



# Test Report

Report No. : UNIB19042513HR-01

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Applicant : Onion Corporation

Address : 895 Don Mills Road, Tower-2, Suite 900, Toronto, Ontario, M3C 1W3, Canada

Name of sample : Omega 2S

Receiving Date : 2019.04.25

Test Date : 2019.04.25-2019.04.30

Test Location : Guangzhou Chemistry Laboratory

Test Method : Please refer to "Test Results"

Testing Item : Please refer to next page(s)

Decision Rule : RoHS Directive 2011/65/EU and Amendment (EU)2015/863.

Conclusion : Pass

Signed for and on behalf of

Shenzhen United Testing Technology Co.,Ltd

Huang Yong

Huang Yong

Approved Signatory

2019.04.30

Signatory Date



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## 1、Sample information

For samples, the information provided by the customer is as follows:

Product Model : OM-O2S,OM-O2SP,OM-O2ST

Manufacturer : Onion Corporation

## 2、Conclusion

The sample was detected and according to the detection results, the conclusion are as follows:

Test item	Decision Rule	Conclusion
Pb、Cd、Hg、Cr(VI)、PBBs、PBDEs、DEHP、DBP、BBP、DIBP	RoHS Directive 2011/65/EU and Amendment (EU)2015/863	Pass

## 3、Sample Split

The sample is split according to IEC 62321-2:2013.

No.	Description	Material
No.1	White film	Polymer
No.2	Silver grey metal cover	Metal
No.3	Blue silicone	Polymer
No.4	Silver grey solder joint	Metal
No.5	Purple coating (PCB)	Polymer
No.6	Copper film (PCB)	Metal
No.7	Yellow resin (PCB)	Polymer
No.8	Gold metal	Metal
No.9	Black chip	Polymer
No.10	Silver grey pin	Metal
No.11	Yellow chip resistor	Ceramics
No.12	Black IC	Polymer
No.13	Blue chip resistor	Metal
No.14	Black plastic	Polymer
No.15	Gold pin	Metal
No.16	Silver grey metal (card slot)	Metal
No.17	Gold pin (card slot)	Metal

Note: This table is used to identify each test part of the Sample. Different descriptions in the "Description" column are only used to distinguish each test part. "Material" column are only gives a simple Description of the material of each test part, which does not mean that this is the result of a material identification.



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## 4、Test Results

### 4.1 XRF screening

The total amount of lead, cadmium, mercury, chromium and bromine was screened by X-ray fluorescence spectrometer (XRF).

XRF screening technical requirements: Lead, Mercury:  $\text{Pass} \leq 700 \text{ mg/kg} - 3\delta < C < 1300 \text{ mg/kg} + 3\delta \leq \text{Fail}$ , Cadmium:  $\text{Pass} \leq 70 \text{ mg/kg} - 3\delta < C < 130 \text{ mg/kg} + 3\delta \leq \text{Fail}$ , Chromium:  $\text{Pass} \leq 700 \text{ mg/kg} - 3\delta < C$ , Bromine:  $\text{Pass} \leq 250 \text{ mg/kg} - 3\delta < C$ . "C"=Indicates that a chemical test is required. Chromium pass meets Hexavalent Chromium standards compliant, Bromine pass means that PBBs and PBDEs are standards compliant.

DEHP、DBP、BBP、DIBP is used for GC-MS quantitative test. According to the requirements of the RoHS Directive, The content of DEHP, DBP, BBP and DIBP  $\leq 0.1\%$ .

#### 4.1.1 No.1

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

#### 4.1.2 No.2

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

#### 4.1.3 No.3

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

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## 4.1.4 No.4

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

## 4.1.5 No.5

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

## 4.1.6 No.6

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

## 4.1.7 No.7

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

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## 4.1.8 No.8

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

## 4.1.9 No.9

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

## 4.1.10 No.10

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

## 4.1.11 No.11

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

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## 4.1.12 No.12

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

## 4.1.13 No.13

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

## 4.1.14 No.14

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

## 4.1.15 No.15

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

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## 4.1.16 No.16

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

## 4.1.17 No.17

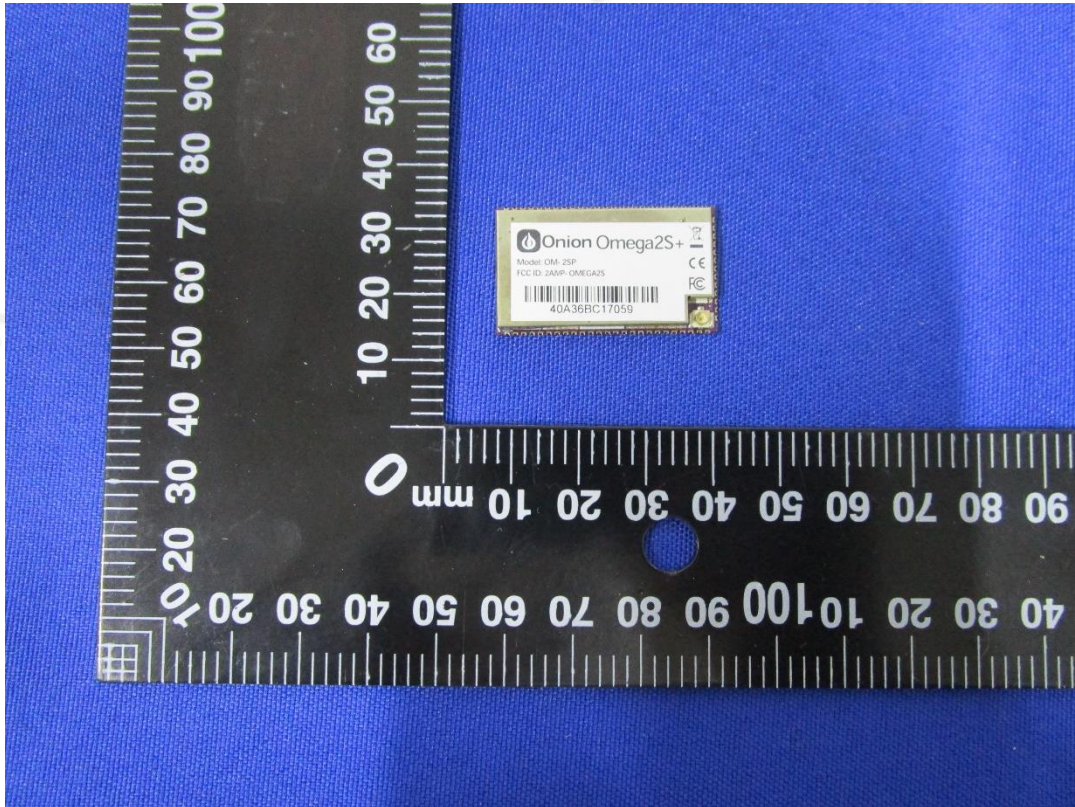
Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr )	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine( Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

### Note:

- 1mg/kg = 0.0001%
- ND= Not Detected(<MDL)
- =No Testing or blank or not applicable.
- Polybrominated biphenyls (PBBs) include: Monobromobiphenyl, Dibromobiphenyl, Tribromobiphenyl, Tetrabromobiphenyl, Pentabromobiphenyl, Hexabromobiphenyl, Heptabromobiphenyl, Octabromobiphenyl, Nonabromobiphenyl, Decabromobiphenyl.
- Polybrominated diphenyl ethers (PBDEs) Included: Monobromodiphenyl ether, Dibromodiphenyl ether, Tribromodiphenyl ether, Tetrabromodiphenyl ether, Pentabromodiphenyl ether, Hexabromodiphenyl ether, Heptabromodiphenyl ether, Octabromodiphenyl ether, Nonabromodiphenyl ether, Decabromodiphenyl ether.



## 5、Sample Photo



The sample picture is only used to inform the customer that the sample received by the laboratory is shown in the picture, which does not prove the appearance and quality of the customer's products.

**\*\*\*End of Report\*\*\***

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