TCT通测检测 Test Report

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|----------------------------------|-------------------------|-------------------|-------------------|---|----------------|
| Applicant: | LINKCOM MAN | | CO.,LTD | | |
| Address: | | | | Dongguan Guangd | long Sheng |
| | China | | | | |
| The following sample v | was submitted an | d identified by/ | on behalf of th | ne client as: | |
| Sample Name: | wireless chargi | ng pad | | | |
| Model No.: | OPP130 | | | | |
| Client Reference Information: | OPP002 | | | | |
| Sample Received Date: | 2023.05.08 | | | | |
| Testing Period: | 2023.05.08—20 | | | (\mathcal{C}) | (\mathbf{c}) |
| Test Requested: | | | - | etermine the Pb, Cd, ntent of the parts. | Hg, Cr(VI), |
| Test Method: | 1. Sample Sci | eening testing w | vith reference to | DIEC 62321-3-1:201 | 3 |
| | 2. Chemical T | est Method | | | |
| | a. Determi | , nation of Lead | Cadmium by IC | P-OES with referenc | e to |
| | IEC 62321 | -5:2013 | | | |
| | b. Determi | nation of Mercur | ry by ICP-OES | with reference to IEC | |
| | 62321-4:2 | 013+AMD1:2017 | 7 | | |
| | c. Determi | nation of Hexava | alent Chromium | by Colorimetric met | hod using |
| | UV-Vis refe | erence to IEC 62 | 2321-7-1:2015, | IEC 62321-7-2:2017 | |
| | d. Determi 62321-6:2 | | and PBDEs by | GC-MS with reference | e to IEC |
| | e. Determi | nation of DBP, B | BP, DEHP and | DIBP by GC-MS with | h reference |
| | to IEC 623 | 21-8:2017 | | | |
| Test Result(s): | Please refer to | the following pag | ge(s). | | |
| Conclusion: | Base upon the | performed tests | s by submitted | sample, the test res | ults comply |
| | with the limits | as set by Direct | tive (EU) 2015/ | 863 - Amendment o | f EU RoHS |
| | Directive 2011/ | 65/EU Annex II. | | | |
| | | | | | |
| Checked by | | | | Approved by | |
| Fang | | | S \$10 | un Zhang | TESTING TECH |
| Fang | | | | Ryan Zhang | |
| | | | Те | chnical Manager | Tails of |
| | | | | | |



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Test Result(s)

| Part No. | Part Description | Restricted Substances | . (1 5 1) | esult of DXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|----------|-------------------------------|--------------------------|----------------------|----------------------|---|-----------------------|
| | | Pb | | BL | | Comply |
| | | Cd | | BL | | Comply |
| | | Hg | | BL | | Comply |
| | | Cr(VI) | | BL | | Comply |
| | Black soft | PBBs | | BL | | Comply |
| | plastic | PBDEs | | BL | | Comply |
| | | DBP | | 🔨 | N.D. | Comply |
| | K ^C) | BBP | | (0) | N.D. | Comply |
| | | DEHP | | | N.D. | Comply |
| | | DIBP | | | N.D. | Comply |
| | $\langle \mathcal{O} \rangle$ | Pb | $(\mathbf{\hat{o}})$ | BL | | Comply |
| | | Cd | | BL | | Comply |
| | <u></u> | Hg | | BL | | Comply |
| | $\langle \mathcal{G} \rangle$ | Cr(VI) | | BL | | Comply |
| 0 | Black plastic | PBBs | | BL | | Comply |
| 2 | shell | PBDEs | | BL | | Comply |
| | (\mathbf{c}) | DBP | () | | N.D. | Comply |
| | | BBP | | | N.D. | Comply |
| | | DEHP | | | N.D. | Comply |
| | | DIBP | | (5 | N.D. | Comply |
| | | Pb | | BL | | Comply |
| | | Cd | | BL | | Comply |
| | | Hg | | BL | | Comply |
| | | Cr(VI) | | BL | | Comply |
| 0 | Black soft | PBBs | | BL | | Comply |
| 3 | plastic | PBDEs | | BL | | Comply |
| | | DBP | | 8 | N.D. | Comply |
| | | BBP | | | N.D. | Comply |
| | | DEHP | | | N.D. | Comply |
| | | DIBP | | | N.D. | Comply |



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| Part No. | Part Description | Restricted Substances | and the second s | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|-------------------------------|--------------------------------------|--------------------------|--|------------------------|--|-----------------------|
| | | Pb | | BL | | Comply |
| | | Cd | | BL | | Comply |
| | | Hg | | BL | //· | Comply |
| $\langle \mathcal{G} \rangle$ | | Cr(VI) | | BL | $\left(\underline{C}\right)$ | Comply |
| | Black plastic | PBBs | 1 | BL | | Comply |
| 4 | shell | PBDEs | | BL | | Comply |
| | $\left(\mathcal{G} \right)$ | DBP | | | N.D. | Comply |
| | | BBP | | | N.D. | Comply |
| | | DEHP | | | N.D. | Comply |
| $\langle \mathcal{C} \rangle$ | | DIBP | (| cí) | N.D. | Comply |
| | | Pb | | BL | | Comply |
| | | Cd | | BL | | Comply |
| | $\left(\mathcal{C}^{\prime}\right)$ | Hg | | BL |) | Comply |
| | | Cr(VI) | | BL | | Comply |
| | Silvery color | PBBs | | | | NA |
| 5 | metal screw | PBDEs | 6 | ~) | $\left(\begin{array}{c} \\ \end{array} \right)$ | NA |
| | | DBP | | J | | NA |
| | | BBP | | | | NA |
| | | DEHP | | ((|) | NA |
| | | DIBP | | | | NA |
| | | Pb | | BL | | Comply |
| (\mathbf{c}) | | Cd | (| BL | | Comply |
| | | Hg | N. | BL | | Comply |
| | | Cr(VI) | | BL | | Comply |
| 6 | Silvery color | PBBs | | 6 | | NA |
| Ö | metal | PBDEs | | 8 | | NA |
| | | DBP | | | | NA |
| | | BBP | (| | | NA |
| | | DEHP | Ň | 9 | | NA |
| | | DIBP | | | | NA |



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| Part No. | Part Description | Restricted Substances | | Result DXRF | _ | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|-------------------------------|-------------------------------|--------------------------|----|----------------|------------------------------|---|-----------------------|
| | | Pb | | BL | $\left(\circ \right)$ | | Comply |
| | | Cd | | BL | | | Comply |
| | | Hg | _ | BL | | //- | Comply |
| $\langle \mathcal{G} \rangle$ | | Cr(VI) | | BL | | $\left(\underline{c}\right)$ | Comply |
| | Yellow plastic | PBBs | | BL | | | Comply |
| 7 | tape | PBDEs | | BL | | | Comply |
| | (C) | DBP | | | $\left(\cdot \cdot \right)$ | N.D. | Comply |
| | | BBP | | | | N.D. | Comply |
| | | DEHP | | | | N.D. | Comply |
| $\langle \mathcal{C} \rangle$ | | DIBP | | | | N.D. | Comply |
| | | Pb | | BL | | | Comply |
| | | Cd | | BL | | | Comply |
| | $\langle \mathcal{C} \rangle$ | Hg | | BL | | | Comply |
| | | Cr(VI) | | BL | | | Comply |
| | Grey magnet | PBBs | | BL | | | Comply |
| 8 | core | PBDEs | | BL | | $\left(- \right)$ | Comply |
| | | DBP | Ý | | | N.D. | Comply |
| | | BBP | | | | N.D. | Comply |
| | | DEHP | | | | N.D. | Comply |
| | | DIBP | | | | N.D. | Comply |
| | | Pb | | BL | | | Comply |
| (\mathbf{c}) | | Cd | | BL | | () | Comply |
| | | Hg | | BL | | | Comply |
| | | Cr(VI) | | BL | | | Comply |
| 0 | White textile | PBBs | | BL | 6 | | Comply |
| 9 | thread | PBDEs | | BL | No. | | Comply |
| | | DBP | | | | N.D. | Comply |
| | | BBP | | | | N.D. | Comply |
| No. | | DEHP | KY | | | 120 | Comply |
| | | DIBP | | | | N.D. | Comply |



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| Part No. | Part Description | Restricted Substances | No. | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|----------------|---------------------|--------------------------|-----|------------------------|---|-----------------------|
| | | Pb | | BL |) | Comply |
| | | Cd | | BL | | Comply |
| | | Hg | | BL | | Comply |
| (\mathbf{G}) | | Cr(VI) | 6 | BL | (\underline{c}) | Comply |
| | White | PBBs | | BL | | Comply |
| 10 | double-side | PBDEs | | BL | | Comply |
| | tape | DBP | | | N.D. | Comply |
| | | BBP | | | N.D. | Comply |
| | | DEHP | | | 100 | Comply |
| (\mathbf{G}) | (C) | DIBP | | c) | N.D. | Comply |
| | | Pb | | BL | | Comply |
| | | Cd | | BL | | Comply |
| | | Hg | | BL |) | Comply |
| | | Cr(VI) | | BL | | Comply |
| | Copper color | PBBs | | | | NA |
| 11 | enamelled wire | PBDEs | 6 | ~) | (- c) | NA |
| | | DBP | 0 | <u> </u> | <u> </u> | NA |
| | | BBP | | | | NA |
| | | DEHP | | (6 | | NA |
| | | DIBP | | | | NA |
| | | Pb | | BL | | Comply |
| | | Cd | (| BL | | Comply |
| | | Hg | Ň | BL | | Comply |
| | | Cr(VI) | | BL | | Comply |
| 10 | White textile | PBBs | | BL | | Comply |
| 12 | tape | PBDEs | | BL | | Comply |
| | | DBP | | | N.D. | Comply |
| | | BBP | (| (N | N.D. | Comply |
| No. | | DEHP | N | 9 | N.D. | Comply |
| | | DIBP | | | N.D. | Comply |



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| Part No. | Part Description | Restricted Substances | | Resulf DXRF | | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|--|-------------------------------|--------------------------|-----|----------------|---------------------------------------|---|-----------------------|
| | | Pb | | BL | 5 | | Comply |
| | | Cd | | BL | | | Comply |
| | | Hg | ~~~ | BL | | | Comply |
| | | Cr(VI) | | BL | | $\left(\underline{\mathbf{C}}\right)$ | Comply |
| 10 | Copper color | PBBs | | BL | | | Comply |
| 13 | enamelled wire | PBDEs | | BL | | | Comply |
| | $\langle \mathcal{G} \rangle$ | DBP | | | $\left(\left(\circ \right) \right)$ | N.D. | Comply |
| | | BBP | | | | N.D. | Comply |
| | | DEHP | | | | N.D. | Comply |
| | | DIBP | |) | | N.D. | Comply |
| | | Pb | | BL | | | Comply |
| | | Cd | | BL | | | Comply |
| | $\left(\mathcal{G} \right)$ | Hg | | BL | $\left(\mathcal{C} \right)$ | | Comply |
| | | Cr(VI) | | BL | | | Comply |
| 14 | Red enamelled | PBBs | | BL | | | Comply |
| $\left(\begin{array}{c} C \\ C \end{array} \right)^{4}$ | wire | PBDEs | | BL | | (- | Comply |
| | | DBP | | | | N.D. | Comply |
| | | BBP | | | | N.D. | Comply |
| | (C) | DEHP | | | 60 | N.D. | Comply |
| | | DIBP | | | | N.D. | Comply |
| | | Pb | | BL | | | Comply |
| | (C) | Cd | | BL | | | Comply |
| | | Hg | | BL | | | Comply |
| | | Cr(VI) | | BL | | | Comply |
| 15 | Green | PBBs | | BL | 6 | | Comply |
| 15 | enamelled wire | PBDEs | | BL | | | Comply |
| | | DBP | | | | N.D. | Comply |
| | | BBP | | | | N.D. | Comply |
| | | DEHP | K) | | | N.D. | Comply |
| | | DIBP | | | | N.D. | Comply |



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| Part No. | Part Description | Restricted Substances | | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | |
|-------------------------------|-------------------------------|--------------------------|---|------------------------|---|-----------------------|----|
| | | Pb | | BL |) | Comply | |
| | | Cd | | BL | | Comply | |
| | | Hg | | BL | | Comply | |
| $\langle \mathcal{G} \rangle$ | | Cr(VI) | | BL | $(\underline{\mathbf{G}})$ | Comply | |
| | Black plastic | PBBs | 0 | BL | | Comply | |
| 16 | jacket | PBDEs | | BL | | Comply | |
| | G | DBP | | | N.D. | Comply | |
| | | BBP | | | N.D. | Comply | |
| | | DEHP | | | N.D. | Comply | |
| (\mathbf{c}) | | DIBP | | c) | N.D. | Comply | |
| | | Pb | | BL | | Comply | |
| | | Cd | | BL | | Comply | |
| | $\langle \mathcal{C} \rangle$ | Нд | | BL |) | Comply | |
| | | Cr(VI) | | BL | | Comply | |
| | | PBBs | | | | | NA |
| 17 | Solder | PBDEs | 6 | (Č | (c) | NA | |
| | | DBP | | J | | NA | |
| | | BBP | | | | NA | |
| | | DEHP | | ((| | NA | |
| | | DIBP | | | | NA | |
| | | Pb | | BL | | Comply | |
| (\mathbf{c}) | | Cd | 6 | BL | | Comply | |
| | | Hg | | BL | | Comply | |
| | | Cr(VI) | | BL | | Comply | |
| 18 | Silvery color | PBBs | | 6 | | NA | |
| 10 | metal pin | PBDEs | | 8 | | NA | |
| | | DBP | | | | NA | |
| | | BBP | (| | | NA | |
| | | DEHP | X | 9 | | NA | |
| | | DIBP | | | | NA | |



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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|-------------------------------|-------------------------------|--------------------------|------------------------|---|-----------------------|
| | <u>(</u>) | Pb | BL | | Comply |
| | | Cd | BL | | Comply |
| | | Hg | BL | | Comply |
| | | Cr(VI) | BL | $\left(\underbrace{\mathbf{O}} \right)$ | Comply |
| | Transparent | PBBs | IN | N.D. | Comply |
| 19 | LED | PBDEs | IN | N.D. | Comply |
| | $\langle \mathcal{G} \rangle$ | DBP | (0) | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| | | DEHP | | N.D. | Comply |
| $\langle \mathcal{G} \rangle$ | | DIBP | (5) | N.D. | Comply |
| | | Pb | BL | | Comply |
| | | Cd | BL | | Comply |
| | (\mathcal{G}) | Hg | BL | | Comply |
| | | Cr(VI) | BL | | Comply |
| 20 | Black plastic | PBBs | BL | | Comply |
| 20 | jacket | PBDEs | BL | (- | Comply |
| | | DBP | | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| | (C) | DEHP | (| N.D. | Comply |
| | | DIBP | | N.D. | Comply |
| | | Pb | BL | | Comply |
| (\mathbf{c}) | C C | Cd | BL | | Comply |
| | | Hg | BL | | Comply |
| | | Cr(VI) | BL | | Comply |
| 21 | Black plastic | PBBs | BL | | Comply |
| ~ 1 | jacket | PBDEs | BL | | Comply |
| | | DBP | | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| | | DEHP | | N.D. | Comply |
| | | DIBP | | N.D. | Comply |



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| Part No. | Part Description | Restricted Substances | and the second s | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|-------------------------------|------------------------------|--------------------------|--|------------------------|---|-----------------------|
| | | Pb | | BL | | Comply |
| | | Cd | | BL | | Comply |
| | | Hg | | BL | | Comply |
| | | Cr(VI) | 2 | BL | $\left(\underline{\mathbf{O}}\right)$ | Comply |
| | Silvery color | PBBs | | | | NA |
| 22 | metal wire core | PBDEs | | | | NA |
| | $\left(\mathcal{G} \right)$ | DBP | | (C) | | NA NA |
| | | BBP | | | | NA |
| | | DEHP | | | | NA |
| $\langle \mathcal{G} \rangle$ | | DIBP | 6 | G) | | NA |
| | | Pb | | BL | | Comply |
| | | Cd | | BL | | Comply |
| | $\left(\mathcal{G} \right)$ | Hg | | BL 🔇 | | Comply |
| | | Cr(VI) | | BL | | Comply |
| 23 | Red plastic | PBBs | | BL | | Comply |
| | jacket | PBDEs | $\langle \mathcal{O} \rangle$ | BL | | Comply |
| | | DBP | | | N.D. | Comply |
| | | BBP | | | N.D. | Comply |
| | (\mathbf{G}) | DEHP | | (c) | N.D. | Comply |
| | | DIBP | | | N.D. | Comply |
| | | Pb | | BL | | Comply |
| | | Cd | | BL | | Comply |
| | | Hg | 2 | BL | | Comply |
| | | Cr(VI) | | IN | N.D. | Comply |
| 24 | Silvery color | PBBs | | 6 | | NA |
| - 7 | metal | PBDEs | | 🔍 | | NA |
| | | DBP | | | | NA |
| | | BBP | (| <u> </u> | | NA |
| | | DEHP | Ň | J | | NA |
| | | DIBP | | | | NA |



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| Part No. | Part Description | Restricted Substances | | Resu EDXR | | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|-------------------------------|---------------------|--------------------------|----|--------------|---------|---|-----------------------|
| | | Pb | | BL | | | Comply |
| | | Cd | | BL | | | Comply |
| | | Hg | | BL | | | Comply |
| $\langle \mathcal{G} \rangle$ | | Cr(VI) | | | | N.D. | Comply |
| | Silvery color | PBBs | | | - | | NA |
| 25 | metal | PBDEs | | | - | | NA |
| | G | DBP | | | . (, c) | | NA |
| | | BBP | | | | | NA |
| | | DEHP | | | | | NA |
| (\mathbf{c}) | (C) | DIBP | (c | 5) | | | NA |
| | | Pb | | BL | _ | | Comply |
| | | Cd | | BL | - | | Comply |
| | (\mathbf{c}) | Нд | | BL | | | Comply |
| | | Cr(VI) | | BL | | | Comply |
| | Black plastic | PBBs | | BL | _ | | Comply |
| 26 | | PBDEs | | BL | _ | (-6) | Comply |
| | | DBP | | · | | N.D. | Comply |
| | | BBP | | | | N.D. | Comply |
| | | DEHP | | | | N.D. | Comply |
| | | DIBP | | | | N.D. | Comply |
| | | Pb | | BL | _ | | Comply |
| (\mathbf{c}) | | Cd | 6 | BL | - | | Comply |
| | | Hg | N. | BL | - | | Comply |
| | | Cr(VI) | | IN | l | N.D. | Comply |
| 27 | Copper color | PBBs | | | | | NA |
| 27 | metal pin | PBDEs | | | | | NA |
| | | DBP | | | | | NA |
| | | BBP | | | | | NA |
| No. | No. | DEHP | X | J | | | NA |
| | | DIBP | | | | | NA |



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| Part No. | Part Description | Restricted Substances | | esult of XRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | |
|-------------------------------|---------------------|--------------------------|-----|---------------------|---|-----------------------|--------|
| | | Pb | | BL | | Comply | |
| | | Cd | | BL | | Comply | |
| | | Hg | - | BL | | Comply | |
| $\langle \mathcal{O} \rangle$ | | Cr(VI) | (c) | BL | $\left(\underline{G}\right)$ | Comply | |
| | | PBBs | | BL | | Comply | |
| 28 | Black resistor | PBDEs | | BL | | Comply | |
| | $\mathcal{C}^{(1)}$ | DBP | | | N.D. | Comply | |
| | | BBP | | | N.D. | Comply | |
| | | DEHP | | | N.D. | Comply | |
| (\mathbf{c}) | (ch | DIBP | | | N.D. | Comply | |
| | | Pb | | BL | | Comply | |
| | | Cd | | BL | | Comply | |
| | | Hg | | BL | | Comply | |
| | | Cr(VI) | | BL | | Comply | |
| | Green | PBBs | | BL | | Comply | |
| 29 | electronic | PBDEs | | BL | | Comply | |
| | component | DBP | | | N.D. | Comply | |
| | | BBP | | | N.D. | Comply | |
| | | DEHP | | (2 | N.D. | Comply | |
| | | DIBP | | | N.D. | Comply | |
| | | Pb | | OL ¹ | | Comply | |
| | | Cd | | BL | | Comply | |
| No. | No. | Hg | | BL | | Comply | |
| | | Cr(VI) | | BL | | Comply | |
| | | PBBs | | BL | | Comply | |
| 30 | Black diode | PBDEs | | BL 🖉 | | Comply | |
| | | DBP | | | N.D. | Comply | |
| | | BBP | | | | N.D. | Comply |
| | | DEHP | 5 | | N.D. | Comply | |
| | | DIBP | | | N.D. | Comply | |



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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|-------------------------------|--------------------------------------|--------------------------|------------------------|---|-----------------------|
| | | Pb | BL |) | Comply |
| | | Cd | BL | | Comply |
| | | Hg | BL | //· | Comply |
| $\langle \mathcal{C} \rangle$ | $\left(\mathcal{G} \right)$ | Cr(VI) | BL | $\left(\underline{G}\right)$ | Comply |
| | | PBBs | BL | | Comply |
| 31 | Black resistor | PBDEs | BL | | Comply |
| | $\left(\mathcal{G}^{\prime}\right)$ | DBP | (0) | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| | | DEHP | | N.D. | Comply |
| (\mathbf{c}) | (C) | DIBP | (5) | N.D. | Comply |
| | | Pb | BL | | Comply |
| | | Cd | BL | | Comply |
| | (\mathbf{C}) | Hg | BL |) | Comply |
| | | Cr(VI) | BL | | Comply |
| | | PBBs | BL | | Comply |
| 32 | Black transistor | PBDEs | BL | (c) | Comply |
| | | DBP | | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| | | DEHP | 66 | N.D. | Comply |
| | | DIBP | ~~ | N.D. | Comply |
| | | Pb | OL ^① | | Comply |
| | | Cd | BL | | Comply |
| | | Hg | BL | | Comply |
| | | Cr(VI) | BL | | Comply |
| | Disali dis da | PBBs | BL | | Comply |
| 33 | Black diode | PBDEs | BL | | Comply |
| | | DBP | | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| S. | | DEHP | S | N.D. | Comply |
| | | DIBP | | N.D. | Comply |



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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|----------------|-------------------------------------|--------------------------|------------------------|---|-----------------------|
| | $\left(\circ \right)$ | Pb | BL | | Comply |
| | | Cd | BL | | Comply |
| | | Hg | BL | | Comply |
| (c) | | Cr(VI) | BL | $\left(\underline{c}\right)$ | Comply |
| | | PBBs | BL | | Comply |
| 34 | Black IC | PBDEs | BL | | Comply |
| | $\left(\mathbf{G}^{\prime}\right)$ | DBP | | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| | | DEHP | | N.D. | Comply |
| (\mathbf{c}) | (C) | DIBP | <u> </u> | N.D. | Comply |
| | | Pb | BL | | Comply |
| | | Cd | BL | | Comply |
| | (\mathcal{C}) | Hg | BL | | Comply |
| | | Cr(VI) | BL | | Comply |
| | | PBBs | BL | | Comply |
| 35 | Black resistor | PBDEs | BL | | Comply |
| | | DBP | | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| | | DEHP | (5 | N.D. | Comply |
| | | DIBP | | N.D. | Comply |
| | | Pb | BL | | Comply |
| (c)) | | Cd | BL | | Comply |
| | | Hg | BL | | Comply |
| | | Cr(VI) | BL | | Comply |
| 20 | 36 Grey inductor | PBBs | BL | | Comply |
| 30 | | PBDEs | BL 💙 | | Comply |
| | | DBP | | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| No. | No. | DEHP | Y | N.D. | Comply |
| | | DIBP | | N.D. | Comply |



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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|----------------|-------------------------------------|--------------------------|------------------------|---|-----------------------|
| | $\langle \hat{\mathbf{O}} \rangle$ | Pb | BL |) | Comply |
| | | Cd | BL | | Comply |
| | | Hg | BL | | Comply |
| (c) | $\left(\mathcal{C} \right)$ | Cr(VI) | BL | $\left(\underline{c}\right)$ | Comply |
| | | PBBs | BL | | Comply |
| 37 | Brown capacitor | PBDEs | BL | | Comply |
| | $\langle \mathcal{C} \rangle$ | DBP | (0) | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| | | DEHP | | N.D. | Comply |
| (\mathbf{c}) | (C) | DIBP | | N.D. | Comply |
| | | Pb | BL | | Comply |
| | | Cd | BL | | Comply |
| | $\left(\mathbf{C}^{\prime}\right)$ | Hg | BL | | Comply |
| | | Cr(VI) | BL | | Comply |
| | | PBBs | BL | | Comply |
| 38 | Black resistor | PBDEs | BL | () | Comply |
| | | DBP | | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| | | DEHP | (5 | N.D. | Comply |
| | | DIBP | | N.D. | Comply |
| | | Pb | BL | | Comply |
| (\mathbf{c}) | (C | Cd | BL | | Comply |
| | | Hg | BL | | Comply |
| | | Cr(VI) | BL | | Comply |
| 20 | Plack IC | PBBs | BL | | Comply |
| 39 | Black IC | PBDEs | BL | | Comply |
| | | DBP | | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| | No. | DEHP | S | N.D. | Comply |
| | | DIBP | | N.D. | Comply |



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| Part No. | Part Description | Restricted Substances | | esult DXRF | | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|------------------------------|-------------------------------|--------------------------|---|---------------|---------|---|-----------------------|
| | | Pb | | BL | | | Comply |
| | | Cd | | BL | | | Comply |
| | | Hg | | BL | | | Comply |
| | | Cr(VI) | | BL | | $\left(\underline{\mathbf{C}}\right)$ | Comply |
| | | PBBs | | BL | | | Comply |
| 40 | Brown capacitor | PBDEs | | BL | <u></u> | | Comply |
| | $\langle \mathcal{G} \rangle$ | DBP | | | | N.D. | Comply |
| | | BBP | | | | N.D. | Comply |
| | | DEHP | | | | N.D. | Comply |
| $\left(\mathcal{C} \right)$ | | DIBP | | | | N.D. | Comply |
| | | Pb | | BL | | | Comply |
| | | Cd | | BL | | | Comply |
| | $\langle \mathcal{G} \rangle$ | Hg | | BL | 202 |) | Comply |
| | | Cr(VI) | | BL | | | Comply |
| - 11 | Coldor | PBBs | | | | | NA |
| 41 | Solder | PBDEs | | | | $\left(\mathbf{c}^{*} \right)$ | NA |
| | | DBP | | | | | NA |
| | | BBP | | | | | NA |
| | (C) | DEHP | | | |) | NA |
| | | DIBP | | | | | NA |
| | | Pb | | BL | | | Comply |
| (c) | | Cd | | BL | | | Comply |
| | | Hg | V | BL | | | Comply |
| | | Cr(VI) | | BL | | | Comply |
| 42 | Green PCB | PBBs | | IN | | N.D. | Comply |
| 74 | | PBDEs | | IN | N. | N.D. | Comply |
| | | DBP | | | | N.D. | Comply |
| | | BBP | | | | N.D. | Comply |
| | | DEHP | | | | N.D. | Comply |
| | | DIBP | | | | N.D. | Comply |



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| Part No. | Part Description | Restricted Substances | Result EDXRF | | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|-------------------------------|-------------------------------|--------------------------|-----------------|-------------------------------|---|-----------------------|
| | | Pb | BL | <u>(0)</u> | | Comply |
| | | Cd | BL | | | Comply |
| | | Hg | BL | | | Comply |
| (\mathbf{G}) | | Cr(VI) | BL | | $\left(\underline{\mathbf{C}}\right)$ | Comply |
| | | PBBs | IN | | N.D. | Comply |
| 43 | White plastic | PBDEs | IN | | N.D. | Comply |
| | $\langle \mathcal{G} \rangle$ | DBP | | $\langle \mathcal{O} \rangle$ | N.D. | Comply |
| | | BBP | | | N.D. | Comply |
| <u></u> | | DEHP | | | N.D. | Comply |
| $\langle \mathcal{G} \rangle$ | | DIBP | (c) | | N.D. | Comply |
| | | Pb | BL | | | Comply |
| | | Cd | BL | <u></u> | | Comply |
| | $\langle \mathcal{G} \rangle$ | Hg | BL | (0) | | Comply |
| | | Cr(VI) | BL | | | Comply |
| | Silvery color | PBBs | | | | NA |
| 44 | metal | PBDEs | (c) | | | NA |
| | | DBP | <u> </u> | | | NA |
| | | BBP | | | | NA |
| | (C) | DEHP | | | | NA |
| | | DIBP | | | | NA |
| | | Pb | BL | | | Comply |
| (\mathbf{C}) | | Cd | BL | | | Comply |
| | | Hg | BL | | | Comply |
| | | Cr(VI) | BL | | | Comply |
| 45 | Black soft | PBBs | BL | 6 | | Comply |
| -10 | plastic | PBDEs | BL | | | Comply |
| | | DBP | | | N.D. | Comply |
| | | BBP | | | N.D. | Comply |
| | | DEHP | × | | N.D. | Comply |
| | | DIBP | | | N.D. | Comply |



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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|----------|--------------------------------------|--------------------------|------------------------|---|-----------------------|
| | | Pb | BL | | Comply |
| | | Cd | BL | | Comply |
| | | Hg | BL | · | Comply |
| | $\langle \mathcal{C} \rangle$ | Cr(VI) | BL | $\left(\underline{c}\right)$ | Comply |
| | | PBBs | BL | | Comply |
| 46 | White dry glue | PBDEs | BL | | Comply |
| | $\left(\mathcal{G}^{\prime}\right)$ | DBP | | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| | | DEHP | | N.D. | Comply |
| | (C) | DIBP | · · · · | N.D. | Comply |
| | | Pb | BL | | Comply |
| | | Cd | BL | | Comply |
| | | Hg | BL | | Comply |
| | | Cr(VI) | BL | | Comply |
| | Copper color | PBBs | | | NA |
| 47 | metal pin | PBDEs | | ÷ | NA |
| | | DBP | | | NA |
| | | BBP | | | NA |
| | | DEHP | (5) | | NA |
| | | DIBP | | | NA |
| | | Pb | BL | | Comply |
| | (C) | Cd | BL | | Comply |
| | | Hg | BL | | Comply |
| | | Cr(VI) | BL | | Comply |
| 40 | Solder | PBBs | (3) | | NA |
| 48 | | PBDEs | 8 | | NA |
| | | DBP | | | NA |
| | | BBP | | | NA |
| | | DEHP | ~~ | Ke l | NA |
| | | DIBP | | | NA |



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| Part No. | Part Description | Restricted Substances | | Result EDXRF | | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|----------|-------------------------------|--------------------------|---|-----------------|---|---|-----------------------|
| | | Pb | | BL | 6 |) | Comply |
| | | Cd | | BL | | | Comply |
| | | | | BL BL | | | Comply |
| | | Hg | | BL | | $\overline{\mathbf{C}}$ | Comply |
| | Dia els plantia | Cr(VI) | | | | | Comply |
| 49 | Black plastic | PBBs | | BL | | | Comply |
| | cable jacket | PBDEs | | BL | | | Comply |
| | | DBP | | | | N.D. | Comply |
| | | BBP | | | | N.D. | Comply |
| | | DEHP | | | | N.D. | Comply |
| KU) | | DIBP | X | (c | | N.D. | Comply |
| | | Pb | | BL | | | Comply |
| | | Cd | | BL | | | Comply |
| | $\langle \mathcal{O} \rangle$ | Hg | | BL | |) | Comply |
| | | Cr(VI) | | BL | | | Comply |
| 50 | White plastic | PBBs | | BL | | | Comply |
| 50 | jacket | PBDEs | 6 |) BL | | | Comply |
| | | DBP | | | | N.D. | Comply |
| | | BBP | | | | N.D. | Comply |
| | | DEHP | | | | 200 | Comply |
| | | DIBP | | | | N.D. | Comply |
| | | Pb | | BL | | | Comply |
| | | Cd | (| BL | | | Comply |
| | , C | Hg | | BL | | | Comply |
| | | Cr(VI) | | BL | | | Comply |
| | Black plastic | PBBs | | BL | | | Comply |
| 51 | jacket | PBDEs | | BL | | | Comply |
| | | DBP | | | | N.D. | Comply |
| | | BBP | | X | | N.D. | Comply |
| | | DEHP | 8 | 5) | | 210 | Comply |
| | | DIBP | | | | N.D. | Comply |



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| Part No. | Part Description | Restricted Substances | 66 | Result EDXRF | | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|-------------------------------|-------------------------------|--------------------------|----|-----------------|---------|---|-----------------------|
| | | Pb | | BL | |) | Comply |
| | | Cd | | BL | | | Comply |
| | | Hg | | BL | | | Comply |
| (\mathbf{G}) | | Cr(VI) | | BL | | $(\underline{\mathbf{G}})$ | Comply |
| | Green plastic | PBBs | | BL | | | Comply |
| 52 | jacket | PBDEs | | BL | <u></u> | | Comply |
| | $\langle \mathcal{G} \rangle$ | DBP | | | (0) | N.D. | Comply |
| | | BBP | | | | N.D. | Comply |
| | | DEHP | | | | 220 | Comply |
| $\langle \mathcal{G} \rangle$ | | DIBP | 20 |) | | N.D. | Comply |
| | | Pb | | BL | | | Comply |
| | | Cd | | BL | | | Comply |
| | $\langle \mathcal{G} \rangle$ | Hg | | BL | 60 |) | Comply |
| | | Cr(VI) | | BL | | | Comply |
| 50 | Red plastic | PBBs | | BL | | | Comply |
| 53 | jacket | PBDEs | 60 | BL | | () | Comply |
| | | DBP | | | | N.D. | Comply |
| | | BBP | | | | N.D. | Comply |
| | (C) | DEHP | | | | 210 | Comply |
| | | DIBP | | | | N.D. | Comply |
| | | Pb | | BL | | | Comply |
| (\mathbf{C}) | (C) | Cd | | BL | | | Comply |
| | | Hg | | BL | | | Comply |
| | | Cr(VI) | | BL | | | Comply |
| 54 | Silvery color | PBBs | | | (| | NA |
| 54 | metal wire core | PBDEs | | | | | NA |
| | | DBP | | | | | NA |
| | | BBP | Č. | · | | | NA |
| No. | | DEHP | N. | / | | | NA |
| | | DIBP | | | | | NA |



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| Part No. | Part Description | Restricted Substances | sult of KRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|-------------------------------|-------------------------------|--------------------------|--------------------|---|-----------------------|
| | <u>(</u>) | Pb | BL | | Comply |
| | | Cd | BL | | Comply |
| | | Hg | BL | | Comply |
| | | Cr(VI) | BL | $\left(\underline{\mathbf{O}} \right)$ | Comply |
| | Black soft | PBBs | BL | | Comply |
| 55 | plastic | PBDEs | BL | | Comply |
| | $\langle \mathcal{C} \rangle$ | DBP | (6) | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| | | DEHP | | N.D. | Comply |
| $\langle \mathcal{C} \rangle$ | | DIBP | | N.D. | Comply |
| | | Pb | BL | | Comply |
| | <u>_</u> | Cd | BL | | Comply |
| | $\langle \mathcal{O} \rangle$ | Hg | BL |) | Comply |
| | | Cr(VI) | BL | | Comply |
| 56 | Black resistor | PBBs | BL | | Comply |
| 50 | DIACK TESISION | PBDEs | BL | (- - -) | Comply |
| | | DBP | | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| | (C) | DEHP | (6 | N.D. | Comply |
| | | DIBP | | N.D. | Comply |
| | | Pb | BL | | Comply |
| (\mathbf{c}) | (C) | Cd | BL | | Comply |
| | | Hg | BL | | Comply |
| | | Cr(VI) | BL | | Comply |
| 57 | 57 Solder | PBBs | 6 | | NA |
| | | PBDEs | 🕑 | | NA |
| | | DBP | | | NA |
| | | BBP | | | NA |
| | | DEHP | | | NA |
| | | DIBP | | | NA |



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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|----------------|-------------------------------|--------------------------|------------------------|---|-----------------------|
| | | Pb | BL | | Comply |
| | | Cd | BL | | Comply |
| | | Hg | BL | | Comply |
| | | Cr(VI) | BL | $\left(\underline{O}\right)$ | Comply |
| | | PBBs | IN | N.D. | Comply |
| 58 | Green PCB | PBDEs | IN | N.D. | Comply |
| | $\langle \mathcal{G} \rangle$ | DBP | <u> </u> | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| | | DEHP | | N.D. | Comply |
| (c) | | DIBP | (C) | N.D. | Comply |
| | | Pb | BL | | Comply |
| | | Cd | BL | | Comply |
| | G | Hg | BL |) | Comply |
| | | Cr(VI) | IN | N.D. | Comply |
| | Silvery color | PBBs | | | NA |
| 59 | metal | PBDEs | (S) | (-c) | NA |
| | | DBP | | | NA |
| | | BBP | | | NA |
| | (\mathbf{c}) | DEHP | 6 | | NA |
| | | DIBP | ~ | | NA |
| | | Pb | BL | | Comply |
| (\mathbf{c}) | | Cd | BL | | Comply |
| | | Hg | BL | | Comply |
| | | Cr(VI) | IN | N.D. | Comply |
| 60 | Silvery color | PBBs | (| | NA |
| 00 | metal pin | PBDEs | " | | NA |
| | | DBP | | | NA |
| | | BBP | | | NA |
| No. | | DEHP | | | NA |
| | | DIBP | | | NA |



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| Part No. | Part Description | Restricted Substances | | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|-------------------------------|-------------------------------|--------------------------|---|------------------------|---|-----------------------|
| | | Pb | | BL | | Comply |
| | | Cd | | BL | | Comply |
| ~~~ | | Hg | | BL | | Comply |
| | | Cr(VI) | 8 | BL | $\left(\underline{C}\right)$ | Comply |
| | Silvery color | PBBs | | | | NA |
| 61 | metal pin | PBDEs | | (* | | NA |
| | (G) | DBP | | (0) |) | NA NA |
| | | BBP | | | | NA |
| | | DEHP | | | <u> </u> | NA |
| | | DIBP | | 5) | | NA |
| | | Pb | | BL | | Comply |
| | | Cd | | BL | | Comply |
| | $\langle G \rangle$ | Hg | | BL |) | Comply |
| | | Cr(VI) | | BL | | Comply |
| 62 | Grey plastic | PBBs | | BL | | Comply |
| G | Orey plastic | PBDEs | | BL | | Comply |
| | | DBP | | | N.D. | Comply |
| | <i>—</i> | BBP | | | N.D. | Comply |
| | $\langle \mathcal{G} \rangle$ | DEHP | | (.c) | N.D. | Comply |
| | | DIBP | | | N.D. | Comply |
| | | Pb | | BL | | Comply |
| $\langle \mathcal{C} \rangle$ | | Cd | | BL | | Comply |
| | | Hg | 1 | BL | | Comply |
| | | Cr(VI) | | BL | | Comply |
| 63 | Solder | PBBs | | | | NA |
| | | PBDEs | | V | | NA |
| | | DBP | | | | NA |
| (\mathbf{c}) | 6 | BBP | 6 | <u> </u> | | NA |
| | | DEHP | | J | | NA |
| | | DIBP | | | | NA |



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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS |
|----------|---------------------|--------------------------|------------------------|---|-----------------------|
| | | Pb | BL | | Comply |
| | | Cd | BL | | Comply |
| | | Hg | BL | | Comply |
| | <u>(</u>) | Cr(VI) | BL | | Comply |
| 64 | Green PCB | PBBs | IN | N.D. | Comply |
| 04 | Gleen PCB | PBDEs | IN | N.D. | Comply |
| | | DBP | (6) | N.D. | Comply |
| | | BBP | | N.D. | Comply |
| | | DEHP | | N.D. | Comply |
| | | DIBP | G) | N.D. | Comply |



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Remark:

 (1) (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr(VI).

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013 (unit: mg/kg)

| Element | Polymer | Metal | Composite Materials |
|---------|---|---|---------------------------------------|
| Cd | BL≤(70-3σ) <x<< td=""><td>BL≤(70-3σ)<x<< td=""><td>LOD<x<(150+3σ)< td=""></x<(150+3σ)<></td></x<<></td></x<<> | BL≤(70-3σ) <x<< td=""><td>LOD<x<(150+3σ)< td=""></x<(150+3σ)<></td></x<<> | LOD <x<(150+3σ)< td=""></x<(150+3σ)<> |
| Cu | (130+3σ)≤OL | (130+3σ) ≤OL | ≤OL |
| Dh | BL≤(700-3σ) <x<< td=""><td>BL≤(700-3σ)<x<< td=""><td>BL≤(500-3σ)<x<< td=""></x<<></td></x<<></td></x<<> | BL≤(700-3σ) <x<< td=""><td>BL≤(500-3σ)<x<< td=""></x<<></td></x<<> | BL≤(500-3σ) <x<< td=""></x<<> |
| Pb | (1300+3σ) ≤OL | (1300+3σ) ≤OL | (1500+3σ) ≤OL |
| Ца | BL≤(700-3σ) <x<< td=""><td>BL≤(700-3σ)<x<< td=""><td>BL≤(500-3σ)<x<< td=""></x<<></td></x<<></td></x<<> | BL≤(700-3σ) <x<< td=""><td>BL≤(500-3σ)<x<< td=""></x<<></td></x<<> | BL≤(500-3σ) <x<< td=""></x<<> |
| Hg | (1300+3σ)≤OL | (1300+3σ)≤OL | (1500+3σ) ≤OL |
| Br | BL≤(300-3σ)<Χ | NA | BL≤(250-3σ)<Χ |
| Cr | BL≤(700-3σ)<Χ | BL≤(700-3σ)<Χ | BL≤(500-3σ)<Χ |
| 7 7 | | | |

(c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection,

--- = Not Regulated, NA = Not Applicable.

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

(2) (a) 1mg/kg = 1ppm = 0.0001%, N.D.= Not Detected (<MDL), --- = Not Conducted.

| Test Items | Pb | Cd | Hg | Cr(VI) | PBBs | PBDEs | DBP | BBP | DEHP | DIBP |
|--------------|------|-----|------|--------|------|-------|------|------|------|------|
| MDL(mg/kg) | 10 | 10 | 10 | * | 100 | 100 | 100 | 100 | 100 | 100 |
| Limit(mg/kg) | 1000 | 100 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

(b) Unit and Method Detection Limit (MDL) in chemical test

*MDL of Cr(VI) for polymer, composite sample is 10 mg/kg,

MDL of Cr(VI) for metal sample is 0.10 μ g/cm²,

The limit is quoted from the Directive (EU) 2015/863 - Amendment of EU RoHS Directive 2011/65/EU Annex II.

(c) According to IEC 62321-7-1:2015, For metal samples,

a. When the Cr (VI) concentration is > the 0,13 μ g/cm², the sample is positive for Cr(VI) and considered to contain Cr(VI).

b. When the Cr (VI) concentration is N.D.(< the 0,10 µg/cm²), the sample is negative for Cr(VI) and considered a non-Cr(VI) based coating.

c. When the Cr (VI) concentration is \geq the 0,10 µg/cm² and \leq the 0,13 µg/cm², the result is

considered to be inconclusive - Unavoidable coating variations may influence the determination.

Because the storage condition and production date of the sample are not known, the test results of



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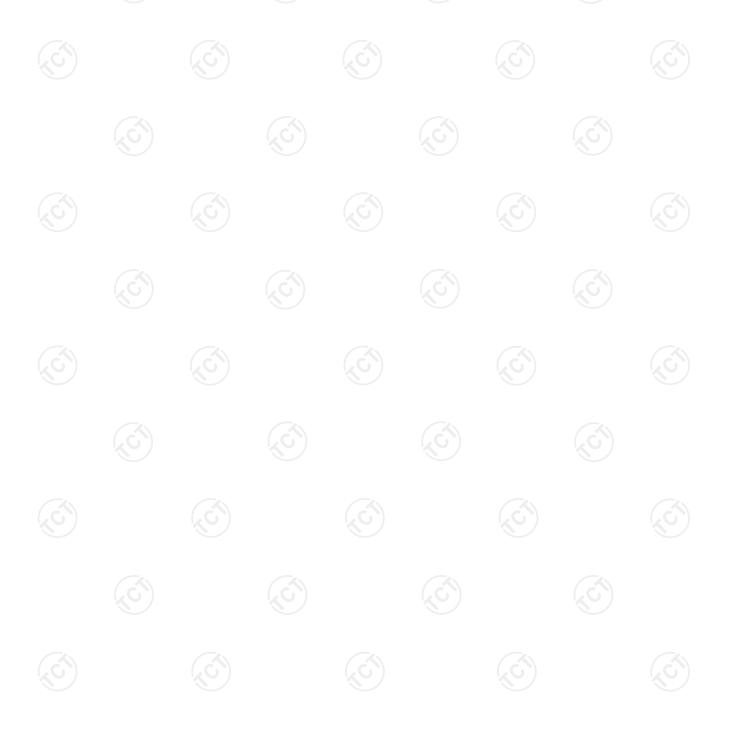
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the sample of hexavalent chromium can only represent the state of hexavalent chromium in the samples tested.

(3) According to the client's statement,

[®]RoHS Exemption: 7(c)-I, Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound &RoHS Exemption: 7(a) Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead.





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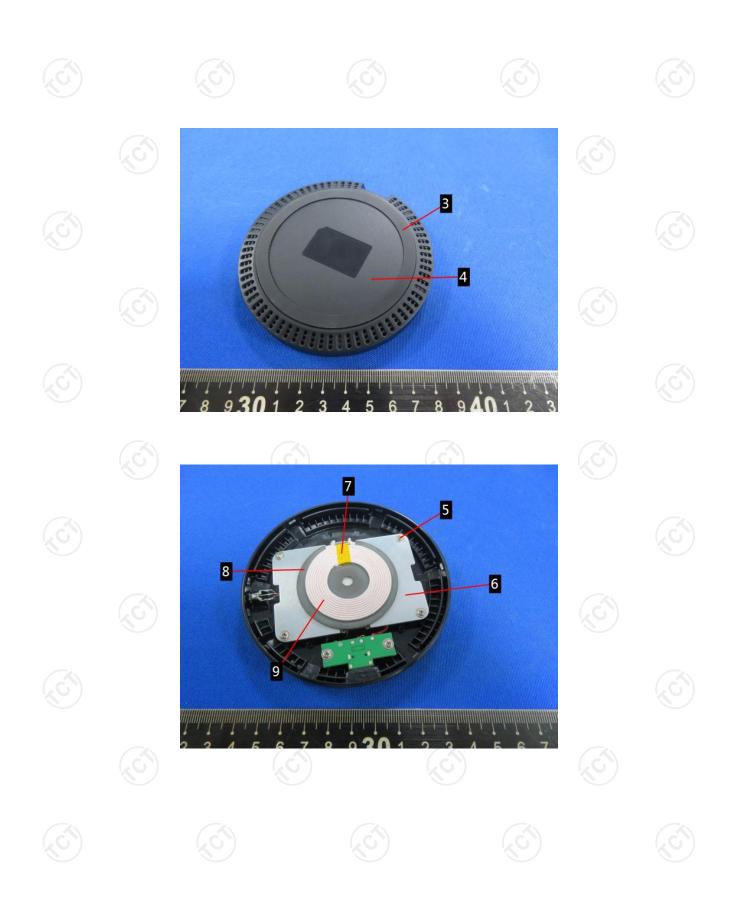




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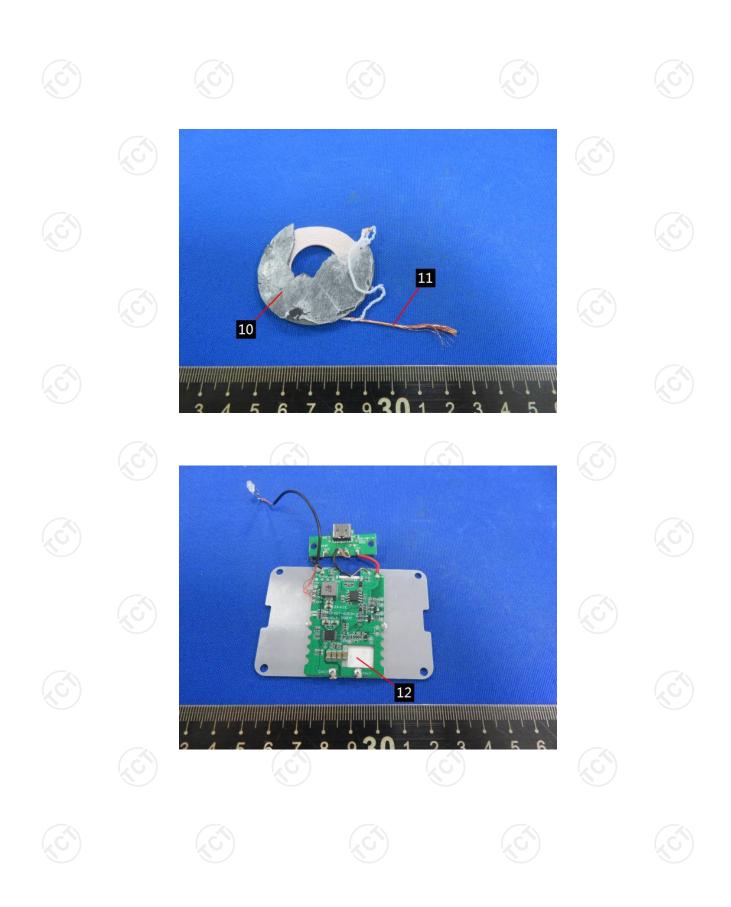




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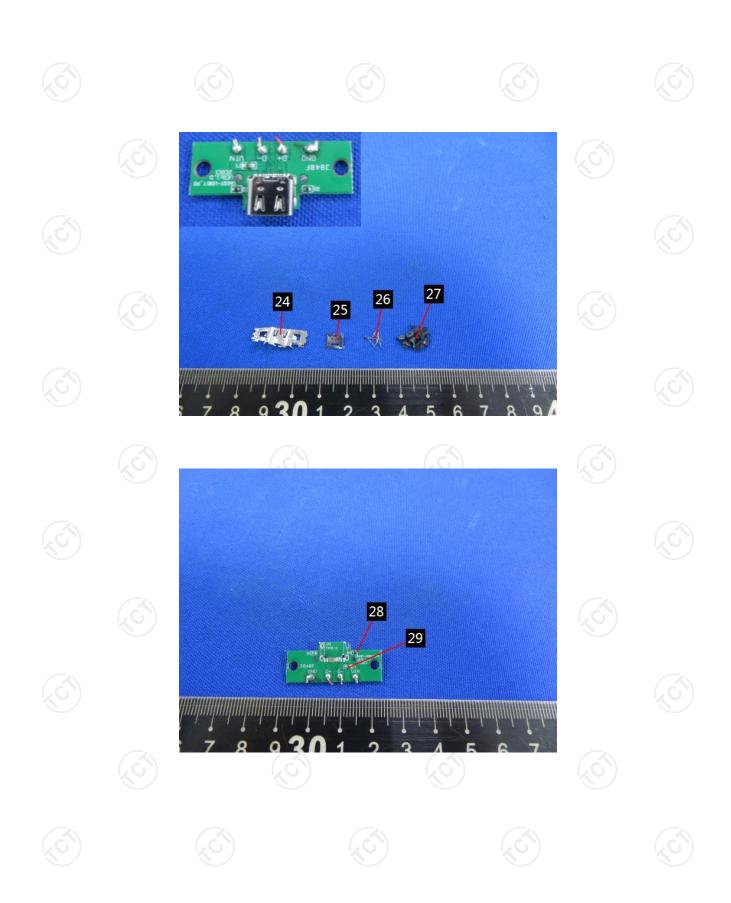




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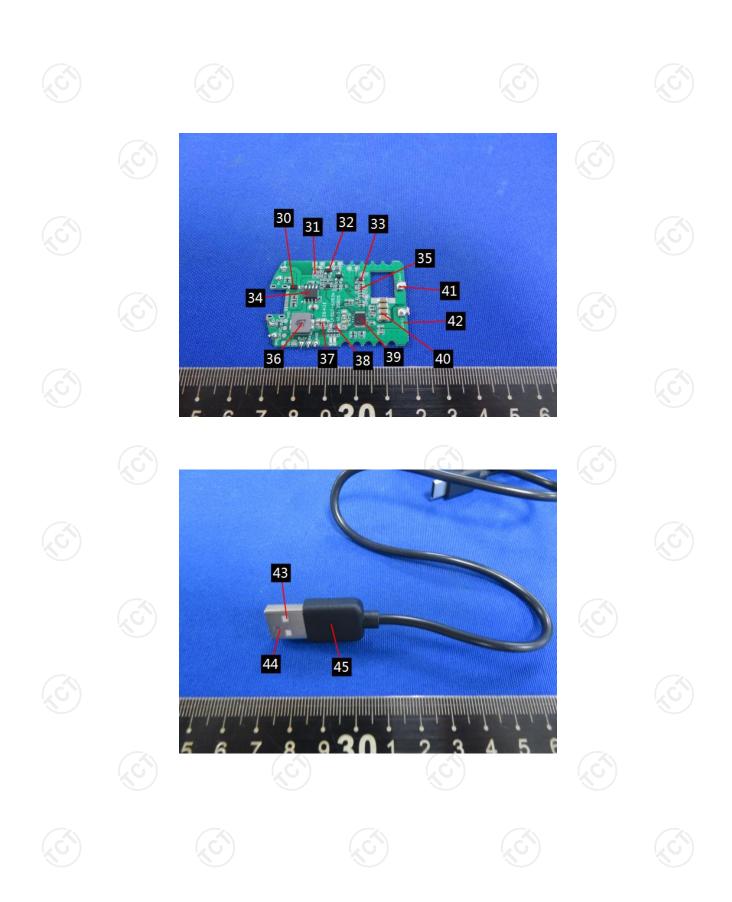




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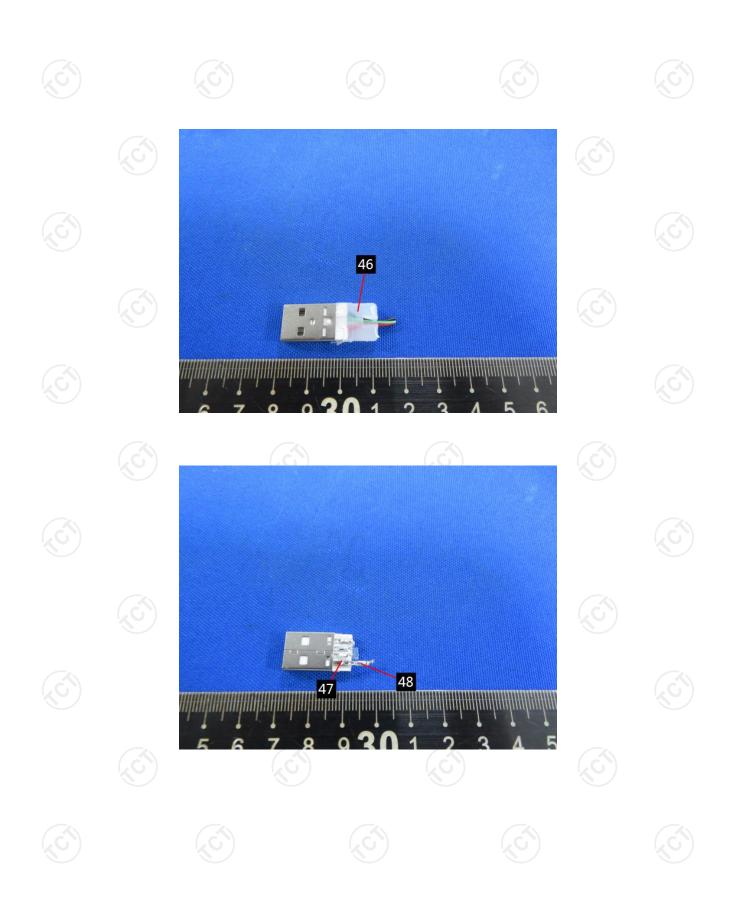




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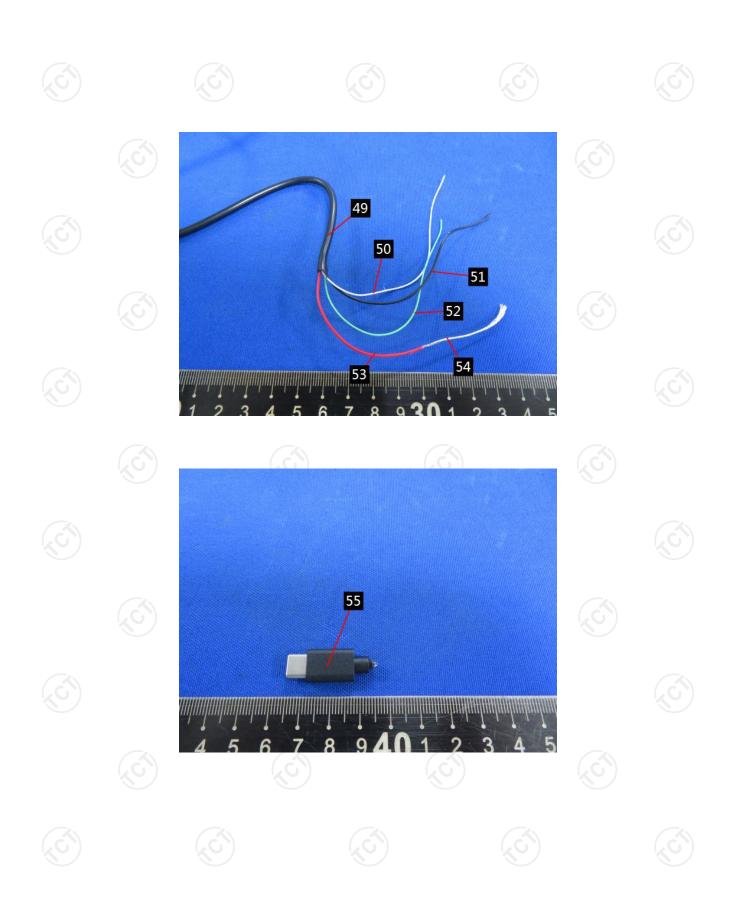




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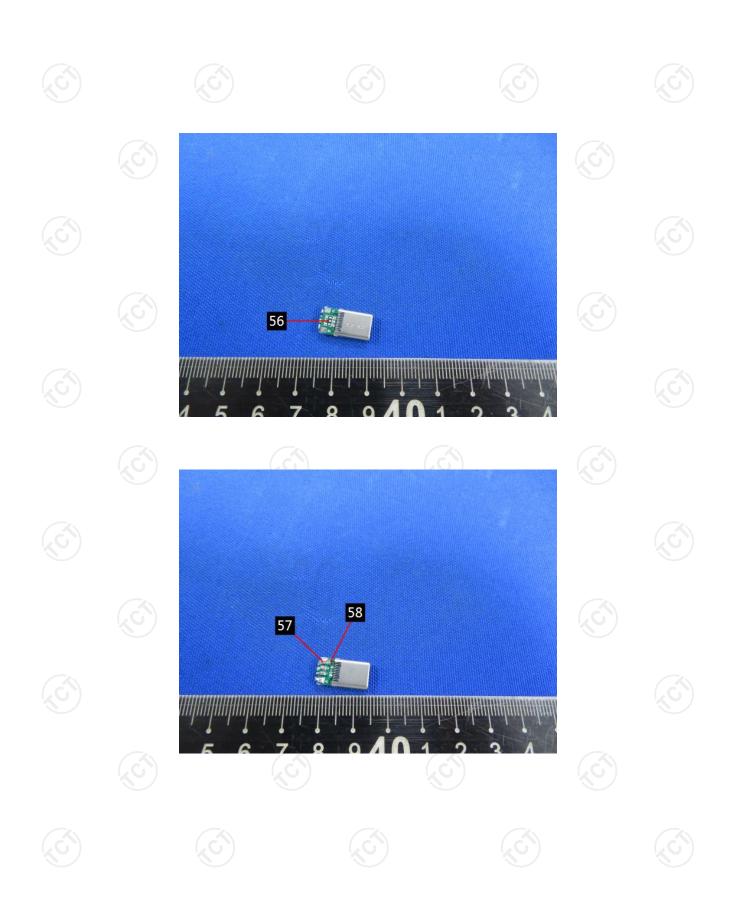




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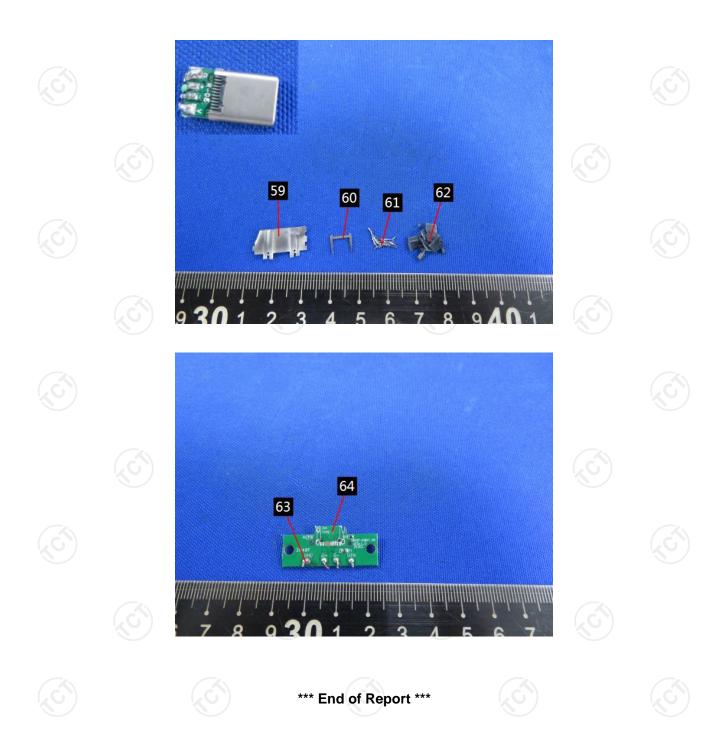




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