GUANGDONG WONDER TESTING INTERNATIONAL CO., LTD.

TEST REPORT

Report No.:	WDX24030669EN
Applicant:	Memory Range Technology co., Ltd.
Address:	Room 702, 7/F, SPA Centre, NO. 53-55 Lockhart Road, Wan Chai, Hong Kong.
Date:	Apr. 08, 2024

Traceability

TEST REPORT

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Applicant: Memory Range Technology co., Ltd.

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

Sample Name: USB 2.0 A to Micro B PVC Cable

Number of Sample: 1pc

Style of Sample: BYT15

Sample Received Date: Mar. 28, 2024

Completed Date: Apr. 05, 2024

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

Test Requested and Conclusion(s):

No.	Test Sample	Standard(s) and Requirement(s)	Conclusion(s)	Signed by
1	Tested materials of submitted samples	RoHS 2.0 Directive 2011/65/EU and its Commission delegated Directive (EU) 2015/863	PASS	Andy zhu

Test Result(s):

RoHS - Lead (Pb)/Cadmium(Cd)/Mercury(Hg)/Hexavalent Chromium(Cr^{6+})/PBBs/PBDEs

Method: With reference to IEC 62321-3-1: 2013/ IEC 62321-4: 2013+AMD1:2017/ IEC 62321-5: 2013/ IEC 62321-6: 2015 Appendix A/ IEC 62321-7-1: 2015/ IEC 62321-7-2:2017, analyzed by EDXRF & ICP-OES & GC-MS & UV-Vis.

Material No.	Test Substance(s)	EDXRF Result(s)*	Chemical Result(s)# (mg/kg)	Conclusion(s)
1C	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr^{6+}	IN	ND	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
2	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr^{6+}	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
3C	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr^{6+}	BL	--	PASS
	PBBs	--	--	NA
	PBDEs		--	NA
4	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr^{6+}	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
5C	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr^{6+}	IN	Negative	PASS
	PBBs	--	--	NA
	PBDEs		--	NA

Test Result(s):

RoHS - Lead (Pb)/Cadmium(Cd)/Mercury(Hg)/Hexavalent Chromium(Cr^{6+})/PBBs/PBDEs

Method: With reference to IEC 62321-3-1: 2013/ IEC 62321-4: 2013+AMD1:2017/ IEC 62321-5: 2013/ IEC 62321-6: 2015 Appendix A/ IEC 62321-7-1: 2015/ IEC 62321-7-2:2017, analyzed by EDXRF & ICP-OES & GC-MS & UV-Vis.

Material No.	Test Substance(s)	EDXRF Result(s)*	Chemical Result(s)#（mg/kg）	Conclusion(s)
6C	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr^{6+}	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
7C	Pb	BL	--	PASS
	Cd	IN	ND	PASS
	Hg	BL	--	PASS
	Cr^{6+}	BL	--	PASS
	PBBs	--	--	NA
	PBDEs		--	NA
8C	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr^{6+}	BL	--	PASS
	PBBs	--	--	NA
	PBDEs		--	NA
9C	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr^{6+}	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
10C	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr^{6+}	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS

Test Result(s):

RoHS - Lead (Pb)/Cadmium(Cd)/Mercury(Hg)/Hexavalent Chromium(Cr^{6+})/PBBs/PBDEs

Method: With reference to IEC 62321-3-1: 2013/ IEC 62321-4: 2013+AMD1:2017/ IEC 62321-5: 2013/ IEC 62321-6: 2015 Appendix A/ IEC 62321-7-1: 2015/ IEC 62321-7-2:2017, analyzed by EDXRF & ICP-OES & GC-MS & UV-Vis.

Material No.	Test Substance(s)	EDXRF Result(s)*	Chemical Result(s)#（mg/kg）	Conclusion(s)
11C	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr^{6+}	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
12C	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr^{6+}	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
13C	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr^{6+}	BL	--	PASS
	PBBs	--	--	NA
	PBDEs		--	NA

Note:

1. RL(Report Limit): 10mg/kg for Pb/ Cd/ Hg/ Cr^{6+}(Nonmetal material); 100mg/kg for PBBs & PBDEs.
2. LOQ(limit of quantification)(Cr^{6+})=0.10μg/cm^2.
3. "▼"=a. when Cr(VI) in a sample is detected above 0.13 μg/cm^2, the sample is considered to be **Positive** for Cr(VI).
   b. when Cr(VI) in a sample is detected below 0.10 μg/cm^2, the sample is considered to be **Negative** for Cr(VI).
   c. when Cr(VI) in a sample is detected between 0.10 μg/cm^2 and 0.13 μg/cm^2 , the result was **Inconclusive**.
4. "*" = It is the result on total Cr and Br while test substances are Cr^{6+} and PBBs & PBDEs.
5. "#" = Result are obtained by EDXRF for primary screening, if the result exceeds the below limit (BL), and further chemical testing.
6. "C" = The data of this report is refer to WDX24030668EN.

Screening limits in mg/kg for regulated elements in various matrices

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

BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection

ROHS Limit

Test Item(s)	Pb	Cd	Hg	Cr^{6+}	PBBs	PBDEs
Limit（mg/kg）	1000	100	1000	1000	1000	1000

Test Result(s):

Phthalates

Method: With reference to IEC 62321-8: 2017, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

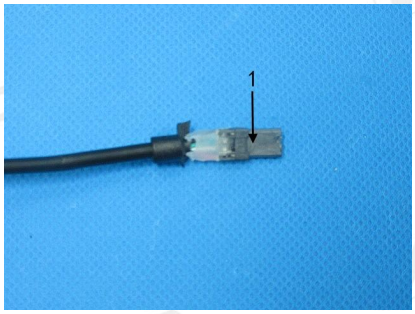
Test Substance(s)	DBP	BBP	DEHP	DIBP	Conclusion(s)
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
RL（mg/kg）	30	30	30	30	
Limit(s)（mg/kg）	1000	1000	1000	1000	
Material No.	**Result(s)（mg/kg）**				
$1^{C}+11^{C}+12^{C}$	ND	ND	ND	ND	PASS
2+4	ND	ND	ND	ND	PASS
$6^{C}+9^{C}+10^{C}$	ND	ND	ND	ND	PASS

Test Material List

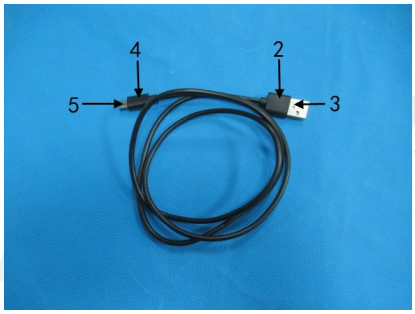
Material No.	Description(s)	Location(s)
1	Grey plastic	Inner of Type-C interface
2	Black plastic	USB interface wrap
3	Silver metal	USB interface
4	Black plastic	Type-C interface wrap
5	Silver metal	Type-C interface
6	White plastic	Inner of USB interface
7	Golden metal	Stylus
8	Silver metal	Solder
9	White plastic	Wire jacket
10	Green plastic	Wire jacket
11	Red plastic	Wire jacket
12	Black plastic	Wire jacket
13	Coppery metal	Wire core

Photo(s) of Sample(s):

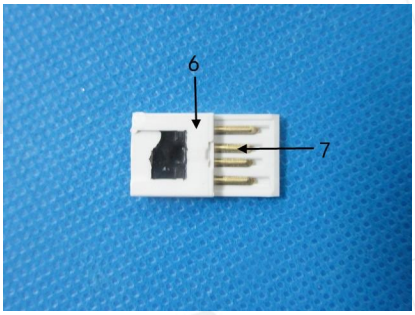
1



2-5

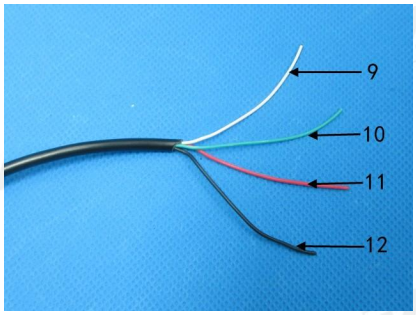


6,7



8

9-12



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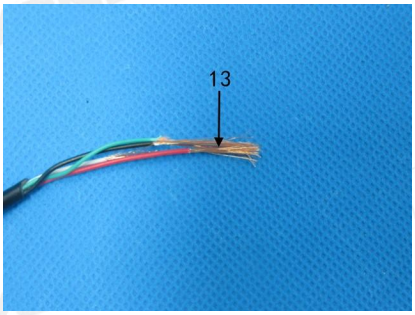

End of Report

Report Remark

1. The company guarantees the scientificity, impartiality and accuracy, is responsible for test data, and keeps confidential for the samples and technical data provided.
2. The information of the samples submitted for inspection is provided by applicant, and the company is not responsible for its authenticity or integrity.
3. The results shown in this report refer only to the sample(s) submitted.
4. This report is invalid without signature of approver, is invalid if not affixed with Authorized Stamp of Test and Paging Seal. The data/results in reports without an CMA stamp are not in the accredited scope of CMA cannot be as domestic social impartiality proof data. It can only used for research and development, teaching, internal quality control, and only for internal reference.
5. Any unauthorized reproduced in part, Any way of piracy, alteration forgery of this report is unlawful.
6. If there are any questions about the report, please contact us.
7. Any dispute of this report must be raised to the center within 10 workdays since the date of receipt, or it will not be accepted.
8. For samples with unstable performance, re-inspection will not be accepted.

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