

Test Report No.: 48.400.23.1087.01-00/14

Rev.: 00

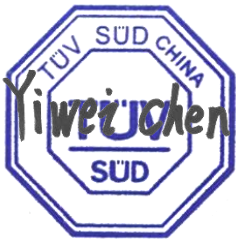
Dated: 2023-11-10



Applicant: Jiangsu Acrel Electrical Manufacturing. Co., Ltd.
Address: No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China
Attn: Han Zhonghua
Sample Description: Power Meter
Model No.: AEM96
Sample Received Date: 2023-10-12
Test Period: 2023-10-12~2023-10-27
Test Location: TÜV SÜD Certification and Testing (China) Co., Ltd.
Shanghai Branch, SHA Chemical Lab.
Purpose of examination: Verification of RoHS (Restriction of Hazardous Substances) directive 2011/65/EU and its amendment (EU) 2015/863 on submitted samples
Test Results: Refer to following page(s)
Remark:
- The result relates only to the items tested.
- The reference model(s) was declared by client.
- The test sample(s) and item(s) was specified by client.

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TÜV SÜD Certification and Testing (China) Co., Ltd.
TÜV SÜD Group
Prepared by:



Mr. Yiwei CHEN

Reviewed by:



Mr. Feng ZHANG

Disclaimer Measurement Uncertainty: Unless otherwise agreed upon, Pass or Fail verdicts are given base on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail. Any use for advertising purposes must be granted in writing. This test report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4.

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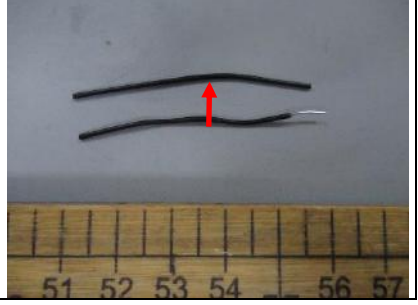
SUMMARY OF TEST RESULTS

No.	Test Requested	Conclusion	Remarks
1.	Heavy Metal (Pb, Cd, Hg and Cr VI) Content	PASS	
2.	Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) Content	PASS	
3.	Phthalates (DEHP, BBP, DBP and DIBP) Content	PASS	

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1. TESTED SUBJECT DESCRIPTION

Sample No.	Description (Material, colour)	Photograph/Location
01	Silvery metal screw	
02	Yellow rubber button	
03	White ink	
04	Gray hard plastic switch	
05	Black soft plastic wire jacket	

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Sample No.	Description (Material, colour)	Photograph/Location
06	Silvery metal wire	
07	Gray soft plastic identification	
08	Orange ink	
09	White ink	
10	Transparent soft plastic window	



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Sample No.	Description (Material, colour)	Photograph/Location
11	White soft plastic adhesive tape	
12	Gray hard plastic shell	
13	Transparent hard plastic cover	
14	Gray hard plastic base	
15	Silvery metal clip	



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Sample No.	Description (Material, colour)	Photograph/Location
16	Black hard plastic component	
17	Silver metal pin	
18	Black hard plastic bracket	
19	Golden metal pin	
20	Gray soft plastic identification	



Sample No.	Description (Material, colour)	Photograph/Location
21	Translucent soft plastic adhesive tape	
22	Golden metal pin	
23	Black hard plastic bracket	
24	Green hard plastic socket	
25	Silver metal pin	

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Sample No.	Description (Material, colour)	Photograph/Location
26	Green hard plastic socket	
27	Silver metal pin	
28	Golden copper alloy nut	
29	Green hard plastic socket	
30	Silver metal pin	



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Sample No.	Description (Material, colour)	Photograph/Location
31	Black hard plastic bracket	
32	Golden metal pin	
33	Black hard plastic frame	
34	Silver metal pin	
35	Yellow soft plastic adhesive tape	



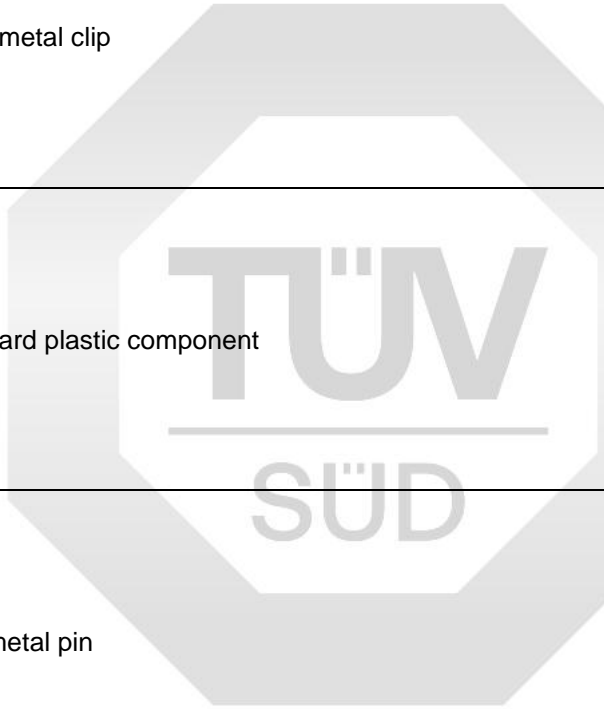
Sample No.	Description (Material, colour)	Photograph/Location
36	Yellow soft plastic wire jacket	
37	White soft plastic adhesive tape	
38	Black metal magnet	
39	Golden metal wire	
40	Black hard IC	

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Sample No.	Description (Material, colour)	Photograph/Location
41	Silver metal pin	
42	Silvery metal clip	
43	Black hard plastic component	
44	Silver metal pin	
45	Red hard plastic button	

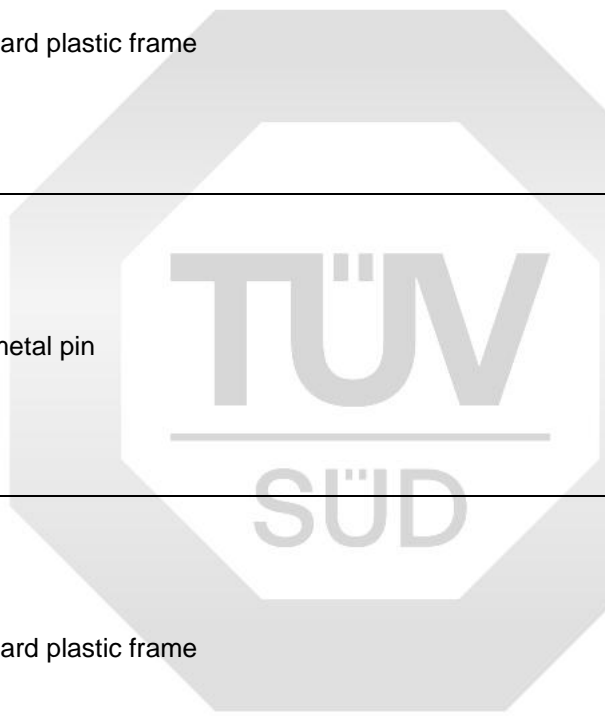
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Sample No.	Description (Material, colour)	Photograph/Location
46	Silvery metal cover	
47	Black hard plastic frame	
48	Silver metal pin	
49	Black hard plastic frame	
50	Silver metal pin	

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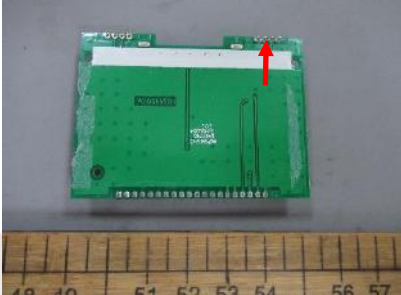







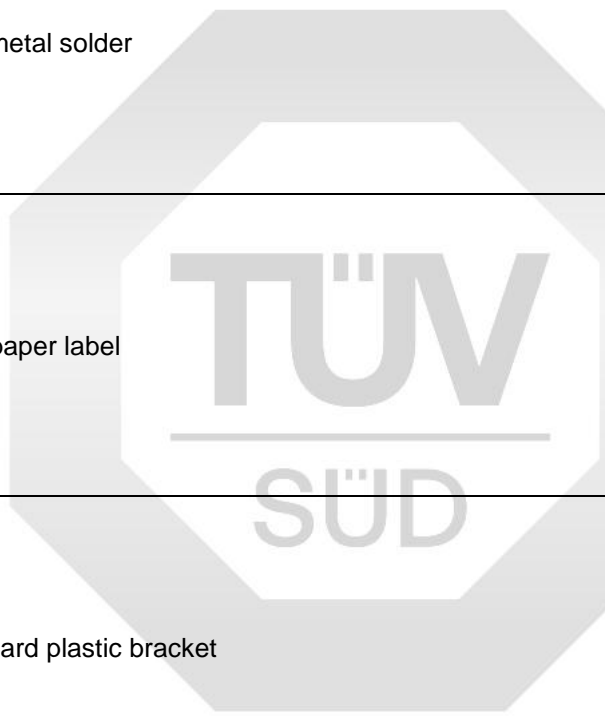
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Sample No.	Description (Material, colour)	Photograph/Location
51	White hard plastic button	
52	Black hard plastic cover	
53	Black rubber sealing ring	
54	Silvery metal bracket	
55	Translucent soft plastic sheath	



Sample No.	Description (Material, colour)	Photograph/Location
56	Green hard PCB	
57	Silver metal solder	
58	White paper label	
59	Black hard plastic bracket	
60	Golden metal pin	

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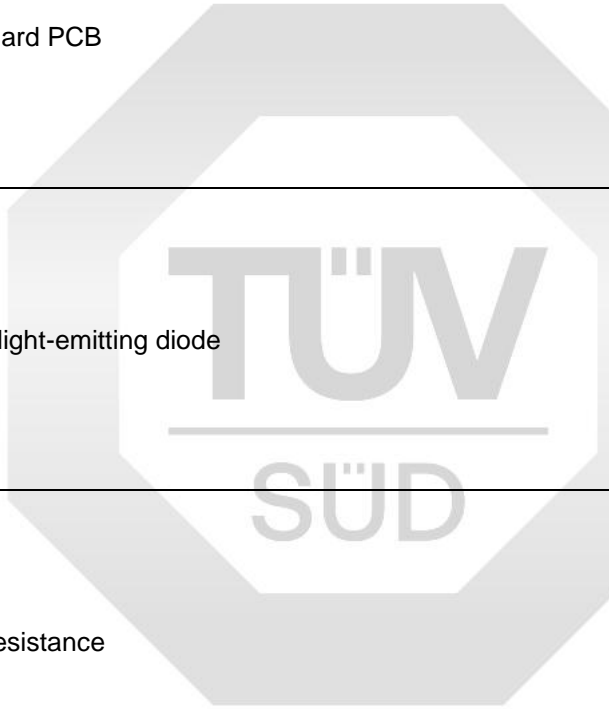
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Sample No.	Description (Material, colour)	Photograph/Location
61	Brown capacitor	
62	Black triode	
63	Black resistance	
64	White soft plastic film	
65	Transparent hard plastic plate	



Sample No.	Description (Material, colour)	Photograph/Location
66	Silvery soft plastic film	
67	White hard PCB	
68	Yellow light-emitting diode	
69	Black resistance	
70	White soft plastic film	

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Sample No.	Description (Material, colour)	Photograph/Location
71	Transparent glass	
72	Black soft plastic potting compound	
73	Black soft plastic film	
74	Yellow soft plastic film	
75	Gray soft plastic film	

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Sample No.	Description (Material, colour)	Photograph/Location
76	Transparent soft plastic film	
77	Blue soft plastic film	
78	Black hard IC	
79	Silver metal pin	
80	Black hard IC	

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Sample No.	Description (Material, colour)	Photograph/Location
81	Silver metal pin	
82	Transparent soft plastic inflatable bag, CQD QT-13L237(96)(CQD-280*215-Q-01)	
83	Brown paper packing box, B/ZH-170×150×125-J01(A)	
84	Green hard PCB, KB	
85	black resistance, CR_0603_0R_J	



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Sample No.	Description (Material, colour)	Photograph/Location
86	black resistance, CR_0603_10k_F_100ppm	
87	Brown capacitor, CC_0603_0.1uF_50V	
88	Brown capacitor, CC_0805_10uF_16V	
89	black resistance, RZ_10P8_10k_J	
90	Golden diode, LL4148-SMD	



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Sample No.	Description (Material, colour)	Photograph/Location
91	Black triode, 9013	
92	Black hard IC, TLV70033DDCR	
93	Black hard IC, HT1621B/HOLTEK	
94	Silver metal pin	
95	Black hard IC, MB85RC16	



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Sample No.	Description (Material, colour)	Photograph/Location
96	Silver metal pin	
97	Black hard IC, STM32F401RCT6	
98	Silver metal pin	
99	Black hard IC, XN_3225_12MHz_20pF_20ppm	
100	Black hard plastic frame, 22N8572-10M00B-01G-6.7-C	



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Sample No.	Description (Material, colour)	Photograph/Location
101	Silver metal pin	
102	Gray capacitor, CC_0603_2.2uF_25V	
103	Black metal magnetic beads FB_0603_100mA_1k	
104	Black diode, BAV199LT1G	
105	Black hard IC, RN7302	



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Sample No.	Description (Material, colour)	Photograph/Location
106	Silver metal pin	
107	Silvery metal crystal oscillator, XN_SMD49_8.192MHz_20pF_20ppm	
108	Silver metal pin	
109	Black hard plastic cover	
110	Black triode, 8050-SMD	



Sample No.	Description (Material, colour)	Photograph/Location
111	Black diode, RS1D	
112	Silver metal pin	
113	Black diode, SS310-SMD	
114	Black diode, SMAJ5.0A	
115	Silver metal pin	

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Sample No.	Description (Material, colour)	Photograph/Location
116	Black hard IC, AMS431AM(BM)-SMD	
117	Black hard IC, 78L05-SMD(KIA78L05)LM78L05F)	
118	Silver metal pin	
119	Black hard IC, ISL3152EIBZ-T	
120	Silver metal pin	

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Sample No.	Description (Material, colour)	Photograph/Location
121	Black optocoupler, LTV-356T-B	
122	Silver metal pin	
123	Silvery aluminum shell, CD_6.3X7.7_100uF_35V	
124	Silver metal pin	
125	Gray soft plastic film	

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Sample No.	Description (Material, colour)	Photograph/Location
126	Black rubber cushion	
127	Silvery aluminum shell, CD_6.3X7.7_220uF_16V	
128	Black rubber cushion	
129	Gray soft plastic film	
130	Silver metal pin	



Sample No.	Description (Material, colour)	Photograph/Location
131	Black bridge chip, DB107S	
132	Silver metal pin	
133	Black inductance, PCD0503MT3R3(5.8*5.2*3 3.3 μ H 2.8A)(± 20%)	
134	Black hard power chip, TNY286PG	
135	Silver metal pin	

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Sample No.	Description (Material, colour)	Photograph/Location
136	Green metal wave filter, 47 μ H/40m Ω	
137	Golden metal wire	
138	Translucent hard plastic plate	
139	Black hard plastic base	
140	Silver metal pin	

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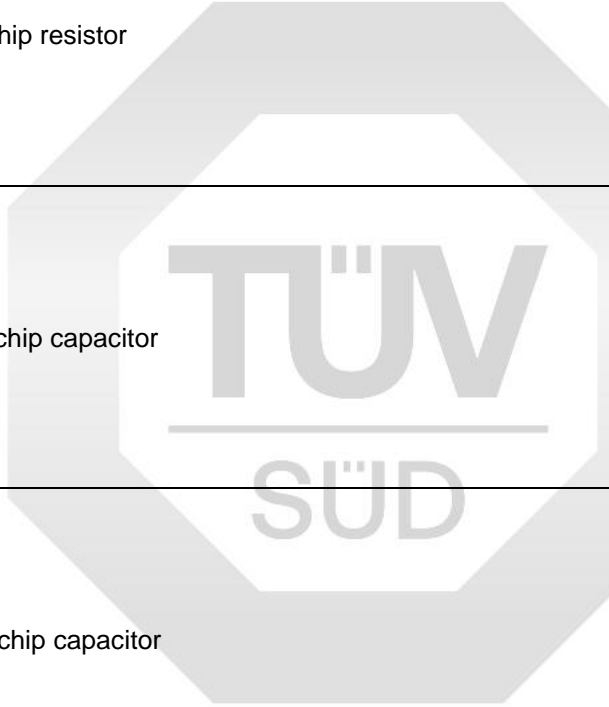
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Sample No.	Description (Material, colour)	Photograph/Location
141	green resistance, RM-12D-55mA	
142	Silver metal pin	
143	Yellow soft plastic label	
144	Silvery soft plastic label	
145	Black chip resistor	



Sample No.	Description (Material, colour)	Photograph/Location
146	Black chip resistor	
147	Black chip resistor	
148	Brown chip capacitor	
149	Yellow chip capacitor	

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2. TEST RESULT(S)

2.1 SCREENING TEST

Test method: With reference to EN 62321-1:2013, EN IEC 62321-2:2021, EN 62321-3-1:2014 and EN 62321-8:2017.

For Heavy Metals and Flame Retardants, analyzed by Energy Dispersive X-ray Fluorescence Spectrometer (XRF); for phthalates, analyzed by Gas Chromatography and Mass Spectrometer (GC-MS).

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
01	BL	BL	BL	BL	NA	NA	NA	NA	NA
02	BL	BL	BL	BL	BL	BL	BL	BL	BL
03	BL	BL	BL	BL	BL	BL	BL	BL	BL
04	BL	BL	BL	BL	BL	BL	BL	BL	BL
05	BL	BL	BL	BL	BL	BL	BL	BL	BL
06	BL	BL	BL	BL	NA	NA	NA	NA	NA
07	BL	BL	BL	BL	BL	BL	BL	BL	BL
08	BL	BL	BL	BL	BL	BL	BL	BL	BL
09	BL	BL	BL	BL	BL	BL	BL	BL	BL
10	BL	BL	BL	BL	BL	BL	BL	BL	BL
11	BL	BL	BL	BL	BL	BL	BL	BL	BL
12	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
13	BL	BL	BL	BL	BL	BL	BL	BL	BL
14	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
15	BL	BL	BL	Inc. ^(a)	NA	NA	NA	NA	NA
16	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
17	BL	BL	BL	BL	NA	NA	NA	NA	NA
18	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
19	BL	BL	BL	BL	NA	NA	NA	NA	NA
20	BL	BL	BL	BL	BL	BL	BL	BL	BL

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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
21	BL	BL	BL	BL	BL	BL	BL	BL	BL
22	BL	BL	BL	BL	NA	NA	NA	NA	NA
23	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
24	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
25	BL	BL	BL	BL	NA	NA	NA	NA	NA
26	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
27	BL	BL	BL	BL	NA	NA	NA	NA	NA
28	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
29	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
30	BL	BL	BL	BL	NA	NA	NA	NA	NA
31	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
32	BL	BL	BL	BL	NA	NA	NA	NA	NA
33	BL	BL	BL	BL	BL	BL	BL	BL	BL
34	BL	BL	BL	BL	NA	NA	NA	NA	NA
35	BL	BL	BL	BL	BL	BL	BL	BL	BL
36	BL	BL	BL	BL	BL	BL	BL	BL	BL
37	BL	BL	BL	BL	BL	BL	BL	BL	BL
38	BL	BL	BL	BL	NA	NA	NA	NA	NA
39	BL	BL	BL	BL	NA	NA	NA	NA	NA
40	BL	BL	BL	BL	BL	BL	BL	BL	BL
41	BL	BL	BL	BL	NA	NA	NA	NA	NA
42	BL	BL	BL	Inc. ^(a)	NA	NA	NA	NA	NA
43	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
44	BL	BL	BL	BL	NA	NA	NA	NA	NA



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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
45	BL	BL	BL	BL	BL	BL	BL	BL	BL
46	BL	BL	BL	BL	NA	NA	NA	NA	NA
47	BL	BL	BL	BL	BL	BL	BL	BL	BL
48	BL	BL	BL	BL	NA	NA	NA	NA	NA
49	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
50	BL	BL	BL	BL	NA	NA	NA	NA	NA
51	BL	BL	BL	BL	BL	BL	BL	BL	BL
52	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
53	BL	BL	BL	BL	BL	BL	BL	BL	BL
54	BL	BL	BL	BL	NA	NA	NA	NA	NA
55	BL	BL	BL	BL	BL	BL	BL	BL	BL
56	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
57	BL	BL	BL	BL	NA	NA	NA	NA	NA
58	BL	BL	BL	BL	BL	BL	BL	BL	BL
59	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
60	BL	BL	BL	BL	NA	NA	NA	NA	NA
61	BL	BL	BL	BL	BL	BL	BL	BL	BL
62	BL	BL	BL	BL	BL	BL	BL	BL	BL
63	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL
64	BL	BL	BL	BL	BL	BL	BL	BL	BL
65	BL	BL	BL	BL	BL	BL	BL	BL	BL
66	BL	BL	BL	BL	BL	BL	BL	BL	BL
67	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
68	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL



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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
69	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL
70	BL	BL	BL	BL	BL	BL	BL	BL	BL
71	BL	BL	BL	BL	NA	NA	NA	NA	NA
72	BL	BL	BL	BL	BL	BL	BL	BL	BL
73	BL	BL	BL	BL	BL	BL	BL	BL	BL
74	BL	BL	BL	BL	BL	BL	BL	BL	BL
75	BL	BL	BL	BL	BL	BL	BL	BL	BL
76	BL	BL	BL	BL	BL	BL	BL	BL	BL
77	BL	BL	BL	BL	BL	BL	BL	BL	BL
78	BL	BL	BL	BL	BL	BL	BL	BL	BL
79	BL	BL	BL	BL	NA	NA	NA	NA	NA
80	BL	BL	BL	BL	BL	BL	BL	BL	BL
81	BL	BL	BL	BL	NA	NA	NA	NA	NA
82	BL	BL	BL	BL	BL	BL	BL	BL	BL
83	BL	BL	BL	BL	BL	BL	BL	BL	BL
84	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
85	BL	BL	BL	BL	BL	BL	BL	BL	BL
86	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL
87	BL	BL	BL	BL	BL	BL	BL	BL	BL
88	BL	BL	BL	BL	BL	BL	BL	BL	BL
89	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL
90	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL
91	BL	BL	BL	BL	BL	BL	BL	BL	BL
92	BL	BL	BL	BL	BL	BL	BL	BL	BL



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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
93	BL	BL	BL	BL	BL	BL	BL	BL	BL
94	BL	BL	BL	BL	NA	NA	NA	NA	NA
95	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
96	BL	BL	BL	BL	NA	NA	NA	NA	NA
97	BL	BL	BL	BL	BL	BL	BL	BL	BL
98	BL	BL	BL	BL	NA	NA	NA	NA	NA
99	BL	BL	BL	BL	BL	BL	BL	BL	BL
100	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
101	BL	BL	BL	Inc. ^(a)	NA	NA	NA	NA	NA
102	BL	BL	BL	BL	BL	BL	BL	BL	BL
103	BL	BL	BL	BL	NA	NA	NA	NA	NA
104	BL	BL	BL	BL	BL	BL	BL	BL	BL
105	BL	BL	BL	BL	BL	BL	BL	BL	BL
106	BL	BL	BL	BL	NA	NA	NA	NA	NA
107	BL	BL	BL	BL	NA	NA	NA	NA	NA
108	BL	BL	BL	BL	NA	NA	NA	NA	NA
109	BL	BL	BL	BL	BL	BL	BL	BL	BL
110	BL	BL	BL	BL	BL	BL	BL	BL	BL
111	BL	BL	BL	BL	BL	BL	BL	BL	BL
112	BL	BL	BL	BL	NA	NA	NA	NA	NA
113	BL	BL	BL	BL	BL	BL	BL	BL	BL
114	BL	BL	BL	BL	BL	BL	BL	BL	BL
115	BL	BL	BL	BL	NA	NA	NA	NA	NA
116	BL	BL	BL	BL	BL	BL	BL	BL	BL



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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
117	BL	BL	BL	BL	BL	BL	BL	BL	BL
118	BL	BL	BL	BL	NA	NA	NA	NA	NA
119	BL	BL	BL	BL	BL	BL	BL	BL	BL
120	BL	BL	BL	BL	NA	NA	NA	NA	NA
121	BL	BL	BL	BL	BL	BL	BL	BL	BL
122	BL	BL	BL	BL	NA	NA	NA	NA	NA
123	BL	BL	BL	BL	NA	NA	NA	NA	NA
124	BL	BL	BL	BL	NA	NA	NA	NA	NA
125	BL	BL	BL	BL	BL	BL	BL	BL	BL
126	BL	BL	BL	BL	BL	BL	BL	BL	BL
127	BL	BL	BL	BL	NA	NA	NA	NA	NA
128	BL	BL	BL	BL	BL	BL	BL	BL	BL
129	BL	BL	BL	BL	BL	BL	BL	BL	BL
130	BL	BL	BL	BL	NA	NA	NA	NA	NA
131	BL	BL	BL	BL	BL	BL	BL	BL	BL
132	BL	BL	BL	BL	NA	NA	NA	NA	NA
133	BL	BL	BL	BL	NA	NA	NA	NA	NA
134	BL	BL	BL	BL	BL	BL	BL	BL	BL
135	BL	BL	BL	BL	NA	NA	NA	NA	NA
136	BL	BL	BL	BL	NA	NA	NA	NA	NA
137	BL	BL	BL	BL	NA	NA	NA	NA	NA
138	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
139	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
140	BL	BL	BL	BL	NA	NA	NA	NA	NA



Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
141	BL	BL	BL	BL	BL	BL	BL	BL	BL
142	BL	BL	BL	BL	NA	NA	NA	NA	NA
143	BL	BL	BL	BL	BL	BL	BL	BL	BL
144	BL	BL	BL	BL	BL	BL	BL	BL	BL
145	BL	BL	BL	BL	BL	BL	BL	BL	BL
146	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL
147	BL	BL	BL	BL	BL	BL	BL	BL	BL
148	BL	BL	BL	BL	BL	BL	BL	BL	BL
149	BL	BL	BL	BL	BL	BL	BL	BL	BL

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Remark:

- "BL" denotes below limit
- "OL" denotes over limit
- "Inc." denotes inconclusive
- "NA" denotes not applicable
- "(a)" denotes further confirmation test was conducted, results are listed in 2.2 and 2.3.
- XRF screening limits in mg/kg for regulated elements in various matrices

ELEMENT	POLYMER		
	BL	INCONCLUSIVE	OL
Cd	$X \leq (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X \geq (130+3\sigma)$
Pb	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Hg	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Br	$X \leq (300-3\sigma)$	$X > (300-3\sigma)$	NA
Cr	$X \leq (700-3\sigma)$	$X > (700-3\sigma)$	NA

ELEMENT	METAL		
	BL	INCONCLUSIVE	OL
Cd	$X \leq (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X \geq (130+3\sigma)$
Pb	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Hg	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Cr	$X \leq (700-3\sigma)$	$X > (700-3\sigma)$	NA

ELEMENT	COMPLEX MATERIAL		
	BL	INCONCLUSIVE	OL
Cd	$X \leq (50-3\sigma)$	$(50-3\sigma) < X < (150+3\sigma)$	$X \geq (150+3\sigma)$
Pb	$X \leq (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X \geq (1500+3\sigma)$
Hg	$X \leq (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X \geq (1500+3\sigma)$
Br	$X \leq (250-3\sigma)$	$X > (250-3\sigma)$	NA
Cr	$X \leq (500-3\sigma)$	$X > (500-3\sigma)$	NA

- Screening limits in mg/kg for regulated phthalates in various matrices

PHTHALATES	BL	INCONCLUSIVE
DEHP	$X < 600$	$X \geq 600$
BBP	$X < 600$	$X \geq 600$
DBP	$X < 600$	$X \geq 600$
DIBP	$X < 600$	$X \geq 600$

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2.2 HEAVY METAL CONTENT

Test method: With reference to EN 62321-4:2014 /A1:2017, EN 62321-5:2014, EN 62321-7-1:2015 and EN 62321-7-2:2017, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Ultraviolet-visible spectrophotometer (UV-Vis).

[Reporting Limit: 2.0 mg/kg for Cadmium; 5.0 mg/kg or 0.10 µg/cm² for Hexavalent Chromium, 10.0 mg/kg for Lead and Mercury.]

Sample No.	Result(s)				
	Total Cadmium	Hexavalent Chromium	Hexavalent Chromium	Total Mercury	Total Lead
15	--	/	Negative	--	--
28	--	--	--	--	20432.0 ^(c)
42	--	/	Negative	--	--
63	--	--	--	--	2558.0 ^(d)
69	--	--	--	--	1004.0 ^(d)
86	--	--	--	--	2487.0 ^(d)
89	--	--	--	--	3398.0 ^(d)
90	--	--	--	--	144818.0 ^(d)
101	--	/	Negative	--	--
146	--	--	--	--	2362.0 ^(d)
Unit	mg/kg	mg/kg	µg/cm²	mg/kg	mg/kg
RoHS Requirement	100	1000	Negative [#]	1000	1000

Remark:

- "mg/kg" denotes milligram per kilogram
- "µg/cm²" denotes micrograms per square centimeter
- "<" denotes less than
- "Positive" denotes the absorbance value of sample is > 0.13 µg/cm², the sample is considered to be positive for Hexavalent Chromium.
- "Inconclusive" denotes the absorbance value of sample is ≥ 0.10 µg/cm² and ≤ 0.13 µg/cm², the sample is considered to be Inconclusive for Hexavalent Chromium.
- "Negative" denotes the absorbance value of sample is < 0.10 µg/cm², the sample is considered to be negative for Hexavalent Chromium.
- [#] According to DIRECTIVE 2011/65/EU Article 4(1) and Annex II. While, positive means the presence of CrVI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1) and Annex II.
- "--" denotes tested by XRF, result is listed in 2.1
- ^(c) denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 6(a) (b) (c) "Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight. Alloying element in aluminium containing up to 0,4 % lead by weight. Copper alloy containing up to 4 % lead by weight".
- ^(d) denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 7(c)-I "Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound".



2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]					RoHS Requirement [mg/kg]
		12	14	16	18	23	
PBBs	Monobromobiphenyl	<5	<5	<5	<5	<5	-
	Dibromobiphenyl	<5	<5	<5	<5	<5	-
	Tribromobiphenyl	<5	<5	<5	<5	<5	-
	Tetrabromobiphenyl	<5	<5	<5	<5	<5	-
	Pentabromobiphenyl	<5	<5	<5	<5	<5	-
	Hexabromobiphenyl	<5	<5	<5	<5	<5	-
	Heptabromobiphenyl	<5	<5	<5	<5	<5	-
	Octabromobiphenyl	<5	<5	<5	<5	<5	-
	Nonabromobiphenyl	<5	<5	<5	<5	<5	-
	Decabromobiphenyl	<5	<5	<5	<5	<5	-
	Sum of detected PBBs	<50	<50	<50	<50	<50	1000
PBDEs	Monobromodiphenyl ether	<5	<5	<5	<5	<5	-
	Dibromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tribromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tetrabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Pentabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Hexabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Heptabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Octabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Nonabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Decabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Sum of detected PBDEs	<50	<50	<50	<50	<50	1000

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2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]					RoHS Requirement [mg/kg]
		24	26	29	31	43	
PBBs	Monobromobiphenyl	<5	<5	<5	<5	<5	-
	Dibromobiphenyl	<5	<5	<5	<5	<5	-
	Tribromobiphenyl	<5	<5	<5	<5	<5	-
	Tetrabromobiphenyl	<5	<5	<5	<5	<5	-
	Pentabromobiphenyl	<5	<5	<5	<5	<5	-
	Hexabromobiphenyl	<5	<5	<5	<5	<5	-
	Heptabromobiphenyl	<5	<5	<5	<5	<5	-
	Octabromobiphenyl	<5	<5	<5	<5	<5	-
	Nonabromobiphenyl	<5	<5	<5	<5	<5	-
	Decabromobiphenyl	<5	<5	<5	<5	<5	-
	Sum of detected PBBs	<50	<50	<50	<50	<50	1000
PBDEs	Monobromodiphenyl ether	<5	<5	<5	<5	<5	-
	Dibromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tribromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tetrabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Pentabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Hexabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Heptabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Octabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Nonabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Decabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Sum of detected PBDEs	<50	<50	<50	<50	<50	1000

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2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]					RoHS Requirement [mg/kg]
		49	52	56	59	67	
PBBs	Monobromobiphenyl	<5	<5	<5	<5	<5	-
	Dibromobiphenyl	<5	<5	<5	<5	<5	-
	Tribromobiphenyl	<5	<5	<5	<5	<5	-
	Tetrabromobiphenyl	<5	<5	<5	<5	<5	-
	Pentabromobiphenyl	<5	<5	<5	<5	<5	-
	Hexabromobiphenyl	<5	<5	<5	<5	<5	-
	Heptabromobiphenyl	<5	<5	<5	<5	<5	-
	Octabromobiphenyl	<5	<5	<5	<5	<5	-
	Nonabromobiphenyl	<5	<5	<5	<5	<5	-
	Decabromobiphenyl	<5	<5	<5	<5	<5	-
	Sum of detected PBBs	<50	<50	<50	<50	<50	1000
PBDEs	Monobromodiphenyl ether	<5	<5	<5	<5	<5	-
	Dibromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tribromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tetrabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Pentabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Hexabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Heptabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Octabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Nonabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Decabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Sum of detected PBDEs	<50	<50	<50	<50	<50	1000

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2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]					RoHS Requirement [mg/kg]
		68	84	95	100	138	
PBBs	Monobromobiphenyl	<5	<5	<5	<5	<5	-
	Dibromobiphenyl	<5	<5	<5	<5	<5	-
	Tribromobiphenyl	<5	<5	<5	<5	<5	-
	Tetrabromobiphenyl	<5	<5	<5	<5	<5	-
	Pentabromobiphenyl	<5	<5	<5	<5	<5	-
	Hexabromobiphenyl	<5	<5	<5	<5	<5	-
	Heptabromobiphenyl	<5	<5	<5	<5	<5	-
	Octabromobiphenyl	<5	<5	<5	<5	<5	-
	Nonabromobiphenyl	<5	<5	<5	<5	<5	-
	Decabromobiphenyl	<5	<5	<5	<5	<5	-
	Sum of detected PBBs		<50	<50	<50	<50	<50
PBDEs	Monobromodiphenyl ether	<5	<5	<5	<5	<5	-
	Dibromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tribromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tetrabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Pentabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Hexabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Heptabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Octabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Nonabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Decabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Sum of detected PBDEs		<50	<50	<50	<50	<50

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2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]	RoHS Requirement [mg/kg]
		139	
PBBs	Monobromobiphenyl	<5	-
	Dibromobiphenyl	<5	-
	Tribromobiphenyl	<5	-
	Tetrabromobiphenyl	<5	-
	Pentabromobiphenyl	<5	-
	Hexabromobiphenyl	<5	-
	Heptabromobiphenyl	<5	-
	Octabromobiphenyl	<5	-
	Nonabromobiphenyl	<5	-
	Decabromobiphenyl	<5	-
	Sum of detected PBBs	<50	1000
PBDEs	Monobromodiphenyl ether	<5	-
	Dibromodiphenyl ether	<5	-
	Tribromodiphenyl ether	<5	-
	Tetrabromodiphenyl ether	<5	-
	Pentabromodiphenyl ether	<5	-
	Hexabromodiphenyl ether	<5	-
	Heptabromodiphenyl ether	<5	-
	Octabromodiphenyl ether	<5	-
	Nonabromodiphenyl ether	<5	-
	Decabromodiphenyl ether	<5	-
	Sum of detected PBDEs	<50	1000


Remark:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than

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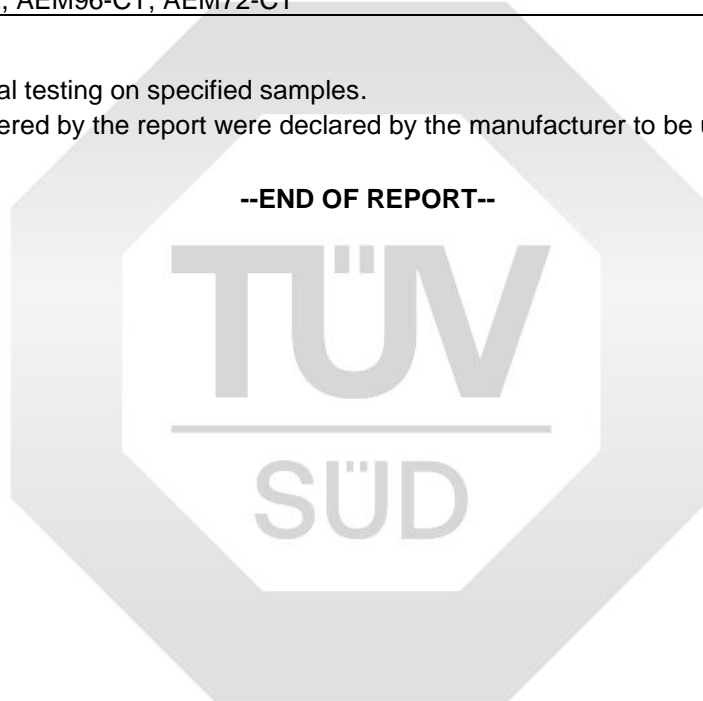
APPENDIX I: Product Model

Product: Power Meter	Test model: AEM96
	
Additional models: AEM72, AEM96-CT, AEM72-CT	

Remark:

1. The report covers material testing on specified samples.
2. The tested materials covered by the report were declared by the manufacturer to be used on the additional model.

--END OF REPORT--



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