



TEST REPORT

Applicant : Shenzhen Gago Electronics Co., Ltd
Address : 10th Floor, 4th Building, the 4th Industrial Park, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China

Report on the submitted samples said to be:

Sample Name(s) : Sound AI Light
Trade Mark : N/A
Tested Model No. : GG-POEDC1BE-BRW
Model List## : GG-POEDC1BE-BGW, GG-POEDC-XXXXXXX
Sample Received Date : January 09, 2025
Testing Period : January 09, 2025 ~ January 20, 2025
Date of Report : January 20, 2025
Testing Location : 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China
Results : Please refer to next page(s).

TEST REQUEST	CONCLUSION
As specified by client, based on the performed tests on submitted sample, the result of Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs, Dibutyl Phthalate(DBP), Butylbenzyl Phthalate(BBP), Di-2-ethylhexyl Phthalate(DEHP) and Diisobutyl phthalate(DIBP) content comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.	PASS

= According to client's declaration, tested material would be produced as relevant product(s).

Signed for and on behalf of LCS

Terry Luo

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**A. EU RoHS Directive 2011/65/EU and its amendment directives**

Test method: Refer to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF).

Test result(s):

Sample No.	Sample Description	Screening Result(s)						Date of sample submission/ Resubmission
		Cd	Pb	Hg	Cr [▼]	Br [▼]		
						PBBs	PBDEs	
1	Translucent plastic sheet	BL	BL	BL	BL	BL	BL	2025-01-09
2	Grey sheet metal	BL	BL	BL	BL	/	/	2025-01-09
3	Silver label	BL	BL	BL	BL	BL	BL	2025-01-09
4	Black rubber ring	BL	BL	BL	BL	BL	BL	2025-01-09
5	Silver plastic sheet	BL	BL	BL	BL	BL	BL	2025-01-09
6	Yellow lamp bead	BL	BL	BL	BL	BL	BL	2025-01-09
7	White lamp beads	BL	BL	BL	BL	BL	BL	2025-01-09
8	White plastic sheet	BL	BL	BL	BL	BL	BL	2025-01-09
9	Silver metal needle	BL	BL	BL	BL	/	/	2025-01-09
10	Silver metal plate	BL	BL	BL	BL	/	/	2025-01-09
11	White plastic sheet	BL	BL	BL	BL	BL	BL	2025-01-09
12	Silver metal needle	BL	BL	BL	BL	/	/	2025-01-09
13	White plastic thread	BL	BL	BL	BL	BL	BL	2025-01-09
14	Black plastic thread	BL	BL	BL	BL	BL	BL	2025-01-09
15	Blue plastic thread	BL	BL	BL	BL	BL	BL	2025-01-09
16	Green plastic thread	BL	BL	BL	BL	BL	BL	2025-01-09
17	Silver wire	BL	BL	BL	BL	/	/	2025-01-09
18	Black plastic wire sheath	BL	BL	BL	BL	BL	BL	2025-01-09
19	Silver plastic sheet	BL	BL	BL	BL	BL	BL	2025-01-09
20	Red plastic thread	BL	BL	BL	BL	BL	BL	2025-01-09
21	Black plastic thread	BL	BL	BL	BL	BL	BL	2025-01-09
22	Green plastic thread	BL	BL	BL	BL	BL	BL	2025-01-09
23	Blue plastic thread	BL	BL	BL	BL	BL	BL	2025-01-09
24	Pink plastic thread skin	BL	BL	BL	BL	BL	BL	2025-01-09
25	Yellow plastic thread	BL	BL	BL	BL	BL	BL	2025-01-09
26	Grey plastic thread	BL	BL	BL	BL	BL	BL	2025-01-09
27	White plastic thread	BL	BL	BL	BL	BL	BL	2025-01-09
28	White plastic sheet	BL	BL	BL	BL	BL	BL	2025-01-09
29	Silver metal needle	BL	BL	BL	BL	/	/	2025-01-09

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Sample No.	Sample Description	Screening Result(s)						Date of sample submission/ Resubmission
		Cd	Pb	Hg	Cr [▼]	Br [▼]		
						PBBs	PBDEs	
30	White plastic sheet	BL	BL	BL	BL	BL	BL	2025-01-09
31	Silver metal needle	BL	BL	BL	BL	/	/	2025-01-09
32	Red plastic thread	BL	BL	BL	BL	BL	BL	2025-01-09
33	Black plastic thread	BL	BL	BL	BL	BL	BL	2025-01-09
34	Silver wire	BL	BL	BL	BL	/	/	2025-01-09
35	Black plastic sheet	BL	BL	BL	BL	BL	BL	2025-01-09
36	Bright black plastic sheet	BL	BL	BL	BL	BL	BL	2025-01-09
37	Copper colored metal wire	BL	BL	BL	BL	/	/	2025-01-09
38	Silver magnet	BL	BL	BL	BL	/	/	2025-01-09
39	Silver sheet metal	BL	BL	BL	BL	/	/	2025-01-09
40	Black dry glue	BL	BL	BL	BL	BL	BL	2025-01-09
41	Tin solder	BL	BL	BL	BL	/	/	2025-01-09
42	Black plastic sheet	BL	BL	BL	BL	BL	BL	2025-01-09
43	Silver metal screw	BL	BL	BL	BL	/	/	2025-01-09
44	Silver metal screw	BL	BL	BL	BL	/	/	2025-01-09
45	Black plastic wire sheath	BL	BL	BL	BL	BL	BL	2025-01-09
46	Black soft plastic	BL	BL	BL	BL	BL	BL	2025-01-09
47	Silver metal needle	BL	BL	BL	BL	/	/	2025-01-09
48	Black soft plastic	BL	BL	BL	BL	BL	BL	2025-01-09
49	Black plastic sheet	BL	BL	BL	BL	BL	BL	2025-01-09
50	Silver metal needle	BL	BL	BL	BL	/	/	2025-01-09
51	Black diode	BL	BL	BL	BL	BL	BL	2025-01-09
52	Black IC	BL	BL	BL	BL	BL	BL	2025-01-09
53	Black plastic sheet	BL	BL	BL	BL	BL	BL	2025-01-09
54	Silver metal shell	BL	BL	BL	BL	/	/	2025-01-09
55	Black plastic ring	BL	BL	BL	BL	BL	BL	2025-01-09
56	Silver sheet metal	BL	BL	BL	BL	/	/	2025-01-09
57	Yellow wet paper	BL	BL	BL	BL	BL	BL	2025-01-09
58	Grey sheet metal	BL	BL	BL	BL	/	/	2025-01-09
59	Silver metal needle	BL	BL	BL	BL	/	/	2025-01-09
60	Black plastic sheet	BL	BL	BL	BL	BL	BL	2025-01-09
61	Brown plastic sheet	BL	BL	BL	BL	BL	BL	2025-01-09
62	Silver metal shell	BL	BL	BL	BL	/	/	2025-01-09
63	White plastic sheet	BL	BL	BL	BL	BL	BL	2025-01-09

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Sample No.	Sample Description	Screening Result(s)						Date of sample submission/ Resubmission
		Cd	Pb	Hg	Cr [▼]	Br [▼]		
						PBBs	PBDEs	
64	Silver sheet metal	BL	BL	BL	BL	/	/	2025-01-09
65	Black IC	BL	BL	BL	BL	BL	BL	2025-01-09
66	Tin solder	BL	BL	BL	BL	/	/	2025-01-09
67	PCB board	BL	BL	BL	BL	BL	BL	2025-01-09
68	Brown capacitor	BL	BL	BL	BL	BL	BL	2025-01-09
69	Black triode	BL	BL	BL	BL	BL	BL	2025-01-09
70	Black magnetic core	BL	BL	BL	BL	/	/	2025-01-09
71	Black diode	BL	BL	BL	BL	BL	BL	2025-01-09
72	Black IC	BL	BL	BL	BL	BL	BL	2025-01-09
73	Black IC	BL	BL	BL	BL	BL	BL	2025-01-09
74	Black IC	BL	BL	BL	BL	BL	BL	2025-01-09
75	Chip resistor	BL	BL	BL	BL	BL	BL	2025-01-09

Note:

- 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(Unit: mg/kg).

Element	Polymers	Metals	Composite material
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	N/A	$BL \leq (250-3\sigma) < X$

Remark:

- BL= Below Limit
 - OL= Over Limit
 - X= The range of needing to do further testing
 - 3σ= The reproducibility of analytical instruments
 - N/A= Not applicable
 - LOD= Detection limit
- The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
 - The maximum permissible limit is quoted from the document RoHS Directive 2011/65/EU with amendment (EU) 2015/863.
 - ▼=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.

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RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium(Cd)	100
Lead(Pb)	1000
Mercury(Hg)	1000
Hexavalent Chromium(Cr(VI))	1000
Polybrominated biphenyls(PBBs)	1000
Polybrominated diphenylethers(PBDEs)	1000
Dibutyl Phthalate(DBP)	1000
Butylbenzyl Phthalate(BBP)	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	1000
Diisobutyl phthalate(DIBP)	1000

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.



**B. EU RoHS Directive 2011/65/EU with amendment (EU) 2015/863 on DBP, BBP, DEHP & DIBP content**

Test method:

Phthalates(DBP, BBP, DEHP &DIBP) Content:

Refer to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatography-mass spectrometer (GC-MS).

Test result(s):

1) Phthalates(DBP, BBP, DEHP &DIBP)

Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
		(1+3+4+5+6+7)	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000

Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
		(8+11+13+14+15+16)	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000

Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
		(18+19+20+21+22+23)	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000

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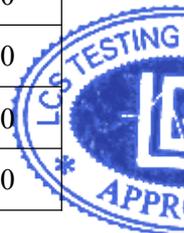


Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
		(24+25+26+27+28+30)	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000

Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
		(32+33+35+36+40+42)	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000

Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
		(45+46+48+49+51+52)	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000

Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
		(53+55+57+60+61+63)	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000



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Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
		(65+67+68+69+71+72)	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000

Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
		(73+74+75)	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000

Note:

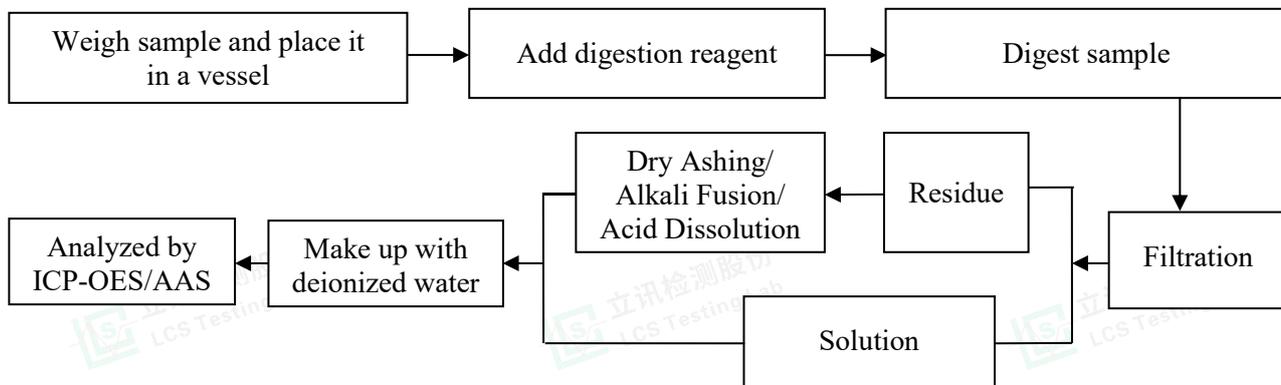
- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg= milligram per kilogram=ppm
- According to customer's requirement, only the appointed materials have been tested.



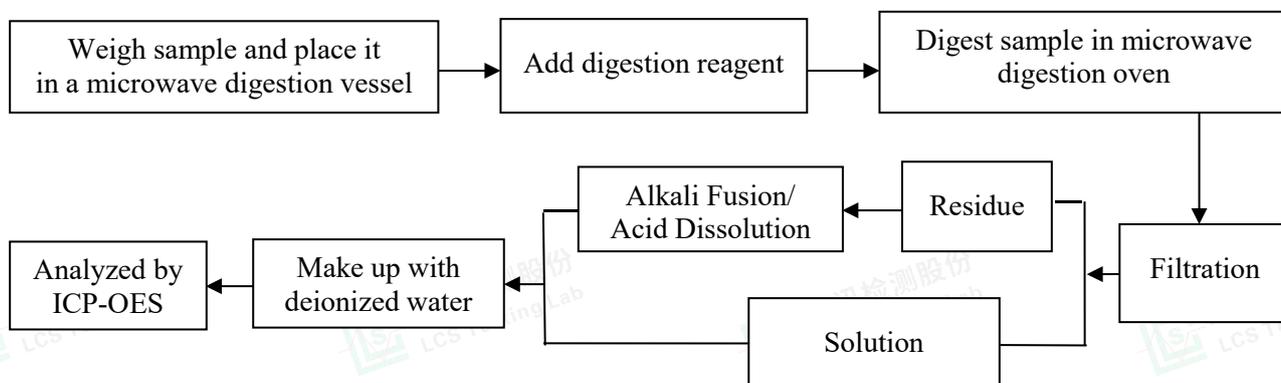


Test Process

1. Lead(Pb) & Cadmium(Cd): IEC 62321-5:2013

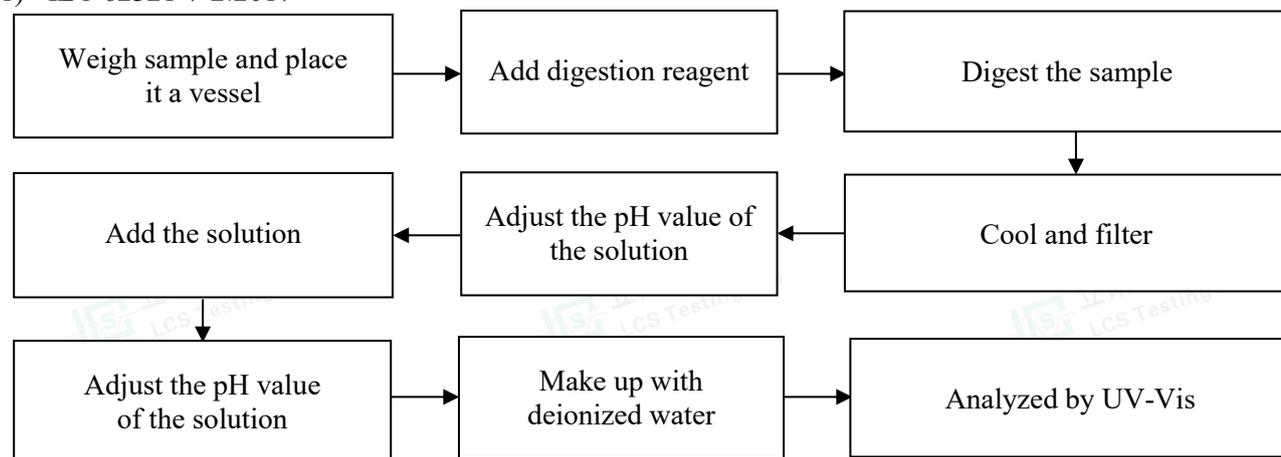


2. Mercury(Hg): IEC 62321-4:2013+AMD1:2017 CSV



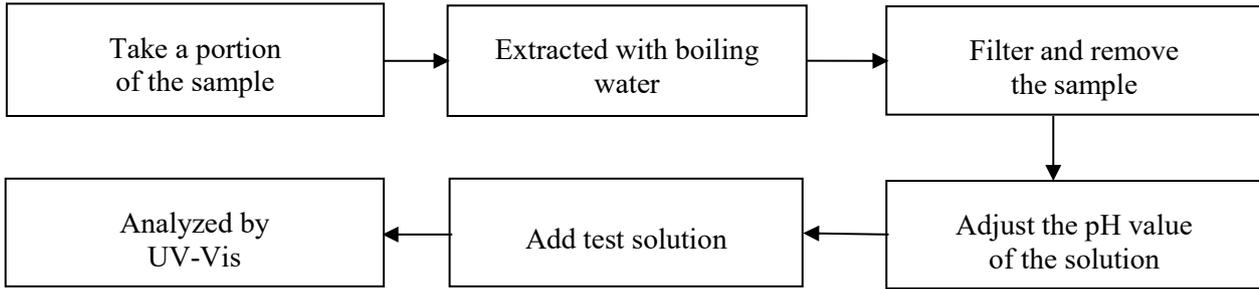
3. Hexavalent Chromium(Cr(VI))

1) IEC 62321-7-2:2017

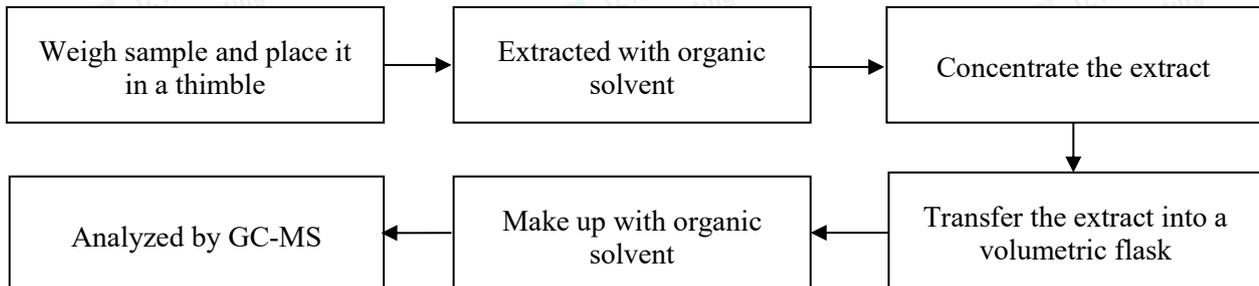




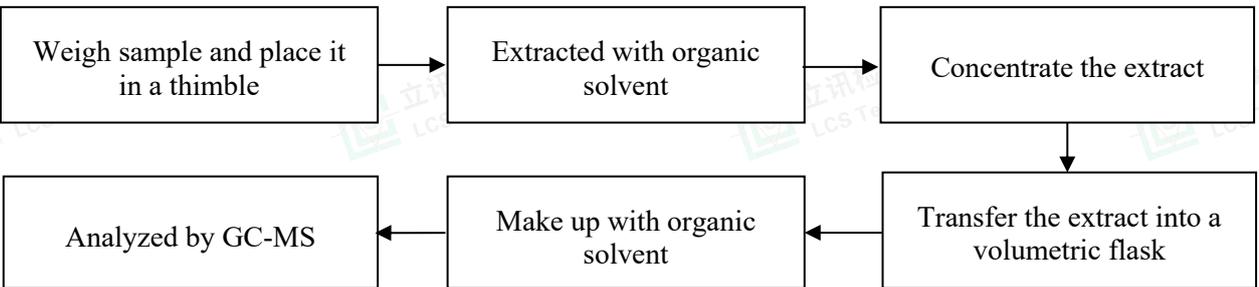
2) IEC 62321-7-1:2015



4. Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs) : IEC 62321-6:2015

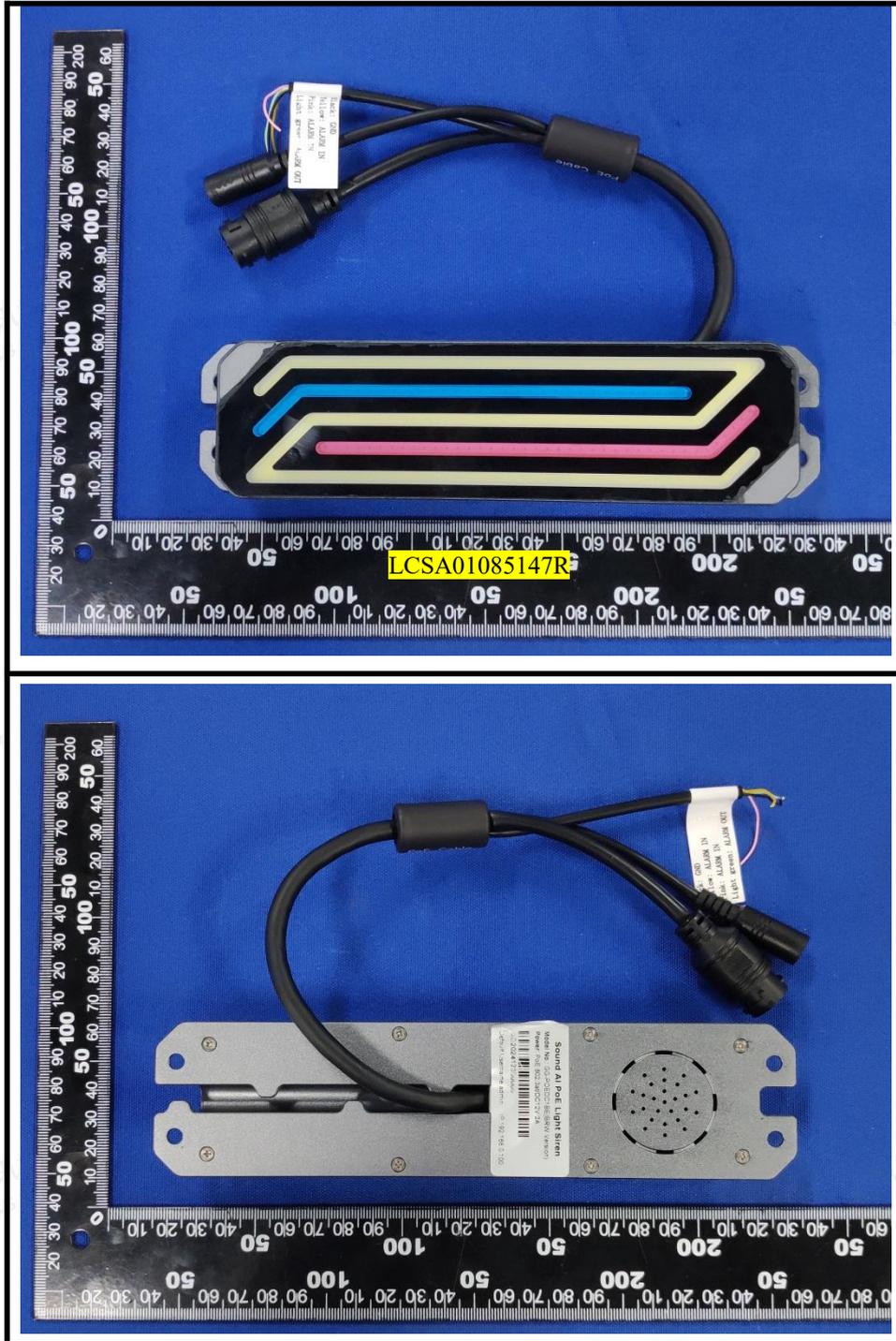


5. Phthalates(DBP, BBP, DEHP & DIBP) : IEC 62321-8:2017





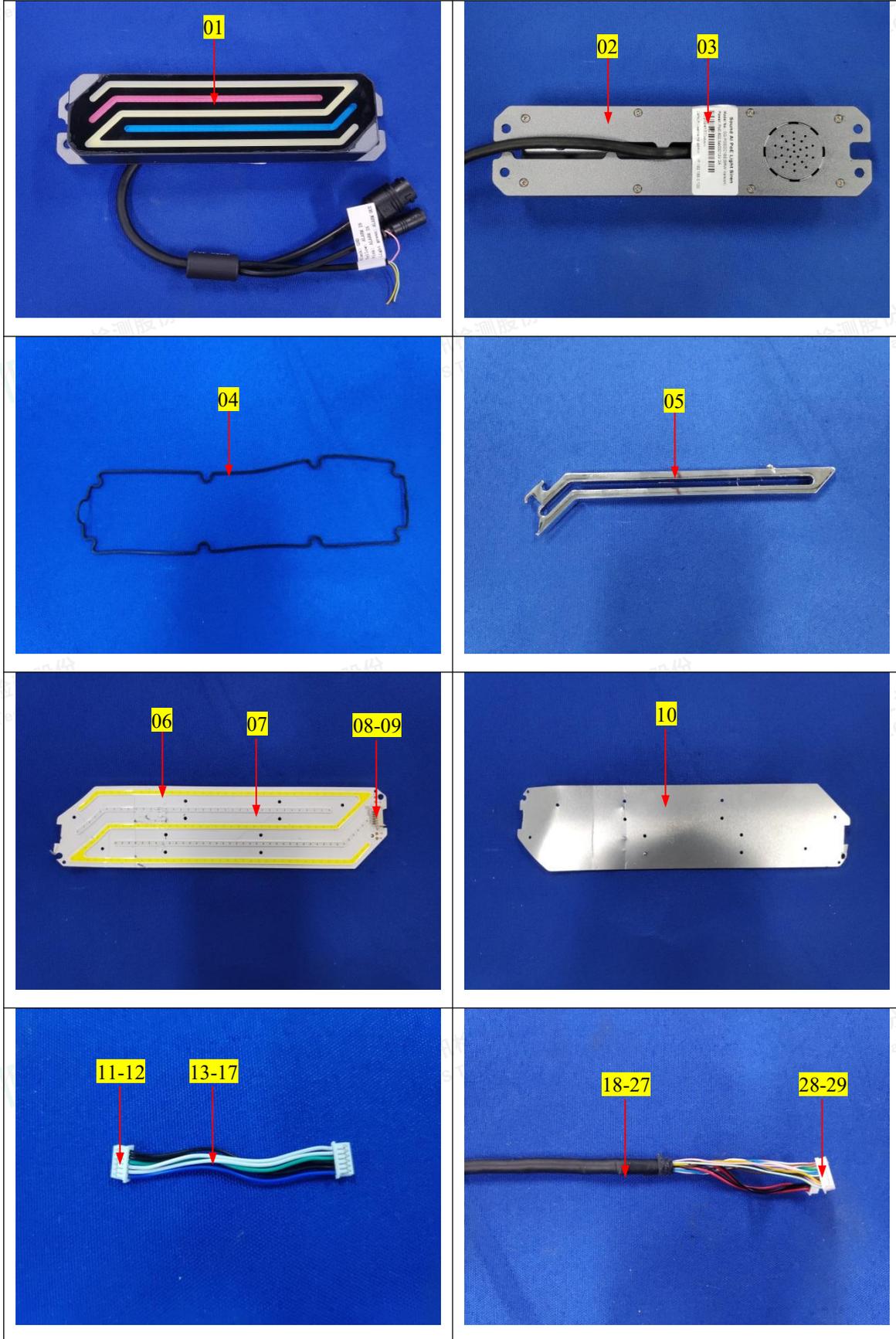
The photo(s) of the sample



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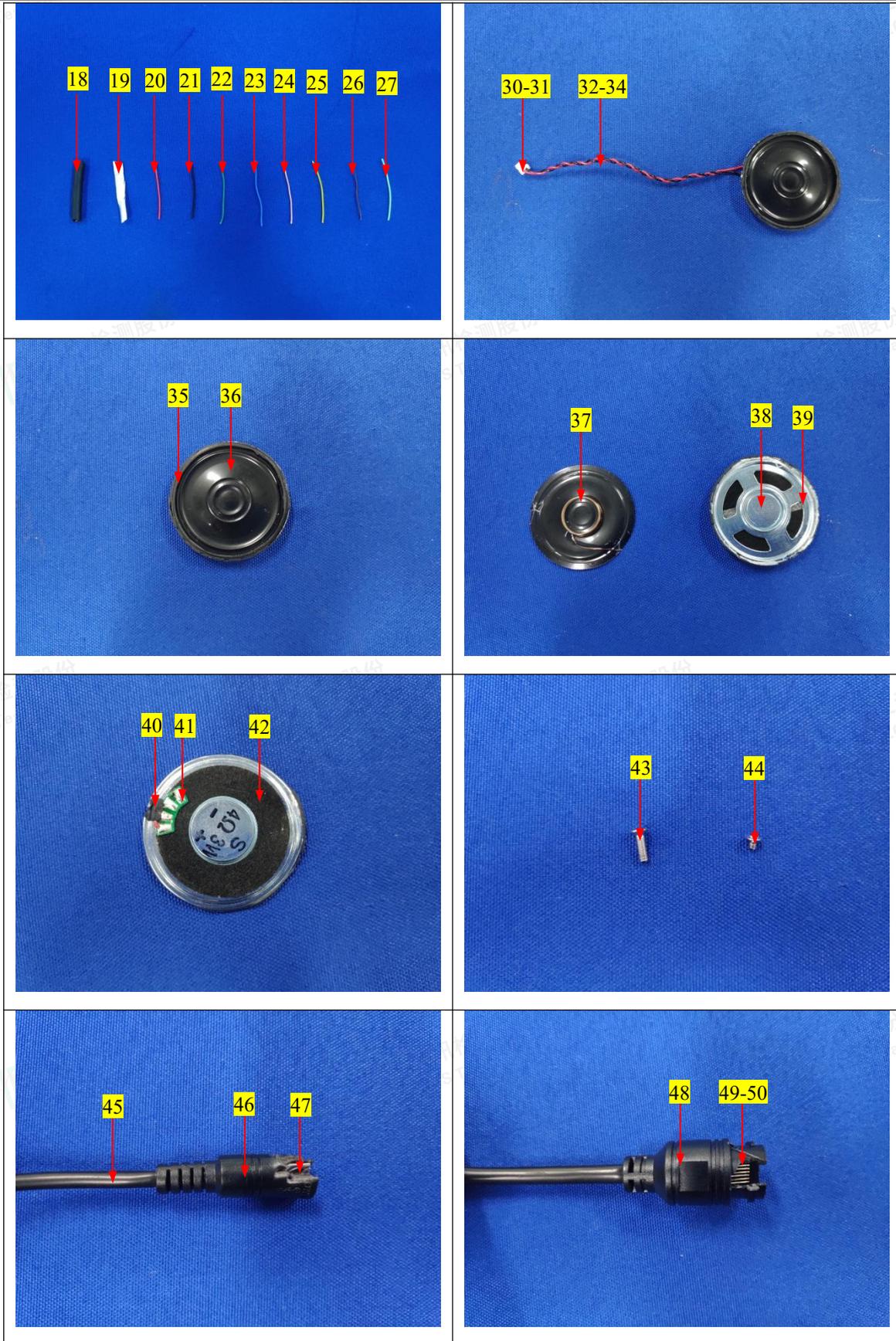
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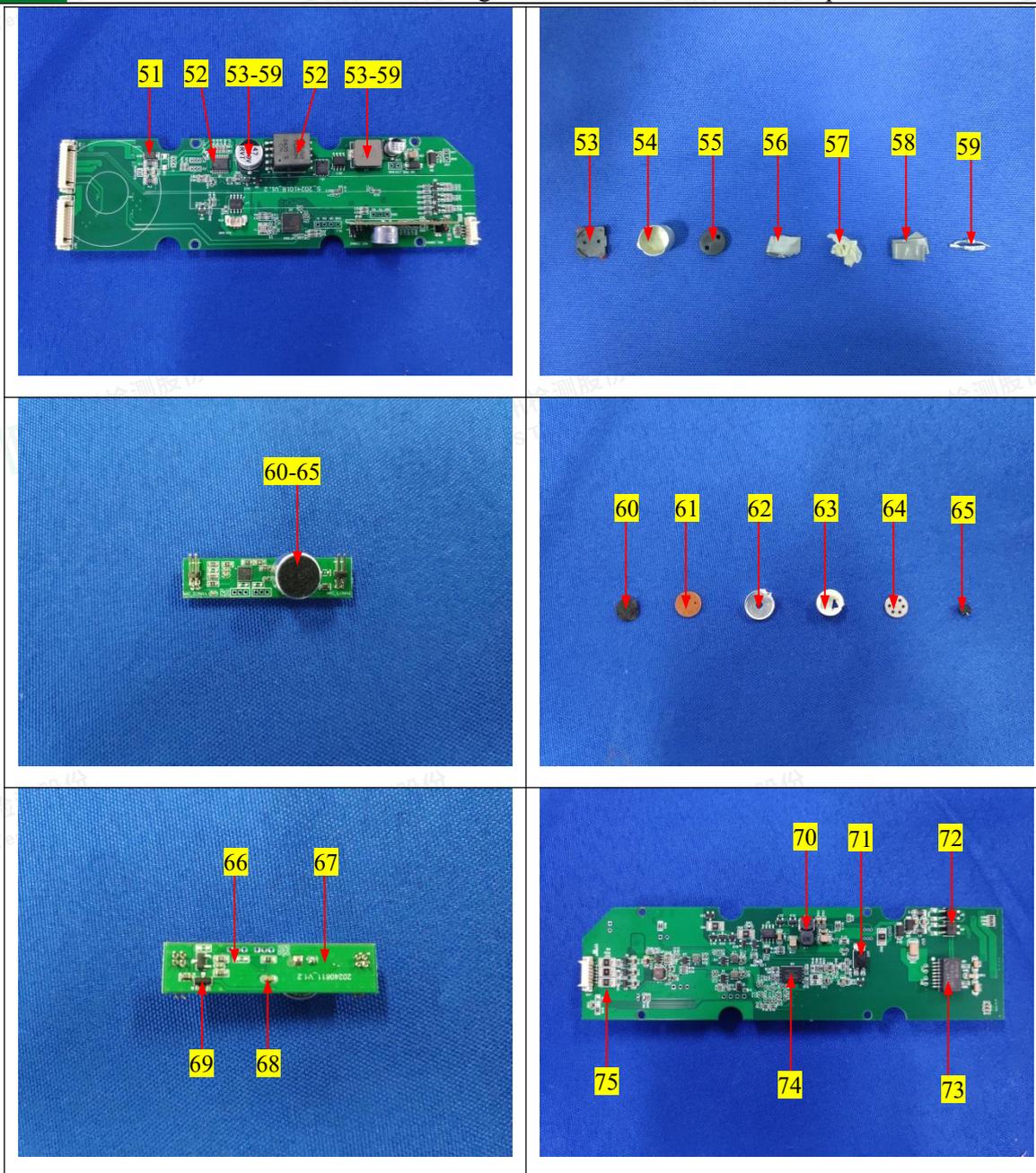
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3. The test results in this report are only responsible for the tested samples;
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