

TEST REPORT

Report Number: (6223)263-0253

October 03, 2023

Date Received:

September 20, 2023

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Digital Matter The Oval, Ground Floor, St Georges Building. Cnr. Meadowbrook Lane and Sloane Street Bryanston, 2021, South Africa

Sample Description: Hawk-4G 2D

Test Period: September 20, 2023 to October 03, 2023

SUMMARY OF TEST RESULTS

| TEST REQUESTED | CONCLUSION | REMARK |
|--|------------|--------|
| European Parliament and Council Directive 2011/65/EU on | | |
| the Restriction of the Use of Certain Hazardous Substances in | PASS | - |
| Electrical and Electronic Equipment (RoHS) | | |
| Phthalates Test - Directive 2015/863/EU Amendment of | | |
| European Parliament and Council Directive 2011/65/EU on | | |
| the Restriction of the Use of Certain Hazardous Substances in | PASS | |
| Electrical and Electronic Equipment (RoHS) | 1765 | _ |
| (Note: The amendment will be effective on 22 July 2019. For medical | | |
| devices and control instruments, effective date will be 22 July 2021.) | <u> </u> | |

REMARK

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

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|-------------------------------|-------------------------------|---------------------------------------|
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BUREAU VERITAS CONSUMER PRODUCTS SERVICES (H.K.) LIMITED, TAIWAN BRANCH

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VICO LIN MANAGER ANALYTICAL DEPARTMENT

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PREPARED BY :

Tiffany Chin

C/N /TC/JK

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Photo of the Submitted Sample





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TEST RESULT

Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

| Test Method : | See Appendix. |
|---------------|---------------------------------|
| Test Item(s) | Item / Component Description(s) |
| 1. | Black ; Plastic |
| 2. | Black ; Plastic |
| 3. | Grey ; Plastic |
| 4. | White/ black ; Plastic |
| 5. | White/ black ; Plastic |
| 6. | Black ; Plastic |
| 7. | White ; Plastic |
| 8. | Black ; Plastic |
| 9. | Silvery ; Metals |
| 10. | Grey ; Plastic |
| 11. | Silvery ; Metals |
| 12. | Red ; Plastic |
| 13. | Silvery ; Metals |
| 14. | White/ black ; Plastic |
| 15. | Silvery ; Metals |
| 16. | Black ; Plastic |
| 17. | Silvery ; Metals |
| 18. | Copper ; Metals |
| 19. | Silvery ; Metals |
| 20. | Silvery ; Metals |
| 21. | Grey ; Plastic |
| 22. | Silvery ; Metals |
| 23. | Silvery ; Metals |
| 24. | Black ; Plastic |
| 25. | White ; Plastic |
| 26. | Silvery ; Metals |
| 27. | Silvery ; Metals |
| 28. | Green ; Plastic |
| 29. | Black ; Plastic |
| 30. | Silvery ; Metals |
| 31. | White/ black ; Plastic |
| 32. | Silvery ; Metals |
| 33. | Black ; Plastic |
| 34. | Silvery ; Metals |
| 35. | Black ; Plastic |
| 36. | Silvery ; Metals |
| 37. | Beige ; Electronics |
| 38. | White ; Electronics |
| 39. | Black ; Electronics |
| 40. | Black ; Electronics |
| 41. | Black ; Electronics |



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TEST RESULT

Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

| Test Item(s) | Item / Component Description(s) |
|--------------|---------------------------------|
| 42. | Black ; Electronics |
| 43. | Blue ; Electronics |
| 44. | Black ; Electronics |
| 45. | Black ; Electronics |
| 46. | Brown ; Electronics |
| 47. | Black ; Electronics |
| 48. | Black ; Electronics |
| 49. | Black ; Electronics |
| 50. | Black ; Electronics |
| 51. | Brown ; Electronics |
| 52. | Black ; Electronics |
| 53. | Brown ; Electronics |
| 54. | Grey ; Electronics |
| 55. | Black ; Electronics |
| 56. | Green ; Electronics |
| 57. | Black ; Electronics |
| 58. | Black ; Electronics |
| 59. | Black ; Electronics |
| 60. | Black ; Electronics |
| 61. | Grey ; Electronics |
| 62. | Black ; Electronics |
| 63. | Black ; Electronics |
| 64. | Black ; Electronics |
| 65. | Green ; Electronics |
| 66. | Grey ; Electronics |
| 67. | Black ; Electronics |
| 68. | Black ; Electronics |
| 69. | Brown ; Electronics |
| 70. | Grey ; Electronics |
| 71. | Black ; Electronics |
| 72. | Black ; Electronics |
| 73. | Black ; Electronics |
| 74. | Black ; Electronics |
| 75. | Green ; Electronics |



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TEST RESULT

Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

| | Result | | | | | | | |
|--------------|-----------------------------|-------|-----------------|--|--------------|-------|----------------------|--|
| - | Cadmium Mercury Chromium VI | | | | | | | |
| Parameter | Lead (Pb) | (Cd) | (Hg) | (Cr VI) [#] | PBBs | PBDEs | Conclusion | |
| Unit | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | - | |
| Test Item(s) | - | - | - | - | - | - | - | |
| 1. | ND | ND | ND | ND | ND | ND | PASS | |
| 2. | ND | ND | ND | ND | ND | ND | PASS | |
| 3. | ND | ND | ND | ND | ND | ND | PASS | |
| 4. | ND | ND | ND | ND | ND | ND | PASS | |
| 5. | ND | ND | ND | ND | ND | ND | PASS | |
| 6. | ND | ND | ND | ND | ND | ND | PASS | |
| 7. | ND | ND | ND | ND | ND | ND | PASS | |
| 8. | ND | ND | ND | ND | ND | ND | PASS | |
| 9. | ND | ND | ND | Negative* | NA | NA | PASS | |
| 10. | ND | ND | ND | ND | ND | ND | PASS | |
| 11. | ND | ND | ND | Negative* | NA | NA | PASS | |
| 12. | ND | ND | ND | ND | NDNDNANANDND | | PASS PASS PASS | |
| 13. | ND | ND | ND | Negative* | | | | |
| 14. | ND | ND | ND | ND | | | | |
| 15. | ND | ND | ND Negative* NA | | NA | PASS | | |
| 16. | ND | ND | ND | ND | ND | ND | PASS | |
| 17. | ND | ND | ND | Negative* NA ND NA | | NA | PASS | |
| 18. | ND | ND | ND | | | NA | PASS | |
| 19. | ND | ND | ND | Negative* | NA | NA | PASS | |
| 20. | ND | ND | ND | ND | NA | NA | PASS | |
| 21. | ND | ND | ND | ND | ND | ND | PASS | |
| 22. | ND | ND | ND | ND | NA | NA | PASS | |
| 22. | ND | ND | ND | Negative* | | NA | PASS | |
| 24. | ND | ND | ND | ND | ND | ND | PASS | |
| 25. | ND | ND | ND | ND | ND | ND | PASS | |
| 26. | ND | ND | ND | Negative* | NA | NA | PASS | |
| 27. | ND | ND | ND | ND | NA | NA | PASS | |
| 28. | ND | ND | ND | ND | ND | ND | PASS | |
| 29. | ND | ND | ND | ND | ND | ND | PASS | |
| 30. | ND | ND | ND | ND | NA | NA | PASS | |
| 31. | ND | ND | ND | ND | ND | ND | PASS | |
| 32. | ND | ND | ND | ND | NA | NA | PASS | |
| 33. | ND | ND | ND | ND | ND | ND | PASS | |
| 34. | ND | ND | ND | Negative* | NA | NA | PASS | |
| 35. | ND | ND | ND | ND | ND | ND | PASS | |
| 36. | ND | ND | ND | ND | NA | NA | PASS | |
| 37. | ND | ND | ND | ND | ND | ND | PASS | |



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TEST RESULT

Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

| - | Result | | | | | | |
|--------------|-----------|-----------------|-----------------|----------------------------|----------|-------|--------------|
| Parameter | Lead (Pb) | Cadmium (Cd) | Mercury (Hg) | Chromium VI (Cr VI) [#] | PBBs | PBDEs | Conclusion |
| Unit | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | - |
| Test Item(s) | - | - | | - | - | - | - |
| 38. | ND | ND | ND | ND | ND | ND | PASS |
| 39. | ND | ND | ND | ND | ND | ND | PASS |
| 40. | ND | ND | ND | ND | ND | ND | PASS |
| 41. | ND | ND | ND | ND | ND | ND | PASS |
| 42. | ND | ND | ND | ND | ND | ND | PASS |
| 43. | ND | ND | ND | ND | ND | ND | PASS |
| 44. | ND | ND | ND | ND | ND | ND | PASS |
| 45. | ND | ND | ND | ND | ND | ND | PASS |
| 46. | ND | ND | ND | ND | ND | ND | PASS |
| 47. | ND | ND | ND | ND | ND | ND | PASS |
| 48. | ND | ND | ND | ND | ND | ND | PASS |
| 49. | ND | ND | ND | ND | ND | ND | PASS |
| 50. | ND | ND | ND | ND | ND | ND | PASS |
| 51. | ND | ND | ND | ND | ND | ND | PASS |
| 52. | ND | ND | ND | ND | ND ND | | PASS |
| 53. | ND ND N | | ND | ND | ND | ND | PASS |
| 54. | | | | ND | ND | ND | ND |
| 55. | ND | ND | ND | ND | NDNDNDND | | PASS PASS |
| 56. | ND | ND | ND | ND | | | |
| 57. | ND | ND | ND | ND | ND | ND | PASS PASS |
| 58. | ND | ND | ND | ND | ND | ND | |
| 59. | ND | ND | ND | ND | ND | ND | PASS |
| 60. | ND | ND | ND | ND | ND | ND | PASS |
| 61. | ND | ND | ND | ND | ND | ND | PASS |
| 62. | ND | ND | ND | ND | ND | ND | PASS |
| 63. | ND | ND | ND | ND | ND | ND | PASS |
| 64. | ND | ND | ND | ND | ND | ND | PASS |
| 65. | ND | ND | ND | ND | ND* | ND* | PASS |
| 66. | ND | ND | ND | ND | ND | ND | PASS |
| 67. | ND | ND | ND | ND | ND | ND | PASS |
| 68. | ND | ND | ND | ND | ND | ND | PASS |
| 69. | ND | ND | ND | ND | ND | ND | PASS |
| 70. | ND | ND | ND | ND | ND | ND | PASS |
| 71. | ND | ND | ND | ND | ND | ND | PASS |
| 72. | ND | ND | ND | ND | ND | ND | PASS |
| 73. | ND | ND | ND | ND | ND | ND | PASS |
| 74. | ND | ND | ND | ND | ND | ND | PASS |
| 75. | ND | ND | ND | ND | ND* | ND* | PASS |



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Note / Key :

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ND = Not detected NA = Not Applicable
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
Detection Limit : See Appendix.
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Remark :

- The testing approach is listed in table of Appendix.
- * denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- # If the surface area of submitted sample is less than 25 cm², laboratory will reduce the volume of extraction solvent according to the actual area base on requirement. (The ratio of sample area and extraction solvent will be 1 cm² : 1 ml).
- According to European Parliament and Council Directive 2011/65/EU, Article 5 "Adaptation of the Annexes to scientific and technical progress", exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.



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TEST RESULT

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

| Test Method : | With reference to International Stand | lard IEC 62321-8 | | |
|-----------------------------|---------------------------------------|------------------|------|------------|
| Maximum Allowable Limit: | DEHP, BBP, DBP & DIBP: 0.19 | % (Each) | | |
| Tested Item(s) | Result | | - | Conclusion |
| Tested Item(s) | Detected Analyte(s) | Conc. | Unit | Conclusion |
| 1. | ND | ND | % | PASS |
| 2. | ND | ND | % | PASS |
| 3. | ND | ND | % | PASS |
| 4. | ND | ND | % | PASS |
| 5. | ND | ND | % | PASS |
| 6. | ND | ND | % | PASS |
| 7. | ND | ND | % | PASS |
| 8. | ND | ND | % | PASS |
| 9. | / | / | % | NA |
| 10. | ND | ND | % | PASS |
| 11. | / | / | % | NA |
| 12. | ND | ND | % | PASS |
| 13. | / | / | % | NA |
| 14. | ND | ND | % | PASS |
| 15. | / | / | % | NA |
| 16. | ND | ND | % | PASS |
| 17. | / | / | % | NA |
| 18. | / | / | % | NA |
| 19. | / | / | % | NA |
| 20. | / | / | % | NA |
| 21. | ND | ND | % | PASS |
| 22. | / | / | % | NA |
| 23. | / | / | % | NA |
| 24. | ND | ND | % | PASS |
| 25. | ND | ND | % | PASS |
| 26. | / | / | % | NA |
| 27. | / | / | % | NA |
| 28. | ND | ND | % | PASS |
| 29. | ND | ND | % | PASS |
| 30. | / | / | % | NA |
| 31. | ND | ND | % | PASS |
| 32. | / | / | % | NA |
| 33. | ND | ND | % | PASS |
| 34. | / | / | % | NA |



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TEST RESULT

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

| Maximum Allowable Limit: DEHP, BBP, DBP & DIBP: 0.1% (Each) | | | | | | |
|--|---------------------|------------|------|------------|--|--|
| | Result | Conclusion | | | | |
| Tested Item(s) | Detected Analyte(s) | Conc. | Unit | Conclusion | | |
| 35. | ND | ND | % | PASS | | |
| 36. | / | / | % | NA | | |
| 37. | ND | ND | % | PASS | | |
| 38. | ND | ND | % | PASS | | |
| 39. | ND | ND | % | PASS | | |
| 40. | ND | ND | % | PASS | | |
| 41. | ND | ND | % | PASS | | |
| 42. | ND | ND | % | PASS | | |
| 43. | ND | ND | % | PASS | | |
| 44. | ND | ND | % | PASS | | |
| 45. | ND | ND | % | PASS | | |
| 46. | ND | ND | % | PASS | | |
| 47. | ND | ND | % | PASS | | |
| 48. | ND | ND | % | PASS | | |
| 49. | ND | ND | % | PASS | | |
| 50. | ND | ND | % | PASS | | |
| 51. | ND | ND | % | PASS | | |
| 52. | ND | ND | % | PASS | | |
| 53. | ND | ND | % | PASS | | |
| 54. | ND | ND | % | PASS | | |
| 55. | ND | ND | % | PASS | | |
| 56. | ND | ND | % | PASS | | |
| 57. | ND | ND | % | PASS | | |
| 58. | ND | ND | % | PASS | | |
| 59. | ND | ND | % | PASS | | |
| 60. | ND | ND | % | PASS | | |
| 61. | ND | ND | % | PASS | | |
| 62. | ND | ND | % | PASS | | |
| 63. | ND | ND | % | PASS | | |
| 64. | ND | ND | % | PASS | | |
| 65. | ND | ND | % | PASS | | |
| 66. | ND | ND | % | PASS | | |
| 67. | ND | ND | % | PASS | | |
| 68. | ND | ND | % | PASS | | |
| 69. | ND | ND | % | PASS | | |
| 70. | ND | ND | % | PASS | | |



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TEST RESULT

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

| Maximum Allowable Limit: | DEHP, BBP, DBP & DIBP: 0.1% (Each) | | | | | | |
|-----------------------------|------------------------------------|-------|------|------------|--|--|--|
| Result | | | | | | | |
| Tested Item(s) | Detected Analyte(s) | Conc. | Unit | Conclusion | | | |
| 71. | ND | ND | % | PASS | | | |
| 72. | ND | ND | % | PASS | | | |
| 73. | ND | ND | % | PASS | | | |
| 74. | ND | ND | % | PASS | | | |
| 75. | ND | ND | % | PASS | | | |

Note / Key :

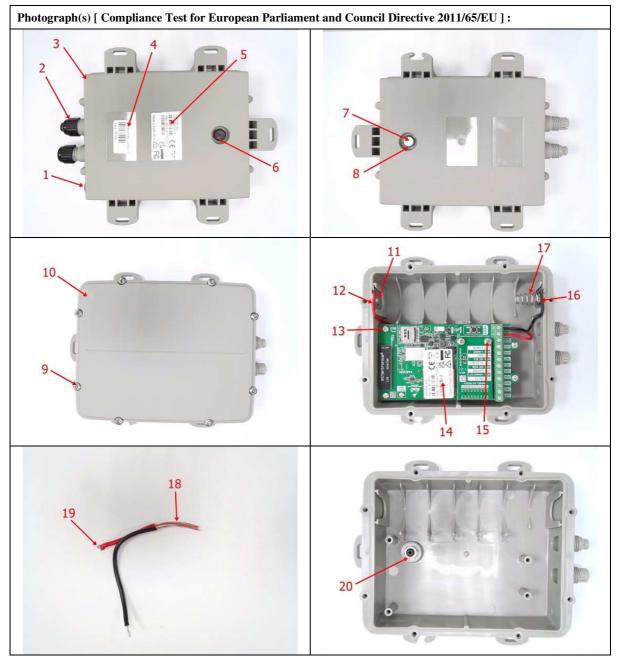
ND = Not detectedNA = Not Applicablemg/kg = milligram(s) per kilogram = ppm = part(s) per million% = percent10 000 mg/kg = 1 %Detection Limit (%) : 0.005

Remark : The list of phthalates is summarized in table of Appendix.



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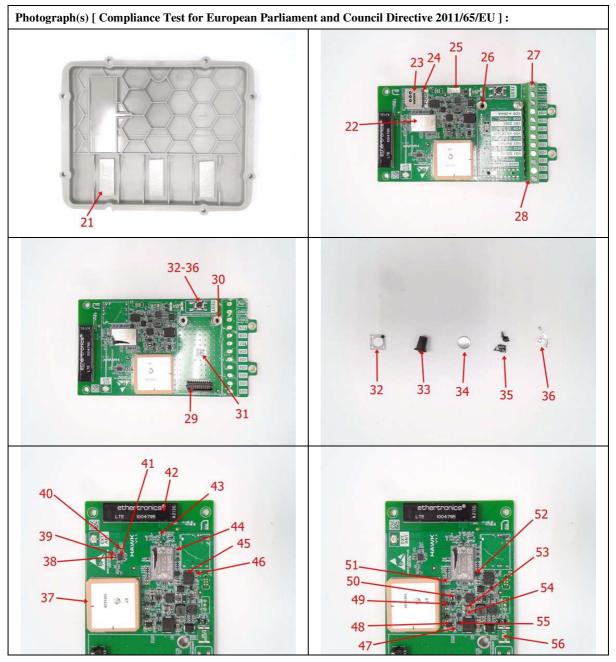
Comment:





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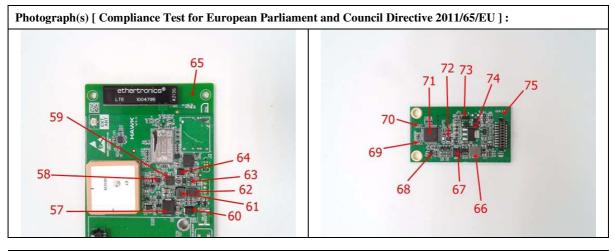
Comment:





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Comment:



END



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APPENDIX

| | List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [Compliance Test for European Parliament and Council Directive 2011/65/EU] : | | | | | | | |
|-----|--|---------|----------------------------------|---------------------|--|------------------------------------|--|--|
| | | | | | | | | |
| NT | | X-ray | fluorescence (| XRF) ^[a] | | Maximum Allowable | | |
| No. | Name of Analytes | Plastic | Metallic / glass / ceramic | Others | Wet Chemistry | Limit (mg/kg) | | |
| 1 | Lead (Pb) | 100 | 200 | 200 | 10 ^[b] | 1 000 | | |
| 2 | Cadmium (Cd) | 50 | 50 | 50 | 10 ^[b] | 100 | | |
| 3 | Mercury (Hg) | 100 | 200 | 200 | 10 ^[c] | 1 000 | | |
| 4 | Chromium (Cr) | 100 | 200 | 200 | NA | NA | | |
| 5 | Chromium VI (Cr VI) | NA | NA | NA | 3 ^[g, h] / 10 ^[d] / See ^[e, j] | 1 000 / Negative ^[j] | | |
| 6 | Bromine (Br) | 200 | NA | 200 | NA | NA | | |
| 7 | Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB) | NA | NA | NA | Each 50 ^[f] | Sum 1 000 | | |
| 8 | Polybromodiphenyl ethers (PBDEs) Bromodiphenyl ether (MonoBDE) Dibromodiphenyl ether (DiBDE) Tribromodiphenyl ether (TriBDE) Tetrabromodiphenyl ether (TetraBDE) Pentabromodiphenyl ether (PentaBDE) Hexabromodiphenyl ether (HexaBDE) Heptabromodiphenyl ether (HeptaBDE) Octabromodiphenyl ether (OctaBDE) Nonabromodiphenyl ether (NonaBDE) Decabromodiphenyl ether (DecaBDE) | NA | NA | NA | Each 50 ^[f] | Sum 1 000 | | |

NA = Not applicable

[a] Test method with reference to International Standard IEC 62321-3-1: 2013.

^[b] Test method with reference to International Standard IEC 62321-5: 2013.

[c] Test method with reference to International Standard IEC 62321-4: 2013+AMD 1:2017 CSV.

[d] Polymers and Electronics - Test method with reference to European Standard EN 62321-7-2: 2017.

[e] Metal - Test method with reference to International Standard IEC 62321-7-1: 2015 ^[i].

^[f] Test method with reference to International Standard IEC 62321-6: 2015.

[g] Leather - Test method International Standard ISO 17075: 2007.

[h] Other Than Metal, Leather, Polymers and Electronics - Test method with reference to International Standard ISO 17075: 2007.

[i] The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.



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Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Cr(VI): 0.1 $\mu g/cm2$

#The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13μ g/cm2. The coating is considered to contain Cr(VI).

(j) considered to contain Cr(VI).
 #The sample is negative for Cr(VI) if the Cr(VI) concentration is less than 0.10µg/cm2. The coating is considered a non-Cr(VI) based coating.

#The result between $0.10\mu g/cm^2$ and $0.13\mu g/cm^2$ is considered to be inconclusive – unavoidable coating variations may influence the determination.

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

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

1 International Standards IEC 62321-1: 2013 and IEC 62321-2: 2013

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

| List o | List of Phthalates: | | | | | | | | |
|--------|---------------------------------------|----------|-----|-----------------------------|---------|--|--|--|--|
| No. | Name of Analytes | CAS-No. | No. | Name of Analytes | CAS-No. | | | | |
| 1 | Bis(2-ethylhexyl) phthalate (DEHP) | 117-81-7 | 3 | Dibutyl phthalate (DBP) | 84-74-2 | | | | |
| 2 | Butyl benzyl phthalate (BBP) | 85-68-7 | 4 | Diisobutyl phthalate (DIBP) | 84-69-5 | | | | |