



TEST REPORT

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REPORT No.:CTB25111703402C01

Applicant's name: NEO Smart Technology (GuangDong) Co., LTD
Address: Floor 7, 8, 9, 10, Building 28, No. 29, Licheng Industrial Avenue, Shuikou Street, Huicheng District, Huizhou City

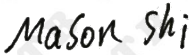
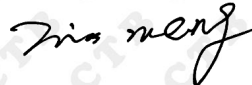
Manufacturer: NEO Smart Technology (GuangDong) Co., LTD
Address: Floor 7, 8, 9, 10, Building 28, No. 29, Licheng Industrial Avenue, Shuikou Street, Huicheng District, Huizhou City

The following samples were submitted and identified on behalf of the clients as:

Test item description: Soil Sensor
Trademark(s): NEO
Model/Type reference: NAS-STH02W, NAS-STH01W, NAS-STH03W, NAS-STH04W, NAS-STH05W, NAS-STH06W, NAS-STH07W, NAS-STH08W
Sample received date: Nov.20, 2025
Testing period: Nov.20, 2025 to Nov.27, 2025
Test Method: Please refer to next page(s).
Test Result: Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
European Directive 2011/65/EU and amendment (EU) 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment	PASS

Tested By: 	Check By: 	Approve By: 
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Date:Dec. 04, 2025

Test Method:**A. Screening test by XRF spectroscopy**

XRF screening limits for regulated elements according to IEC 62321-3-1:2013

Element	Screening limit / mg/kg		MDL	
	Polymers and metals	Composite material	Polymers	Other material
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma)$ $\leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma)$ $\leq OL$	10mg/kg	50mg/kg
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma)$ $\leq OL$	$BL \leq (50-3\sigma) < X < (150+3\sigma)$ $\leq OL$	10mg/kg	50mg/kg
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma)$ $\leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma)$ $\leq OL$	10mg/kg	50mg/kg
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$	10mg/kg	50mg/kg
Br	$BL \leq (300-3\sigma) < X$ (non-metal only)	$BL \leq (250-3\sigma) < X$	10mg/kg	50mg/kg

B. Chemical Test

Test Item(s)	Test Method	Analysis Equipment(s)	MDL	Limit
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	2 mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000mg/kg
Hexavalent Chromium Cr(VI)	IEC 62321-7-1:2015	UV-VIS	--	1000mg/kg
	IEC 62321-7-2:2017		10mg/kg	1000mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	10mg/kg	1000mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	10mg/kg	1000mg/kg
Phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg

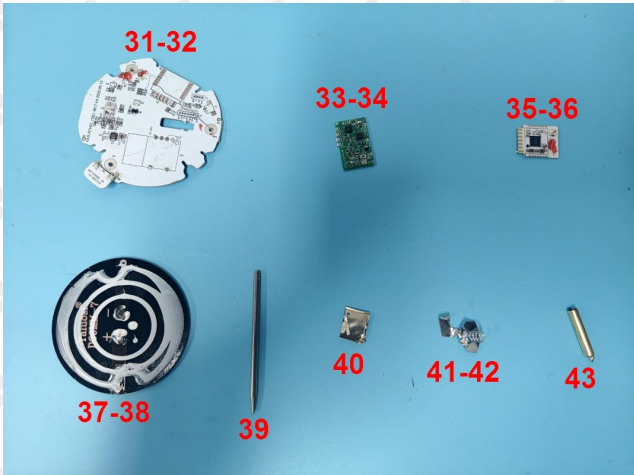
Tested material list

No.	Description	Photo(s) of tested material
1	Light blue soft rubber	
2	Transparent soft rubber	
3	Grey soft rubber	
4	Green soft rubber	
5	Black plastic	
6	Green plastic	
7	Grey plastic	
8	White plastic	
9	Dark grey plastic	
10	Blue plastic	
11	Black PCB	
12	Green plastic	
13	Black plastic	
14	Transparent soft rubber	
15	Grey soft rubber	
16	Black soft rubber	
17	Transparent soft rubber	
18	White soft rubber	
19	Blue soft rubber	
20	Black plastic sleeve	
21	Beige plastic	
22	IC	
23	Triode	
24	Brown capacitor	
25	IC	
26	Black plastic wire skin	
27	White plastic	
28	Black plastic wire skin	
29	Red plastic wire skin	
30	Silver metal	

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31	White PCB	
32	Solder point	
33	Green PCB	
34	Solder point	
35	White PCB	
36	Solder point	
37	Black PCB	
38	Solder point	
39	Silver metal	
40	Silver metal	
41	Silver metal	
42	Silver metal spring	
43	Copper metal	

Note: test samples were specified by applicant.

Test Result(s):

No.	XRF screening Result					Chemical confirm Result (mg/kg)	Remark	Conclusion
	Pb	Cd	Hg	Cr	Br			
1	BL	BL	BL	BL	BL	---	---	PASS
2	BL	BL	BL	BL	BL	---	---	PASS
3	BL	BL	BL	BL	BL	---	---	PASS
4	BL	BL	BL	BL	BL	---	---	PASS
5	BL	BL	BL	BL	BL	---	---	PASS
6	BL	BL	BL	BL	BL	---	---	PASS
7	BL	BL	BL	BL	BL	---	---	PASS
8	BL	BL	BL	BL	BL	---	---	PASS
9	BL	BL	BL	BL	BL	---	---	PASS
10	BL	BL	BL	BL	BL	---	---	PASS
11	BL	BL	BL	BL	BL	---	---	PASS
12	BL	BL	BL	BL	BL	---	---	PASS

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13	BL	BL	BL	BL	BL	---	---	PASS
14	BL	BL	BL	BL	BL	---	---	PASS
15	BL	BL	BL	BL	BL	---	---	PASS
16	BL	BL	BL	BL	BL	---	---	PASS
17	BL	BL	BL	BL	BL	---	---	PASS
18	BL	BL	BL	BL	BL	---	---	PASS
19	BL	BL	BL	BL	BL	---	---	PASS
20	BL	BL	BL	BL	BL	---	---	PASS
21	BL	BL	BL	BL	BL	---	---	PASS
22	BL	BL	BL	BL	BL	---	---	PASS
23	BL	BL	BL	BL	BL	---	---	PASS
24	BL	BL	BL	BL	BL	---	---	PASS
25	BL	BL	BL	BL	BL	---	---	PASS
26	BL	BL	BL	BL	BL	---	---	PASS
27	BL	BL	BL	BL	BL	---	---	PASS
28	BL	BL	BL	BL	BL	---	---	PASS
29	BL	BL	BL	BL	BL	---	---	PASS
30	BL	BL	BL	BL	NA	---	---	PASS
31	BL	BL	BL	BL	X	PBBs: N.D PBDEs: N.D	---	PASS
32	BL	BL	BL	BL	NA	---	---	PASS
33	BL	BL	BL	BL	X	PBBs: N.D PBDEs: N.D	---	PASS
34	BL	BL	BL	BL	NA	---	---	PASS
35	BL	BL	BL	BL	X	PBBs: N.D PBDEs: N.D	---	PASS
36	BL	BL	BL	BL	NA	---	---	PASS
37	BL	BL	BL	BL	BL	---	---	PASS
38	BL	BL	BL	BL	NA	---	---	PASS
39	BL	BL	BL	X	NA	Cr ⁶⁺ :Negative	---	PASS
40	BL	BL	BL	BL	NA	---	---	PASS
41	BL	BL	BL	BL	NA	---	---	PASS

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42	BL	BL	BL	BL	NA	---	---	PASS
43	BL	BL	BL	BL	NA	---	---	PASS

Test Item(s)	Dibutyl Phthalate (DBP) (mg/kg)	Benzylbutyl Phthalate (BBP) (mg/kg)	Bis-(2-ethylhexyl) Phthalate (DEHP) (mg/kg)	Diisobutyl phthalate (DIBP) (mg/kg)	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit	1000	1000	1000	1000	
No.	Result (mg/kg)				
1+3+4	N.D	N.D	N.D	N.D	PASS
2	N.D	N.D	N.D	N.D	PASS
5+6+7+8+9+10	N.D	N.D	N.D	N.D	PASS
12+13	N.D	N.D	N.D	N.D	PASS
14+15+16+17+19	N.D	N.D	N.D	N.D	PASS
18	N.D	N.D	N.D	N.D	PASS
20	N.D	N.D	N.D	N.D	PASS
11+21+22+23+24	N.D	N.D	N.D	N.D	PASS
25+27+31+33+35+37	N.D	N.D	N.D	N.D	PASS
26	N.D	N.D	N.D	N.D	PASS
28+29	N.D	N.D	N.D	N.D	PASS

Remark:

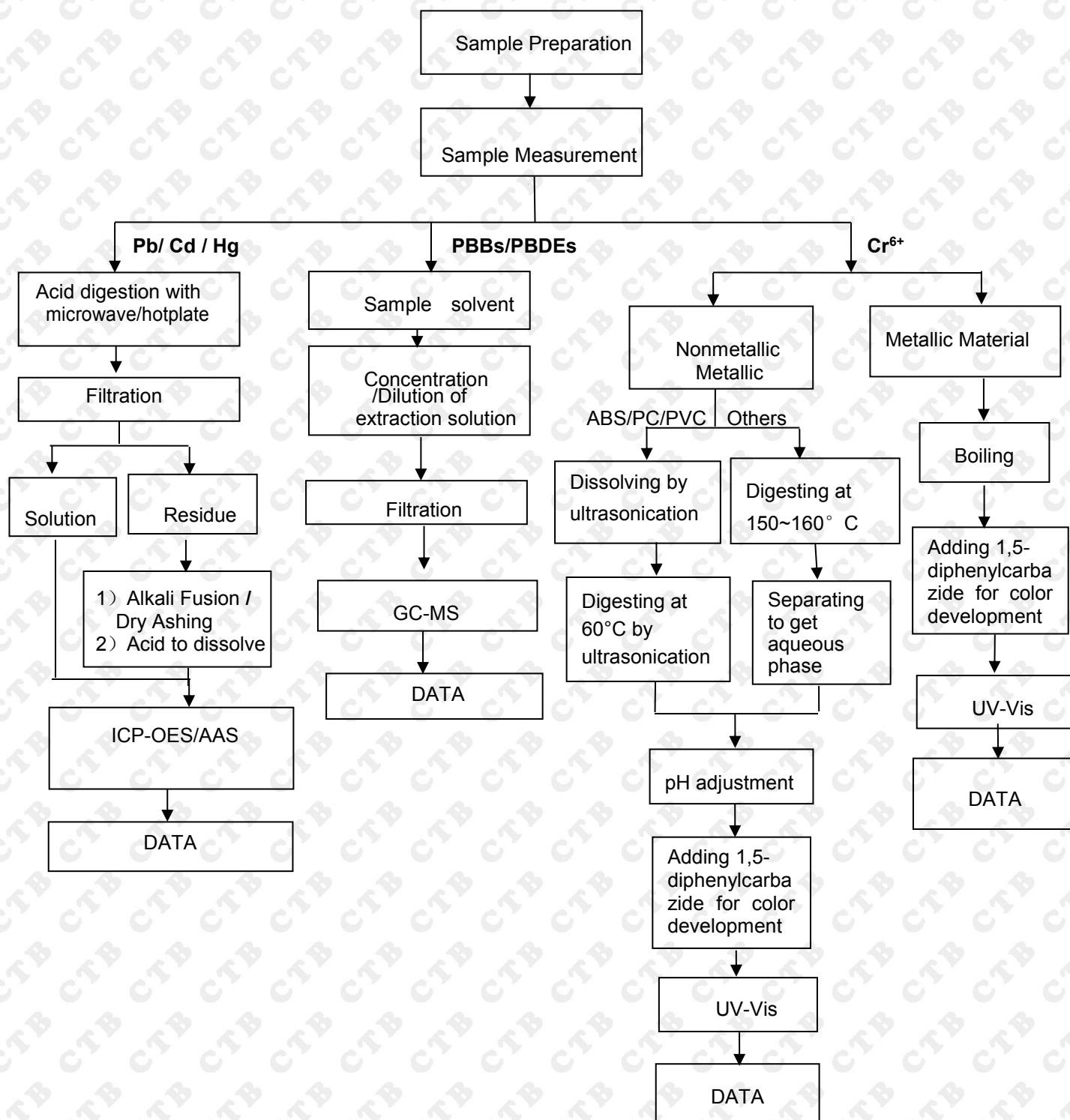
1. BL = below the limit
2. OL = over the limit
3. X = inconclusive, chemical confirm test is needed
4. NA = metal not applicable
5. mg/kg = milligram per kilogram = ppm
6. N.D = not detected
7. Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.1µg/cm² sample surface area used.
8. Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than 0.13µg/cm².
9. sample surface area used.The limit for composite test should be divided by the mixed number.

Note:

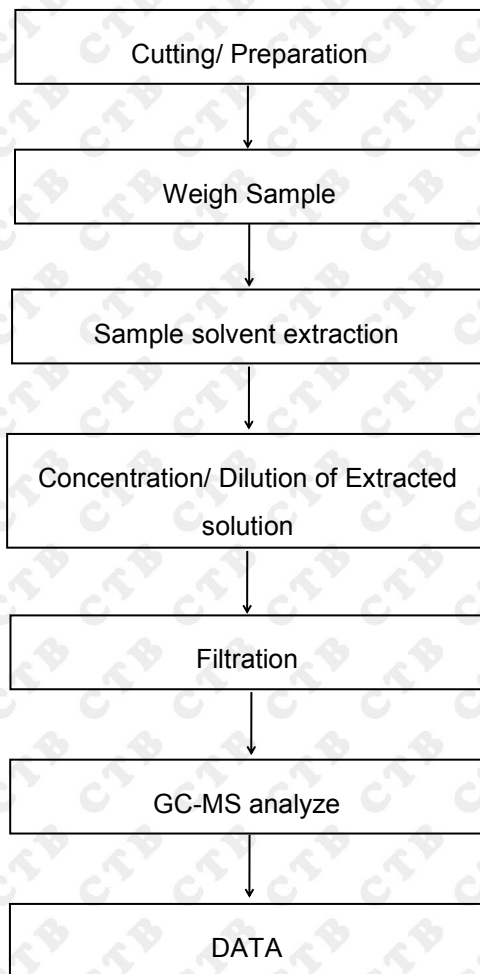
1. When perform screening tests, it is the result on total Br while test item on restricted substances is PBBs/PBDEs, it is the result on total Cr while test item on restricted substances is Cr^{6+} .
2. Pb, Cd, Hg, Cr and Br results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr^{6+}) and GC-MS (for PBBs, PBDEs) is needed to be performed, if the concentration falls into the inconclusive area according to IEC 62321-3-1:2013.
3. For the XRF screening test for RoHS elements, the reading may be different to the actual content in the sample be of non-uniformity composition.
4. As requested by the applicant, EU RoHS test was conducted only on components listed in this report. Other components were not tested.

Test flow chart

1. Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs



2. Phthalate test flow chart



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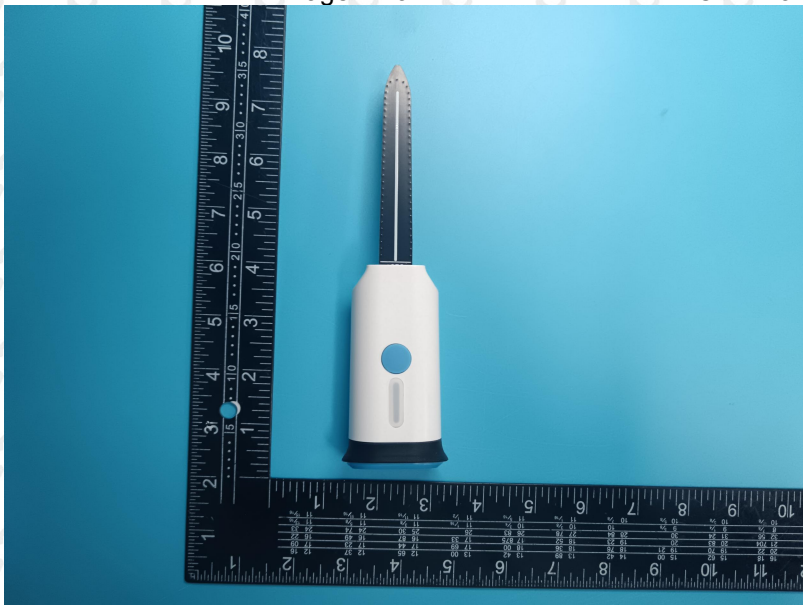
Photo documentation



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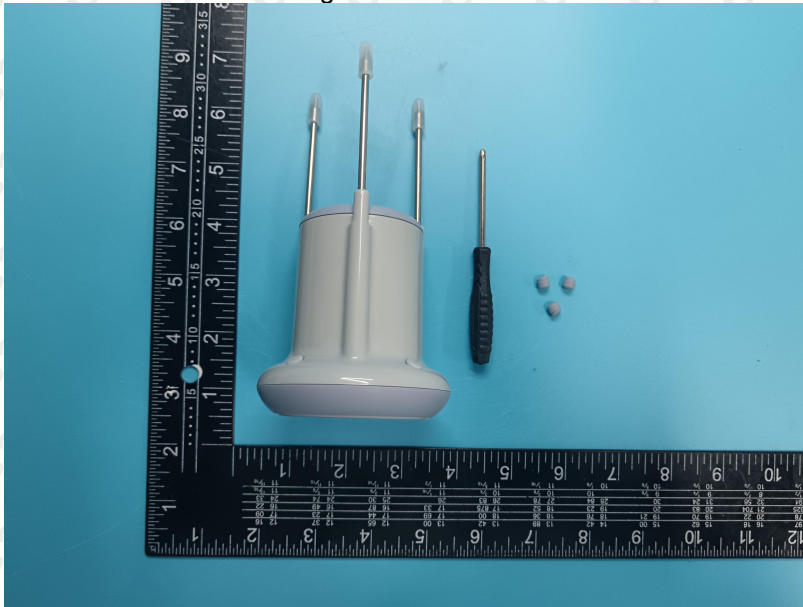
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*** End of Report ***

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. The result decision rules of our laboratory are based solely on the direct comparison between the actual measured values of test results and the standard limits, without considering the measurement uncertainty. "★" indicates the testing items were fulfilled by subcontracted lab. "※" indicates the items are not in CNAS accreditation scope.