



TEST REPORT

Report No.: ANT2304110003-010

Page 1 of 29

Applicant : Honsenn Technology Co.,Ltd
Address : No.70, Erheng Road, wentang zhuangyao industrial zone, Dongcheng district, Dongguan City, Guangdong Province.
Manufacturer's name : Honsenn Technology Co.,Ltd
Address : No.70, Erheng Road, wentang zhuangyao industrial zone, Dongcheng district, Dongguan City, Guangdong Province.

Report on the submitted samples said to be:

Sample Name : Bluetooth Headphones
Trade Mark : N/A
Tested Style No. : HS-BN928
Series models : N/A
Sample reception time : April 11, 2023
Testing Period : April 11, 2023 ~ April 18, 2023
Test request : With reference to RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.
Test method : Please refer to next page(s).
Results : Please refer to next page(s).

CONCLUSION

A. According to the customer's request, based on the performed tests on submitted sample, the result of Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, Dibutyl Phthalate (DBP), Benzyl butyl Phthalate (BBP), Bis(2-ethylhexyl) Phthalate (DEHP), Diisobutyl phthalate (DIBP) content comply with the limit as set of RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Redact By

Yetta

 Yinon

Reviewed By

Sophia

Issued By

Date of issue April 26, 2023



TEST REPORT

Report No.: ANT2304110003-010

Page 2 of 29

Results:

A. EU RoHS Directive 2011/65/EU

| Part No. | Sample Description | Test item | XRF Result | Chemical Test (mg/kg) | Conclusion |
|----------|---------------------|-----------------|------------|-----------------------|------------|
| 1 | Grey leather | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 2 | Light yellow sponge | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 3 | Black plastic | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 4 | Grey hard plastic | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| DIBP | / | N.D. | | | |



TEST REPORT

Report No.: ANT2304110003-010

Page 3 of 29

| Part No. | Sample Description | Test item | XRF Result | Chemical Test (mg/kg) | Conclusion |
|----------|--------------------|-----------------|------------|-----------------------|------------|
| 5 | Silver sheet | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | X | N.D. | |
| | | Br(PBBs&PBDEs)▼ | / | / | |
| | | DBP | / | / | |
| | | BBP | / | / | |
| | | DEHP | / | / | |
| 6 | Black hard plastic | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 7 | Grey leather | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 8 | Yellow sponge | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| | | DIBP | / | N.D. | |



TEST REPORT

Report No.: ANT2304110003-010

Page 4 of 29

| Part No. | Sample Description | Test item | XRF Result | Chemical Test (mg/kg) | Conclusion |
|----------|--------------------|-----------------|------------|-----------------------|------------|
| 9 | White plastic | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 10 | Grey leather | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 11 | Black sponge strip | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 12 | Black hard plastic | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| | | DIBP | / | N.D. | |



TEST REPORT

Report No.: ANT2304110003-010

Page 5 of 29

| Part No. | Sample Description | Test item | XRF Result | Chemical Test (mg/kg) | Conclusion |
|----------|--------------------|-----------------|------------|-----------------------|------------|
| 13 | Black hard plastic | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 14 | Black sponge sheet | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 15 | Grey cloth | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 16 | Black cloth | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| | | DIBP | / | N.D. | |



TEST REPORT

Report No.: ANT2304110003-010

Page 6 of 29

| Part No. | Sample Description | Test item | XRF Result | Chemical Test (mg/kg) | Conclusion |
|----------|--------------------|-----------------|------------|-----------------------|------------|
| 17 | Black hard plastic | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 18 | White baseband | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | X | N.D. | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 19 | Black soft plastic | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 20 | Black hard plastic | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| DIBP | / | N.D. | | | |



TEST REPORT

Report No.: ANT2304110003-010

Page 7 of 29

| Part No. | Sample Description | Test item | XRF Result | Chemical Test (mg/kg) | Conclusion |
|----------|--------------------|-----------------|------------|-----------------------|------------|
| 21 | White hard plastic | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 22 | Grey mesh cloth | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 23 | Silver wire mesh | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | / | |
| | | BBP | / | / | |
| | | DEHP | / | / | |
| 24 | Black plastic ring | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| | | DIBP | / | N.D. | |



TEST REPORT

Report No.: ANT2304110003-010

Page 8 of 29

| Part No. | Sample Description | Test item | XRF Result | Chemical Test (mg/kg) | Conclusion |
|----------|------------------------|-----------------|------------|-----------------------|------------|
| 25 | White transparent film | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 26 | Copper wire | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | / | / | |
| | | DBP | / | / | |
| | | BBP | / | / | |
| | | DEHP | / | / | |
| 27 | Magnet | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | / | / | |
| | | DBP | / | / | |
| | | BBP | / | / | |
| | | DEHP | / | / | |
| 28 | Silver sheet | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | / | / | |
| | | DBP | / | / | |
| | | BBP | / | / | |
| | | DEHP | / | / | |



TEST REPORT

Report No.: ANT2304110003-010

Page 9 of 29

| Part No. | Sample Description | Test item | XRF Result | Chemical Test (mg/kg) | Conclusion |
|----------|-------------------------------------|-----------------|------------|-----------------------|------------|
| 29 | Silver sheet | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | X | N.D. | |
| | | Br(PBBs&PBDEs)▼ | / | / | |
| | | DBP | / | / | |
| | | BBP | / | / | |
| | | DEHP | / | / | |
| 30 | Black metal screw | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | X | / | |
| | | Br(PBBs&PBDEs)▼ | / | / | |
| | | DBP | / | / | |
| | | BBP | / | / | |
| | | DEHP | / | / | |
| 31 | Black soft plastic (insulated wire) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 32 | White soft plastic (insulated wire) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| | | DIBP | / | N.D. | |



TEST REPORT

Report No.: ANT2304110003-010

Page 10 of 29

| Part No. | Sample Description | Test item | XRF Result | Chemical Test (mg/kg) | Conclusion |
|----------|-------------------------------------|-----------------|------------|-----------------------|------------|
| 33 | Black soft plastic (insulated wire) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| | | DIBP | / | N.D. | |
| 34 | Red soft plastic (insulated wire) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| | | DIBP | / | N.D. | |
| 35 | Copper colored wire | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | / | / | |
| | | DBP | / | / | |
| | | BBP | / | / | |
| | | DEHP | / | / | |
| | | DIBP | / | / | |
| 36 | Triode (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| | | DIBP | / | N.D. | |



TEST REPORT

Report No.: ANT2304110003-010

Page 11 of 29

| Part No. | Sample Description | Test item | XRF Result | Chemical Test (mg/kg) | Conclusion |
|----------|-----------------------------------|-----------------|------------|-----------------------|------------|
| 37 | Black Plastic (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 38 | White Plastic (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 39 | Silver Sheet metal (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | / | |
| | | BBP | / | / | |
| | | DEHP | / | / | |
| 40 | IC (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| DIBP | / | N.D. | | | |



TEST REPORT

Report No.: ANT2304110003-010

Page 12 of 29

| Part No. | Sample Description | Test item | XRF Result | Chemical Test (mg/kg) | Conclusion |
|----------|--------------------------------|-----------------|------------|-----------------------|------------|
| 41 | Crystal oscillator (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | / | / | |
| | | DBP | / | / | |
| | | BBP | / | / | |
| | | DEHP | / | / | |
| 42 | Triode (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 43 | Patch capacitor (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 44 | IC (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| DIBP | / | N.D. | | | |



TEST REPORT

Report No.: ANT2304110003-010

Page 13 of 29

| Part No. | Sample Description | Test item | XRF Result | Chemical Test (mg/kg) | Conclusion |
|----------|---------------------------------|-----------------|------------|-----------------------|------------|
| 45 | Triode (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 46 | Silver Sheet metal (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | X | N.D. | |
| | | Br(PBBs&PBDEs)▼ | / | / | |
| | | DBP | / | / | |
| | | BBP | / | / | |
| | | DEHP | / | / | |
| 47 | Black Plastic Sheet (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 48 | Silver Metal Pin (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | X | N.D. | |
| | | Br(PBBs&PBDEs)▼ | / | / | |
| | | DBP | / | / | |
| | | BBP | / | / | |
| | | DEHP | / | / | |



TEST REPORT

Report No.: ANT2304110003-010

Page 14 of 29

| Part No. | Sample Description | Test item | XRF Result | Chemical Test (mg/kg) | Conclusion |
|----------|---------------------------|-----------------|------------|-----------------------|------------|
| 49 | Triode (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 50 | Green PCB board | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | X | N.D. | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 51 | Black Plastic (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| 52 | White Plastic (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | BL | / | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| | | DIBP | / | N.D. | |



TEST REPORT

Report No.: ANT2304110003-010

Page 15 of 29

| Part No. | Sample Description | Test item | XRF Result | Chemical Test (mg/kg) | Conclusion |
|----------|--------------------------------|-----------------|------------|-----------------------|------------|
| 53 | Silver Sheet metal (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | / | / | |
| | | DBP | / | / | |
| | | BBP | / | / | |
| | | DEHP | / | / | |
| | | DIBP | / | / | |
| 54 | IC (Green PCB) | Pb | BL | / | Pass |
| | | Cd | BL | / | |
| | | Hg | BL | / | |
| | | Cr(Cr(VI))▼ | BL | / | |
| | | Br(PBBs&PBDEs)▼ | X | N.D. | |
| | | DBP | / | N.D. | |
| | | BBP | / | N.D. | |
| | | DEHP | / | N.D. | |
| | | DIBP | / | N.D. | |



TEST REPORT

Report No.: ANT2304110003-010

Page 16 of 29

Note:

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

| Element | Unit | Non-metal | 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 |

BL = Below Limit
 OL = Over Limit
 X = Inconclusive

- (2) The XRF screening test for RoHS elements - The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the document 2015/863/EC amending RoHS directive 2011/65/EU.
- (4) ▼=For restricted substances PBBs and PBDEs, the results show the total Br content; The restricted substance was Cr (VI), and the results showed the total Cr content.

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.



TEST REPORT

Report No.: ANT2304110003-010

Page 17 of 29

(5) Test method:

Lead (Pb) & Cadmium (Cd) Content:

With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Mercury (Hg) Content:

With reference to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Hexavalent Chromium (Cr⁶⁺) Content:

With reference to IEC 62321-7-1:2015 or IEC 62321-7-2:2017, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

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

DBP, BBP, DEHP, DIBP Content:

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

| RoHS Restricted Substances | Unit | MDL | Maximum Concentration Value (mg/kg) (by weight in homogenous materials) |
|--|---|---|---|
| Cadmium (Cd) | mg/kg | 2 | 100 |
| Lead (Pb) | mg/kg | 2 | 1000 |
| Mercury (Hg) | mg/kg | 2 | 1000 |
| Hexavalent Chromium (Cr(VI)) | ug/cm ² (Metal); mg/kg (Nonmetal) | 0.1ug/cm ² (Metal); 8mg/kg (Nonmetal) | See below (Metal); 1000mg/kg (Nonmetal) |
| Polybrominated biphenyls (PBBs) | mg/kg | 5 | 1000 |
| Polybrominated diphenyl ethers (PBDEs) | mg/kg | 5 | 1000 |
| Dibutyl Phthalate (DBP) | mg/kg | 50 | 1000 |
| Benzyl butyl Phthalate (BBP) | mg/kg | 50 | 1000 |
| Bis(2-ethylhexyl) Phthalate (DEHP) | mg/kg | 50 | 1000 |
| Diisobutyl Phthalate (DIBP) | mg/kg | 50 | 1000 |



TEST REPORT

Report No.: ANT2304110003-010

Page 18 of 29

- MDL = Method Detection Limit
- /= Not apply
- LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 $\mu\text{g}/\text{cm}^2$
- mg/kg = ppm=parts per million
- N.D.=Not Detected (<MDL or LOQ)
- a. The sample is positive for Cr (VI) if the Cr (VI) concentration is greater than 0.13 $\mu\text{g}/\text{cm}^2$. The sample coating is considered to contain Cr (VI)
- b. The sample is negative for Cr (VI) if Cr (VI) is N.D. (concentration less than 0.10 $\mu\text{g}/\text{cm}^2$). The sample coating is considered a non- Cr (VI) based coating
- c. The result between 0.10 $\mu\text{g}/\text{cm}^2$ and 0.13 $\mu\text{g}/\text{cm}^2$ is considered to be inconclusive, unavoidable coating variations may influence the determination
- #1 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 5(a), Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.
- #2 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 7(c)-I, Lead is exempted in electronic ceramic or glass parts (e.g. piezo electronic devices).
- #3 According to the statement provided by the customer, RoHS directive 2011/65/EU based on ANNEX III 6(c), Lead is exempted as an alloying element in Copper containing up to 4% (4000ppm) by weight.
- #4 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 7(a), Lead is exempted in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).
- #5 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 6(b), Lead is exempted as an alloying element in Aluminum containing up to 0.4% (4000ppm) by weight.
- #6 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 8(b), Cadmium and its compounds in electrical contact is exempted.
- #7 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 6(a), Lead is exempted in steel for machining purposes and in galvanized steel containing up to 0.35% (3500ppm) by weight.
- Flow chart appendix is included
- Photo appendix is included.



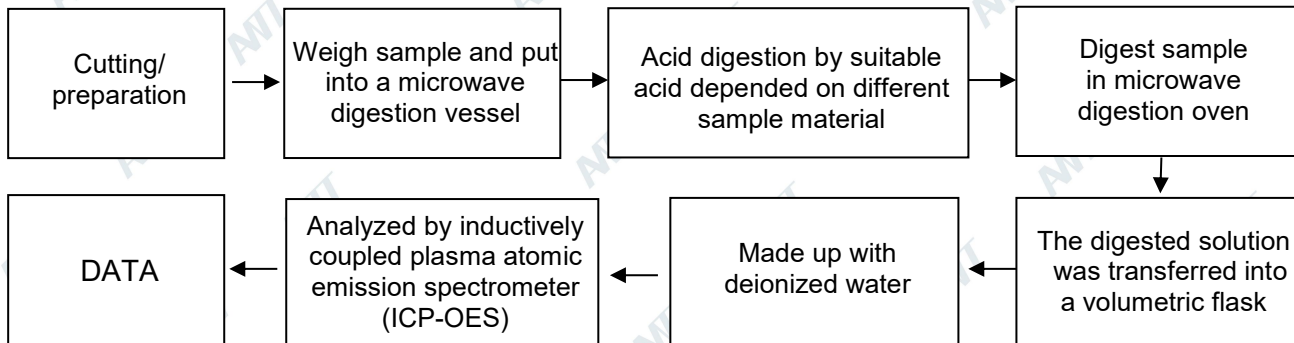
TEST REPORT

Report No.: ANT2304110003-010

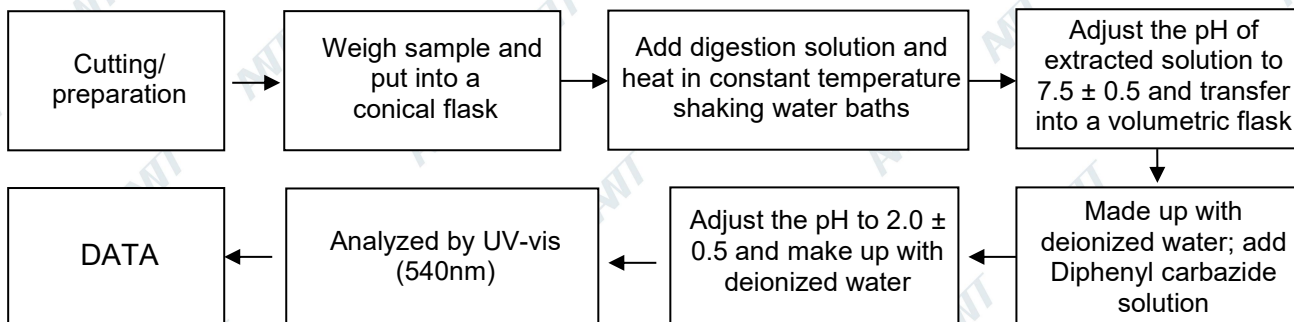
Page 19 of 29

Appendix

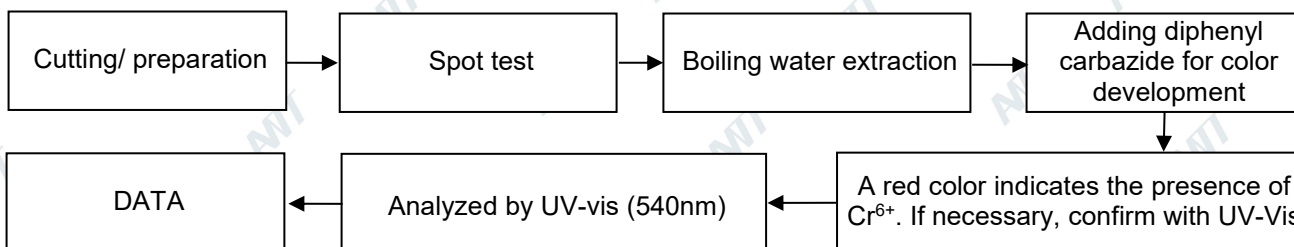
1. Test Flow chart for Cd/Pb /Hg content



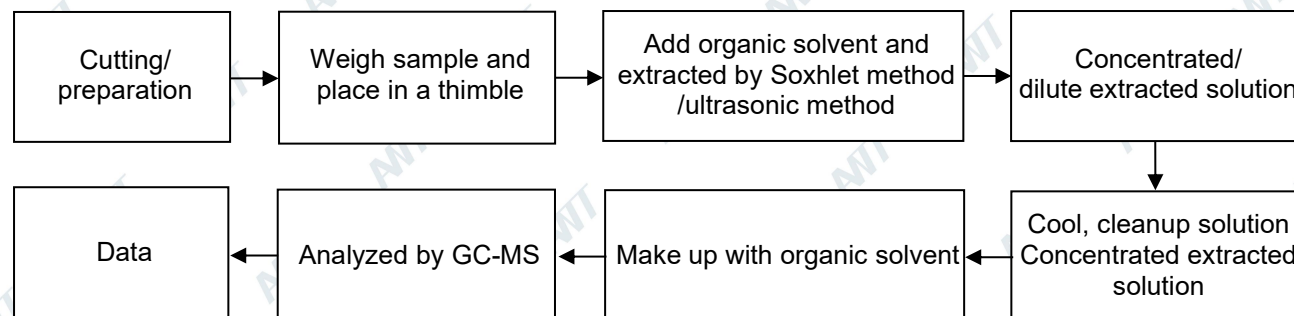
2. Test Flowchart for Cr⁶⁺ content (For non-metal material)



Test Flowchart for Cr⁶⁺ content (For metal material)



3. Test Flow chart for PBBs & PBDEs & DBP & BBP & DEHP & DIBP content





TEST REPORT

Report No.: ANT2304110003-010

Page 20 of 29

The photo of the sample





TEST REPORT

Report No.: ANT2304110003-010

Page 21 of 29





TEST REPORT

Report No.: ANT2304110003-010

Page 22 of 29





TEST REPORT

Report No.: ANT2304110003-010

Page 23 of 29





TEST REPORT

Report No.: ANT2304110003-010

Page 24 of 29

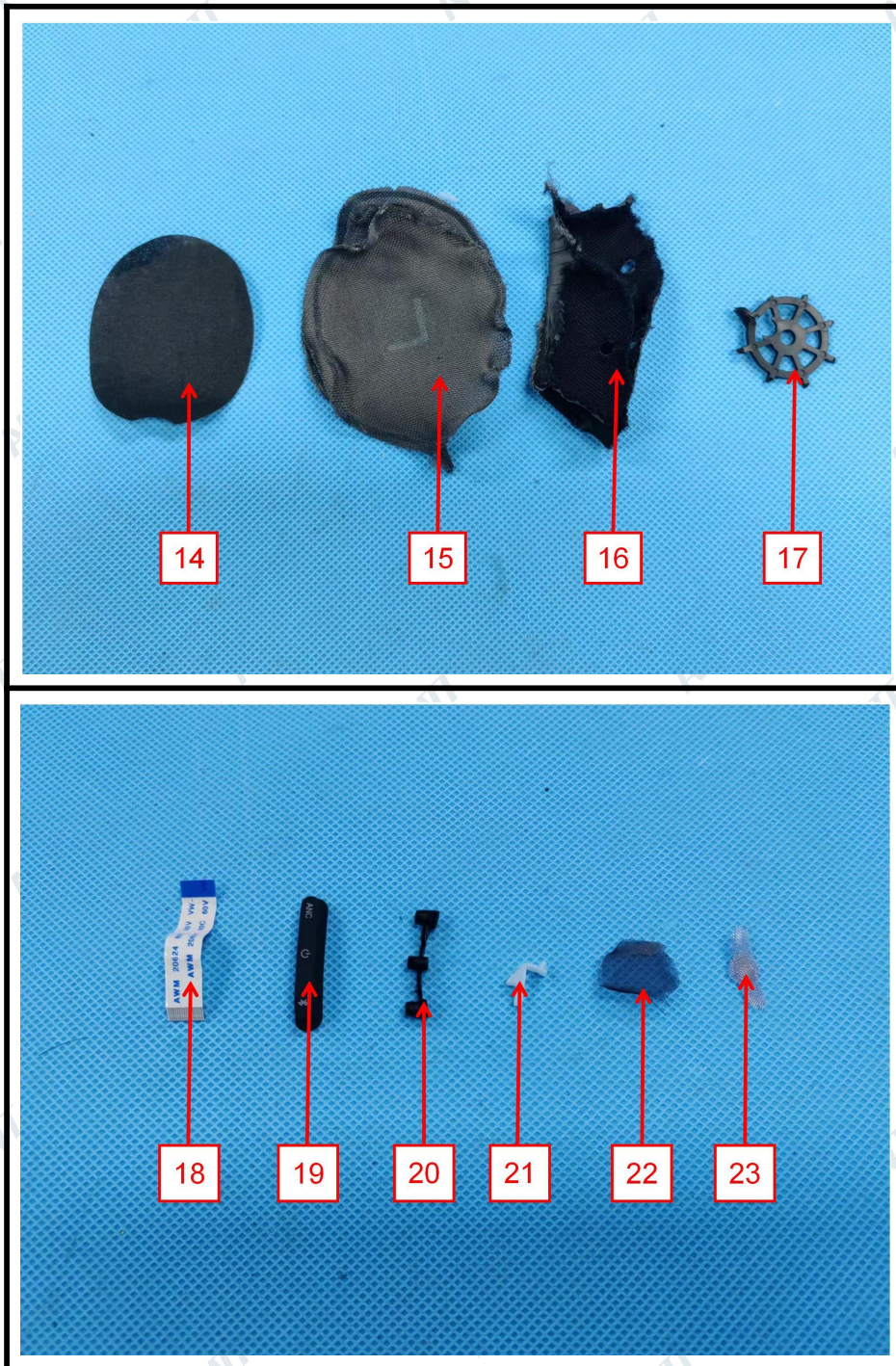




TEST REPORT

Report No.: ANT2304110003-010

Page 25 of 29

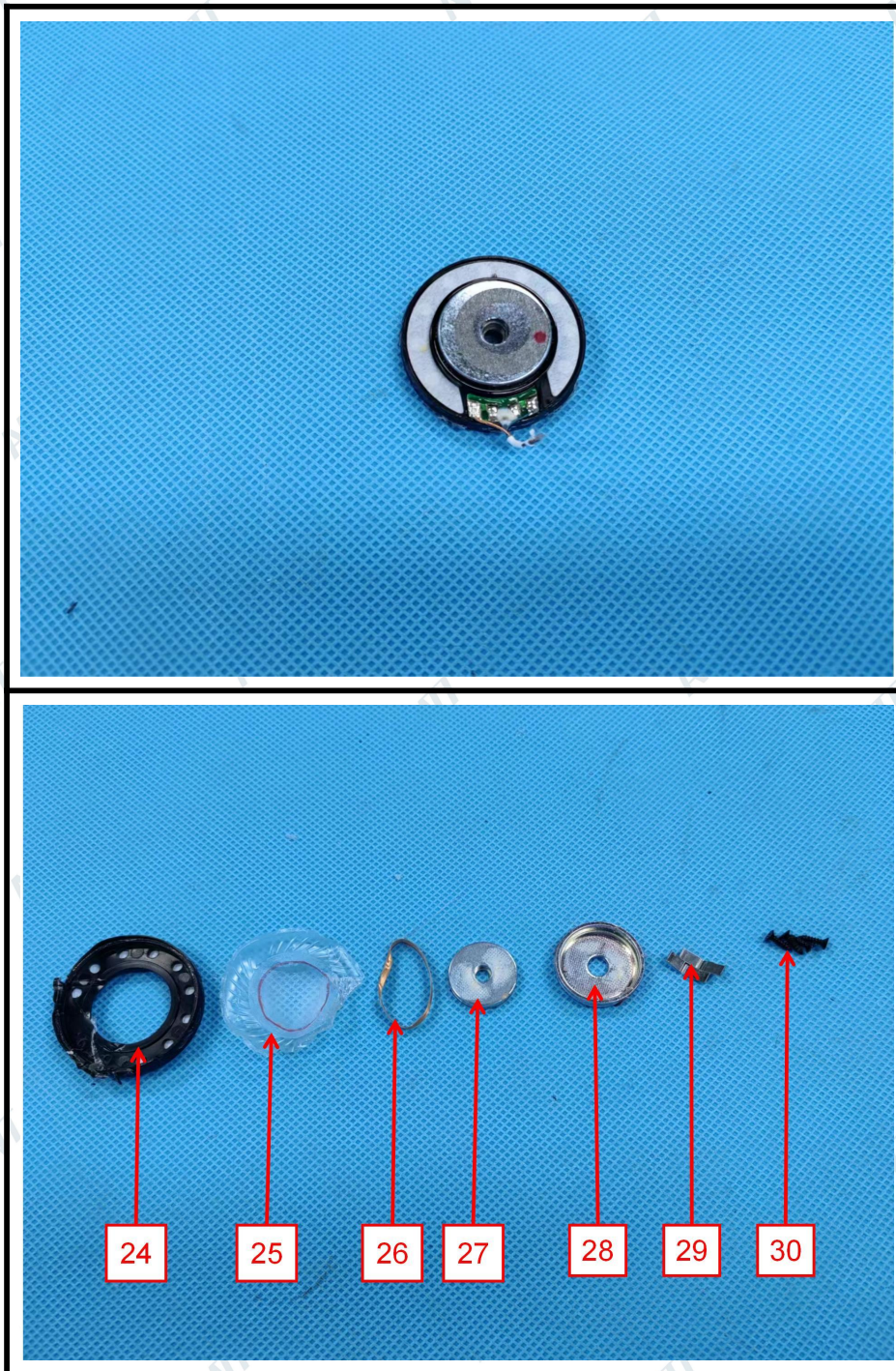




TEST REPORT

Report No.: ANT2304110003-010

Page 26 of 29

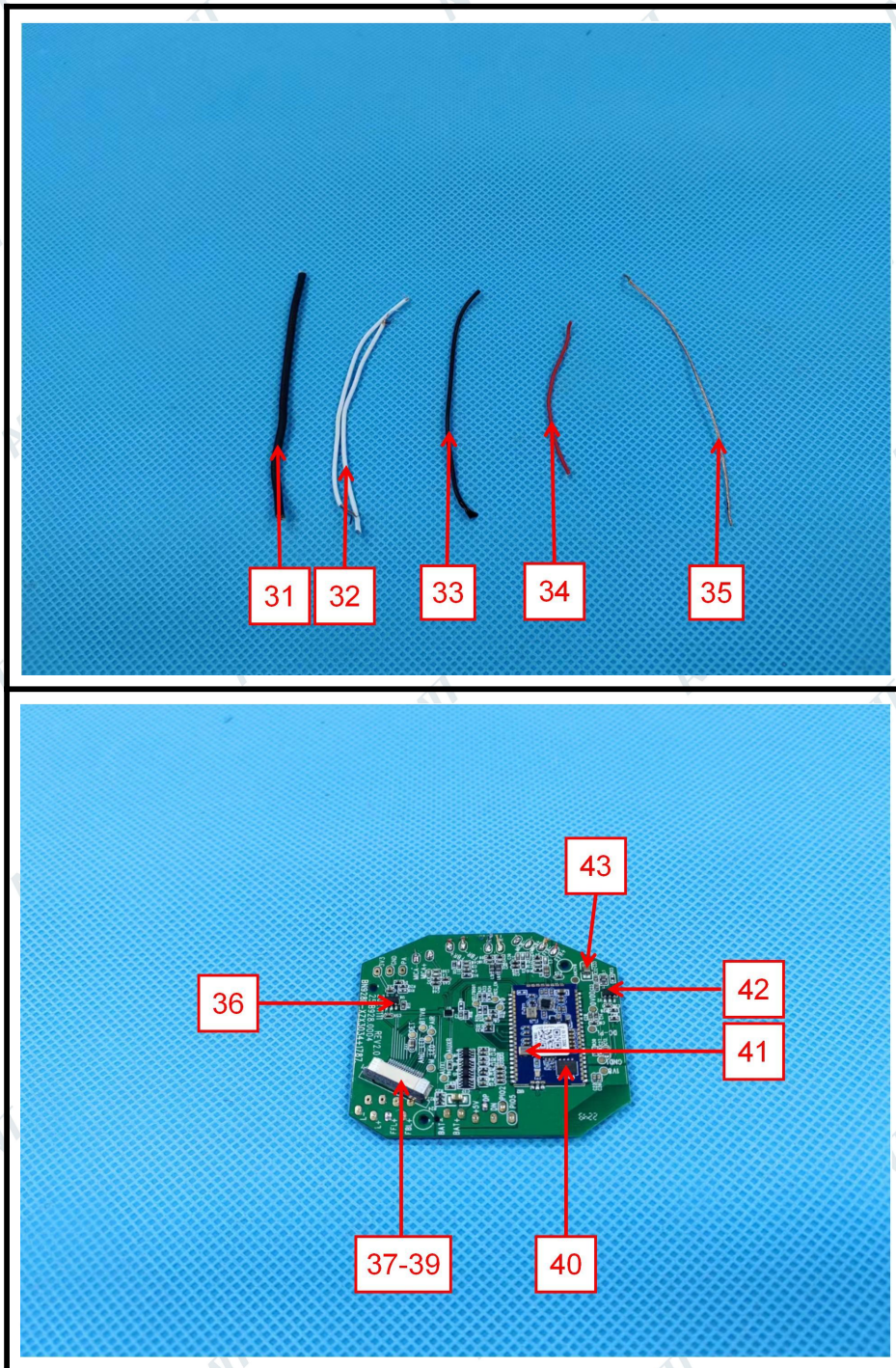




TEST REPORT

Report No.: ANT2304110003-010

Page 27 of 29

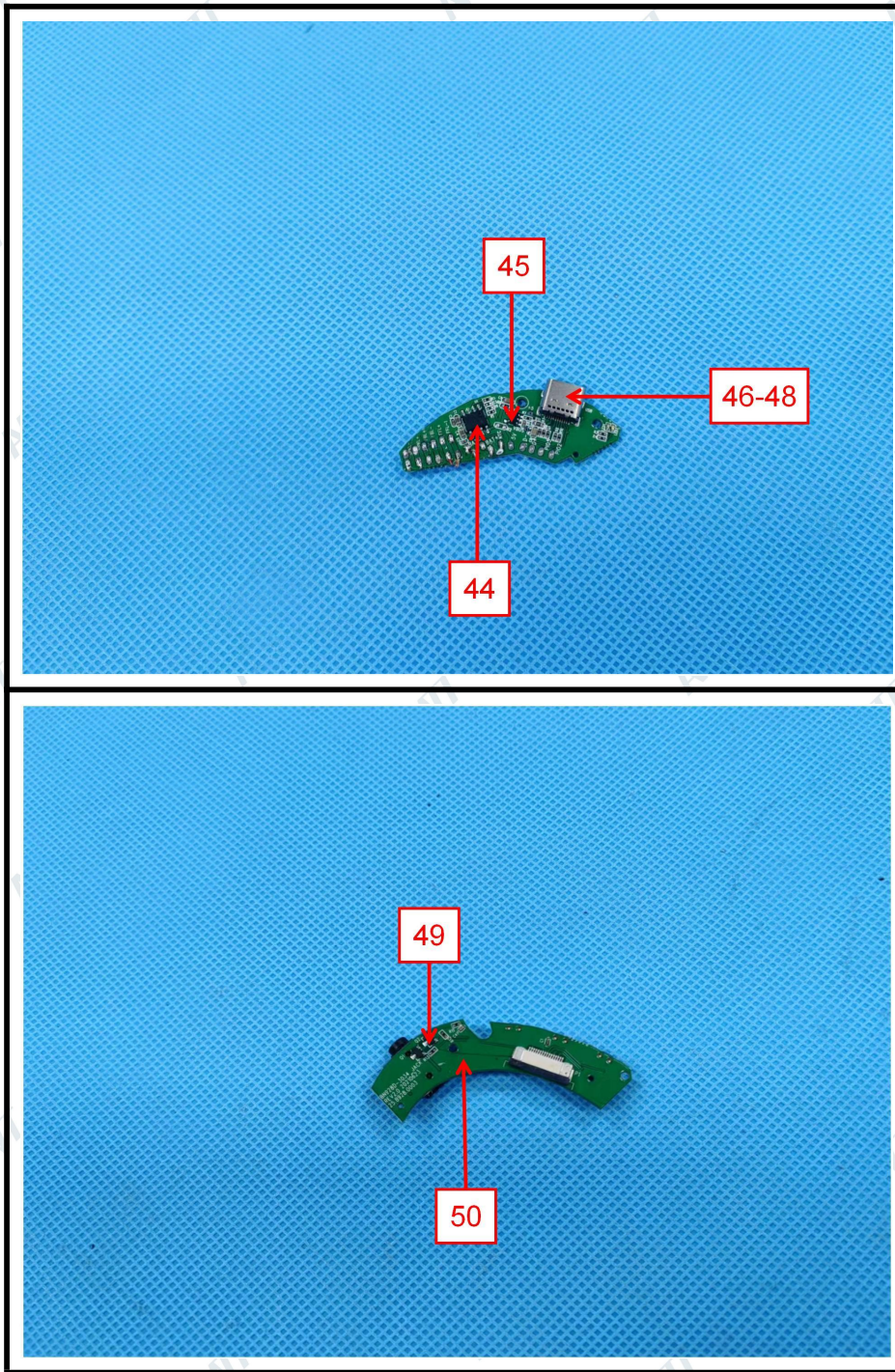




TEST REPORT

Report No.: ANT2304110003-010

Page 28 of 29

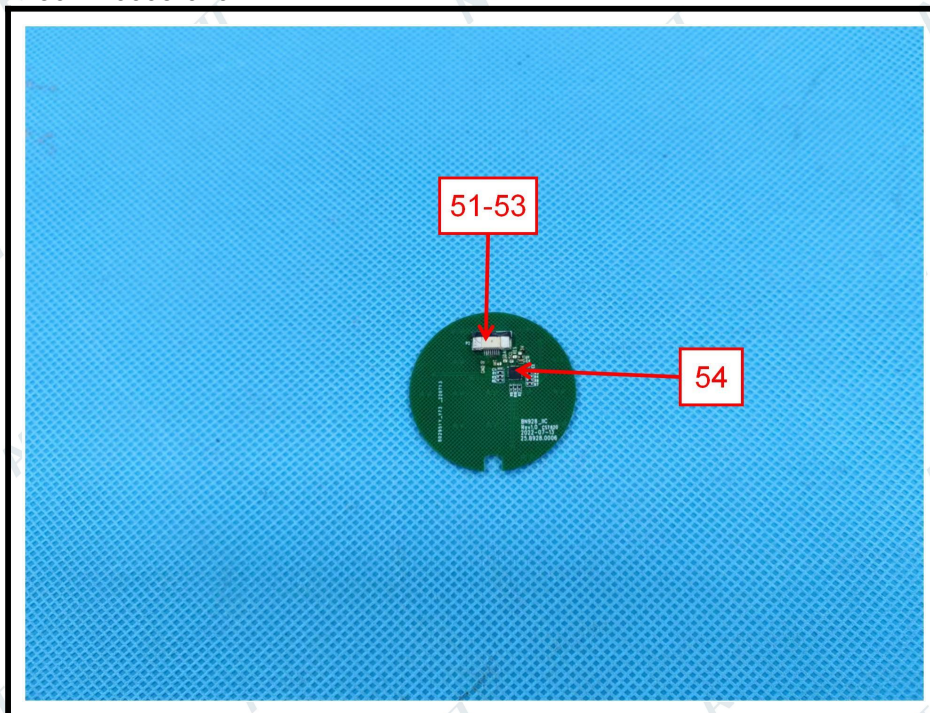




TEST REPORT

Report No.: ANT2304110003-010

Page 29 of 29



ANT authenticate the photo on original report only

Statement:

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2. The result(s) shown in this report refer only to the sample(s) tested.
3. Without written approval of ANT, this report can't be reproduced except in full.
4. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which ANT hasn't verified.
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*** End of Report ***