



TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 1 of 20

Shenzhen Sonoff Technologies Co., Ltd.
Building 8, Room 1001, Lianhua industrial park, Longyuan Road, Hualian community, Longhua St, Longhua dist, Shenzhen, Guangdong China.

Report on the submitted samples said to be:

Sample Name : NEXTION HMI TOUCH SCREEN
Style/ Items No. : X8048P070-011C-Y,NX8048P070-011R-Y,NX8048P070-011C,NX8048P070-011R, NX1060P101-011C-I,NX1060P101-011R-I
Brand : NEXTION
Sample Receiving Date : May 7, 2019
Testing Period : From May 7, 2019 to July 10, 2019
Results : Please refer to next page(s).

Summary of Test Results:

TEST REQUEST

CONCLUSION

A RoHS Directive 2011/65/EU and its amendment directives

XRF screening test and Wet Chemical Testing (Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs content) **Pass**

Phthalates(DBP、BBP、DEHP、DIBP)content **Pass**

Signed for and on behalf of BACL

Checked by: _____
Jane Xu
Technical Supervisor

Approved by: _____
Bensen Huang
Laboratory Manager

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 2 of 20

Results:

A. RoHS Directive 2011/65/EU and its amendment directives

XRF screening test

Test method: With reference to IEC62321-3-1:2013 screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	Red soft plastic(wire jacket,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
2	Blue soft plastic(wire jacket,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
3	Black soft plastic(wire jacket,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
4	Yellow soft plastic(wire jacket,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
5	White plastic(plug shell,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
6*	Black plastic(micro plug shell,NEXTION HMI touch screen)	BL	BL	BL	BL	IN
7	Silvery metal(pin,plug,NEXTION HMI touch screen)	BL	BL	BL	BL	---
8	Silvery metal(pin,micro plug,NEXTION HMI touch screen)	BL	BL	BL	BL	---
9	Silvery metal(conductor,wire,NEXTION HMI touch screen)	BL	BL	BL	BL	---
10	White adhesive paper with black coating(sticker,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
11	Light yellow glue(fixer,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
12	Black adhesive sponge(fixer,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
13	Translucent double faced adhesive tape(film fixer,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
14	Translucent plastic with silvery grey coating(film,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
15	Transparent glass(screen shell,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
16	Silvery metal(screen shell,NEXTION HMI touch screen)	BL	BL	BL	BL	---
17	Tan/brown FPC(NEXTION HMI touch screen)	BL	BL	BL	BL	BL
18	Black adhesive plastic(tape,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
19	Grey transparent plastic film(screen,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
20	Translucent iridescent plastic film(screen,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
21	White plastic film(base of screen,NEXTION HMI touch screen)	BL	BL	BL	BL	BL

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

Bay Area Compliance Laboratories Corp. (Dongguan)

No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China
Tel: +86-769-86858888 Fax: +86-769-86858891

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 3 of 20

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
22	Off white plastic film(base of screen,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
23	Transparent plastic(base of screen,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
24*	Black plastic(frame of screen,NEXTION HMI touch screen)	BL	BL	BL	BL	IN
25	Black glue(screen seal,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
26*	Off White PCB with black coating(PCB"YCY-PCB7057100-18L XR",NEXTION HMI touch screen)	BL	BL	BL	BL	IN
27*	Yellow body(LED,PCB"YCY-PCB7057100-18L XR",NEXTION HMI touch screen)	BL	BL	BL	BL	IN
28	Silvery solder(PCB"YCY-PCB7057100-18L XR",NEXTION HMI touch screen)	BL	BL	BL	BL	---
29	Transparent glass(screen,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
30	Grey Transparent glass(screen,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
31	Red PCB with white coating(PCB"NX8048P070_011",NEXTION HMI touch screen)	BL	BL	BL	BL	BL
32	Golden adhesive fabric with foam(sticker,PCB"NX8048P070_011",NEXTION HMI touch screen)	BL	BL	BL	BL	BL
33*	Beige plastic(pin holder,J4,PCB"NX8048P070_011",NEXTION HMI touch screen)	BL	BL	BL	BL	IN
34	Silvery metal(pin,J4,PCB"NX8048P070_011",NEXTION HMI touch screen)	BL	BL	BL	BL	---
35	Beige plastic(pin holder,K1,PCB"NX8048P070_011",NEXTION HMI touch screen)	BL	BL	BL	BL	BL
36	Black plastic(opener,K1,PCB"NX8048P070_011",NEXTION HMI touch screen)	BL	BL	BL	BL	BL
37	Silvery metal(pin,K1,PCB"NX8048P070_011",NEXTION HMI touch screen)	BL	BL	BL	BL	---
38	Silvery metal(socket holder,K1,PCB"NX8048P070_011",NEXTION HMI touch screen)	BL	BL	BL	BL	---
39	Brown plastic(opener,K2,PCB"NX8048P070_011",NEXTION HMI touch screen)	BL	BL	BL	BL	BL
40	Brown plastic(battery shell,J2,PCB"NX8048P070_011",NEXTION HMI touch screen)	BL	BL	BL	BL	BL
41	Golden metal("+ " plate,J2,PCB"NX8048P070_011",NEXTION HMI touch screen)	BL	BL	BL	BL	---
42	Golden metal("- " plate,J2,PCB"NX8048P070_011",NEXTION HMI touch screen)	BL	BL	BL	BL	---
43*	Silvery metal(shell,SD1,PCB"NX8048P070_011",NEXTION HMI touch screen)	BL	BL	BL	IN	---

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

Bay Area Compliance Laboratories Corp. (Dongguan)

No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China
Tel: +86-769-86858888 Fax: +86-769-86858891

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 4 of 20

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
44*	Silvery metal(pole,SD1,PCB“NX8048P070_011”,NEXTION HMI touch screen)	BL	BL	BL	IN	---
45	Silvery metal(pin,SD1,PCB“NX8048P070_011”,NEXTION HMI touch screen)	BL	BL	BL	BL	---
46	Golden metal(shrapnel,SD1,PCB“NX8048P070_011”,NEXTION HMI touch screen)	BL	BL	BL	BL	---
47	Gunmetal metal(spring,SD1,PCB“NX8048P070_011”,NEXTION HMI touch screen)	BL	BL	BL	BL	---
48	Black plastic(pin holder,SD1,PCB“NX8048P070_011”,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
49	White ceramics with black coating(base, “T1”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
50*	Silvery metal(shell, “T1”,PCB“NX8048P070_011”)	BL	BL	BL	IN	---
51*	Silvery metal(conductor, “T1”,PCB“NX8048P070_011”)	BL	BL	BL	IN	---
52	Black plastic(base,capacitor “CT1”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
53	Black soft Rubber(base,capacitor “CT1”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
54	Silvery metal with black coating(shell, capacitor“CT1”,PCB“NX8048P070_011”)	BL	BL	BL	BL	---
55	Silvery metal(foil, capacitor“CT1”,PCB“NX8048P070_011”)	BL	BL	BL	BL	---
56	Dull silvery metal(foil, capacitor“CT1”,PCB“NX8048P070_011”)	BL	BL	BL	BL	---
57	Brown paper with liquid(film,capacitor“CT1”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
58	Transparent adhesive plastic(tape,capacitor“CT1”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
59	Silvery metal(connector, capacitor“CT1”,PCB“NX8048P070_011”)	BL	BL	BL	BL	---
60	Silvery metal(pin, capacitor“CT1”,PCB“NX8048P070_011”)	BL	BL	BL	BL	---
61	Black body(IC“U9”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
62	Black body(diode“ZD1”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
63	Black body with white coating(SMD resistor“R61”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
64	Black body(triode“Q3”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
65	Dark grey body(diode“BD4”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
66	Brown body (SMD capacitor“C74”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
67	Black body (inductance “L4”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

Bay Area Compliance Laboratories Corp. (Dongguan)

No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China
Tel: +86-769-86858888 Fax: +86-769-86858891

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 5 of 20

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
68	Yellow body (SMD capacitor“C74”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
69	Silvery body (crystal“Y2”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
70	Black body with white coating (crystal“Y3”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
71	Black body with white coating(SMD resistor“RN8”,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
72	Silvery solder(PCB“NX8048P070_011”)	BL	BL	BL	BL	---
73	Yellow adhesive plastic(tape,FPC,PCB“NX8048P070_011”)	BL	BL	BL	BL	BL
74*	Silvery metal(reinforcement,FPC,PCB“NX8048P070_011”)	BL	BL	BL	IN	---
75*	Silvery metal(screw,screen holder,NEXTION HMI touch screen)	BL	BL	BL	IN	---
76	Golden metal(nut,screen holder,NEXTION HMI touch screen)	BL	BL	BL	BL	---
77	Black plastic(screen holder,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
78*	Silvery metal(screw,shell,NEXTION HMI touch screen)	BL	BL	BL	IN	---
79	Golden metal(nut,shell,NEXTION HMI touch screen)	BL	BL	BL	BL	---
80	Transparent plastic with black coating(screen cover,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
81	White double faced adhesive tape(screen cover fixer,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
82	Black plastic(screen frame,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
83	Black plastic(back shell,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
84	Black soft plastic(crash pad,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
85	Silvery adhesive plastic with black coating(sticker,back shell,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
86*	Silvery metal(screw,PCB holder,NEXTION HMI touch screen)	BL	BL	BL	IN	---
87	Black soft plastic(diaphragm, speaker,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
88	Coppery metal(coil, speaker,NEXTION HMI touch screen)	BL	BL	BL	BL	---
89	Black paper (ring, speaker,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
90	Red soft plastic(wire jacket, speaker,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
91	Black soft plastic(wire jacket, speaker,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
92	Silvery metal(wire, speaker,NEXTION HMI touch screen)	BL	BL	BL	BL	---
93	Silvery metal(pin, speaker,NEXTION HMI touch screen)	BL	BL	BL	BL	---

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

Bay Area Compliance Laboratories Corp. (Dongguan)

No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China
Tel: +86-769-86858888 Fax: +86-769-86858891

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 6 of 20

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
94	White plastic(pin holder, speaker,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
95*	Green PCB(speaker,NEXTION HMI touch screen)	BL	BL	BL	BL	IN
96	Silvery solder(PCB, speaker,NEXTION HMI touch screen)	BL	BL	BL	BL	---
97*	Silvery magnet(core, speaker,NEXTION HMI touch screen)	BL	BL	BL	IN	BL
98	Silvery metal(magnet housing, speaker,NEXTION HMI touch screen)	BL	BL	BL	BL	---
99	Black glue(speaker,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
100	White glue(speaker,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
101	Black coating(screen frame,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
102	Silvery metal without coating(screen frame,NEXTION HMI touch screen)	BL	BL	BL	BL	---
103	Black adhesive EVA(crash pad,screen frame,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
104	Black EVA(screen fixer,NEXTION HMI touch screen)	BL	BL	BL	BL	BL
105	Light yellow double faced adhesive tape (screen fixer,NEXTION HMI touch screen)	BL	BL	BL	BL	BL

- The test results of samples (76), (79) are shown retest result, and the retest samples were provided by client on July 9, 2019.

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

Bay Area Compliance Laboratories Corp. (Dongguan)

No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China

Tel: +86-769-86858888 Fax: +86-769-86858891

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 7 of 20

Remark:

(1)

--- = Not Conducted

Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd,

* = Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ< X <130+3σ≤OL	BL≤70-3σ< X <130+3σ≤OL	LOD < X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤OL	BL≤500-3σ< X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤OL	BL≤500-3σ< X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ< X	BL≤700-3σ< X	BL≤500-3σ< X
Br	mg/kg	BL≤300-3σ< X	---	BL≤250-3σ< X

BL = Below Limit

OL = Over Limit

IN = Inconclusive

LOD = Limit of Detection

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

Bay Area Compliance Laboratories Corp. (Dongguan)

No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China

Tel: +86-769-86858888 Fax: +86-769-86858891



TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 8 of 20

(2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(3) The maximum permissible limit is quoted from RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium(Cd)	100
Lead(Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominate ddiphenylethers (PBDEs)	1000

(4) As requested by applicant, only components shown in this report were screened by XRF spectroscopy for 2011/65/EU and its amendment directives, other components were not screened included in this report.

(5) Photo appendix is included.

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 9 of 20

Wet Chemical Testing:

Test method:

Hexavalent Chromium Content (For metal material):

With reference to IEC 62321-7-1:2015, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

Hexavalent Chromium Content (For non-metal material):

With reference to IEC 62321-7-2:2017, by solvent extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

1) The test results of Cr (VI)

For metal material

Item	Unit	MDL	Results				Limit
			43	44	50	51	
Hexavalent Chromium (Cr(VI))	µg/cm ²	0.10	N.D.	N.D.	N.D.	N.D.	**
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results				Limit
			74	75	78	86	
Hexavalent Chromium (Cr(VI))	µg/cm ²	0.10	N.D.	N.D.	N.D.	N.D.	**
Conclusion	/	/	Pass	Pass	Pass	Pass	/

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

Bay Area Compliance Laboratories Corp. (Dongguan)

No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China

Tel: +86-769-86858888 Fax: +86-769-86858891



TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 10 of 20

For non-metal material

Item	Unit	MDL	Results	Limit
			97	
Hexavalent Chromium (Cr(VI))	mg/kg	10	N.D.	1000
Conclusion	/	/	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- ** =
 - a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10µg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10µg/cm² and 0.13µg/cm² is considered to be inconclusive -unavoidable coating variations may influence the determination

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.



TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 11 of 20

2) The test results of PBBs & PBDEs

Item	Unit	MDL	Results			Limit
			6	24	26	
Polybrominated Biphenyls						
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers						
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	/

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 12 of 20

Item	Unit	MDL	Results			Limit
			27	33	95	
Polybrominated Biphenyls						
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers						
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- The results less than MDL are not taken into account while calculating the sum contents.
- mg/kg = ppm
- Photo is included.

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

Bay Area Compliance Laboratories Corp. (Dongguan)

No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China
Tel: +86-769-86858888 Fax: +86-769-86858891

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 13 of 20

Phthalates(DBP、BBP、DEHP、DIBP)content

Test method: With reference to IEC 62321-8:2017, by gas chromatographic-mass spectrometer (GC-MS)

Item	Unit	MDL	Results			Limit
			1+2+3	4+5+6	10+11	
Dibutyl Phthalate (DBP)	%	0.003	0.012	0.009	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	0.006	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

Item	Unit	MDL	Results			Limit
			12+13+14	15+29+30	17+18+26	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

Bay Area Compliance Laboratories Corp. (Dongguan)

No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China
Tel: +86-769-86858888 Fax: +86-769-86858891

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 14 of 20

Item	Unit	MDL	Results			Limit
			19+20+21	22+23+24	25+33+35	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

Item	Unit	MDL	Results			Limit
			27+31+32	36+40+48	39+49+52	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

Item	Unit	MDL	Results			Limit
			53+57+58	61+62+63	64+65+66	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

Bay Area Compliance Laboratories Corp. (Dongguan)

No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China

Tel: +86-769-86858888 Fax: +86-769-86858891

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 15 of 20

Item	Unit	MDL	Results			Limit
			67+68+69	70+71+73	77+80+81	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

Item	Unit	MDL	Results			Limit
			82+83+84	85+87+89	90+91	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	0.008	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

Item	Unit	MDL	Results		Limit
			94+95+97	99+100	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	/

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

Bay Area Compliance Laboratories Corp. (Dongguan)

No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China

Tel: +86-769-86858888 Fax: +86-769-86858891

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 16 of 20

Item	Unit	MDL	Results		Limit
			101	103+104+105	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	/

Note:

- The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- "+"= Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
- Photo is included.

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

Bay Area Compliance Laboratories Corp. (Dongguan)

No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China
Tel: +86-769-86858888 Fax: +86-769-86858891

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 17 of 20

Photograph of Sample



This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

Bay Area Compliance Laboratories Corp. (Dongguan)

No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China

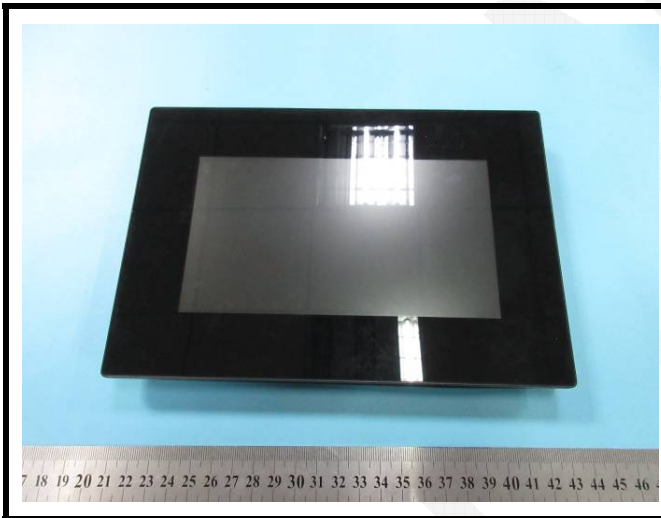
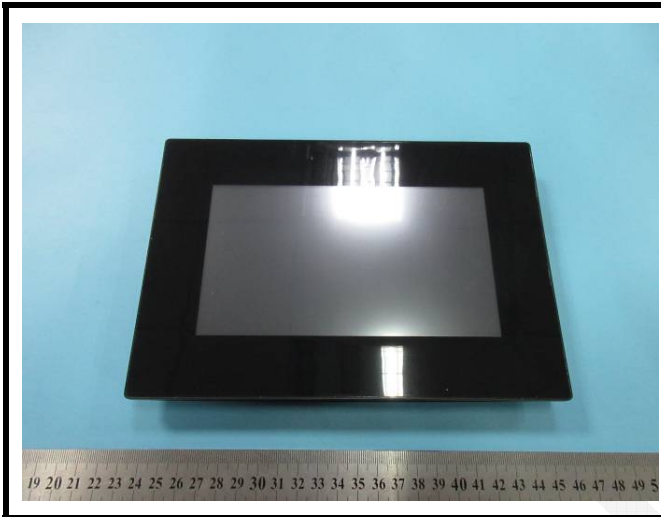
Tel: +86-769-86858888 Fax: +86-769-86858891

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 18 of 20



This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

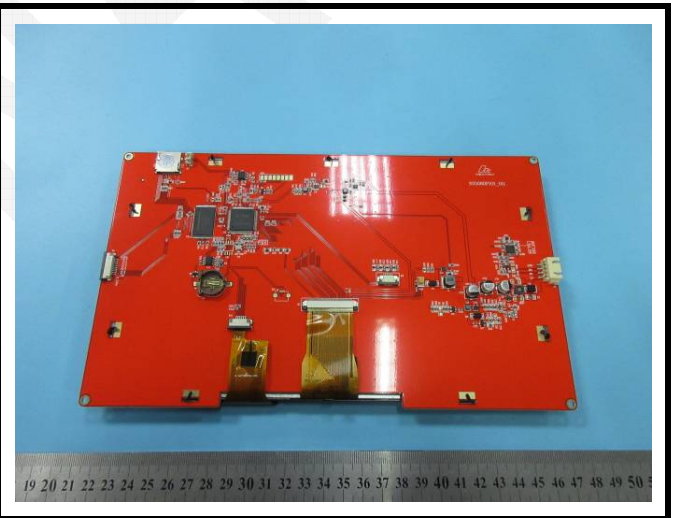
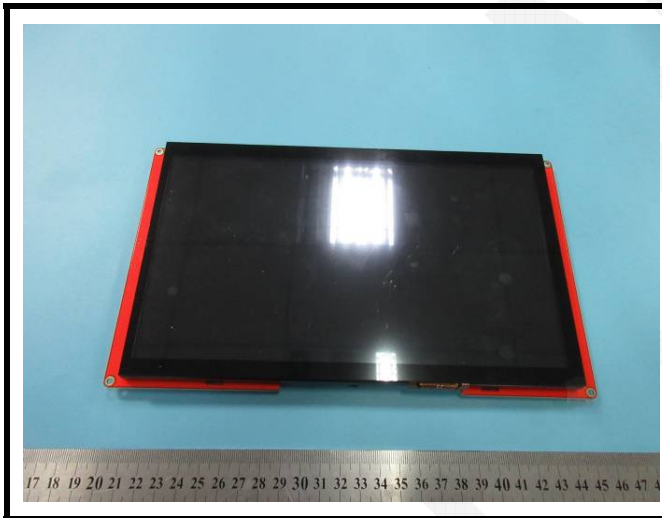
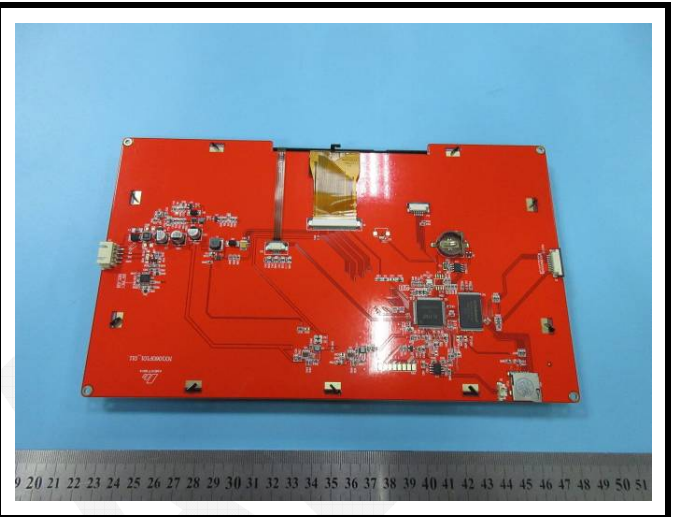
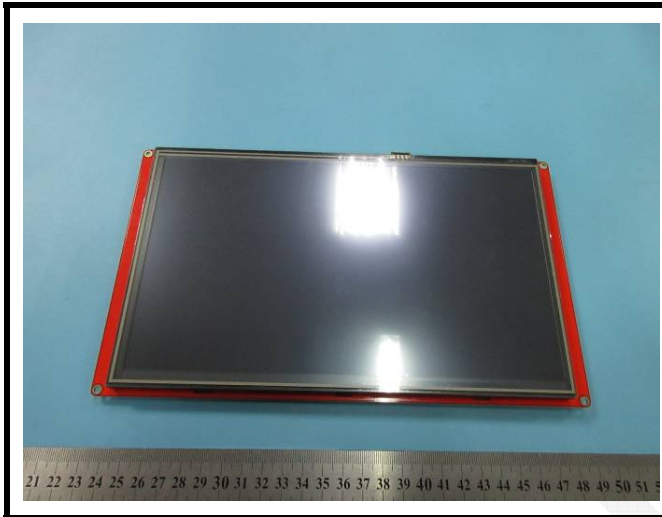
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 19 of 20



This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

Bay Area Compliance Laboratories Corp. (Dongguan)

No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China

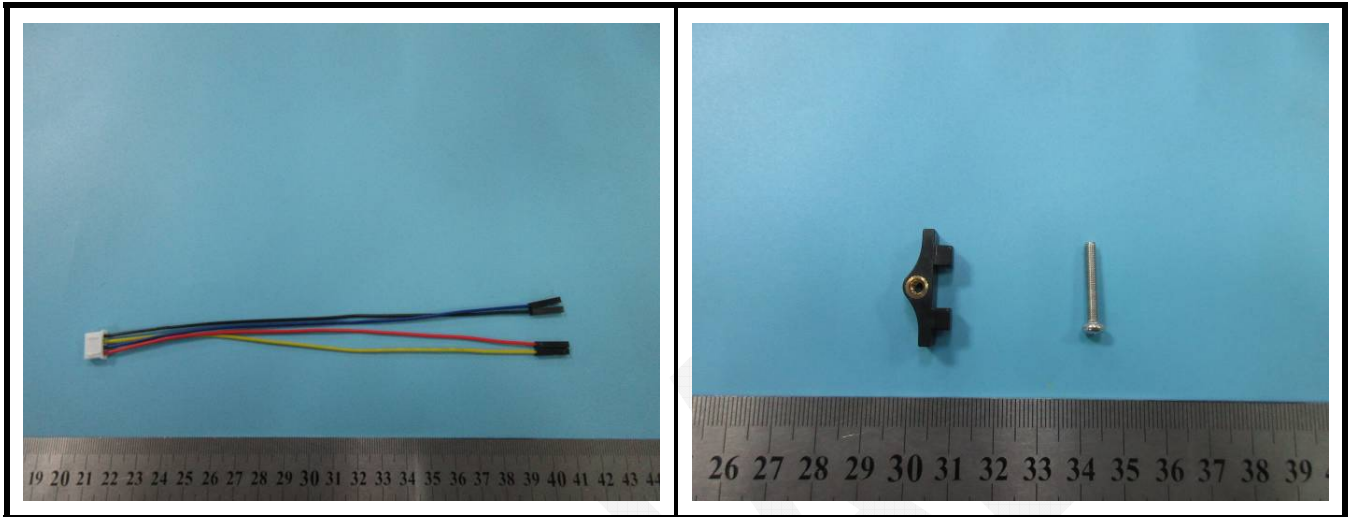
Tel: +86-769-86858888 Fax: +86-769-86858891

TEST REPORT

REPORT No.: R2DG1905066355E

Date: July 10, 2019

Page 20 of 20



BACL authenticate the photo on original report only

*** End of Report ***

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30days only. This test report shall not be reproduced expect in full, without written approval of the company.

Bay Area Compliance Laboratories Corp. (Dongguan)

No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China

Tel: +86-769-86858888 Fax: +86-769-86858891