

No. SHAEC1809989901

Date: 10 Jul 2018

Page 1 of 11

Shanghai MXCHIP Information Technology Co.,Ltd 9th Floor, No.5, Lane 2145 JinshaJiang Road, Putuo District, Shanghai

Sample Name :	EMW3162
SGS Job No. :	SP18-015235 - SH
Tested Basic Model No. : Client Ref. Information :	EMW3162 EMW3162-P, EMW3162-E
Date of Sample Received :	14 May 2018
Verification Period :	14 May 2018 - 14 Jun 2018
Verification Requested :	With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.
Verification Method :	Please refer to next page(s).
Verification Result :	Please refer to next page(s).
Verification Conclusion :	Based on the verification results of the submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.
Note :	The test results are related only to the tested items. The report shall not be reproduced except in full without the written approval of the testing laboratory.

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

der . an

Peter Fang Approved Signatory



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Verification Method :

No. SHAEC1809989901 Date: 10 Jul 2018 Page 2 of 11

1. With reference to IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles.

2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report

(1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy(2) Wet chemical test method

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

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

c. With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES

d. With reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017 & ISO

17075-1:2017, determination of Hexavalent chromium by Colorimetric method usinc UV-Vis.

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

3. With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.



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No. SHAEC1809989901

Date: 10 Jul 2018

Page 3 of 11

Part No.	Part Description		Results of EDXRF(1)	-	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
1	EMW3162-White plastic	Pb	BL			Comply	14 May 2018
	(label) (shielding cover)	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		IN	ND	Comply	
		BBP		IN	ND	Comply	
		DEHP		IN	ND	Comply	
		DIBP		IN	ND	Comply	
2	EMW3162-Silvery metal	Pb	BL			Comply	14 May 2018
	(shielding cover)	Cd	BL			Comply	,
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					



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No. SHAEC1809989901

Date: 10 Jul 2018

Page 4 of 11

Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
3	EMW3162-Golden metal	Pb	BL			Comply	14 May 2018
	(shell) (socket)	Cd	BL			Comply	, ,
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
4	EMW3162-Silvery crystal	Pb	BL			Comply	14 May 2018
	resonator (body)	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		IN	ND	Comply	
		BBP		IN	ND	Comply	
		DEHP		IN	ND	Comply	
		DIBP		IN	ND	Comply	



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No. SHAEC1809989901

Date: 10 Jul 2018

Page 5 of 11

Part No.	Part Description		Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
5	EMW3162-Black IC1	Pb	BL			Comply	14 May 2018
	(body)	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		IN	ND	Comply	
		BBP		IN	ND	Comply	
		DEHP		IN	ND	Comply	
		DIBP		IN	ND	Comply	
6	EMW3162-Black IC2	Pb	BL			Comply	14 May 2018
	(body)	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		IN	ND	Comply	
		BBP		IN	ND	Comply	
		DEHP		IN	ND	Comply	
		DIBP		IN	ND	Comply	



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No. SHAEC1809989901

Date: 10 Jul 2018

Page 6 of 11

Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
7	EMW3162-Black audion	Pb	BL			Comply	14 May 2018
	(body)	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		IN	ND	Comply	
		BBP		IN	ND	Comply	
		DEHP		IN	ND	Comply	
		DIBP		IN	ND	Comply	
8	EMW3162-Blue PCB	Pb	BL			Comply	14 May 2018
	(body)	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		IN	ND	Comply	
		BBP		IN	ND	Comply	
		DEHP		IN	ND	Comply	
		DIBP		IN	ND	Comply	



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Date: 10 Jul 2018
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Page 7 of 11
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Remark :

- (1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).
 - (b)Results are obtained by EDXRF for primary screening, and further 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	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		BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

(c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not regulated.

- (d) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) Screening results of PHTH are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value (unit: mg/kg)

Compound	Polymer
DBP	BL ≤ 600< X
BBP	BL ≤ 600< X
DEHP	BL ≤ 600< X
DIBP	BL ≤ 600< X

 (3) (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not conducted, - = Without BOM.

(b) Unit and MDL in wet chemical test

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



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No. SHAEC1809989901

Date: 10 Jul 2018

Page 8 of 11

The MDL for single compound of PBBs and PBDEs is 100 mg/kg, MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg, MDL of Cr(VI) for metal sample is 0.10μ g/cm².

- (c) ▼ =Metal sample
 - a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 μ g/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μ g/cm²). The coating is considered a non-CrVI 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.

IEC 62321 series is equivalent to EN 62321 series <<u>http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,</u> 25>

(4) According to the declaration from applicant, the materials of Model "EMW3162" are the same as those in Model "EMW3162-P, EMW3162-E" and its results for support the results of Model "EMW3162-P, EMW3162-E". The applicant will take the responsibility of all discrepancy and risk.



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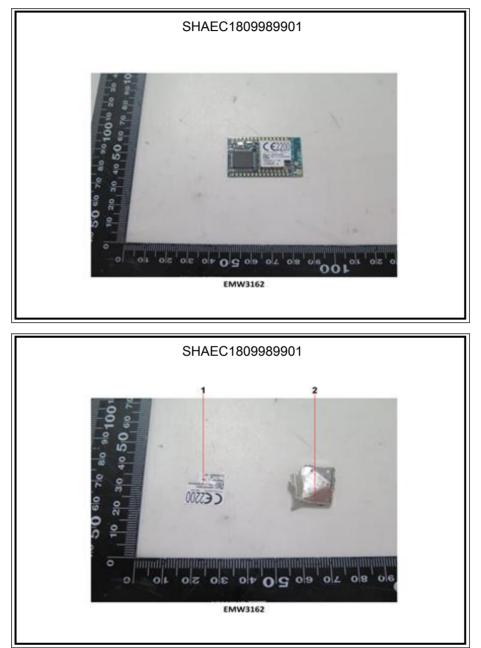
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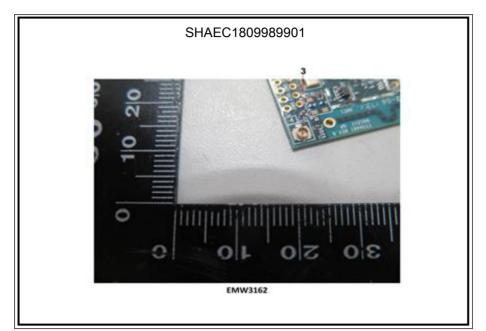
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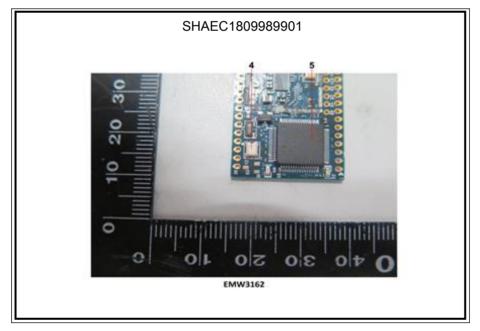


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Date: 10 Jul 2018

Page 10 of 11







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