Test Report

No. : CE/2007/A2825B Date : 2007/10/30 Page : 1 of 23

WALSIN TECHNOLOGY CORPORATION
NO. 1, EAST 10TH. STREET, K.E.P.Z. 806 KAOHSIUNG. TAIWAN
R. O. C.

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description	:	RESISTOR PRODUCTS
Style/Item No.	:	CHIP RESISTOR (WR/WW/WF SERIES;0201/0402/0603/0805/1206/1210/1218/2010/2512) / CHIP RESISTOR 0402 / CHIP RESISTOR 0603 / CHIP RESISTOR 0805 / CHIP RESISTOR 1206 / CHIP RESISTOR 1210 / CHIP RESISTOR 1218 / CHIP RESISTOR 2010 / CHIP RESISTOR 2512 / CHIP RESISTOR 2512 METAL
Sample Receiving Date	:	2007/10/15
Testing Period	:	2007/10/15 TO 2007/10/22

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Test Result(s) : Please refer to next page(s).

Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Test Result(s)

PART NAME NO.1	:	CHIP RESISTOR (WR/WW/WF SERIES; 0201/0402/0603/0805/1206/1210/1218/2010/2512)
PART NAME NO.2	:	CHIP RESISTOR 0402
PART NAME NO.3	:	CHIP RESISTOR 0603
PART NAME NO.4	:	CHIP RESISTOR 0805
PART NAME NO.5	:	CHIP RESISTOR 1206
PART NAME NO.6	:	CHIP RESISTOR 1210
PART NAME NO.7	:	CHIP RESISTOR 1218
PART NAME NO.8	:	CHIP RESISTOR 2010
PART NAME NO.9	:	CHIP RESISTOR 2512
PART NAME NO.10	:	CHIP RESISTOR 2512 METAL

Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Cadmium by ICP-AES.	2	n.d.	---	---	---	---
Lead (Pb)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Lead by ICP-AES.	2	---	513	494	350	392
Mercury (Hg)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Mercury by ICP-AES.	2	n.d.	---	---	---	---
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.	---	---	---	---
Phosphorus (P)	mg/kg	With reference to US EPA 3050B. Analysis was performed by ICP-AES.(See Note 10)	2	n.d.	---	---	---	---
Antimony trioxide (Sb_2O_3)	mg/kg	With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES. (See Note 13)	2.4	13	---	---	---	---

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Beryllium oxide (BeO)	mg/kg	With reference to US EPA Method 3050B for Beryllium Content. Analysis was performed by ICP-AES. (See Note 11 and See Note 12)	5.6	n.d.	---	---	---	---
Tetrabromobisphenol A (TBBP-A) (CAS No.: 000079-94-7)	mg/kg	With reference to DIN 53313 and IEC 62321 ed.1. Analysis was performed by GC/MS.	10	n.d.	---	---	---	---
Polychlorinated Biphenyls (PCBs) (CAS No.: 001336-36-3)	mg/kg	With reference to US EPA 8270D method. Analysis was performed by GC/MS.	0.5	n.d.	---	---	---	---
Polychlorinated Terphenyls (PCTs)	mg/kg	With reference to US EPA 8270D method. Analysis was performed by GC/MS.	0.5	n.d.	---	---	---	---
Chlorinated Paraffin (C10~C13) (CAS No.: 010871-26-2)	%	With reference to US EPA 8270D method. Analysis was performed by GC/MS.	0.01	n.d.	---	---	---	---
Polychlorinated Naphthalene (PCNs)	mg/kg	With reference to US EPA 8270D method. Analysis was performed by GC/MS.	5	n.d.	---	---	---	---
PVC	%	Analysis was performed by FTIR and Pyrolyzer-GC/MS.	1	Negative	---	---	---	---
Formaldehyde (CAS No.: 000050-00-0)	mg/kg	With reference to DIN 53315. Analysis was performed by HPLC/DAD.	3	n.d.	---	---	---	---
Sum of PBBs	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	-	n.d.	---	---	---	---
Monobromobiphenyl			5	n.d.	---	---	---	---
Dibromobiphenyl			5	n.d.	---	---	---	---
Tribromobiphenyl			5	n.d.	---	---	---	---
Tetrabromobiphenyl			5	n.d.	---	---	---	---
Pentabromobiphenyl			5	n.d.	---	---	---	---
Hexabromobiphenyl			5	n.d.	---	---	---	---
Heptabromobiphenyl			5	n.d.	---	---	---	---
Octabromobiphenyl			5	n.d.	---	---	---	---
Nonabromobiphenyl			5	n.d.	---	---	---	---
Decabromobiphenyl			5	n.d.	---	---	---	---

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Sum of PBDEs (Mono to Nona) (Note 4)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	-	n.d.	---	---	---	---
Monobromobiphenyl ether			5	n.d.	---	---	---	---
Dibromobiphenyl ether			5	n.d.	---	---	---	---
Tribromobiphenyl ether			5	n.d.	---	---	---	---
Tetrabromobiphenyl ether			5	n.d.	---	---	---	---
Pentabromobiphenyl ether			5	n.d.	---	---	---	---
Hexabromobiphenyl ether			5	n.d.	---	---	---	---
Heptabromobiphenyl ether			5	n.d.	---	---	---	---
Octabromobiphenyl ether			5	n.d.	---	---	---	---
Nonabromobiphenyl ether			5	n.d.	---	---	---	---
Decabromobiphenyl ether			5	n.d.	---	---	---	---
Sum of PBDEs (Mono to Deca)			-	n.d.	---	---	---	---
AZO	---	---	---	---	---	---	---	---
1): 4-AMINODIPHENYL (CAS No.: 000092-67-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
2): BENZIDINE (CAS No.: 000092-87-5)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
3): 4-CHLORO-O-TOLUIDINE (CAS No.: 000095-69-2)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
4): 2-NAPHTHYLAMINE (CAS No.: 000091-59-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
5): O-AMINOAZOTOLUENE (CAS No.: 000097-56-3)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
6): 2-AMINO-4-NITROTOLUENE (CAS No.: 000099-55-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
7): P-CHLOROANILINE (CAS No.: 000106-47-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
8): 2,4-DIAMINOANISOLE (CAS No.: 000615-05-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
9): 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000101-77-9)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
10): 3,3'-DICHLOROBENZIDINE (CAS No.: 000091-94-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
11): 3,3'-DIMETHOXYBENZIDINE (CAS No.: 000119-90-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
12): 3,3'-DIMETHYLBENZIDINE (CAS No.: 000119-93-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
13): 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000838-88-0)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
14): P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 000120-71-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
15): 4,4'-METHYLENE-BIS- (2-CHLOROANILINE) (CAS No.: 000101-14-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
16): 4,4'-OXYDIANILINE (CAS No.: 000101-80-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
17): 4,4'-THIODIANILINE (CAS No.: 000139-65-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
18): O-TOLUIDINE (CAS No.: 000095-53-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
19): 2,4-TOLUYLENEDIAMINE (CAS No.: 000095-80-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
20): 2,4,5-TRIMETHYLANILINE (CAS No.: 000137-17-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
21): O-ANISIDINE (CAS No.: 000090-04-0)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
22): P-AMINOAZOBENZENE (CAS No.: 000060-09-3)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
23): 2,4-XYLIDINE (CAS No.: 000095-68-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
24): 2,6-XYLIDINE (CAS No.: 000087-62-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---	---	---
Asbestos	---	---	---	---	---	---	---	---
Amosite (CAS No.: 012172-73-5)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	---	---	---	---
Anthophyllite (CAS No.: 017068-78-9)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	---	---	---	---
Chrysotile (CAS No.: 012001-29-5)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	---	---	---	---
Tremolite (CAS No.: 014567-73-8)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	---	---	---	---
Crocidolite (CAS No.: 012001-28-4)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	---	---	---	---
Actinolite (CAS No.: 013768-00-8)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	---	---	---	---
Organic-tin compounds	---	---	---	---	---	---	---	---
Triphenyl Tin (TphT) (CAS No.: 000668-34-8)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.	---	---	---	---
Tributyl Tin (TBT) (CAS No.: 000688-73-3)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.	---	---	---	---
CFC's (Chlorofluorocarbons)	---	---	---	---	---	---	---	---
Group I	---	---	---	---	---	---	---	---
Chlorofluorocarbon-11 (CAS No.: 000075-69-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Chlorofluorocarbon-12 (CAS No.: 000075-71-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Chlorofluorocarbon-113 (CAS No.: 000076-13-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Chlorofluorocarbon-114 (CAS No.: 000076-14-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Chlorofluorocarbon-115 (CAS No.: 000076-15-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Group III	---	---	---	---	---	---	---	---
Chlorofluorocarbon-13 (CAS No.: 000075-72-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Chlorofluorocarbon-111 (CAS No.: 000354-56-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Chlorofluorocarbon-112 (CAS No.: 000076-12-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Chlorofluorocarbon-211 (CAS No.: 135401-87-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Chlorofluorocarbon-212 (CAS No.: 076564-99-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Chlorofluorocarbon-213 (CAS No.: 060285-54-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Chlorofluorocarbon-214 (CAS No.: 002268-46-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Chlorofluorocarbon-215 (CAS No.: 000076-17-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Chlorofluorocarbon-216 (CAS No.: 001652-80-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Chlorofluorocarbon-217 (CAS No.: 000422-86-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Halon	---	---	---	---	---	---	---	---
Halon-1211	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Halon-1301	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Halon-2402	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
HCFC's (Hydrogenated chlorofluorocarbons)	---	---	---	---	---	---	---	---
Hydrochlorofluorocarbon-21 (CAS No.: 000075-43-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-22 (CAS No.: 000075-45-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-31 (CAS No.: 000593-70-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-121 (CAS No.: 000354-14-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-122 (CAS No.: 000354-21-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-123 (CAS No.: 000306-83-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-124 (CAS No.: 002837-89-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-131 (CAS No.: 000359-28-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-132 (CAS No.: 000471-43-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-133a (CAS No.: 000075-88-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Hydrochlorofluorocarbon-141b (CAS No.: 001717-00-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-221	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-222 (CAS No.: 000422-30-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-223	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-224	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-225ca (CAS No.: 000422-56-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-225cb (CAS No.: 000507-55-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-226 (CAS No.: 000431-87-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-231	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-232	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-233	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-234	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-235 (CAS No.: 013838-16-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Hydrochlorofluorocarbon-241	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-242	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-243 (CAS No.: 000338-75-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-244	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-251	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-252	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-253 (CAS No.: 000354-06-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-261 (CAS No.: 000420-97-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-262 (CAS No.: 000420-99-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrochlorofluorocarbon-271	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Hydrofluorcarbon, fluorinated hydrocarbon, fluorohydrocarbon (HFC)	---	---	---	---	---	---	---	---
HFC-23 (CHF3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
HFC-32 (CHF3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
HFC-41 (CH3F)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
HFC-43-10mee (C5H2F10)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
HFC-125 (C2HF5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
HFC-134 (C2H2F4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
HFC-134a (CH2FCF3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
HFC-143 (CH3F3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
HFC-143a (CH3F3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
HFC-152a (C2H4F2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
HFC-227ea (C3HF7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
HFC-236fa (C3H2F6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
HFC-236ea (C3H2F6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
HFC-245ca (C3H3F5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
HFC-245fa (C3H3F5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
HFC-365mfc (C4H5F5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Perfluorocarbon (PFC)	---	---	---	---	---	---	---	---
F14 (CAS No.: 000075-73-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Fluorocarbon 116 (CAS No.: 000076-16-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Freon 218 (CAS No.: 000076-19-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Decafluorobutane (CAS No.: 000355-25-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Freon C318 (CAS No.: 000115-25-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
Perfluor-1-butane (CAS No.: 000357-26-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
perfluorisobutane (CAS No.: 000382-21-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
1,4-dihydroctafluorobutane (CAS No.: 000377-36-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
nonafluor-2-(trifluorpmethyl)butane (CAS No.: 000594-91-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
perfluoro-n-pentane (CAS No.: 000678-26-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
2-perfluoromethylpentane (CAS No.: 000355-04-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---
perfluorohexane (CAS No.: 000355-42-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---	---	---	---

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Halogen	---	With reference to BS EN 14582 Annex A. Analysis was performed by IC method for F , Cl , Br, I content.	---	---	---	---	---	---
Halogen-Fluorine (F) (CAS No.: 007782-41-4)	mg/kg	With reference to BS EN 14582 Annex A. Analysis was performed by IC method for Fluorine content.	50	n.d.	---	---	---	---
Halogen-Chlorine (Cl) (CAS No.: 007782-50-5)	mg/kg	With reference to BS EN 14582 Annex A. Analysis was performed by IC method for Chlorine content.	50	n.d.	---	---	---	---
Halogen-Bromine (Br) (CAS No.: 007726-95-6)	mg/kg	With reference to BS EN 14582 Annex A. Analysis was performed by IC method for Bromine content.	50	n.d.	---	---	---	---
Halogen-Iodine (I) (CAS No.: 007553-56-2)	mg/kg	With reference to BS EN 14582 Annex A. Analysis was performed by IC method for Iodine content.	50	n.d.	---	---	---	---
Phthalates	---	---	---	---	---	---	---	---
DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC).	0.003	n.d.	---	---	---	---
DINP (Di-isononyl phthalate) (CAS No.: 028553-12-0)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC).	0.003	n.d.	---	---	---	---
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC).	0.003	n.d.	---	---	---	---
DIDP (Di-isodecyl phthalate) (CAS No.: 026761-40-0)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC).	0.003	n.d.	---	---	---	---

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC).	0.003	n.d.	---	---	---	---
BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC).	0.003	n.d.	---	---	---	---

Test Item (s):	Unit	Method	MDL	Result				
				No.6	No.7	No.8	No.9	No.10
Lead (Pb)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Lead by ICP-AES.	2	532	604	657	760	29

Note：
1. mg/kg = ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. According to 2005/717/EC DecaBDE is exempt.
5. "---" = Not Conducted
6. " - " = Not Regulated
7. Negative = "< 1.0 %", Positive = "> 1.0 %"
8. The MDL is 5ppm for the single compound of CP
9. Amending for the 22nd Council Directive 76/769/EEC notified under document 2005/84/EC, total concentration of three compounds DEHP, DBP and BBP shall not be greater than 0.1% and total concentration of three compounds DINP, DIDP and DNOP shall not be greater than 0.1%.
10. Since the red phosphorus is one of four allotropic forms of phosphorus and the test result is n.d. for phosphorus, we can have conclusion that the red phosphorus is n.d..
11. Beryllium oxide (BeO): Calculate from Beryllium content multiply 2.7753 factor.
12. Since beryllium copper is a metal alloy of copper and beryllium and the test result is n.d. for beryllium, we can have conclusion that the beryllium copper is n.d..
13. Antimony trioxide(Sb_2O_3): Calculate from antimony content multiply 1.197 factor.

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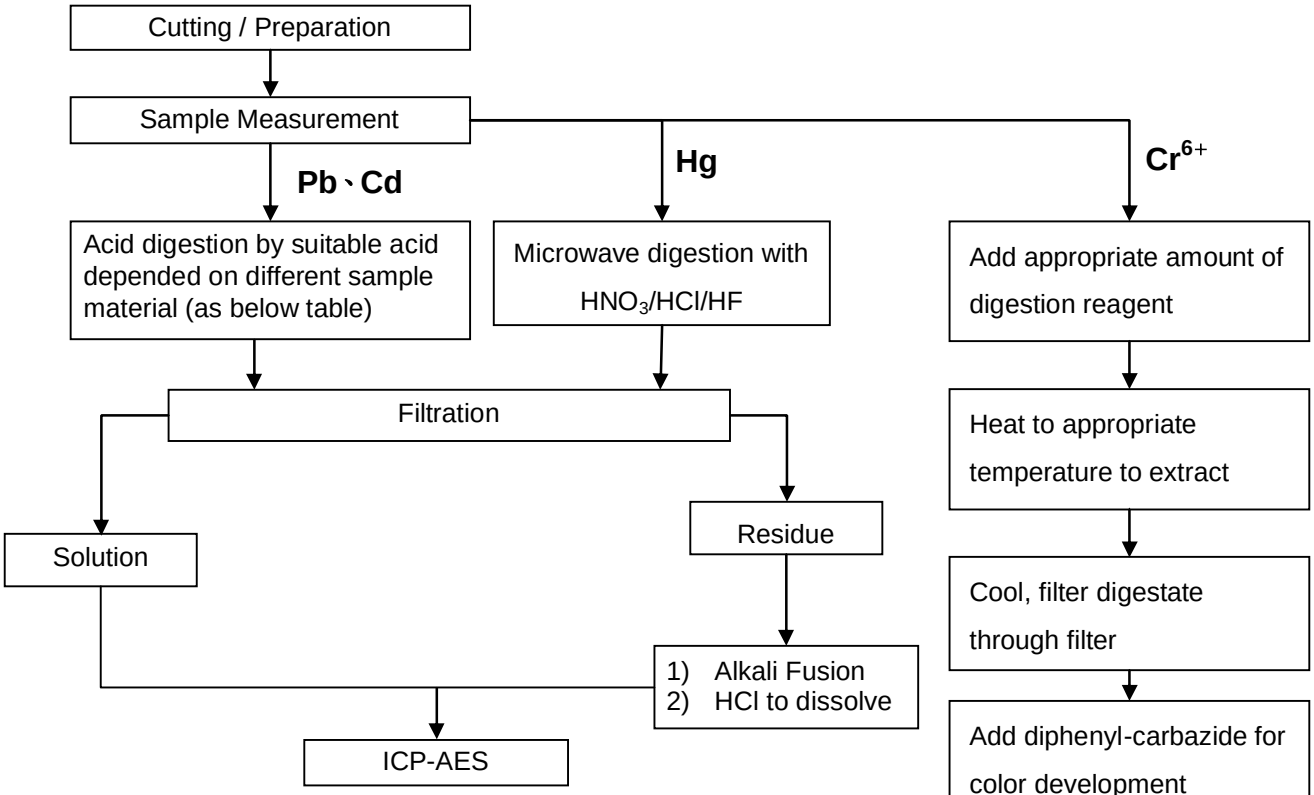
1) These samples were dissolved totally by pre-conditioning method according to below flow chart. （Cr6+ test method excluded）
2) Name of the person who made measurement: Troy Chang
3) Name of the person in charge of measurement: Chenyu Kung



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO_3, HCl, HF, H_2O_2
Glass	HNO_3/HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO_3
Plastic	H_2SO_4, H_2O_2, HNO_3, HCl
Others	Any acid to total digestion

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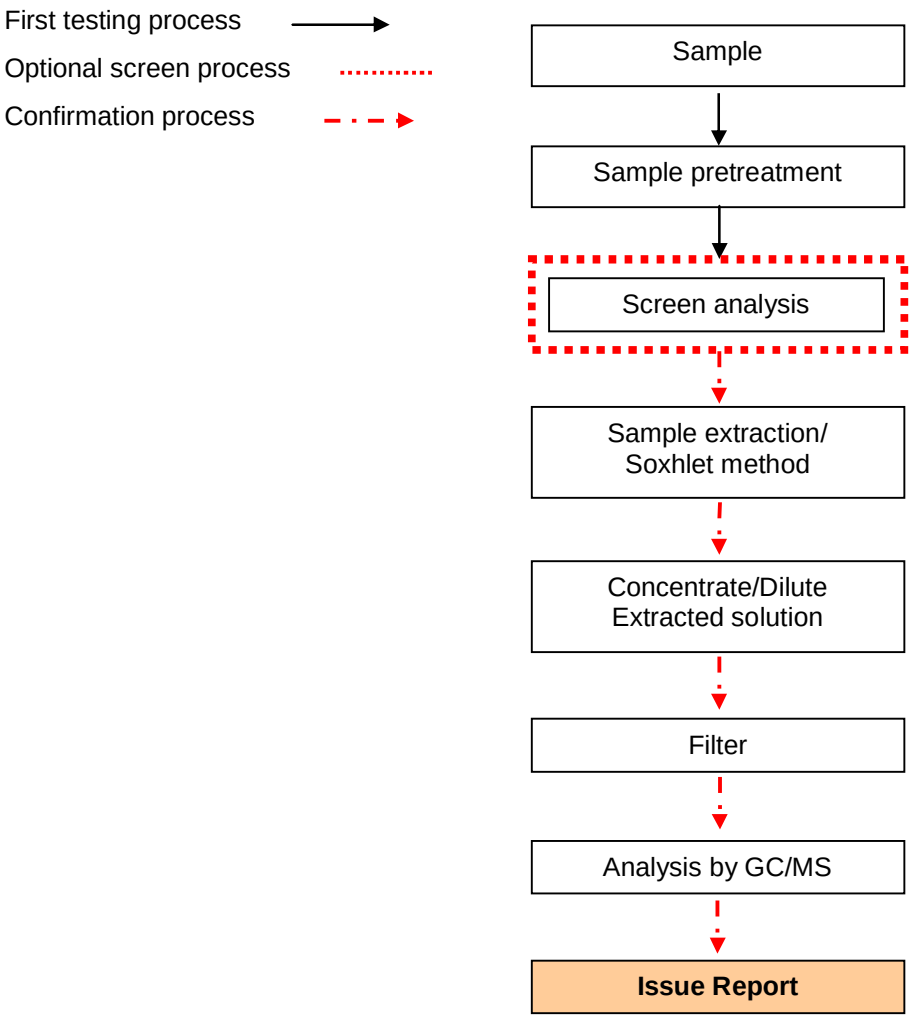
PBB/PBDE analytical FLOW CHART



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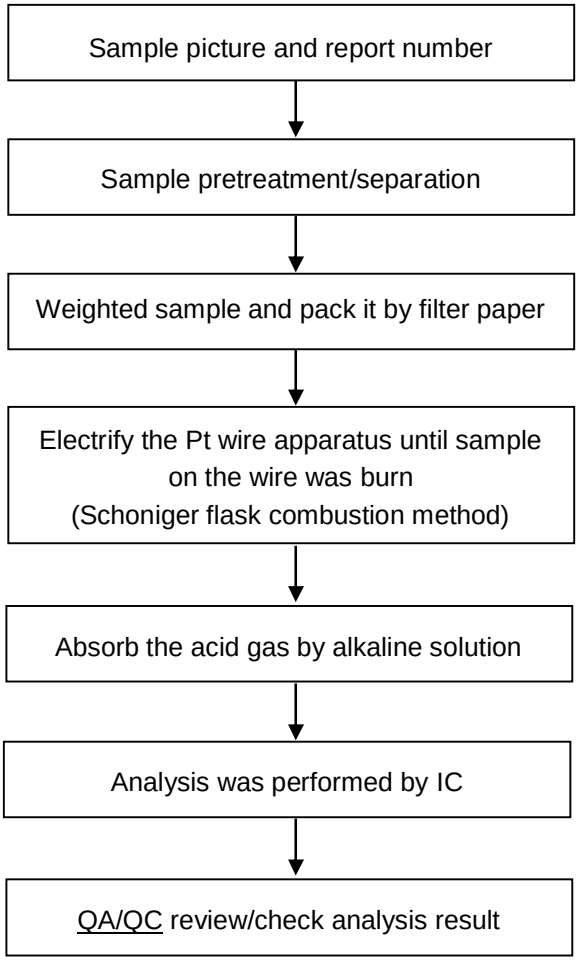
Analytical flow chart of halogen content



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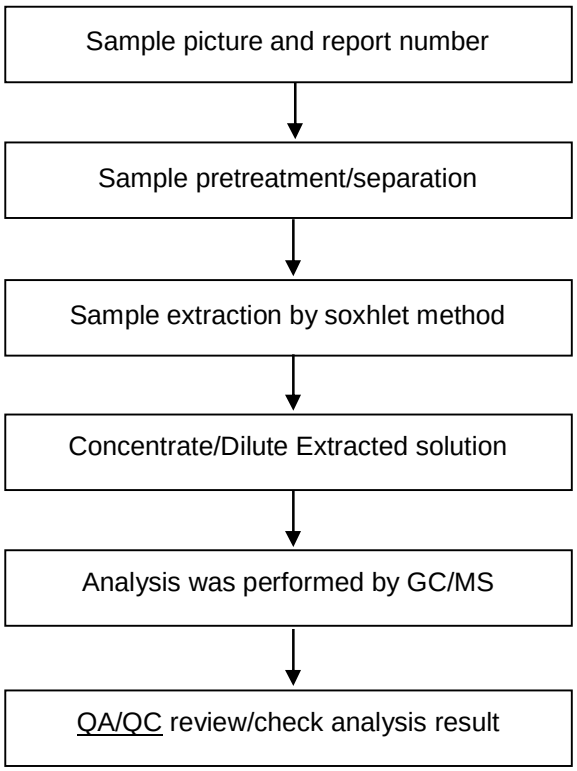
Analytical flow chart of phthalate content



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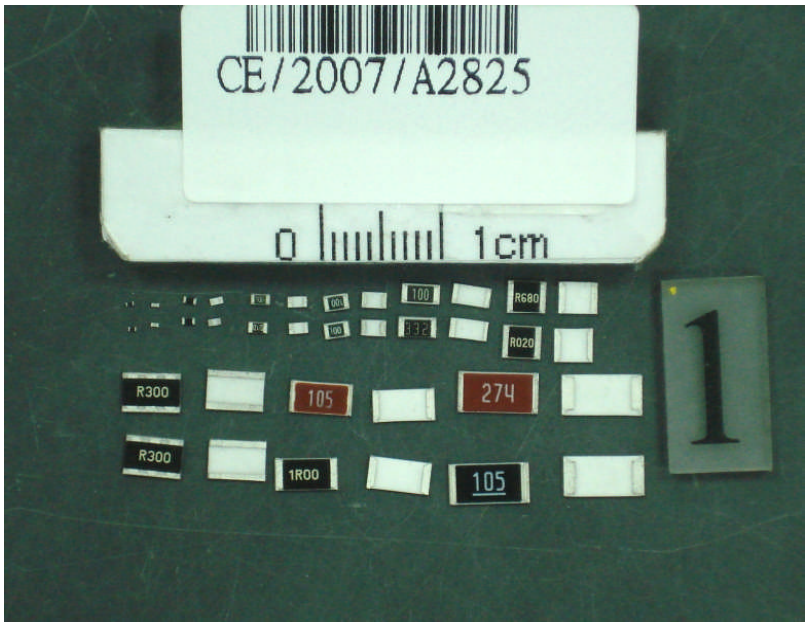
NO.1



NO.2

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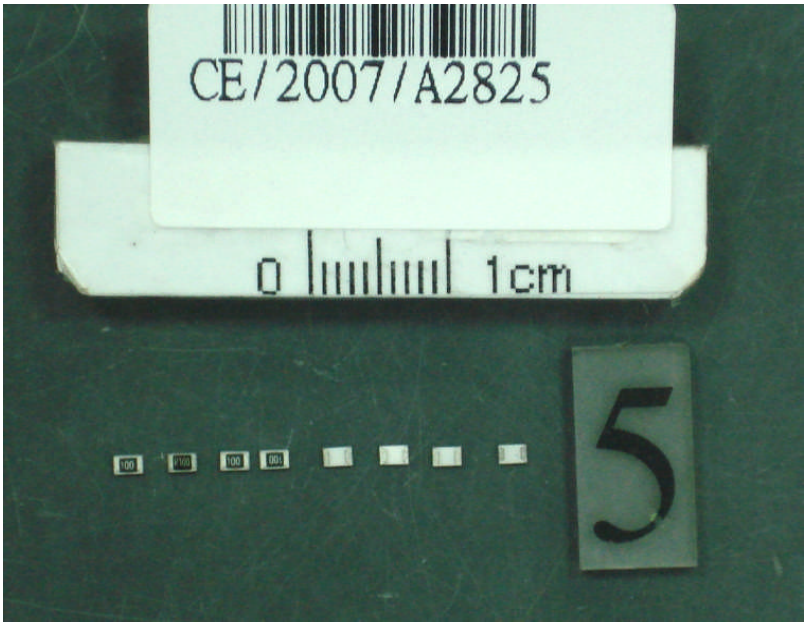
NO.3

NO.4



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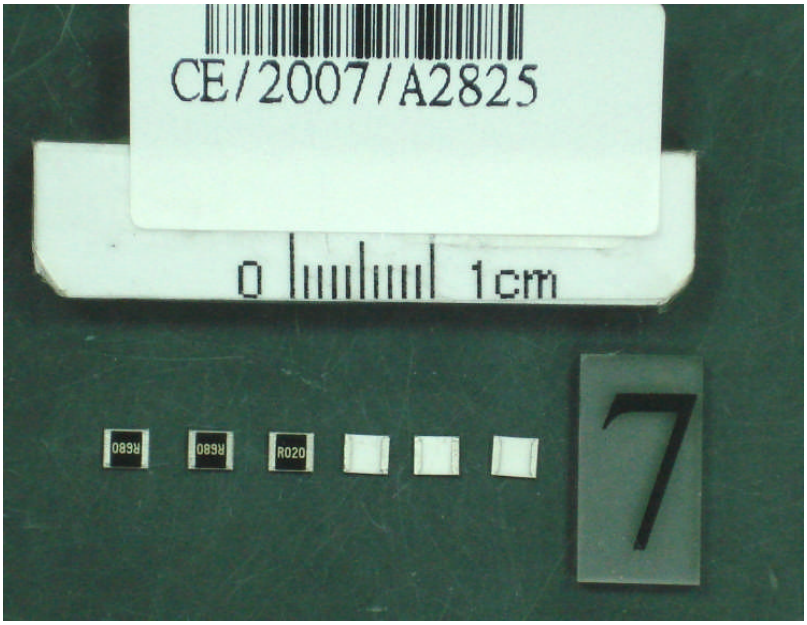
NO.5

NO.6



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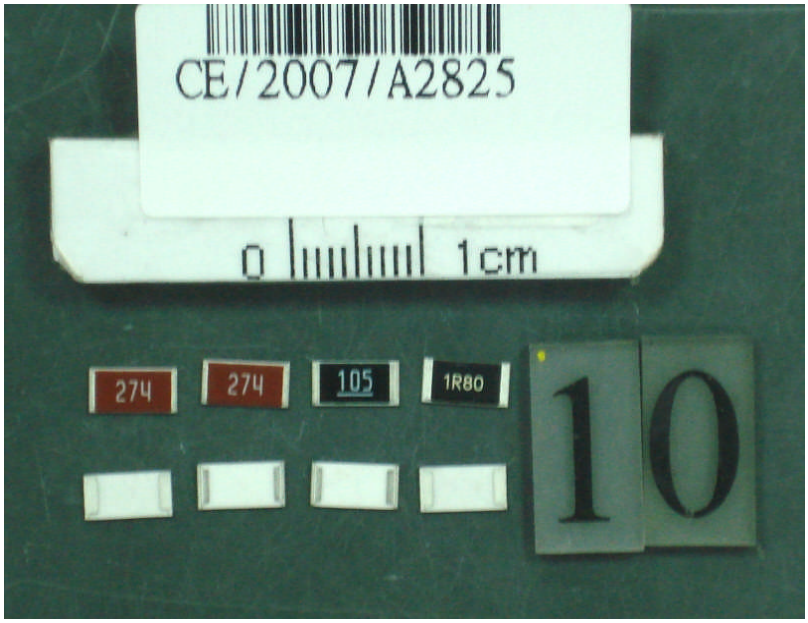
NO.9



NO.10

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