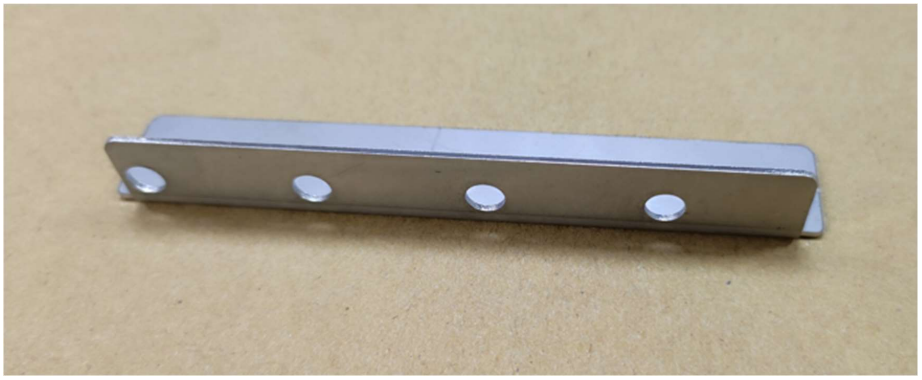
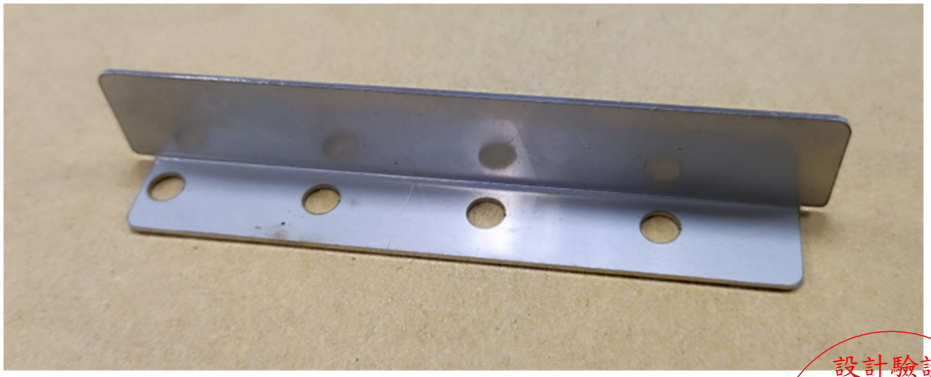




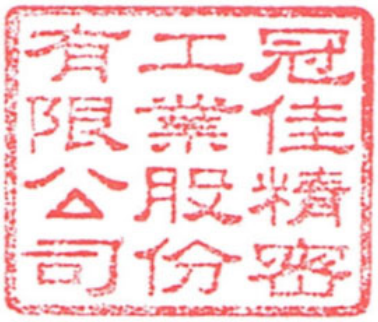
設計驗證
工程課
2024-04-22
發行
鈺鋒科技開發股份有限公司

亨悅工業(股)公司

Hand Well Enterprise CO., LTD.

樣品承認書

APPROVAL SHEET



客　　戶: 鈺緯科技
(Customer Name)

料　　號: 3MD362ME220 (M3486)
(Parts Number)

品　　名: CARD BRACKET
(Parts Name)

日　　期: 2024/03/15
(Date)

送樣數量: 30 PCS
(Sample Quantity)

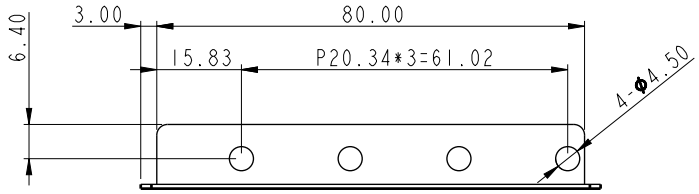


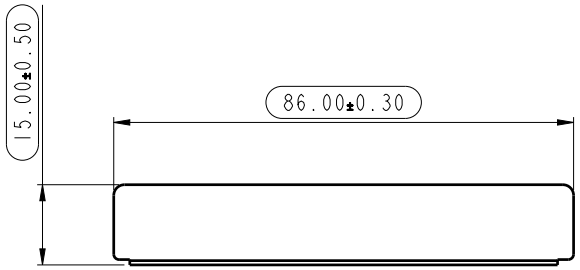
The Table of Contents

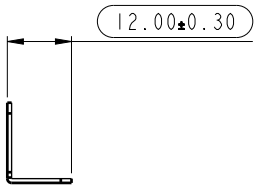
No.	Content	Ready "V"
01	客戶圖面 Drawing	V
02	首樣檢驗報告 FAI Report	V
03	材質證明 Material Certificate	V
04	SUS304 SGS Report	V

(End)

REV.	DATE	DESCRIPTION	BY	APVD
-	2023-04-17	ES SAMPLE VERSION	Laslie	-
0	2024-02-26	RELEASE FOR PRODUCTION	Laslie	







NOTE:
1.Material:SUS304 t=1.0
2. ◯ Inspection dimension.
3.Unspecified Dimension refer to CAD Drawing file.
4.RoHS Compliant.
5.DIVA QC Inspection Document NO.: QWI-014

設計驗證
工程課
2024-04-22
發行
鈺鑽科技開發股份有限公司

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION f	V m	c	THIRD ANGLE PROJECTION	UNITS:mm	SCALE: 1/1	SHEET: 1 OF 1	MODEL NO.: TR 50
					MATERIAL: SUS 304		TREATMENT:	
UP TO 30	±0.10	±0.20	±0.50	DSGD by Laslie	2023-04-17	PART NAME: CARD BRACKET		
ABOVE 30~120	±0.15	±0.30	±0.80	CHK by Ferris	2024-02-26			
ABOVE 120~315	±0.20	±0.50	±1.20	APVD by Laslie	2024-02-26	PART NO.: 3MD362ME220	REV. 0	
ABOVE 315~1000	±0.30	±0.80	±2.00	APVD NO.: (M3486)	3D FILE NAME: 0_CARD_BKT	DIVA Laboratories ,Ltd.		
ANGLE ±1°	±1.75/1001							

亨悅工業股份有限公司

樣品尺寸檢驗報告

CUSTOMER 客戶	**鈺緯**		DATE OF Manufacture 製造日期		**2024/3/12**
PART NAME 品名(英文)	**CARD BRACKET(TR 50)**		DATE OF INSP 檢驗日期		**2024/3/15**
P/N 品號	**3MD362ME220** *(M3486)*		MATERIAL 材質		**SUS 304 1.0T**
SURFACE TREAT 表面處理	**無**		成品數量	**30**	
PRINTING 印刷	**無**		抽樣數量	**5**	
Measuring Instrument 使用儀器	A:游標卡尺 B:高度規 C:角度規 D:分厘卡 E:孔規 F:投影机 G:R角規 H:牙規 I:量測儀器 J:外觀目視 K:檢驗治具(螺柱位置)				

No	Location 位置	Specification 圖面尺寸	SAMPLE READING 量測記錄							
			1	2	3	4	5	RE-SULT	MI	備註
1	**D5**	**86±0.3**	**86.03**	**86.05**	**86.01**	**85.96**	**86.07**	**OK**	**A**	
2	**D3**	**15±0.5**	**14.85**	**14.94**	**14.85**	**15.00**	**15.00**	**OK**	**A**	
3	**D9**	**12±0.3**	**12.08**	**12.04**	**11.94**	**12.05**	**12.08**	**OK**	**A**	
4	**B3**	**6.4±0.1**	**6.38**	**6.40**	**6.42**	**6.43**	**6.43**	**OK**	**A**	
5	**B4**	**3±0.1**	**2.99**	**3.00**	**2.98**	**3.00**	**3.01**	**OK**	**A**	
6	**B5**	**80±0.15**	**80.00**	**79.95**	**79.96**	**80.03**	**79.99**	**OK**	**A**	
7	**B4**	**15.83±0.1**	**15.84**	**15.81**	**15.83**	**15.86**	**15.83**	**OK**	**A**	
8	**B5**	**61.02±0.15**	**60.99**	**60.98**	**61.06**	**60.99**	**61.00**	**OK**	**A**	
9	**B7**	**ϕ4.5**	**OK**	**OK**	**OK**	**OK**	**OK**	**OK**	**E**	
10										
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25										

主管	檢驗者
湯昊丞	呂錫泰

客戶名稱：
Customer

訂單號碼： P3611201004
Contract No.

信用狀號碼：
L/C No.

檢驗證明書
INSPECTION CERTIFICATE

本單編號： 112020225
Certificate No.

列印日期： 2023/2/10
Date

唐榮公司
TANG ENG IRON WORKS CO., LTD.
YANHAI 2ND ROAD, KAOHSIUNG, TAIWAN

項次 Item	產品編號 Product ID.	爐號 Heat No.	產品型態 Product Form	鋼種 Steel Grade	表面 Finish	料別 Category	產品尺寸 Thickness × Width × Length	淨重 Net Weight	參照規範 Specification
1	D3468	B5058-2030	CS	304	No.2B	L	1.00mmX 1244mmX 1551m	15176 kg	ASTM A240-22a

項次 Item	化學成份 Chemical Composition (%)										機械性質 Mechanical Properties					
	C	Si	Mn	P	S	Cr	Ni	N	Cu		抗拉強度 T.S N/mm²	降伏強度 Y.S(0.2%) N/mm²	伸長率 Elong %	硬度 Hardness HRBW		Rp(1.0%) N/mm2
1	0.047	0.48	0.99	0.039	0.001	18.21	8.03	0.053	--		661	312	51.0	83.9	--	353

附註Remarks:

a. Product form -- CS：Cold-rolled stainless steel sheet in coil.
b. Inspection certificate in accordance with EN10204/Type3.1.
c. Chemical composition and mechemical properties including T.S, Y.S(0.2%P.S), Elong. in accordance with EN10028-7/Table 3 and EN10088-2/Table 1.
d. The material described above also in accordance with the requirement of AD2000-W2.
e. The material described above has been detected with free irradiation pollution.
f. The temperature of solution treatment is ranging 1040℃~1150℃ .
g. Grade designation originally assigned by the AISI (American Iron and Steel Institute).
h. Visual & Dimention inspection : conformity.
i. ASTM A480 NO1 finish same as EN 10028-7/EN10088-2 1D finish , ASTM A480 BA finish same as EN10028-7/EN10088-2 2R finish.
j. All the above products conform to the requirements specified in ASTM A480/A666 and ASME SA240M/SA480M.
k. Confirmation of adequate degree of reliability for the uniformity over the strip length with certificate issued by TÜV Rheinland Industrie Service GmbH dated 13.07.2020.

※ Certificate No. of Laboratory Accreditation (acc. to ISO/IEC 17025-2017) certified by TAF:L0365-200202
※ Certificate No. of TEQMS-ISO9001:2015 registered by TUV Rheinland Taiwan:01 100 822 106199
※ Certificate No. of QAS acc. to Directive 2014/68/EU(PED) (QMS acc. to EN 764-5, article 4.2 and AD2000-Merkblatt W0) registered by TUV Rheinland:01 202 TWN/Q-10 0218
※ Certificate No. of factory production control acc. to Regulation 305/2011/EU registered by TUV Rheinland:0035-CPR-A231

品保主管(Manager of QA Department)/Work Inspector

Yi-Peng Hung for

表 號：DQ301A

Report No. 報告號:	48214423h 001
Client 客戶:	TANG ENG IRON WORKS CO., LTD./唐榮鐵工廠股份有限公司 No 4. Yanhai 2nd Rd., Hsiao Kang, Kaohsiung 81260, Taiwan, R.O.C. 台灣 高雄市小港區 81260 沿海二路 4 號
Test item(s) 測試樣品:	1 material(s) of metal/金屬, metallic/金屬色
Identification/Model No(s): 樣品描述/規格:	不銹鋼 Stainless Steel / 304
Sample obtaining method: 樣品獲取方式:	Sending by customer
Condition at delivery: 樣品接收狀態:	Test item complete and undamaged.
Sample receiving date: 收樣日期:	2023-01-10
Testing period: 測試週期:	2023-01-10 – 2023-01-31
Place of testing: 測試地點:	TÜV Rheinland Hong Kong Ltd.

Test specification 測試要求:

According to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and its amendment Directive (EU) 2015/863: Total Content of Lead, Cadmium, Mercury, Chromium VI, Polybrominated Biphenyls, Polybrominated Diphenyl Ethers;
and Benzylbutyl phthalate (BBP), Dibutyl phthalate (DBP),
Bis(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate (DIBP) /
依據電機電子設備限用有害物質指令(RoHS 2011/65/EU) 附錄 II 及其修正指令 (EU) 2015/863: 鉛、鎘、汞、六價鉻、多溴聯苯、多溴二苯醚、
鄰苯二甲酸苯基丁酯、鄰苯二甲酸二丁酯、鄰苯二甲酸二(2-乙基己基)酯、
鄰苯二甲酸二異丁酯 之總含量

Test result 測試結果:

Pass/合格

For and on behalf of
TÜV Rheinland Taiwan Ltd.

2023-01-31
Date *日期*

Arthur Cheng/Project Manager
Name/Position *姓名/職位*

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.
"Decision Rule" document announced in our website (https://www.tuv.com/landingpage/en/qm-gcn/) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report..
樣品信息由客戶提供。測試結果根據所做測試的種類和範圍而得出。本測試報告僅對來樣負責。未經本測試中心許可，測試報告不得部分複製。不能根據此報告在上述產品或類似產品上使用任何安全標誌。本測試報告中，描述符合性聲明所應用的判定規則發佈在我司官網 https://www.tuv.com/landingpage/en/qm-gcn/。

Test Method/測試方法 : Total Cadmium/鎘, Lead/鉛, Mercury/汞, Chromium/鉻
- Ref. to/參考 IEC 62321-4:2013 and IEC 62321-5:2013
Chromium (VI)/六價鉻
- For Metal material/金屬 - Ref. to IEC 62321-7-1:2015
- For Plastic or Electronic material/塑膠或電子材料 - Ref. to IEC 62321-7-2:2017
- For Leather material/皮料 - Ref. to EN ISO 17075-1:2017
PBBs/多溴聯苯, PBDEs/多溴二苯醚 - Ref. to/參考 IEC 62321-6:2015

Sample/樣品明細 Material/材質 Lab.-No./實驗室編號		RL	不銹鋼 Stainless Steel / 304 metal/金屬 / metallic/金屬色 TCL230110-10
Cadmium (Cd) / 鎘	mg/kg	2	< RL
Lead (Pb) / 鉛	mg/kg	2	< RL
Mercury (Hg) / 汞	mg/kg	2	< RL
Chromium VI (Cr VI) / 六價鉻*	µg/cm²	0.1	< RL
Sum of Polybrominated biphenyls (PBBs) / 多溴聯苯	mg/kg	-	< RL
Monobromobiphenyl	mg/kg	5	< RL
Dibromobiphenyl	mg/kg	5	< RL
Tribromobiphenyl	mg/kg	5	< RL
Tetrabromobiphenyl	mg/kg	5	< RL
Pentabromobiphenyl	mg/kg	5	< RL
Hexabromobiphenyl	mg/kg	5	< RL
Heptabromobiphenyl	mg/kg	5	< RL
Octabromobiphenyl	mg/kg	5	< RL
Nonabromobiphenyl	mg/kg	5	< RL
Decabromobiphenyl	mg/kg	5	< RL
Sum of Polybrominated diphenyl ethers (PBDEs) / 多溴二苯醚	mg/kg	-	< RL
Monobromodiphenyl ether	mg/kg	5	< RL
Dibromodiphenyl ether	mg/kg	5	< RL
Tribromodiphenyl ether	mg/kg	5	< RL
Tetrabromodiphenyl ether	mg/kg	5	< RL
Pentabromodiphenyl ether	mg/kg	5	< RL
Hexabromodiphenyl ether	mg/kg	5	< RL
Heptabromodiphenyl ether	mg/kg	5	< RL
Octabromodiphenyl ether	mg/kg	5	< RL
Nonabromodiphenyl ether	mg/kg	5	< RL
Decabromodiphenyl ether	mg/kg	5	< RL

Notes/ 註釋:
- < = less than/小於
- RL = Reporting Limit/報告極限值
- N.A. = Not Applicable/不適用
- mg/kg = milligram per kilogram/毫克每公斤
- * Once the total Cr content in metal/ plastic or electronic sample is found to be exceeded the limit, the Cr (VI) content will be confirmed with reference to IEC 62321-7-1:2015/ IEC 62321-7-2:2017/ 一旦金屬/塑膠/電子樣品內總鉻含量超過最大允許限值，六價鉻含量將依照 IEC 62321-7-1:2015/ IEC 62321-7-2:2017 進行確認。

Chromium (VI) concentration 六價鉻含量	Qualitative result 定性結果
<0.1µg/cm²	The sample is negative (-ve) for Cr(VI). The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating. 樣品六價鉻測定結果為陰性。 六價鉻濃度低於定量限，塗層視為非六價鉻塗層。
≥0.1µg/cm² and ≤0.13 µg/cm²	The result is considered to be inconclusive. Unavoidable coating variations may influence the determination. Recommendation: if additional samples are available, perform a total of 3 trials to increase sampling surface area. Use the averaged result of the 3 trails for the final determination. 六價鉻測定結果為無法判定。 塗層的差異不可避免的可能影響測定。 推薦：如果有額外的樣品，測試加大樣品表面積的三平行樣。以三平行測試的平均值作為最終測定結果。
>0.13 µg/cm²	The sample is positive (+ve) for Cr(VI). Concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI). 六價鉻測試結果為陽性。六價鉻濃度高於定量限及統計誤差幅度。樣品塗層視為含有六價鉻。

	Cd/鎘	**Cr(VI)**/ 六價鉻	**Pb**/鉛	**Hg**/汞	**PBBs**/ 多溴聯苯	**PBDEs**/ 多溴二苯醚
Maximum permissible Limit acc. to 2011/65/EU (mg/kg) / 允許限值	100	1000	1000	1000	1000	1000

Test Method/測試方法 : BBP/DBP/DEHP/DIBP - Ref. to IEC 62321-8:2017 / 參考 IEC 62321-8:2017

Sample/樣品明細 Material/材質 Lab.-No./實驗室編號		RL	不銹鋼 Stainless Steel / 304 metal/金屬 / metallic/金屬色 TCL230110-10
Benzylbutylphthalate (BBP) /鄰苯二甲酸苯基丁酯	mg/kg	50	< RL
Dibutylphthalate (DBP) /鄰苯二甲酸二丁酯	mg/kg	50	< RL
Diethylhexylphthalate (DEHP) /鄰苯二甲酸二(2-乙基己基)酯	mg/kg	50	< RL
Diisobutylphthalate (DIBP) /鄰苯二甲酸二異丁酯	mg/kg	50	< RL

Notes/ 註釋:
- < = less than/小於
- RL = Reporting Limit/報告極限值
- N.A. = Not Applicable/不適用
- mg/kg = milligram per kilogram/毫克每公斤

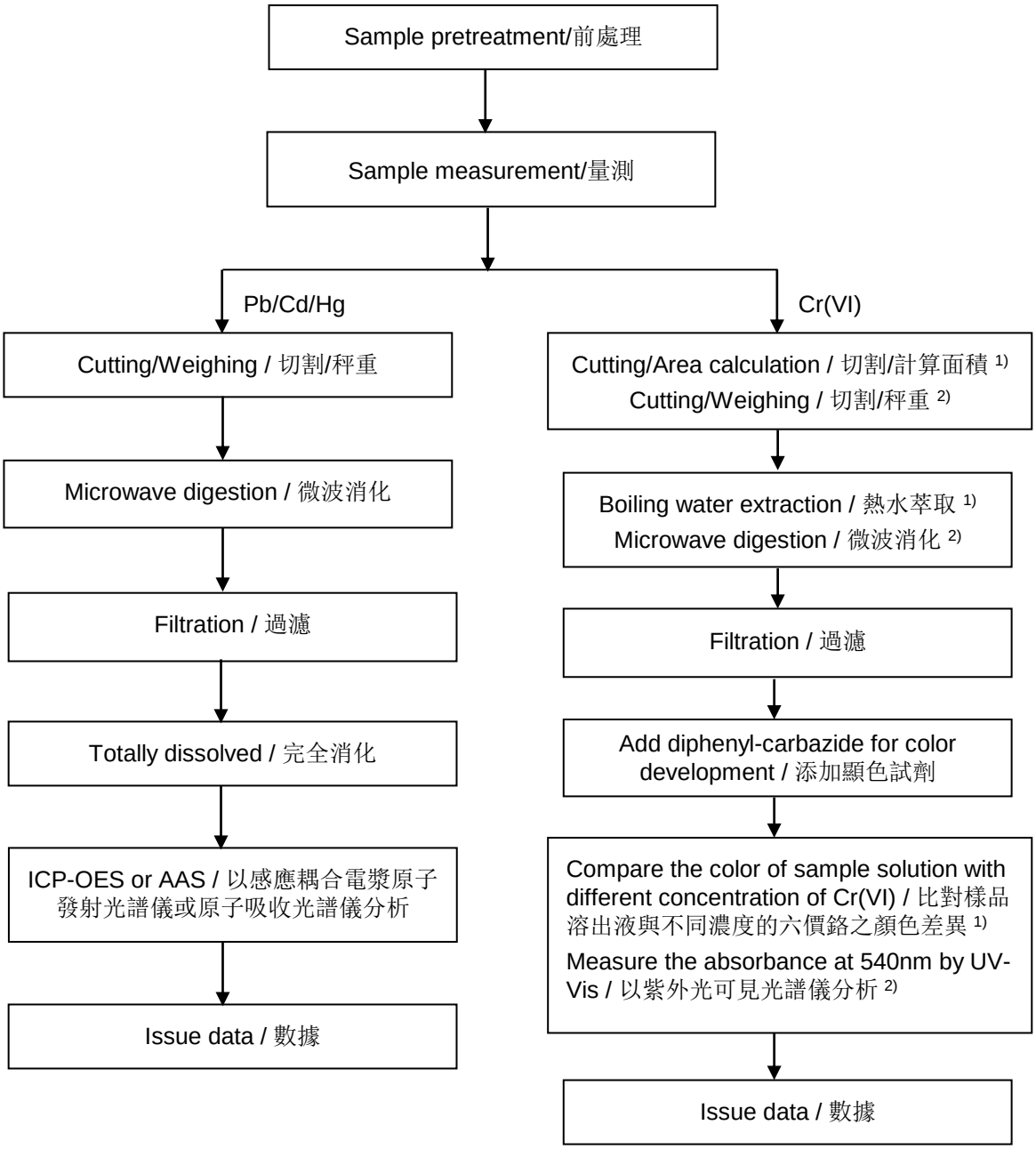
	BBP 鄰苯二甲酸苯基丁酯	**DBP** 鄰苯二甲酸二丁酯	**DEHP** 鄰苯二甲酸二(2-乙基己基)酯	**DIBP** 鄰苯二甲酸二異丁酯
Maximum permissible Limit acc. to (EU) 2015/863 (mg/kg) / 允許限值	1000	1000	1000	1000

Test Sample/測試樣品



Testing procedure / 測試流程圖 :

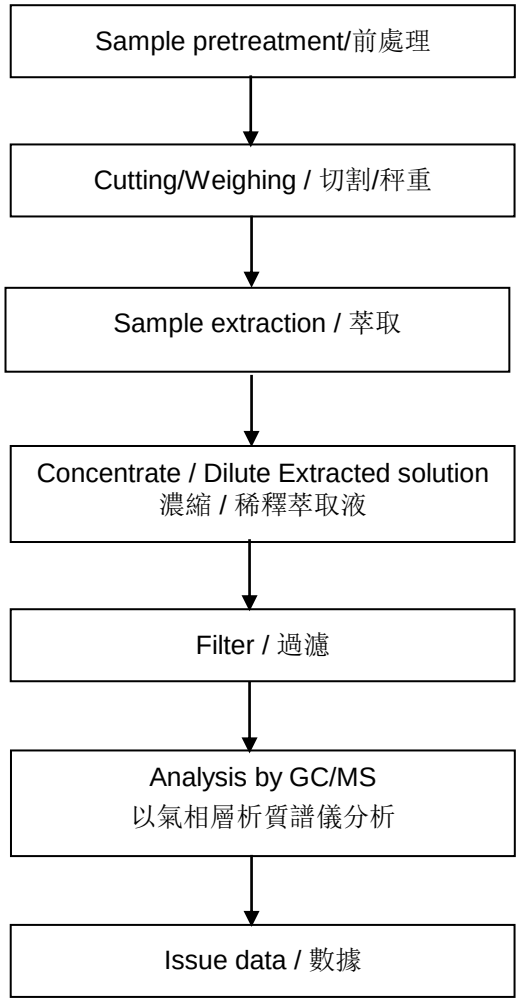
RoHS (Pb/鉛, Cd/鎘, Hg/汞, Cr(VI)/六價鉻)



Notes/ 註釋: 1) For metallic material / 用於金屬物質
2) For non-metallic material / 用於非金屬物質

Testing procedure / 測試流程圖：

RoHS (PBBs/多溴聯苯, PBDEs/多溴二苯醚, BBP/鄰苯二甲酸苯基丁酯、DBP/鄰苯二甲酸二丁酯、DEHP/鄰苯二甲酸二(2-乙基己基)酯、DIBP/鄰苯二甲酸二異丁酯)



--- End of Test-Report / 此報告結束---