

TEST REPORT

REPORT No.: RSZ180824B1425E-M1

Date: November 16, 2018

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Xi'an NovaStar Tech Co., Ltd.
101 Block D-F, 01 Square, Xi'an Software Park, No.72, 2nd Keji Road, Xi'an, Shaanxi, China

This report supersedes RSZ180824B1425E which was generated on September 11, 2018.

Report on the submitted samples said to be:

Sample Description : LED Display Controller / Sending Card
Style/ Item No. : MCTRL700/ MSD700
Additional Style/ Item No. : MCTRL700-XX(X=0-9 or A-Z)
Brand : **NOVA STAR**
Sample Receiving Date : August 27, 2018
Testing Period : August 27, 2018 - September 5, 2018
Result : Please refer to next page(s).
Remark : As claimed by the material declaration submitted by the client, the material of Additional Style/ Item No. are the same as the tested Style/ Item No.. But the results only for the tested sample. And the applicant will undertake all differences and risk.

Signed for and on behalf of

BACL

May Chen

Lance Lee

Checked by: _____
May Chen
Engineer

Approved by: _____
Lance Lee
Lab vice-Manager

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Summary of Test Result:

TEST REQUEST

CONCLUSION

RoHS Directive 2011/65/EU and its amendment directives

| | | |
|---|---|-------|
| A | XRF screening test and Wet Chemical Testing (Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs content) | Pass |
| B | Phthalates(DBP, BBP, DEHP, DIBP) content | Pass* |

Pass*=The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

FURNISHED

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Result:

Tested part(s):

- | | |
|---|--|
| (1) Multicolor coated transparent plastic (disk) | (31) Brown plastic (wire jacket of DVI cable) |
| (2) Silvery metal (plug pin of power cable) | (32) Peach plastic (wire jacket of DVI cable) |
| (3) White plastic (plug pin holder of power cable) | (33) Green plastic (wire jacket of DVI cable) |
| (4) Black plastic (plug holder of power cable) | (34) Orange plastic (thick wire jacket of DVI cable) |
| (5) Black plastic (cable jacket of power cable) | (35) Yellow plastic (thick wire jacket of DVI cable) |
| (6) Black plastic (socket holder of power cable) | (36) Blue plastic (wire jacket of DVI cable) |
| (7) White plastic (socket pin holder of power cable) | (37) Black plastic (wire jacket of DVI cable) |
| (8) Blue plastic (wire jacket of power cable) | (38) White plastic (thick wire jacket of DVI cable) |
| (9) Brown plastic (wire jacket of power cable) | (39) Coppery metal (wire of DVI cable) |
| (10) Yellow / green plastic (wire jacket of power cable) | (40) Silvery metal (wire of DVI cable) |
| (11) Coppery metal (wire of power cable) | (41) Black plastic (knob of cross serial cable & parallel serial cable) |
| (12) Black plastic (knob of DVI cable) | (42) Silvery metal (screw of cross serial cable & parallel serial cable) |
| (13) Silvery metal (screw of DVI cable) | (43) Black plastic (plug holder of cross serial cable & parallel serial cable) |
| (14) Black plastic (holder of DVI cable) | (44) Silvery metal (plug holder of cross serial cable & parallel serial cable) |
| (15) Silvery metal (plug holder of DVI cable) | (45) Blue plastic (plug pin holder of cross serial cable & parallel serial cable) |
| (16) Golden metal (plug pin of DVI cable) | (46) Silvery metal (plug pin of cross serial cable & parallel serial cable) |
| (17) Translucent plastic (inner plug holder of DVI cable) | (47) Grey printed black plastic (cable jacket of cross serial cable & parallel serial cable) |
| (18) White paper (adhesive tape of DVI cable) | (48) Green plastic (wire jacket of cross serial cable & parallel serial cable) |
| (19) Coppery metal (foil of DVI cable) | (49) Orange plastic (wire jacket of cross serial cable & parallel serial cable) |
| (20) Grey printed black plastic (cable jacket of DVI cable) | (50) Yellow plastic (wire jacket of cross serial cable & parallel serial cable) |
| (21) Black plastic (core holder of DVI cable) | |
| (22) Black core (core of DVI cable) | |
| (23) Silvery metal (mesh of DVI cable) | |
| (24) Black / silvery metal (foil of DVI cable) | |
| (25) Transparent plastic (film of DVI cable) | |
| (26) Red plastic (thin wire jacket of DVI cable) | |
| (27) Purple plastic (thin wire jacket of DVI cable) | |
| (28) Yellow plastic (thin wire jacket of DVI cable) | |
| (29) Orange plastic (thin wire jacket of DVI cable) | |
| (30) White plastic (thin wire jacket of DVI cable) | |

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- (51) Red plastic (wire jacket of cross serial cable & parallel serial cable)
- (52) Blue plastic (wire jacket of cross serial cable & parallel serial cable)
- (53) Grey plastic (wire jacket of cross serial cable & parallel serial cable)
- (54) Purple plastic (wire jacket of cross serial cable & parallel serial cable)
- (55) Brown plastic (wire jacket of cross serial cable & parallel serial cable)
- (56) Black plastic (wire jacket of cross serial cable & parallel serial cable)
- (57) Silvery metal (wire of cross serial cable & parallel serial cable)
- (58) Silvery metal (foil of cross serial cable & parallel serial cable)
- (59) Golden metal (plug pin of parallel serial cable)
- (60) Black plastic (pad of MCTRL700/MSD700)
- (61) Black / white coated silvery metal (cover of MCTRL700/MSD700)
- (62) Transparent plastic with grey printed black plastic (logo of MCTRL700/MSD700)
- (63) Black printed white paper (sticker of MCTRL700/MSD700)
- (64) Black / red printed silvery plastic (sticker of MCTRL700/MSD700)
- (65) Silvery metal (PCB "E301791" holder of MCTRL700/MSD700)
- (66) Black plastic (pad of PCB "E301791" of MCTRL700/MSD700)
- (67) Bright black plastic (pad of PCB "E301791" of MCTRL700/MSD700)
- (68) Light silvery metal (cover of PCB "E301791" of MCTRL700/MSD700)
- (69) Black plastic (pad of capacitor of PCB "E301791" of MCTRL700/MSD700)
- (70) White printed brown plastic (sleeve of capacitor "C5" of PCB "E301791" of MCTRL700/MSD700)
- (71) Silvery metal (cover of capacitor "C5" of PCB "E301791" of MCTRL700/MSD700)
- (72) Transparent plastic (adhesive tape of capacitor "C5" of PCB "E301791" of MCTRL700/MSD700)
- (73) Brown paper (electrolytic of capacitor "C5" of PCB "E301791" of MCTRL700/MSD700)
- (74) Silvery metal (foil of capacitor "C5" of PCB "E301791" of MCTRL700/MSD700)
- (75) Dark silvery metal (foil of capacitor "C5" of PCB "E301791" of MCTRL700/MSD700)
- (76) Silvery metal (contact plate of capacitor "C5" of PCB "E301791" of MCTRL700/MSD700)
- (77) Black plastic (Base of capacitor "C5" of PCB "E301791" of MCTRL700/MSD700)
- (78) Black body (bridge rectifier of PCB "E301791" of MCTRL700/MSD700)
- (79) Silvery metal (pin of bridge rectifier of PCB "E301791" of MCTRL700/MSD700)
- (80) Black core (loop of bridge rectifier of PCB "E301791" of MCTRL700/MSD700)
- (81) Blue body (capacitor "C3&C4" of PCB "E301791" of MCTRL700/MSD700)
- (82) White plastic (glue of PCB "E301791" of MCTRL700/MSD700)
- (83) Black printed transparent plastic (sticker of transformer "T1" of PCB "E301791" of MCTRL700/MSD700)
- (84) Silvery metal (cover of transformer "T1" of PCB "E301791" of MCTRL700/MSD700)
- (85) Black core (transformer "T1" of PCB "E301791" of MCTRL700/MSD700)
- (86) Black plastic (coil holder of transformer "T1" of PCB "E301791" of MCTRL700/MSD700)
- (87) Copper metal (coil of transformer "T1" of PCB "E301791" of MCTRL700/MSD700)
- (88) Black printed grey plastic (cover of capacitor "C1" of PCB "E301791" of MCTRL700/MSD700)
- (89) Black plastic (base of capacitor "C1" of PCB "E301791" of MCTRL700/MSD700)
- (90) Silvery metal (foil of capacitor "C1" of PCB "E301791" of MCTRL700/MSD700)

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|--|--|
| <ul style="list-style-type: none"> (91) Silvery solder (capacitor "C1" of PCB "E301791" of MCTRL700/MSD700) (92) Brown plastic (cover of fuse "FS1" of PCB "E301791" of MCTRL700/MSD700) (93) Black plastic (base of fuse "FS1" of PCB "E301791" of MCTRL700/MSD700) (94) Silvery metal (wire of fuse "FS1" of PCB "E301791" of MCTRL700/MSD700) (95) White fiber (wire of fuse "FS1" of PCB "E301791" of MCTRL700/MSD700) (96) Silvery metal (contact plate of fuse "FS1" of PCB "E301791" of MCTRL700/MSD700) (97) Green body (thermister of PCB "E301791" of MCTRL700/MSD700) (98) Light blue body (capacitor "C6" of PCB "E301791" of MCTRL700/MSD700) (99) Blue body (capacitor "C16" of PCB "E301791" of MCTRL700/MSD700) (100) Grey printed black plastic (sleeve of thermister of PCB "E301791" of MCTRL700/MSD700) (101) Black printed transparent / coppery body (glass diode "ZD51" of PCB "E301791" of MCTRL700/MSD700) (102) Translucent plastic (SVR1 of PCB "E301791" of MCTRL700/MSD700) (103) Black printed white plastic with coppery metal (SVR1 of PCB "E301791" of MCTRL700/MSD700) (104) Green plastic (LED of PCB "E301791" of MCTRL700/MSD700) (105) Silvery metal (LED of PCB "E301791" of MCTRL700/MSD700) (106) Silvery metal (pin of LED of PCB "E301791" of MCTRL700/MSD700) (107) White printed black plastic (sleeve of capacitor "C71" of PCB "E301791" of MCTRL700/MSD700) (108) Silvery metal (cover of capacitor "C71" of PCB "E301791" of MCTRL700/MSD700) (109) Brown paper (electrolytic of capacitor "C71" of PCB "E301791" of MCTRL700/MSD700) (110) Silvery metal (foil of capacitor "C71" of PCB "E301791" of MCTRL700/MSD700) | <ul style="list-style-type: none"> (111) Black plastic (base of capacitor "C71" of PCB "E301791" of MCTRL700/MSD700) (112) Silvery metal (contact plate of capacitor "C71" of PCB "E301791" of MCTRL700/MSD700) (113) Grey printed black plastic (sleeve of inductor "L51" of PCB "E301791" of MCTRL700/MSD700) (114) Coppery metal (coil of inductor "L51" of PCB "E301791" of MCTRL700/MSD700) (115) Black core (coil holder of inductor "L51" of PCB "E301791" of MCTRL700/MSD700) (116) Black plastic (transistor "D55" of PCB "E301791" of MCTRL700/MSD700) (117) Coppery metal with solder (transistor "D55" of PCB "E301791" of MCTRL700/MSD700) (118) Black core (loop of transistor "D55" of PCB "E301791" of MCTRL700/MSD700) (119) White printed brown plastic (sleeve of capacitor "C56&C57" of PCB "E301791" of MCTRL700/MSD700) (120) Silvery metal (cover of capacitor "C56 & C57" of PCB "E301791" of MCTRL700/MSD700) (121) Transparent plastic (adhesive tape of capacitor "C56 & C57" of PCB "E301791" of MCTRL700/MSD700) (122) Brown paper (electrolytic of capacitor "C56 & C57" of PCB "E301791" of MCTRL700/MSD700) (123) Silvery metal (foil of capacitor "C56 & C57" of PCB "E301791" of MCTRL700/MSD700) (124) Dark silvery metal (foil of capacitor "C56 & C57" of PCB "E301791" of MCTRL700/MSD700) (125) Silvery metal (contact plate of capacitor "C56 & C57" of PCB "E301791" of MCTRL700/MSD700) (126) Black plastic (base of capacitor "C56 & C57" of PCB "E301791" of MCTRL700/MSD700) (127) White printed brown plastic (sleeve of capacitor "C60" of PCB "E301791" of MCTRL700/MSD700) (128) Silvery metal (cover of capacitor "C60" of PCB "E301791" of MCTRL700/MSD700) (129) Brown paper (electrolytic of capacitor "C60" of PCB "E301791" of MCTRL700/MSD700) (130) Silvery metal (foil of capacitor "C60" of PCB "E301791" of MCTRL700/MSD700) |
|--|--|

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- (131) Silvery metal (jumper wire of PCB "E301791" of MCTRL700/MSD700)
- (132) Black printed white paper (sticker of transformer "LF1" of PCB "E301791" of MCTRL700/MSD700)
- (133) Yellow plastic (adhesive tape of transformer "LF1" of PCB "E301791" of MCTRL700/MSD700)
- (134) Black core (core of transformer "LF1" of PCB "E301791" of MCTRL700/MSD700)
- (135) Black plastic (coil holder of transformer "LF1" of PCB "E301791" of MCTRL700/MSD700)
- (136) Translucent plastic (tube of transformer "LF1" of PCB "E301791" of MCTRL700/MSD700)
- (137) Coppery metal (thick coil of transformer "LF1" of PCB "E301791" of MCTRL700/MSD700)
- (138) Coppery metal (thin coil of transformer "LF1" of PCB "E301791" of MCTRL700/MSD700)
- (139) Black body (IC "U2" of PCB "E301791" of MCTRL700/MSD700)
- (140) Black body (diode "ZD1" of PCB "E301791" of MCTRL700/MSD700)
- (141) Silvery metal (pin of diode "ZD1" of PCB "E301791" of MCTRL700/MSD700)
- (142) White ceramic (loop of diode "ZD1" of PCB "E301791" of MCTRL700/MSD700)
- (143) Black body (diode "D1" of PCB "E301791" of MCTRL700/MSD700)
- (144) Silvery metal (pin of diode "D1" of PCB "E301791" of MCTRL700/MSD700)
- (145) Black plastic (transistor "Q1" of PCB "E301791" of MCTRL700/MSD700)
- (146) Coppery metal with solder (transistor "Q1" of PCB "E301791" of MCTRL700/MSD700)
- (147) Black body (SMD diode of PCB "E301791" of MCTRL700/MSD700)
- (148) Black body (IC "U1" of PCB "E301791" of MCTRL700/MSD700)
- (149) Black body (SMD transistor of PCB "E301791" of MCTRL700/MSD700)
- (150) Black / white body (SMD resistor of PCB "E301791" of MCTRL700/MSD700)
- (151) Brown body (SMD capacitor of PCB "E301791" of MCTRL700/MSD700)
- (152) Black printed green coated brown plastic with coppery metal (PCB "E301791" of MCTRL700/MSD700)
- (153) Silvery solder (PCB "E301791" of MCTRL700/MSD700)
- (154) Silvery metal (transformer holder of PCB "E301791" of MCTRL700/MSD700)
- (155) Black plastic (connector of main PCB of MCTRL700/MSD700)
- (156) Silvery metal (pin of connector of main PCB of MCTRL700/MSD700)
- (157) White plastic (connector of main PCB of MCTRL700/MSD700)
- (158) White printed black plastic (cover of transformer "T1-T4" of main PCB of MCTRL700/MSD700)
- (159) Red / blue plated coppery metal with black core (transformer "T1-T4" of main PCB of MCTRL700/MSD700)
- (160) Black body (IC "U23" of main PCB of MCTRL700/MSD700)
- (161) Silvery body (SMD crystal "X1-X5,X7" of main PCB of MCTRL700/MSD700)
- (162) Black body (IC "U11 & U18 & U35" of main PCB of MCTRL700/MSD700)
- (163) Black / coppery body (SMD inductor of main PCB of MCTRL700/MSD700)
- (164) Black body (IC "U2,U4,U5-U8" of main PCB of MCTRL700/MSD700)
- (165) Black printed silvery plastic (sticker of main PCB of MCTRL700/MSD700)
- (166) Black body (IC "P1" of main PCB of MCTRL700/MSD700)
- (167) Black body (IC "U25 , U26" of main PCB of MCTRL700/MSD700)
- (168) Black body (SMD transistor "U14,U39" of main PCB of MCTRL700/MSD700)
- (169) Black body (IC "U12" of main PCB of MCTRL700/MSD700)
- (170) Black body (IC "U19" of main PCB of MCTRL700/MSD700)

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- | | |
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| (171) Black body (SMD transistor "U40" of main PCB of MCTRL700/MSD700) | (190) Silvery metal (cover of HD socket of main PCB of MCTRL700/MSD700) |
| (172) Black body (SMD diode of main PCB of MCTRL700/MSD700) | (191) Black plastic (pin holder of HD socket of main PCB of MCTRL700/MSD700) |
| (173) Black / white body (SMD resistor of main PCB of MCTRL700/MSD700) | (192) Silvery metal (pin of HD socket of main PCB of MCTRL700/MSD700) |
| (174) Brown body (SMD capacitor of main PCB of MCTRL700/MSD700) | (193) Silvery metal (cover of USB socket of main PCB of MCTRL700/MSD700) |
| (175) White printed blue coated brown plastic with coppery metal (main PCB of MCTRL700/MSD700) | (194) White plastic (pin holder of USB socket of main PCB of MCTRL700/MSD700) |
| (176) Silvery solder (main PCB of MCTRL700/MSD700) | (195) Golden metal (pin of USB socket of main PCB of MCTRL700/MSD700) |
| (177) Silvery metal (cover of internet access of main PCB of MCTRL700/MSD700) | (196) Black plastic (cover of audio socket of main PCB of MCTRL700/MSD700) |
| (178) Black plastic (pin holder of internet access of main PCB of MCTRL700/MSD700) | (197) Silvery metal (loop of audio socket of main PCB of MCTRL700/MSD700) |
| (179) Silvery metal (pin of internet access of main PCB of MCTRL700/MSD700) | (198) Silvery metal (contact plate of audio socket of main PCB of MCTRL700/MSD700) |
| (180) White plastic (socket of small PCB of main PCB of MCTRL700/MSD700) | (199) Silvery metal (VGA socket of main PCB of MCTRL700/MSD700) |
| (181) Silvery metal (socket of small PCB of main PCB of MCTRL700/MSD700) | (200) Black plastic (pin holder of VGA socket of main PCB of MCTRL700/MSD700) |
| (182) Silvery metal (pin of socket of small PCB of main PCB of MCTRL700/MSD700) | (201) Silvery metal (pin of VGA socket of main PCB of MCTRL700/MSD700) |
| (183) Golden metal (pin of socket of small PCB of main PCB of MCTRL700/MSD700) | (202) Translucent plastic (wrapper of wire jacket of MCTRL700/MSD700) |
| (184) Silvery metal (nut of socket of small PCB of main PCB of MCTRL700/MSD700) | (203) Brown plastic (wire jacket of MCTRL700/MSD700) |
| (185) Black plastic (pin holder of small PCB of main PCB of MCTRL700/MSD700) | (204) Blue plastic (wire jacket of MCTRL700/MSD700) |
| (186) Golden metal (pin of small PCB of main PCB of MCTRL700/MSD700) | (205) Red plastic (wire jacket of MCTRL700/MSD700) |
| (187) Golden metal (stick of small PCB of main PCB of MCTRL700/MSD700) | (206) Black plastic (wire jacket of MCTRL700/MSD700) |
| (188) White printed blue coated brown plastic with coppery metal (small PCB of main PCB of MCTRL700/MSD700) | (207) Coppery metal (wire of MCTRL700/MSD700) |
| (189) Silvery solder (small PCB of main PCB of MCTRL700/MSD700) | (208) Yellow plastic (wire jacket of MCTRL700/MSD700) |
| | (209) Dark red plastic (sleeve of wire jacket of MCTRL700/MSD700) |
| | (210) Blue plastic (sleeve of wire jacket of MCTRL700/MSD700) |

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- (211) Silvery metal (contact plate of wire jacket of MCTRL700/MSD700)
- (212) Red plastic (glue of MCTRL700/MSD700)
- (213) White plastic (plug of MCTRL700/MSD700)
- (214) Silvery metal (terminal of plug of MCTRL700/MSD700)
- (215) Pink printed white plastic (wire jacket of MCTRL700/MSD700)
- (216) Green plastic (LED of MCTRL700/MSD700)
- (217) Silvery metal (green LED of MCTRL700/MSD700)
- (218) Red plastic (LED of MCTRL700/MSD700)
- (219) Silvery metal (red LED of MCTRL700/MSD700)
- (220) Translucent plastic (glue of switch of MCTRL700/MSD700)
- (221) White printed black plastic (cover of switch of MCTRL700/MSD700)
- (222) Silvery metal (contact plate of switch of MCTRL700/MSD700)
- (223) Silvery metal (contact point of switch of MCTRL700/MSD700)
- (224) Black plastic (power socket of MCTRL700/MSD700)
- (225) Silvery metal (pin of power socket of MCTRL700/MSD700)
- (226) Silvery solder (pin of power socket of MCTRL700/MSD700)
- (227) Black plated silvery metal (big screw of MCTRL700/MSD700)
- (228) Black plated silvery metal (small screw of MCTRL700/MSD700)
- (229) Silvery metal (small screw of MCTRL700/MSD700)
- (230) Silvery metal (big screw of MCTRL700/MSD700)
- (231) Silvery metal (washer of screw of MCTRL700/MSD700))
- (232) Silvery metal (ring of screw of MCTRL700/MSD700)
- (233) Silvery metal (nut of MCTRL700/MSD700)

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RoHS Directive 2011/65/EU & 2015/863/EU and its amendment directives

A. XRF screening test

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

| Seq. No. | Result | | | | |
|----------|--------|----|----|----|----|
| | Pb | Cd | Hg | Cr | Br |
| (1) | BL | BL | BL | BL | BL |
| (2) | BL | BL | BL | BL | -- |
| (3) | BL | BL | BL | BL | BL |
| (4) | BL | BL | BL | BL | BL |
| (5) | BL | BL | BL | BL | BL |
| (6) | BL | BL | BL | BL | BL |
| (7) | BL | BL | BL | BL | BL |
| (8) | BL | BL | BL | BL | BL |
| (9) | BL | BL | BL | BL | BL |
| (10) | BL | BL | BL | BL | BL |
| (11) | BL | BL | BL | BL | -- |
| (12) | BL | BL | BL | BL | BL |
| (13) | BL | BL | BL | BL | -- |
| (14) | BL | BL | BL | BL | BL |
| (15) | BL | BL | BL | BL | -- |
| (16) | BL | BL | BL | BL | -- |
| (17) | BL | BL | BL | BL | BL |
| (18) | BL | BL | BL | BL | BL |
| (19) | BL | BL | BL | BL | -- |
| (20) | BL | BL | BL | BL | BL |

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| Seq. No. | Result | | | | |
|----------|--------|----|----|----|----|
| | Pb | Cd | Hg | Cr | Br |
| (21) | BL | BL | BL | BL | BL |
| (22) | BL | BL | BL | BL | BL |
| (23) | BL | BL | BL | BL | -- |
| (24) | BL | BL | BL | BL | -- |
| (25) | BL | BL | BL | BL | BL |
| (26) | BL | BL | BL | BL | BL |
| (27) | BL | BL | BL | BL | BL |
| (28) | BL | BL | BL | BL | BL |
| (29) | BL | BL | BL | BL | BL |
| (30) | BL | BL | BL | BL | BL |
| (31) | BL | BL | BL | BL | BL |
| (32) | BL | BL | BL | BL | BL |
| (33) | BL | BL | BL | BL | BL |
| (34) | BL | BL | BL | BL | BL |
| (35) | BL | BL | BL | BL | BL |
| (36) | BL | BL | BL | BL | BL |
| (37) | BL | BL | BL | BL | BL |
| (38) | BL | BL | BL | BL | BL |
| (39) | BL | BL | BL | BL | -- |
| (40) | BL | BL | BL | BL | -- |

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| Seq. No. | Result | | | | |
|----------|--------|----|----|----|----|
| | Pb | Cd | Hg | Cr | Br |
| (41) | BL | BL | BL | BL | BL |
| (42) | BL | BL | BL | BL | -- |
| (43) | BL | BL | BL | BL | BL |
| (44) | BL | BL | BL | BL | -- |
| (45) | BL | BL | BL | BL | BL |
| (46) | BL | BL | BL | BL | -- |
| (47) | BL | BL | BL | BL | BL |
| (48) | BL | BL | BL | BL | BL |
| (49) | BL | BL | BL | BL | BL |
| (50) | BL | BL | BL | BL | BL |
| (51) | BL | BL | BL | BL | BL |
| (52) | BL | BL | BL | BL | BL |
| (53) | BL | BL | BL | BL | BL |
| (54) | BL | BL | BL | BL | BL |
| (55) | BL | BL | BL | BL | BL |
| (56) | BL | BL | BL | BL | BL |
| (57) | BL | BL | BL | BL | -- |
| (58) | BL | BL | BL | BL | -- |
| (59) | BL | BL | BL | BL | -- |
| (60) | BL | BL | BL | BL | BL |

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| Seq. No. | Result | | | | |
|----------|--------|----|----|----|----|
| | Pb | Cd | Hg | Cr | Br |
| (61) | BL | BL | BL | BL | -- |
| (62) | BL | BL | BL | BL | BL |
| (63) | BL | BL | BL | BL | BL |
| (64) | BL | BL | BL | BL | BL |
| (65) | BL | BL | BL | BL | -- |
| (66) | BL | BL | BL | BL | BL |
| (67) | BL | BL | BL | BL | BL |
| (68) | BL | BL | BL | BL | -- |
| (69) | BL | BL | BL | BL | BL |
| (70) | BL | BL | BL | BL | BL |
| (71) | BL | BL | BL | BL | -- |
| (72) | BL | BL | BL | BL | BL |
| (73) | BL | BL | BL | BL | BL |
| (74) | BL | BL | BL | BL | -- |
| (75) | BL | BL | BL | BL | -- |
| (76) | BL | BL | BL | BL | -- |
| (77) | BL | BL | BL | BL | BL |
| (78) | BL | BL | BL | BL | BL |
| (79) | BL | BL | BL | BL | -- |
| (80) | BL | BL | BL | BL | BL |

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| Seq. No. | Result | | | | |
|----------|--------|----|----|----|----|
| | Pb | Cd | Hg | Cr | Br |
| (81) | BL | BL | BL | BL | BL |
| (82) | BL | BL | BL | BL | BL |
| (83) | BL | BL | BL | BL | BL |
| (84) | BL | BL | BL | BL | -- |
| (85) | BL | BL | BL | BL | BL |
| (86) | BL | BL | BL | BL | BL |
| (87) | BL | BL | BL | BL | -- |
| (88) | BL | BL | BL | BL | BL |
| (89) | BL | BL | BL | BL | BL |
| (90) | BL | BL | BL | BL | -- |
| (91) | BL | BL | BL | BL | -- |
| (92) | BL | BL | BL | BL | BL |
| (93) | BL | BL | BL | BL | BL |
| (94) | BL | BL | BL | BL | -- |
| (95) | BL | BL | BL | BL | BL |
| (96) | BL | BL | BL | BL | -- |
| (97) | BL | BL | BL | BL | BL |
| (98) | BL | BL | BL | BL | BL |
| (99) | BL | BL | BL | BL | BL |
| (100) | BL | BL | BL | BL | BL |

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| Seq. No. | Result | | | | |
|---------------------|--------|----|----|----|----|
| | Pb | Cd | Hg | Cr | Br |
| (101)* ¹ | OL | BL | BL | BL | -- |
| (102) | BL | BL | BL | BL | BL |
| (103) | BL | BL | BL | BL | BL |
| (104) | BL | BL | BL | BL | BL |
| (105) | BL | BL | BL | BL | -- |
| (106) | BL | BL | BL | BL | -- |
| (107) | BL | BL | BL | BL | BL |
| (108) | BL | BL | BL | BL | -- |
| (109) | BL | BL | BL | BL | BL |
| (110) | BL | BL | BL | BL | -- |
| (111) | BL | BL | BL | BL | BL |
| (112) | BL | BL | BL | BL | -- |
| (113) | BL | BL | BL | BL | BL |
| (114) | BL | BL | BL | BL | -- |
| (115) | BL | BL | BL | BL | BL |
| (116) | BL | BL | BL | BL | BL |
| (117)* ³ | OL | BL | BL | BL | -- |
| (118) | BL | BL | BL | BL | BL |
| (119) | BL | BL | BL | BL | BL |
| (120) | BL | BL | BL | BL | -- |

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| Seq. No. | Result | | | | |
|----------|--------|----|----|----|----|
| | Pb | Cd | Hg | Cr | Br |
| (121) | BL | BL | BL | BL | BL |
| (122) | BL | BL | BL | BL | BL |
| (123) | BL | BL | BL | BL | -- |
| (124) | BL | BL | BL | BL | -- |
| (125) | BL | BL | BL | BL | -- |
| (126) | BL | BL | BL | BL | BL |
| (127) | BL | BL | BL | BL | BL |
| (128) | BL | BL | BL | BL | -- |
| (129) | BL | BL | BL | BL | BL |
| (130) | BL | BL | BL | BL | -- |
| (131) | BL | BL | BL | BL | -- |
| (132) | BL | BL | BL | BL | BL |
| (133) | BL | BL | BL | BL | BL |
| (134) | BL | BL | BL | BL | BL |
| (135) | BL | BL | BL | BL | BL |
| (136) | BL | BL | BL | BL | BL |
| (137) | BL | BL | BL | BL | -- |
| (138) | BL | BL | BL | BL | -- |
| (139) | BL | BL | BL | BL | BL |
| (140) | BL | BL | BL | BL | BL |

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| Seq. No. | Result | | | | |
|----------|--------|----|----|----|----|
| | Pb | Cd | Hg | Cr | Br |
| (141) | BL | BL | BL | BL | -- |
| (142) | BL | BL | BL | BL | -- |
| (143) | BL | BL | BL | BL | BL |
| (144) | BL | BL | BL | BL | -- |
| (145) | BL | BL | BL | BL | BL |
| (146) | BL | BL | BL | BL | -- |
| (147) | BL | BL | BL | BL | BL |
| (148) | BL | BL | BL | BL | BL |
| (149) | BL | BL | BL | BL | BL |
| (150) | BL | BL | BL | BL | BL |
| (151) | BL | BL | BL | BL | BL |
| (152) | BL | BL | BL | BL | BL |
| (153) | BL | BL | BL | BL | -- |
| (154) | BL | BL | BL | BL | -- |
| (155) | BL | BL | BL | BL | BL |
| (156) | BL | BL | BL | BL | -- |
| (157) | BL | BL | BL | BL | BL |
| (158) | BL | BL | BL | BL | BL |
| (159) | BL | BL | BL | BL | -- |
| (160) | BL | BL | BL | BL | BL |

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| Seq. No. | Result | | | | |
|----------|--------|----|----|----|----|
| | Pb | Cd | Hg | Cr | Br |
| (161) | BL | BL | BL | BL | BL |
| (162) | BL | BL | BL | BL | BL |
| (163) | BL | BL | BL | BL | BL |
| (164) | BL | BL | BL | BL | BL |
| (165) | BL | BL | BL | BL | BL |
| (166) | BL | BL | BL | BL | BL |
| (167) | BL | BL | BL | BL | BL |
| (168) | BL | BL | BL | BL | BL |
| (169) | BL | BL | BL | BL | BL |
| (170) | BL | BL | BL | BL | BL |
| (171) | BL | BL | BL | BL | BL |
| (172) | BL | BL | BL | BL | BL |
| (173) | BL | BL | BL | BL | BL |
| (174) | BL | BL | BL | BL | BL |
| (175) | BL | BL | BL | BL | BL |
| (176) | BL | BL | BL | BL | -- |
| (177) | BL | BL | BL | BL | -- |
| (178) | BL | BL | BL | BL | BL |
| (179) | BL | BL | BL | BL | -- |
| (180) | BL | BL | BL | BL | BL |

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| Seq. No. | Result | | | | |
|---------------------|--------|----|----|----|----|
| | Pb | Cd | Hg | Cr | Br |
| (181) | BL | BL | BL | BL | -- |
| (182) | BL | BL | BL | BL | -- |
| (183) | BL | BL | BL | BL | -- |
| (184) | BL | BL | BL | BL | -- |
| (185) | BL | BL | BL | BL | BL |
| (186) | BL | BL | BL | BL | -- |
| (187)* ² | OL | BL | BL | BL | -- |
| (188) | BL | BL | BL | BL | BL |
| (189) | BL | BL | BL | BL | -- |
| (190) | BL | BL | BL | BL | -- |
| (191) | BL | BL | BL | BL | BL |
| (192) | BL | BL | BL | BL | -- |
| (193) | BL | BL | BL | BL | -- |
| (194) | BL | BL | BL | BL | BL |
| (195) | BL | BL | BL | BL | -- |
| (196) | BL | BL | BL | BL | BL |
| (197) | BL | BL | BL | BL | -- |
| (198) | BL | BL | BL | BL | -- |
| (199) | BL | BL | BL | BL | -- |
| (200) | BL | BL | BL | BL | BL |

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| Seq. No. | Result | | | | |
|----------|--------|----|----|----|----|
| | Pb | Cd | Hg | Cr | Br |
| (201) | BL | BL | BL | BL | -- |
| (202) | BL | BL | BL | BL | BL |
| (203) | BL | BL | BL | BL | BL |
| (204) | BL | BL | BL | BL | BL |
| (205) | BL | BL | BL | BL | BL |
| (206) | BL | BL | BL | BL | BL |
| (207) | BL | BL | BL | BL | -- |
| (208) | BL | BL | BL | BL | BL |
| (209) | BL | BL | BL | BL | BL |
| (210) | BL | BL | BL | BL | BL |
| (211) | BL | BL | BL | BL | -- |
| (212) | BL | BL | BL | BL | BL |
| (213) | BL | BL | BL | BL | BL |
| (214) | BL | BL | BL | BL | -- |
| (215) | BL | BL | BL | BL | BL |
| (216) | BL | BL | BL | BL | BL |
| (217) | BL | BL | BL | BL | -- |
| (218) | BL | BL | BL | BL | BL |
| (219) | BL | BL | BL | BL | -- |
| (220) | BL | BL | BL | BL | BL |

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| Seq. No. | Result | | | | |
|---------------------|--------|----|----|----|----|
| | Pb | Cd | Hg | Cr | Br |
| (221) | BL | BL | BL | BL | BL |
| (222) | BL | BL | BL | BL | -- |
| (223) | BL | BL | BL | BL | -- |
| (224) | BL | BL | BL | BL | BL |
| (225) | BL | BL | BL | BL | -- |
| (226) | BL | BL | BL | BL | -- |
| (227)* ² | OL | BL | BL | BL | -- |
| (228) | BL | BL | BL | BL | -- |
| (229) | BL | BL | BL | BL | -- |
| (230) | BL | BL | BL | BL | -- |
| (231) | BL | BL | BL | BL | -- |
| (232) | BL | BL | BL | BL | -- |
| (233) | BL | BL | BL | BL | -- |

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Note:

- = Not Applicable
- *1 = As claimed by the material declaration submitted by the client, the materials of the sample No.101 is glass of electronic components.. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.
- *2 = As claimed by the material declaration submitted by the client, the materials of the sample No.187, 227 are copper alloy. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.
- *3 = As claimed by the material declaration submitted by the client, the materials of the sample No.117 is high melting temperature type solders. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

Remark:

- i Result 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 | BL≤50-3σ<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 |

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Note:

- BL = Below Limit
- OL = Over Limit
- IN / X = Inconclusive (questionable, need further chemical analysis)

- ii The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from the 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 |
| Polybrominated diphenylethers (PBDEs) | 1000 |

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.

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B. Phthalates(DBP、BBP、DEHP、DIBP)content

Test method: With reference to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

| Item | Unit | MDL | Result | | | | | | Limit | |
|-------------------------------------|-------|-----|---------------------|---------------------|----------------------|------------------------|------------------------|------------------------|-------------|------|
| | | | (1) +(3) +(4) | (5) +(6) +(7) | (8) +(9) +(10) | (12) +(14) +(17) | (20) +(21) +(25) | (26) +(27) +(28) | | |
| Dibutyl Phthalate (DBP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Benzylbutyl Phthalate (BBP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Diisobutyl Phthalate (DIBP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Conclusion | / | / | Pass | Pass | Pass | Pass | Pass | Pass | Pass | / |

| Item | Unit | MDL | Result | | | | | | Limit | |
|-------------------------------------|-------|-----|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------|------|
| | | | (29) +(30) +(31) | (32) +(33) +(34) | (35) +(36) +(37) | (38) +(41) +(43) | (45) +(47) +(48) | (49) +(50) +(51) | | |
| Dibutyl Phthalate (DBP) | mg/kg | 30 | <30 | 74 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Benzylbutyl Phthalate (BBP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Diisobutyl Phthalate (DIBP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Conclusion | / | / | Pass | Pass | Pass | Pass | Pass | Pass | Pass | / |

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| Item | Unit | MDL | Result | | | | | | Limit |
|-------------------------------------|----------|----------|------------------------|------------------------|-------------|------------------------|------------------------|-------------------------|----------|
| | | | (52) +(53) +(54) | (55) +(56) +(60) | (61) | (62) +(64) +(66) | (67) +(69) +(70) | (77) +(82) +(100) | |
| Dibutyl Phthalate (DBP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Benzylbutyl Phthalate (BBP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Diisobutyl Phthalate (DIBP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Conclusion | / | / | Pass | Pass | Pass | Pass | Pass | Pass | / |

| Item | Unit | MDL | Result | | | | | Limit |
|-------------------------------------|----------|----------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------|
| | | | (102) +(104) +(113) | (133) +(135) +(155) | (157) +(178) +(180) | (191) +(194) +(196) | (200) +(202) +(203) | |
| Dibutyl Phthalate (DBP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Benzylbutyl Phthalate (BBP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Diisobutyl Phthalate (DIBP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Conclusion | / | / | Pass | Pass | Pass | Pass | Pass | / |

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| Item | Unit | MDL | Result | | | | | Limit |
|-------------------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|-----------------|-------|
| | | | (204) +(205) +(206) | (208) +(209) +(210) | (212) +(213) +(215) | (216) +(218) +(220) | (221) +(224) | |
| Dibutyl Phthalate (DBP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Benzylbutyl Phthalate (BBP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Diisobutyl Phthalate (DIBP) | mg/kg | 30 | <30 | <30 | <30 | <30 | <30 | 1000 |
| Conclusion | / | / | Pass | Pass | Pass | Pass | Pass | / |

Note:

- < = Less than
- MDL = Method Detection Limit
- "+" = Composite testing.
- Photo appendix is included.

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Appendix

Photograph of Sample



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Photograph of Sample



BACL authenticate the photo on original report only

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