

REPORT NO.KA/2005/70990/A-1

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THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED AND IDENTIFIED BY THE CLIENT AS:

CLIENT: Skywell Electronics Corp..

: 10-1, NO. 161, KungYi Rd., Taichung, Taiwan, R.O.C..

PRODUCT DESCRIPTION: CHIP RESISTOR.

STYLE/ITEM NO.: ALL SERIES(LEAD FREE).SAMPLE: AS ATTACHED PHOTO.TESTING DATE: 2005/07/19 TO 2005/08/01

SAMPLE RECEIVED: 2005/07/15.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
ASBESTOS ANALYSIS				
Anthrophyllite(CAS NO.017068-78-9)		As per NIOSH 9000 method. Analysis was performed by XRD.		n.d.
Crocidolite(CAS NO.012001-28-4)		As per NIOSH 9000 method. Analysis was performed by XRD.		n.d.
Amosite(CAS NO.012172-73-5)		As per NIOSH 9000 method. Analysis was performed by XRD.		n.d.
Tremolite(CAS NO.014567-73-8)		As per NIOSH 9000 method. Analysis was performed by XRD.		n.d.
Chrysotile(CAS NO.012001-29-5)		As per NIOSH 9000 method. Analysis was performed by XRD.		n.d.
Actinolite(CAS NO.013768-00-8)		As per NIOSH 9000 method. Analysis was performed by XRD.		n.d.
FORMALDEHYDE	ppm	DIN 53315 METHOD B (HPLC)	0.2	n.d.
PVC FREE TEST		FTIR/ATR AND FLAME TEST		n.d.
ORGANOTIN COMPOUNDS				
TRIBUTYLTIN(TBT)	ppm	BY USING GC/FPD WITH THE PROCEDURE OUTLINE IN DIN 38407.	0.03	n.d.
TRIPHENYLTIN(TPT)	ppm	BY USING GC/FPD WITH THE PROCEDURE OUTLINE IN DIN 38407.	0.03	n.d.
HCFCs				
HYDROCHLOROFLUOROCARBON- 21	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 22	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.



Kueisan Chen

Kueilan Chen / Asst. Supervisor Sign for and on behalf of SGS Taiwan Limited

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TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
HYDROCHLOROFLUOROCARBON- 31	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 121	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 122	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 123	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 124	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 131	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 132b	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 133a	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 141b	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 142b	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 221	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 222	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 223	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 224	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 225ca	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 225cb	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 226	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 231	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 232	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 233	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HYDROCHLOROFLUOROCARBON- 234	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.



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TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT	
HYDROCHLOROFLUOROCARBON-	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
235	РРП	TWALTZED DI GOMMO ENVILLED HEADON MOE	'	n.d.	
HYDROCHLOROFLUOROCARBON-	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
241	P P · · ·	7.1.0.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	·		
HYDROCHLOROFLUOROCARBON-	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
242	• • • • • • • • • • • • • • • • • • • •			-	
HYDROCHLOROFLUOROCARBON-	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
243 HYDROCHLOROFLUOROCARBON-					
244	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
HYDROCHLOROFLUOROCARBON-					
251	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
HYDROCHLOROFLUOROCARBON-					
252	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
HYDROCHLOROFLUOROCARBON-		ANIAL V.755 DV 00/40 LINUS LIFA DODA 05	_		
253	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
HYDROCHLOROFLUOROCARBON-		ANIAL VZED DV OO MAG LINIVED LIE A DODA OF	4	1	
261	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
HYDROCHLOROFLUOROCARBON-	nnm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
262	ppm	ANALTZED BY GC/WS LINKED HEADSPACE	ļ	n.a.	
HYDROCHLOROFLUOROCARBON-	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
271	ррпп	ANALIZED BY GO/NIS ENVIED HEADSI ACE	'	n.u.	
CFCs & HALON					
CHLOROFLUOROCARBON-11	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
CHLOROFLUOROCARBON-12	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
CHLOROFLUOROCARBON-113	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
CHLOROFLUOROCARBON-114	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
CHLOROFLUOROCARBON-115	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
HALON-1211	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
HALON-1301	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
HALON-2402	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
CHLOROFLUOROCARBON-13 CHLOROFLUOROCARBON-111	ppm	ANALYZED BY GC/MS LINKED HEADSPACE ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
CHLOROFLUOROCARBON-111 CHLOROFLUOROCARBON-112	ppm	ANALYZED BY GC/MS LINKED HEADSPACE ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
CHLOROFLUOROCARBON-112 CHLOROFLUOROCARBON-211	ppm	ANALYZED BY GC/MS LINKED HEADSPACE ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d. n.d.	
CHLOROFLUOROCARBON-212	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
CHLOROFLUOROCARBON-213	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
CHLOROFLUOROCARBON-214	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
CHLOROFLUOROCARBON-215	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
CHLOROFLUOROCARBON-216	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
CHLOROFLUOROCARBON-217	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
CARBON TETRACHLORIDE	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	
METHYL CHLOROFORM	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.	



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TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
HBFC				
HBFC-21B2	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-22B1	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-31B1	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-121B4	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-122B3	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-123B2	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-124B1	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-131B3	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-132B2	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-133B1	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-141B2	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-142B1	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-151B1	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-221B6	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-222B5	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-223B4	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-224B3	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-225B2	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-226B1	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-231B5	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-232B4	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-233B3	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-234B2	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-235B1	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-241B4	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-242B3	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-243B2	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-244B1		ANALYZED BY GC/MS LINKED HEADSPACE	1	
HBFC-251B3	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-252B2	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d. n.d.
HBFC-253B1	ppm	ANALYZED BY GC/MS LINKED HEADSPACE	1	
HBFC-261B2		ANALYZED BY GC/MS LINKED HEADSPACE ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
HBFC-262B1	ppm	ANALYZED BY GC/MS LINKED HEADSPACE ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
	ppm			n.d.
HBFC-271B1	ppm	ANALYZED BY GC/MS LINKED HEADSPACE ANALYZED BY GC/MS LINKED HEADSPACE	1	n.d.
BROMOMETHANE	ppm			n.d.
AZO		 LMDC 02 02 2		
1):4-AMINODIPHENYL	ppm	LMBG 82.02-2	3	n.d.
(CAS NO.92-67-1)		(GC/MS)		-
2):BENZIDINE	ppm	LMBG 82.02-2	3	n.d.
(CAS NO.92-87-5)	FF	(GC/MS)	Ŭ	111.01
3):4-CHLORO-O-TOLUIDINE	ppm	LMBG 82.02-2	3	n.d.
(CAS NO.95-69-2)	FF	(GC/MS)	,	



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TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT	
4):2-NAPHTHYLAMINE		LMBG 82.02-2		,	
(CAS NO.91-59-8)	ppm	(GC/MS)	3	n.d.	
5):O-AMINO-AZOTOLUENE		LMBG 82.02-2	0	1	
(CAS NO.97-56-3)	ppm	(GC/MS)	3	n.d.	
6):5-NITRO-O-TOLUIDINE		LMBG 82.02-2			
(CAS NO.99-55-8)	ppm	(GC/MS)	3	n.d.	
7):4-CHLOROANILINE		LMBG 82.02-2	0	1	
(CAS NO.106-47-8)	ppm	(GC/MS)	3	n.d.	
8):4-METHOXY-M-		LMDC 00 00 0			
PHENYLENEDIAMINE	ppm	LMBG 82.02-2	3	n.d.	
(CAS NO.615-05-4)		(GC/MS)			
9):4,4'-		11100 00 00 0			
DIAMINODIPHENYLMETHANE	ppm	LMBG 82.02-2	3	n.d.	
(CAS NO.101-77-9)		(GC/MS)			
10):3,3'-DICHLOROBENZIDINE		LMBG 82.02-2		n.d.	
(CAS NO.91-94-1)	ppm	(GC/MS)	3		
11):3,3'-DIMETHOXYBENZIDINE		LMBG 82.02-2		n.d.	
(CAS NO.119-90-4)	ppm	(GC/MS)	3		
12):3,3'-DIMETHYLBENZIDINE		LMBG 82.02-2		n.d.	
(CAS NO.119-93-7)	ppm	(GC/MS)	3		
13):4,4'-METHYLENEDI-O-		· · · · · · · · · · · · · · · · · · ·			
TOLUIDINE	ppm	LMBG 82.02-2	3	n.d.	
(CAS NO.838-88-0)	PPIII	(GC/MS)			
14):P-CRESIDINE		LMBG 82.02-2			
(CAS NO.120-71-8)	ppm	(GC/MS)	3	n.d.	
15):4,4'-METHYLENE-BIS-		(CC/WIC)			
(2-CHLORANILINE)	ppm	LMBG 82.02-2	3	n.d.	
(CAS NO.101-14-4)	PPIII	(GC/MS)		n.u.	
16):4,4'-OXYDIANILINE		LMBG 82.02-2			
(CAS NO.101-80-4)	ppm	(GC/MS)	3	n.d.	
17):4,4'-THIODIANILINE		LMBG 82.02-2		n.d.	
(CAS NO.139-65-1)	ppm	(GC/MS)	3		
18):O-TOLUIDINE		LMBG 82.02-2		n.d.	
(CAS NO.95-53-4)	ppm	(GC/MS)	3		
19):4-METHYL-M-		,		n.d.	
PHENYLENEDIAMINE	ppm	LMBG 82.02-2	3		
(CAS NO.95-80-7)	PPIII	(GC/MS)			
20):2,4,5-TRIMETHYLANILINE		LMBG 82.02-2		n.d.	
(CAS NO.137-17-7)	ppm	(GC/MS)	3		
21):O-ANISIDINE		LMBG 82.02-2		n.d.	
(CAS NO.90-04-0)	ppm	(GC/MS)	3		
22):4-AMINOAZOBENZENE		LMBG 82.02-2			
(CAS NO.60-09-3)	ppm	(GC/MS)	3	n.d.	
(5/10 145.00 00-0)		(CO/IVIO)			

NOTE: n.d. = not detected.

<END>



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