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Applicant MegaSig Measurement and Control Technology Co., Ltd.

Room 403, Building 63, Majialong Industrial Zone, Nantou Street, Nanshan **Address**

District, Shenzhen

Manufacturer's name MegaSig Measurement and Control Technology Co., Ltd.

Room 403, Building 63, Majialong Industrial Zone, Nantou Street, Nanshan **Address**

District, Shenzhen

Report on the submitted samples said to be:

Sample Name **Smart Dongle**

Trade Mark MegaSig

Tested model U980 Series models U980

Testing Period August 03, 2021 ~ August 09, 2021

August 17, 2021 Date of issue

Results Please refer to next page(s).

TEST REQUEST CONCLUSION

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), Diispbutyl Phthalate (DIBP) content comply with the limit as set of RoHS Directive (EU)

Pass

2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of AZT





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Results:

<u>A.EU RoHS Directive 2011/65/EU and its amendment directives on XRF</u>

<u>Test method:</u> With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

	TO ST ST	AL.		Res	ults	6	pro
Seq. No.	Tested Part(s)	64	D.	lla.	С., —	В	r▼
Α.	ST ST K	Cd	Pb	Hg	Cr▼	PBBs	PBDEs
P 1	Silver metal	BL	BL	BL	BL	/	SI
2	Black plastic	BL	BL	BL	BL	BL	BL
3	Black plastic leather	BL	BL	BL	BL	BL	BL
4	Grey plastic wire	BL	BL	BL	BL	BL	BL
5	The golden metal	BL	OL	BL	BL	/	11
6	Silver metal	BL	BL	BL	BL	1	1
7	Metal nut sleeve	BL	OL	BL 📣	BL	-1	1
8	Golden nut	BL	OL	BL	BL	/	1
9	White plastic	BL	BL	BL	BL	BL	BL
10	Silver metal	BL	BL	BL	BL	1	1
X 11	The golden metal	OL	OL	BL	BL	1	1
12	Black plastic wire	BL	BL	BL	BL	BL	BL
13	The golden metal	BL	Х	BL	BL	1	1
14	Metal nut	BL	OL	BL	BL	27	1
15	The golden metal	BL	OL	BL	BL	1	2.1
16	Black plastic	BL	BL	BL	BL	BL A	BL
17	Black plastic	BL	BL	BL	BL	BL	BL
18	Silver metal	BL	BL	BL	BL	1	1
19	Black plastic	BL	BL	BL	BL	X	X
20	Silver metal	BL	BL	BL	BL	1	1
21	White plastic	BL	BL	BL	BL	BL	BL
22	Silver metal	BL 💉	BL	BL	BL	1	1
23	The white paper	BL	BL	BL	BL	BL	BL
24	Black plastic	BL	BL	BL	BL	Х	Х
25	Black plastic	BL	BL	BL	BL	Х	Х
26	Silver metal	BL	BL	BL	Х	1	1
27	IC /	BL	BL	BL	BL	BL	BL





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_	4	4	Results						
Seq. No.	Tested Part(s)	0.4			0 n T	В	r▼		
110.		Cd	Pb	Hg	Cr▼	PBBs	PBDEs		
28	A IC	BL	BL	BL	BL	BL	BL		
29	IC	BL	BL	BL	BL	BL	BL		
30	IC N	BL	BL	BL	BL	Х	Х		
31	IC	BL	BL	BL	BL	BL	BL		
32	IC	BL	BL	BL	BL	BL	BL		
33	IC 1	BL	BL	BL 🦃	BL	BL	BL		
34	IC	BL	BL	BL	BL	BL	BL		
35	IC J	BL	BL	BL	BL	BL	BL		
36	Triode	BL	BL	BL	BL	BL	BL		
37	Inductance	BL	BL	BL	BL	BL	BL		
38	Black plastic film	BL	BL	BL	BL	BL	BL		
39	Black plastic	BL	BL	BL	BL	BL	BL		
40	Wet paper	BL	BL	BL	BL	BL	BL 🕅		
41	Silver tin foil	BL	BL	BL	BL	1	1		
42	Silver metal casing	OL	BL	BL	BL	1	1		
43	Silver metal	BL	BL	BL	BL	A	1		
44	The patch capacitance	BL	BL	BL	BL	BL	BL		
45	The patch capacitance	BL	BL	BL	BL	BL	BL		
46	SMD resistor	BL	BL	BL	Х	BL	BL		
47	Light emitting diode	BL	BL	BL	BL	X	X		
48	Crystals	BL 🔻	BL	BL	BL	1	1		
49	PCB	BL	BL	BL	BL	X	Х		
50	Solder	BL	BL	BL	BL	/	1 ×		





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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
C4	ma/lea	BL≤70-3σ <x< td=""><td>BL≤70-3σ<x< td=""><td>BL≤50-3σ<x< td=""></x<></td></x<></td></x<>	BL≤70-3σ <x< td=""><td>BL≤50-3σ<x< td=""></x<></td></x<>	BL≤50-3σ <x< td=""></x<>
Cu	Cd mg/kg <130+3σ≤OL		<130+3σ≤OL	<150+3σ≤OL
Pr. Dr	100 or /1 cor	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 mg/kg		<1300+3σ≤OL	<1300+3σ≤OL	<1500+3σ≤OL
11(100 m // cm	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	mg/kg	<1300+3σ≤OL	<1300+3σ≤OL	<1500+3σ≤OL
Cr	mg/kg	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<>
Br	mg/kg	BL≤300-3σ <x< td=""><td>, <u>, , , , , , , , , , , , , , , , , , </u></td><td>BL≤250-3σ<x< td=""></x<></td></x<>	, <u>, , , , , , , , , , , , , , , , , , </u>	BL≤250-3σ <x< td=""></x<>

Note:

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





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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	Pr					
Polybrominated biphenyls (PBBs)	1000						
Polybrominated diphenyl ethers (PBDEs)	1000						
Dibutyl Phthalate (DBP)	1000	1					
Benzyl butyl Phthalate (BBP)	1000	P					
Bis(2-ethylhexyl) Phthalate (DEHP)	1000						
Diispbutyl 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.





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B. EU RoHS Directive 2011/65/EU and its amendment Directives 2015/863/EU on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content.

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)

BBP DBP DEHP & DIBP Content:

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

1) The test results of Lead (Pb), Cadmium (Cd) and Mercury (Hg)

A A	p.l.	MDI		3	Results			A locate
Item	Unit	MDL	5 ^{#3}	7#3	8#3	11 ^{#3}	13#3	Limit
Lead (Pb)	mg/kg	2	14906	20911	20523	18036	149	1000

Item	I India	MDI	Res	1		
	Item	Unit	MDL	14#3	15	Limit
Lead (Pb)	mg/kg	2	22895	N.D.	1000	

ltom.	l lmit 🐇	MDI	Re	esults	ATT Limit
Item	Unit	MDL	11	42	Limit
Cadmium Content (Cd)	mg/kg	2	N.D.	N.D.	100





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2) The test results of Hexavalent Chromium (Cr6+) (for nonmetal)

mat at	Unit	MDI	Results	Limit	
Item	Unit	MDL	46	Limit	
Hexavalent Chromium (Cr (VI))	mg/kg	8	N.D.	1000	

3) The test results of Hexavalent Chromium (Cr⁶⁺) (metal)

P. Maria	1114	MDI	Results	Limit
Item	Unit	MDL	26	
Hexavalent Chromium(Cr(VI))▼	ug/cm ²	0.10	Negative	- P

Note:

- MDL = Method Detection Limit
- /= Not apply
- LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
- 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 0.13ug/cm². 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 0.10ug/cm²). The sample coating is considered a non- Cr (VI) based coating
 - c. 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
- #1 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.
- #2 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in electronic ceramic parts (e.g. piezo electronic devices).
- #3 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.
- #4 According to RoHS directive 2011/65/EU and its amendments, 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, according to RoHS directive 2011/65/EU and its amendments, 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, according to RoHS directive 2011/65/EU and its amendments, Cadmium and its compounds in electrical contact is exempted.
- #7 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its Amendments, Lead is exempted in steel for machining purposes and in galvanized steel containing up to 0.35% (3500ppm) by weight.





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4) The test results of DBP, BBP, DEHP & DIBP

NOT NOT NO	11	AL.		Pil	Results			
Item	Unit	MDL	2	3	4	9	12	Limit
Dibutyl Phthalate (DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl butyl Phthalate (BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diispbutyl Phthalate (DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000

ET. PT	1154	MDI			Results			I.	
Item	Unit	MDL	16	17	19	21	23	1000 1000	
Dibutyl Phthalate (DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000	
Benzyl butyl Phthalate (BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000	
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000	
Diispbutyl Phthalate (DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000	

4	Á.,	MDI S	<u> </u>	AL.	Results	Pyl	P	Limit
Item 1	Unit	MDL	24	25	27	28	29	Limit
Dibutyl Phthalate (DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl butyl Phthalate (BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diispbutyl Phthalate (DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Manus AT	1114	MDL	Results					1.42
Item	Unit	MDL	30	31	32	33	34	Limit
Dibutyl Phthalate (DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl butyl Phthalate (BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diispbutyl Phthalate (DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000





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Hami's A. A.	11	MSI	Results					1
Item	Unit	MDL	35	36	37	38	39	Limit
Dibutyl Phthalate (DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl butyl Phthalate (BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diispbutyl Phthalate (DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000

at the str	11	AT.	Results					P
Item	Unit	MDL	40	44	45	46	47 N.D. N.D.	Limit
Dibutyl Phthalate (DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl butyl Phthalate (BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diispbutyl Phthalate (DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Item	Unit	MDL	,	Limit		
				49	by.	Limit
Dibutyl Phthalate (DBP)	mg/kg	50	N	N.D.	P.	1000
Benzyl butyl Phthalate (BBP)	mg/kg	50	Ψ.	N.D.	· C	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	, b)	N.D.	4	1000
Diispbutyl Phthalate (DIBP)	mg/kg	50	, C	N.D.	AL.	1000





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5) The test results of PBBs & PBDEs

Item NI NI	Unit	MDL	Results					1
			19	24	25	30	47	Limit
Polybrominated Biphenyls (PBBs)								
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	1
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	21
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	21
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	1
Total content	mg/kg	1	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenyl ethers (PBDEs)(Mon-Deca)								
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/ 1
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	1
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	1
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	18
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	2.1
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	1
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	1
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	18
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	z 1
Total content	mg/kg	1	N.D.	N.D.	N.D.	N.D.	N.D.	1000





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Item	Unit	MDL	Results	
	Offic		49	Limit
Polybrominated Biphenyls (PBBs)				
Monobromobiphenyl	mg/kg	5	N.D.	1
Dibromobiphenyl	mg/kg	5	N.D.	1
Tribromobiphenyl	mg/kg	5	N.D.	1
Tetrabromobiphenyl	mg/kg	5	N.D.	27
Pentabromobiphenyl	mg/kg	5	N.D.	1
Hexabromobiphenyl	mg/kg	5	N.D.	1
Heptabromobiphenyl	mg/kg	5	N.D.	1
Octabromobiphenyl	mg/kg	5	N.D.	21
Nonabromodiphenyl	mg/kg	5	N.D.	1
Decabromodiphenyl	mg/kg	5	N.D.	1
Total content	mg/kg	1	N.D.	1000
Polybrominated Diphenyl ethers (PBDEs)(Mon-Deca)				
Monobromodiphenyl ether	mg/kg	5	N.D.	1
Dibromodiphenyl ether	mg/kg	5	N.D.	1
Tribromodiphenyl ether	mg/kg	5	N.D.	1
Tetrabromodiphenyl ether	mg/kg	5	N.D.	1
Pentabromodiphenyl ether	mg/kg	5	N.D.	1
Hexabromodiphenyl ether	mg/kg	5	N.D.	10
Heptabromodiphenyl ether	mg/kg	5	N.D.	2.1
Octabromodiphenyl ether	mg/kg	5	N.D.	1
Nonabromodiphenyl ether	mg/kg	5	N.D.	1
Decabromodiphenyl ether	mg/kg	5	N.D.	18
Total content	mg/kg	/	N.D.	1000

Remark:

- mg/kg = ppm
- N.D. = Not detected
- MDL= Method detected limited
- Flow chart appendix is included
- Photo appendix is included.



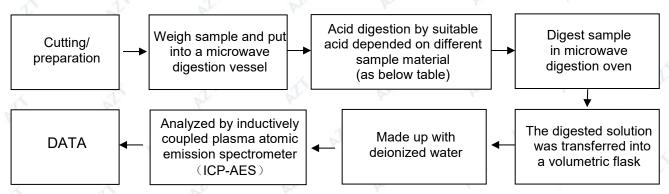


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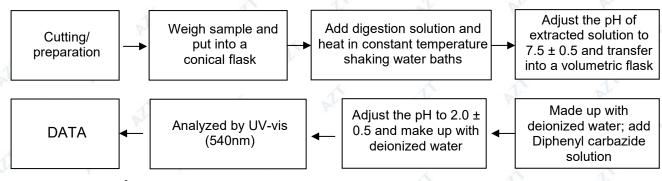
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Appendix

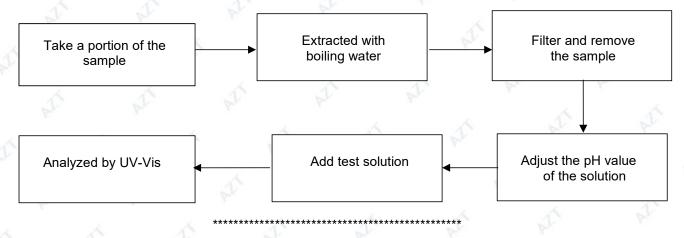
1. Test Flow chart for Cd/Pb /Hg content



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



Test Flowchart for Cr6+ content (For metal material)

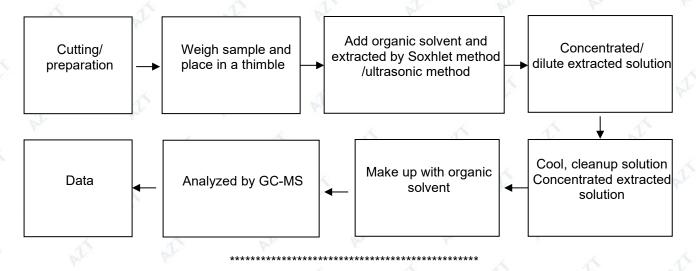






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3. Test Flow chart for PBBs & PBDEs & DBP & BBP & DEHP & DIBP content







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The photo of the sample







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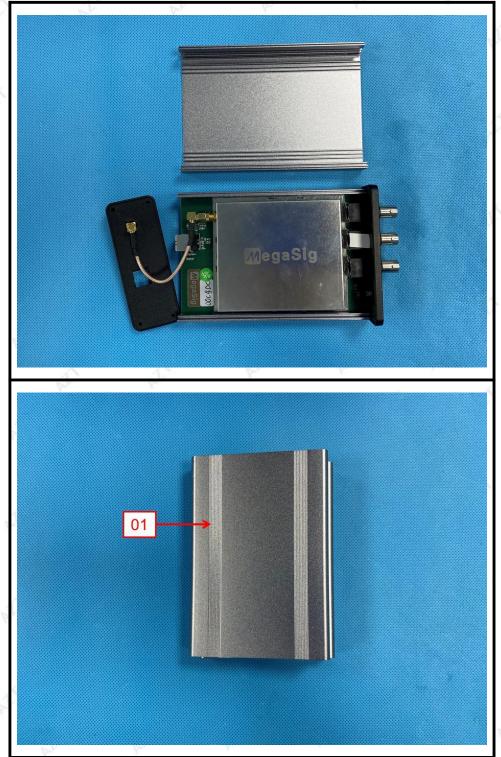
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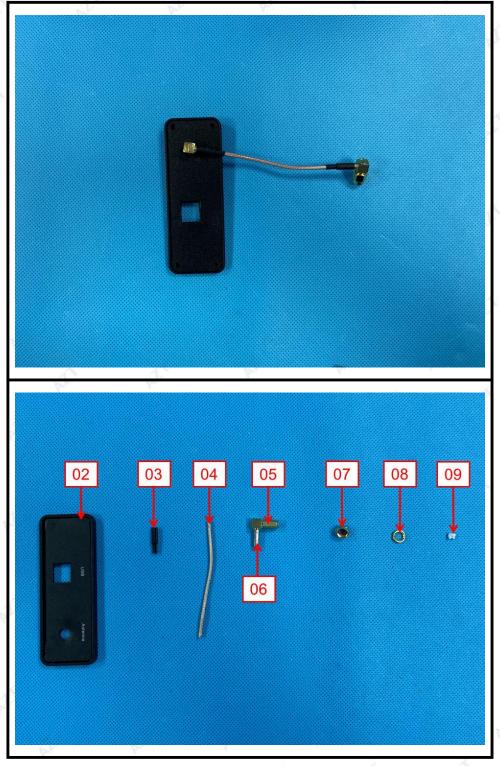
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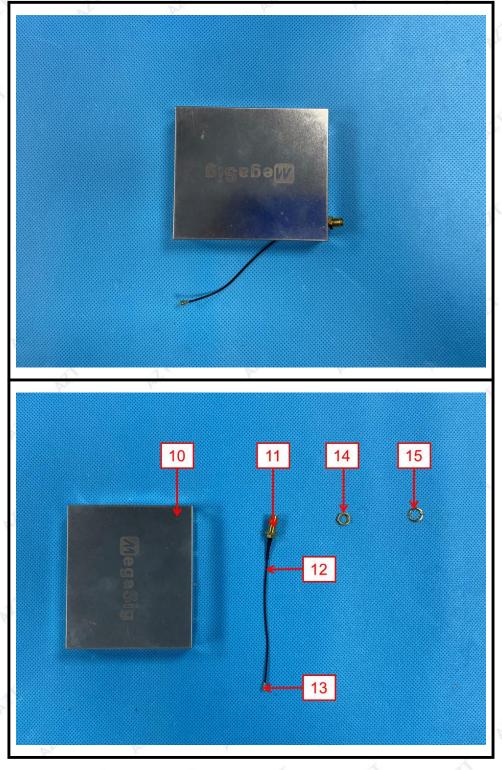


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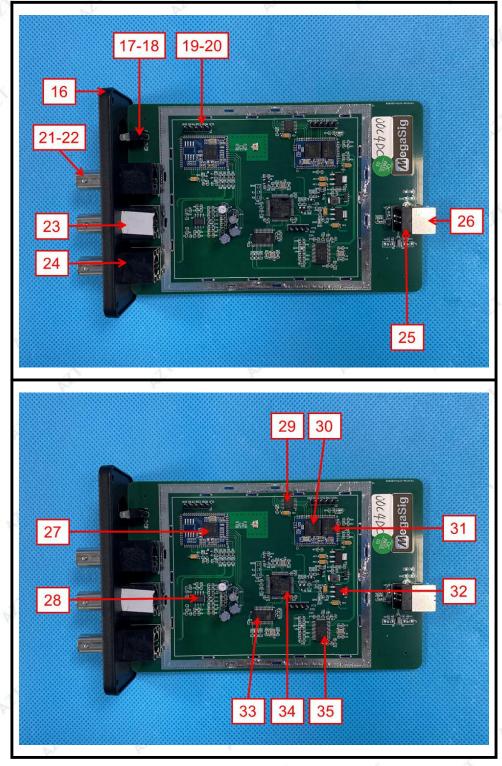






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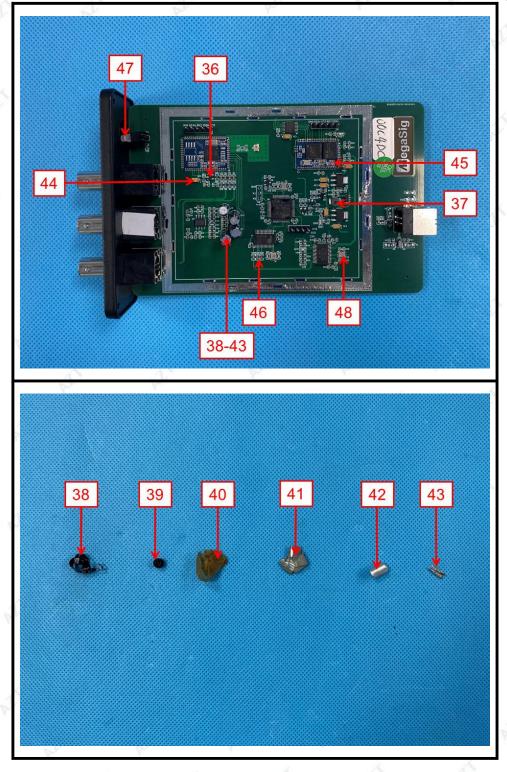






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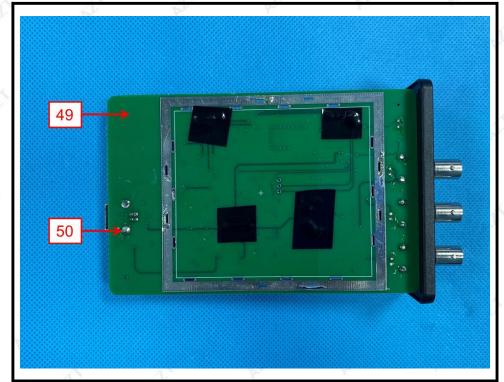
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Statement:

- 1. The test report is considered invalidated without approval signature, special seal on the perforation.
- 2. The result(s) shown in this report refer only to the sample(s) tested.
- 3. Without written approval of AZT, 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 AZT hasn't verified.
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

