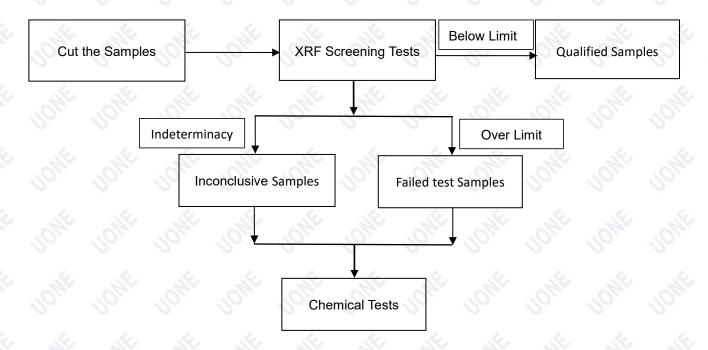
- mg/kg = milligram per kilogram (ppm). 1.
- MDL= method detection limit.
- N.D.=not detected(less than MDL).



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Test Process Flow

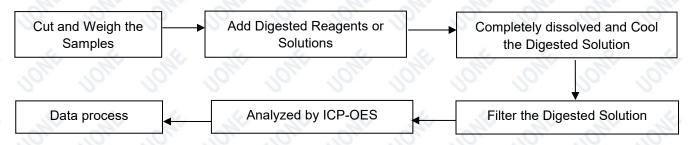
1. XRF scan



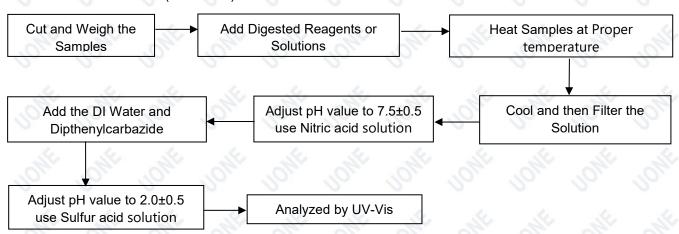


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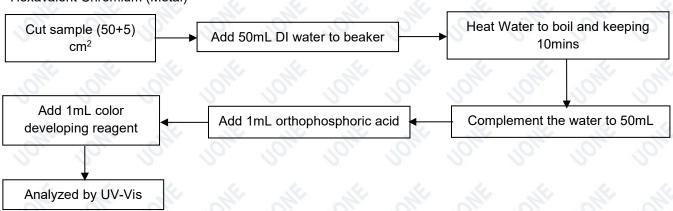
2. Lead, Cadmium, Mercury



3. Hexavalent Chromium (Non-metal)



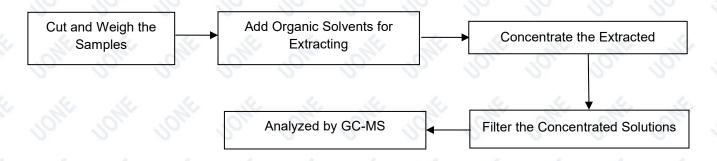
Hexavalent Chromium (Metal)



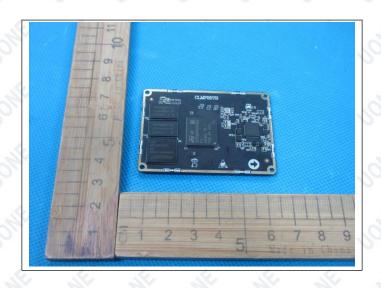


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4. PBBs & PBDEs, Phthalates



Photo(s) of Sample:



End of Report



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Statement

- 1. The information listed on the first page of this test report, except the date of receipt, test date, test result and test conclusion, is provided by the client. The client shall be responsible for the representativeness of sample and authenticity of materials, for which UONE shall bear no responsibilities.
- 2. The test conclusion of this report are only applicable to the test samples submitted for inspection, and the samples submitted for inspection are only kept for 30 days, and the company does not bear other joint and several liabilities other than the test results.
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- Objection should be issued in 15 days upon receiving the report, overdue opinion is inadmissible.
- 6. If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.