



TEST REPORT

REPORT No.: CTB201127003CX

Date: November 27, 2020

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Applicant: Shenzhen Chebotong Technology Co., Ltd.

Address: 5C, Building 2, 2#, Ban Dao Cheng Bang, Wang Hai Rd, Nan Shan District, Shen Zhen.

Manufacturer: Shenzhen Chebotong Technology Co., Ltd.

Address: 5C, Building 2, 2#, Ban Dao Cheng Bang, Wang Hai Rd, Nan Shan District, Shen Zhen.

The following test samples and sample information are provided and confirmed by the applicant:

Sample Name: OBDII Diagnostic interface

Trade Name: Vgate

Model(s): VR800, VS890, VS890S

Sample Receiving Date: November 20, 2020

Testing Period: November 20 ~ November 27, 2020

Test Requested: According to customer's requirement, to lead in the submitted sample (Pb), cadmium (Cd), mercury (Hg), hexavalent chromium (Cr (VI)), polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) and phthalate (DBP, BBP, DEHP, DIBP) test

Test basis and test results: Please refer to the next page

Conclusion:

Test sample	According to the instruction	Result
OBDII Diagnostic interface	EU RoHS directive 2011/65/EU and its amendment directive (EU) 2015/863	Pass

Check By: *W/Co Tian*

Approve By: *[Signature]*



Date: November 27, 2020

Shenzhen CTB Testing Technology Co., Ltd

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Sample Description:

No.	Description
NO.1	Black plastic shell
NO.2	Red silicone button
NO.3	Black plastic back shell
NO.4	Red plastic
NO.5	Black screws
NO.6	PCB
NO.7	Display screen
NO.8	IC (ontology)
NO.9	IC (pin)



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1.1 Lead, Cadmium, Mercury, Hexavalent Chromium —RoHS directive 2011/65/EU and its amendment directive (EU) 2015/863

Test Result (s)

Test Item(s)	Limit	Unit	Test Method	MDL	Result	
					NO.5	NO.9
Lead (Pb)	1000	mg/kg	IEC 62321-5:2013, ICP-OES	2	N.D.	N.D.
Cadmium (Cd)	100	mg/kg	IEC 62321-5:2013, ICP-OES	2	N.D.	N.D.
Mercury (Hg)	1000	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	2	N.D.	N.D.
Hexavalent Chromium (Cr(VI))	1000	mg/kg	IEC 62321-7-1:2015, UV-VIS	2	N.D.	N.D.

Note:

1. mg/kg = milligram per kilogram= ppm
2. N.D. = Not Detected (<MDL)
3. MDL = Method detection limit



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1.2 Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs —RoHS directive 2011/65/EU and its amendment directive (EU) 2015/863

Test Item(s)	Limit	Unit	Test Method	MDL	Result	
					NO.1	NO.2
Lead (Pb)	1000	mg/kg	IEC 62321-5:2013, ICP-OES	2	N.D.	N.D.
Cadmium (Cd)	100	mg/kg	IEC 62321-5:2013, ICP-OES	2	N.D.	N.D.
Mercury (Hg)	1000	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	2	N.D.	N.D.
Hexavalent Chromium (Cr(VI))	1000	mg/kg	IEC 62321-7-2:2017, UV-VIS	2	N.D.	N.D.
Monobromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Dibromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Tribromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Tetrabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Pentabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Hexabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Heptabromobiphenyl.	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Octabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Nonabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Decabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Sum of PBBs	1000	mg/kg	-	-	N.D.	N.D.
Monobromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Dibromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Tribromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Tetrabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Pentabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Hexabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Heptabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Octabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Nonabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Decabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Sum of PBDEs	1000	mg/kg	-	-	N.D.	N.D.

Note:

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1.3 Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs —RoHS directive 2011/65/EU and its amendment directive (EU) 2015/863

Test Item(s)	Limit	Unit	Test Method	MDL	Result	
					NO.3	NO.4
Lead (Pb)	1000	mg/kg	IEC 62321-5:2013, ICP-OES	2	N.D.	N.D.
Cadmium (Cd)	100	mg/kg	IEC 62321-5:2013, ICP-OES	2	N.D.	N.D.
Mercury (Hg)	1000	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	2	N.D.	N.D.
Hexavalent Chromium (Cr(VI))	1000	mg/kg	IEC 62321-7-2:2017, UV-VIS	2	N.D.	N.D.
Monobromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Dibromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Tribromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Tetrabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Pentabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Hexabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Heptabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Octabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Nonabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Decabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Sum of PBBs	1000	mg/kg	-	-	N.D.	N.D.
Monobromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Dibromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Tribromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Tetrabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Pentabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Hexabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Heptabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Octabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Nonabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Decabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.
Sum of PBDEs	1000	mg/kg	-	-	N.D.	N.D.

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1.4 Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs —RoHS directive 2011/65/EU and its amendment directive (EU) 2015/863

Test Item(s)	Limit	Unit	Test Method	MDL	Result		
					NO.6	NO.7	NO.8
Lead (Pb)	1000	mg/kg	IEC 62321-5:2013, ICP-OES	2	N.D.	N.D.	N.D.
Cadmium (Cd)	100	mg/kg	IEC 62321-5:2013, ICP-OES	2	N.D.	N.D.	N.D.
Mercury (Hg)	1000	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	2	N.D.	N.D.	N.D.
Hexavalent Chromium (Cr(VI))	1000	mg/kg	IEC 62321-7-2:2017, UV-VIS	2	N.D.	N.D.	N.D.
Monobromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Dibromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Tribromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Tetrabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Pentabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Hexabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Heptabromobiphenyl.	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Octabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Nonabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Decabromobiphenyl	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Sum of PBBs	1000	mg/kg	-	-	N.D.	N.D.	N.D.
Monobromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Dibromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Tribromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Octabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Decabromodiphenyl ether	-	mg/kg	IEC 62321-6:2015, GC-MS	5	N.D.	N.D.	N.D.
Sum of PBDEs	1000	mg/kg	-	-	N.D.	N.D.	N.D.

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2. Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) Content —RoHS directive 2011/65/EU and its amendment directive (EU) 2015/863

Test method: With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

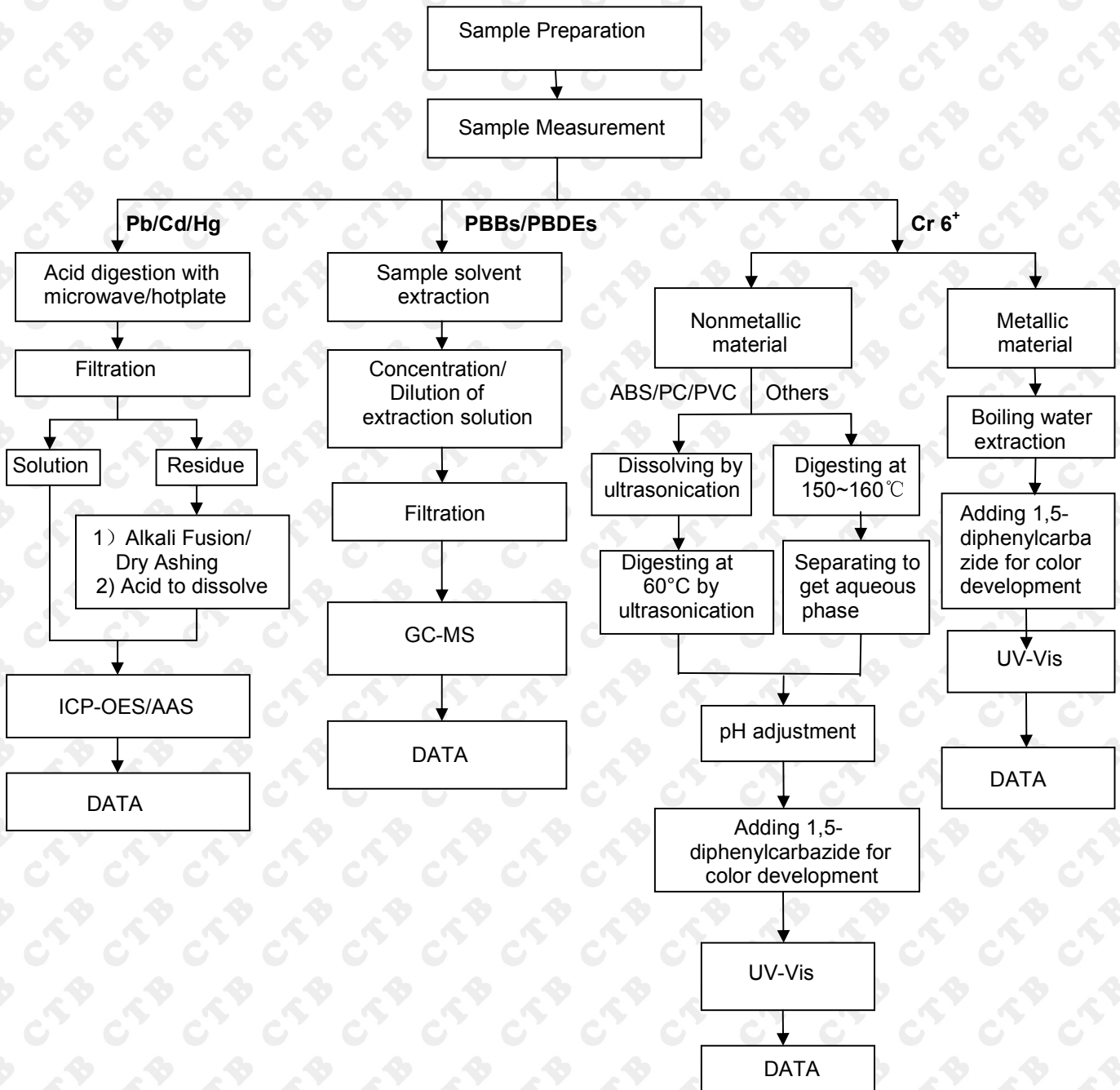
Test Item(s)	Dibutyl Phthalate (DBP) (mg/kg)	Benzylbutyl Phthalate (BBP) (mg/kg)	Bis-(2-ethylhexyl)Phthalate (DEHP) (mg/kg)	Diisobutyl phthalate (DIBP) (mg/kg)
MDL	30	30	30	30
Limit	1000	1000	1000	1000
NO.1	N.D.	N.D.	N.D.	N.D.
NO.2	N.D.	N.D.	N.D.	N.D.
NO.3	N.D.	N.D.	N.D.	N.D.
NO.4	N.D.	N.D.	N.D.	N.D.
NO.6	N.D.	N.D.	N.D.	N.D.
NO.7	N.D.	N.D.	N.D.	N.D.
NO.8	N.D.	N.D.	N.D.	N.D.

Note:

1. mg/kg = milligram per kilogram = ppm
2. N.D. = Not Detected (<MDL)
3. MDL = Method detection limit

1. Pb/Cd/Hg/Cr6+/PBBs/PBDEs Test flow chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr 6+ and PBBs/PBDEs test method excluded).





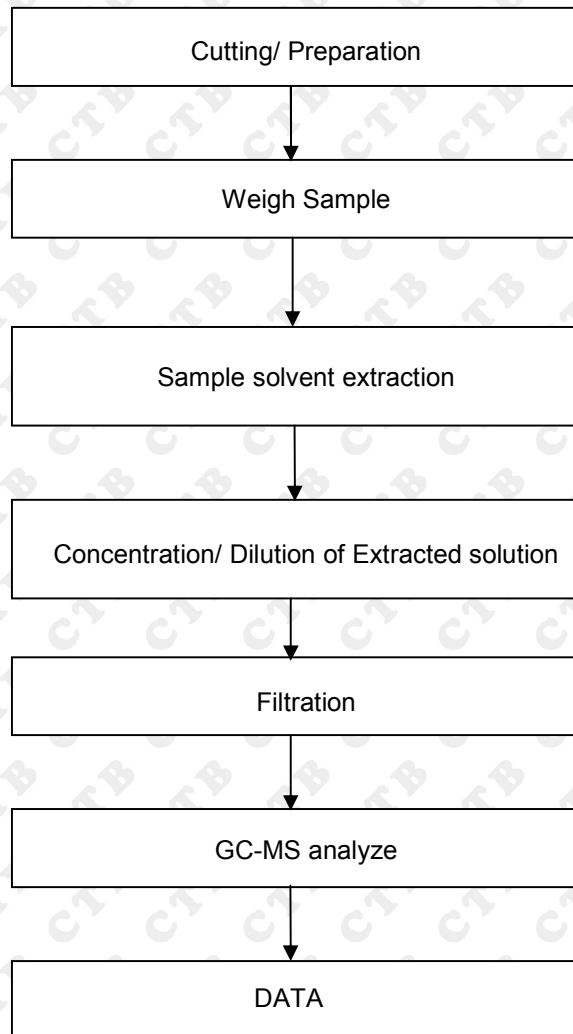
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2. Phthalate test flow chart





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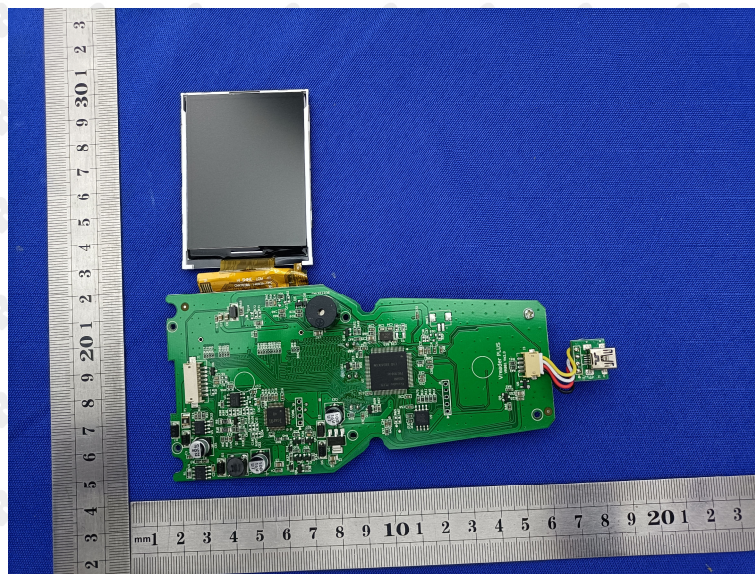


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*** End of Report ***