

TEST REPORT

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Applicant Name: PARTICLE INDUSTRIES,INC

Applicant Address: 325 9TH ST, SAN FRANCISCO,CA 94103 USA,415-319-1553

Date of Submission: DEC 21, 2023

Test Period: DEC 21, 2023 TO JAN 25, 2024

Sample Description: MSOM

Style No.: M404

Manufacturer: WISTRON NEWEB CORP

Country of origin: 20 PARK AVENUE II, HSINCHU SCIENCE PARK HSINCHU 308,

TAIWAN, R.O.C.

Country of Destination: TAIWAN

Sample Size: 1



BUREAU VERITAS SHENZHEN CO.,LTD DONGGUAN BRANCH

lism bui

Lisa Bai

Analytical lab technical ass. manager

RT/Daisy Cai

REMARK

If there are questions or concerns on this report, please contact the following persons:

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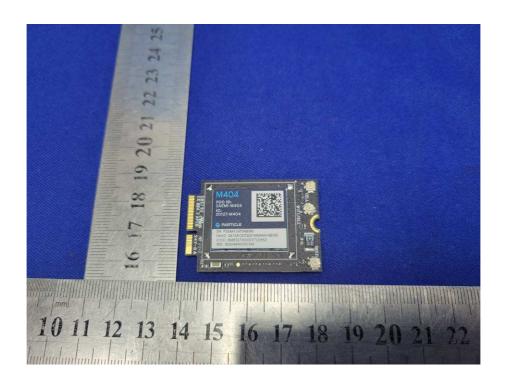
SUMMARY OF TEST RESULTS

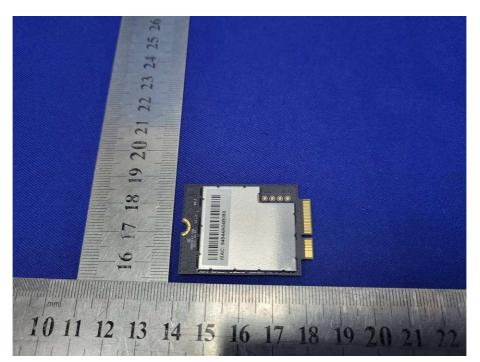
TEST REQUESTED	CONCLUSION	REMARK
European Parliament and Council Directive		
2011/65/EU on the Restriction of the Use of Certain		
Hazardous Substances in Electrical and Electronic	PASS	-
Equipment (RoHS) with its Amendment Directive		
(EU)2015/863		



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Photo of the Submitted Sample

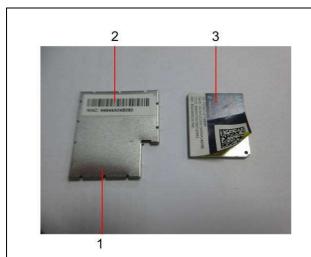


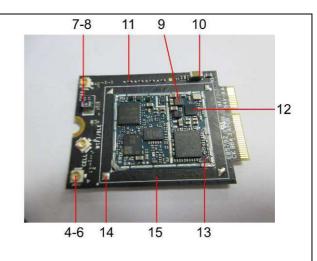


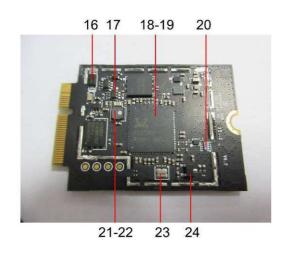


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Photo of Test Item(s)









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Component Description List

Test Item(s) Component Description(s)		Location	Style(s)	
1	Silvery metal	Cover, PCB	-	
2	Black/white coated transparent plastic with adhesive	Sticker, PCB	-	
3	Black/white coated yellow plastic	Sticker, PCB	-	
4	Silvery/golden metal	Socket, PCB	-	
5	White plastic	Base, socket, PCB	-	
6	Silvery/golden metal	Pin, socket, PCB	-	
7	Black body	General diode, PCB	-	
8	Silvery metal	Plate, general diode, PCB	-	
9	Black body	SMD EC, PCB	-	
10	Brown body	SMD capacitor, PCB	-	
11	Black body	SMD resistor, PCB	-	
12	Black body	SMD IC, PCB	-	
13	Green PCB	Small PCB	-	
14	Silvery solder	Solder, PCB	-	
15	Black PCB	PCB	-	
16	Black body	Diode, PCB	-	
17	Black body	IC, PCB	-	
18	Black body	SMD IC, PCB	-	
19	Silvery/golden metal	Plate, SMD IC, PCB	-	
20	Blue body	IC, PCB	-	
21	Black metal	Inductor, PCB	-	
22	Coppery metal	Coil, inductor, PCB	-	
23	Silvery/coppery body	SMD EC, PCB	-	
24	Black body	SMD transistor, PCB	-	



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TEST RESULT

Compliance Test – European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendment Directive (EU)2015/863

Test Method: See Appendix.

-				lt (s)						
Parameter	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI (Cr VI)	PBBs & PBDEs	BBP	DBP	DEHP	DIBP	Conclusion
Unit					mg/kg					-
Test Item(s)	-	-	-	-	-	-	-	-	-	-
1	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
2	BL	BL	BL	BL	BL	BL*	BL*	BL*	BL*	PASS
3	BL	BL	BL	BL	BL	BL*	BL*	BL*	BL*	PASS
4	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
5	BL	BL	BL	BL	BL	BL*	BL*	BL*	BL*	PASS
6	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
7	160*	BL	BL	BL	BL	BL*	BL*	BL*	BL*	PASS
8	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
9	BL	BL	BL	BL	BL	BL*	BL*	BL*	BL*	PASS
10	99*	BL	BL	BL	BL	BL*	BL*	BL*	BL*	PASS
11	BL	BL	BL	BL	BL	BL*	BL*	BL*	BL*	PASS
12	BL	BL	BL	BL	BL	BL*	BL*	BL*	BL*	PASS
13	BL	BL	BL	BL	BL	BL*	BL*	BL*	BL*	PASS
14	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
15	BL	BL	BL	BL	BL	BL*	BL*	BL*	BL*	PASS
16	51010*	BL	BL	BL	BL	BL*	BL*	BL*	BL*	EXEMPTED#
17	60*	BL	BL	BL	BL	BL*	BL*	BL*	BL*	PASS
18	14*	BL	BL	BL	BL	BL*	BL*	BL*	BL*	PASS
19	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
20	BL	BL	BL	BL	BL	BL*	BL*	BL*	BL*	PASS
21	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
22	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
23	17*	BL	BL	BL	BL	BL*	BL*	BL*	BL*	PASS
24	BL*	BL	BL	BL	BL	BL*	BL*	BL*	BL*	PASS



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Note / Key:

BL = Below limit OL = Over limit ND = Not detected NA = Not applicable

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Detection Limit: See Appendix.

Remark:

- *Denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- *Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1).
- According to European Council Directive 2011/65/EU, Article 5 "Adaptation of the Annexes to scientific and technical progress", exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.
- #According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(c)-I is reiterated here "Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezo electronic devices, or in a glass or ceramic matrix compound". Test Item(s) 16 was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.



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APPENDIX

List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit

[Compliance Test for European Parliament and Council Directive 2011/65/EU1:

No.			Detection Lim	nit(mg/kg)		Maximur
	Name of Analytes	X-1	ay fluorescence (XI	Wet	Allowable	
		Plastic	Metal/Glass/ Ceramic	Others	Chemistry	Limit (mg/kg)
1	Lead (Pb)	100	200	200	10 ^[b]	1000
2	Cadmium (Cd)	50	50	50	10 ^[b]	100
3	Mercury (Hg)	100	200	200	10 ^[c]	1000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	See ^[d] /10 ^[e] /3 ^[f,g]	1000 / Negative
6	Bromine (Br)	200	NA	200	NA	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Each 50 ^[i]	Sum 100
8	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Each 50 ^[i]	Sum 100
9	- Dibutyl phthalate (DBP) - Butyl benzyl phthalate (BBP) - Di-2-ethylhexyl phthalate (DEHP) - Diisobutyl phthalate (DIBP)	NA	NA	NA	Each 50 ^[j]	Each 10



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NA = Not applicable IEC = International Electrotechnical Commission

- [a] Test method with reference to International Standard IEC 62321-3-1: 2013.
- Test method with reference to International Standard IEC 62321-5: 2013.
- Test method with reference to International Standard IEC 62321-4:2013+A1:2017.
- Metal Test method with reference to International Standard IEC 62321-7-1: 2015.
- Polymers and Electronics Test method with reference to European Standard EN 62321-7-2: 2017.
- Leather Test method International Standard ISO 17075-1:2017.
- Other Than Metal, Leather, Polymers and Electronics Test method with reference to International Standard ISO 17075-1:2017.
 - Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the
- tested areas and the result(s) was (were) regarded as in compliance with European Parliament and Council Directive 2011/65/EU, Article 4(1).
 - While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).
- [i] Test method with reference to International Standard IEC 62321-6: 2015.
- Test method with reference to International Standard IEC 62321-8: 2017.

Testing Approach [Compliance Test for European Parliament and Council Directive 2011/65/EU]:

The testing approach was with reference to the following document(s).

- International Standards IEC 62321-1: 2013 and IEC 62321-2: 2021
- 2 "RoHS Enforcement Guidance Document Version 1" by EU RoHS Enforcement Authorities Informal Network. (May 2006)
- 3 "RoHS Regulations Government Guidance Notes" by United Kingdom Department for Business Innovation & Skills. (February 2011)
- 4 "Final Report to RoHS substances (Hg, Pb, Cr(VI), Cd, PBB and PBDE) in electrical and electronic equipment in Belgium" by Belgium Federal Public Service Health, Food Chain Safety and Environment. (November 2005)

*** End of Report ***