TEST REPORT

Applicant: E-TECH Co., Ltd.

Model no.: IP100

Standards: MIL-STD-810F

SGS TESTING KOREA CO., LTD.

General Description

Test report No.: AT-04-003

Type of equipment: FM Handheld Transceiver

Model No.: IP100

Applicant: E-TECH Co., Ltd.

Standard: MIL-STD-810F

Test result : Complies

We confirm that all test suites have been carried out from the samples submitted, in conformity with the specification of respective standards.

Without written authorization of SGS, it is not allowed to use a copy of any scripts from this test report.

Date of Test: July 08, 2004 ~ July 14, 2004

Tested by: Feel Jeong

Date of issued: July 15, 2004

Approved by: James Kwon

Recorded by	Chief Engineer	Feel Jeong	2 way
Reviewed by	Technical Manager	James Kwon	1010



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ITEM

HIGH TEMPERATURE STORAGE TEST

PRODUCT	CUSTOMER	E-TECH Co., Ltd.	TEST TEAM	R&TTE	
TEST SPEC MIL-STD-810F 501.4 PROC1 PAGE 1	PRODUCT	FM handheld Transceiver	TESTER	JEONG SEUNG PIL	
TEST AFTER TEST 1.Temperature: 60 (140°F) 2.Humidity: 0% 3.Test time: 48h 4.Check cycle: after test 0% 5.Packing standard 6.Sample q,ty:1set 7.Test equipment: Temperature and humidity chamber TEST RESULT SET NO. TEST DURING AFTER TEST NO PROBLEM	MODEL	IP100	DATE	2004. 07.08 ~ 07.10	
Z.Humidity: 0% 3.Test time: 48h 4.Check cycle: after test 5.Packing standard 6.Sample q,ty:1set 7.Test equipment : Temperature and humidity chamber TEST RESULT SET NO. TEST DURING 140°F 0% 25 77°F AFTER TEST IP100 - NO PROBLEM	TEST SPEC	MIL-STD-810F 501.4 PROC1	PAGE	1	
SET NO. TEST DURING AFTER TEST IP100 - NO PROBLEM		2.Humidity: 0% 3.Test time: 48h 4.Check cycle: after test 5.Packing standard 6.Sample q,ty:1set 7.Test equipment: Temperature and	140°F 0% 25	48 h	
IP100 - NO PROBLEM	TEST RESULT				
	SET NO.	TEST DURING		AFTER TEST	
REMARK -The appearance,function and performance must be ok.	IP100	-		NO PROBLEM	
	REMARK	-The appearance,function and	performance	must be ok.	



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ITEM

TEMPERATURE CYCLE TEST

CUSTOMER	E-TECH Co., Ltd.	TEST TEAM	R&TTE	
PRODUCT	FM handheld Transceiver	TESTER	JEONG SEUNG PIL	
MODEL	IP100	DATE 2004. 07.10 ~ 07.12		
TEST SPEC	MIL-STD-810F 501.4 PROC1	PAGE 2		
	1.Temperature:33(77°F)~60 (140°F)	60 .	4h	
	2.Humidity: 0%	140°F		
	3.Test time: 40h	33	6h /	
TEST	4.Check cycle: after test	91°F		
CONDITION	5.Packing standard	25/	/	
	6.Sample q,ty:1set	77°F		
	7.Test equipment : Temperature and		← 3cycle ←	
	humidity chamber			
	TEST	RESULT		
SET NO.	TEST DURING		AFTER TEST	
IP100	-		NO PROBLEM	
REMARK	- The appearance, function and performance must be ok.			



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ITEM

LOW TEMPERATURE STORAGE TEST

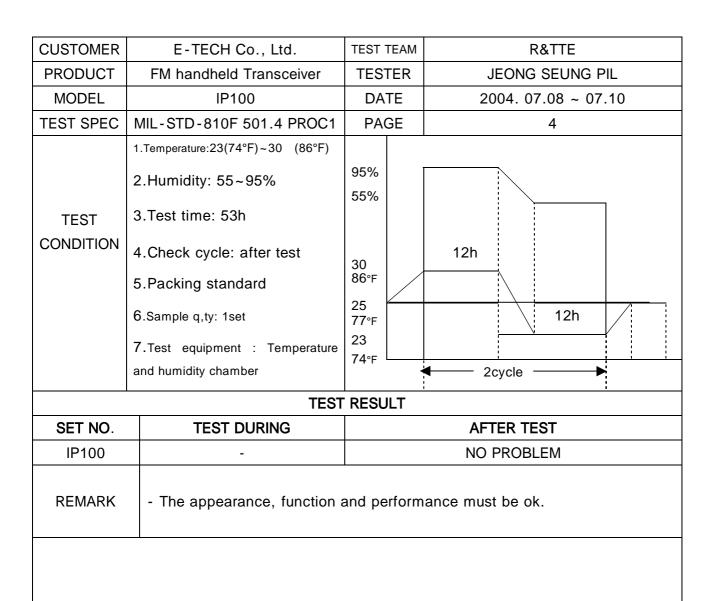
CUSTOMER	E-TECH Co., Ltd.	TEST TEAM	R&TTE
PRODUCT	FM handheld Transceiver	TESTER	JEONG SEUNG PIL
MODEL	IP100	DATE	2004. 07.11 ~ 07.12
TEST SPEC	MIL-STD-810F 501.4 PROC1	PAGE	3
TEST CONDITION	1.Temperature:-51 (-60°F) 2.Humidity: 0% 3.Test time: 24h 4.Check cycle: after test 5.Packing standard 6.Sample q,ty:1set 7.Test equipment : Temperature and humidity chamber	25 77°F 0 -51 -60°F	24h
	TEST	RESULT	
SET NO.	TEST DURING		AFTER TEST
IP100	-		NO PROBLEM
REMARK	- The appearance, function a	and perform	ance must be ok.



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ITEM

TEMP&HUMIDITY CYCLE TEST



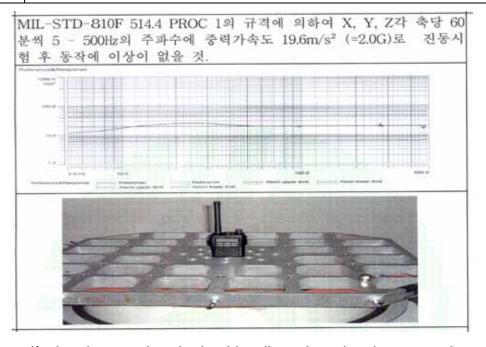


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VIBRATION TEST

CUSTOMER	E-TECH Co., Ltd.	TEST TEAM	R&TTE
PRODUCT	FM handheld Transceiver	TESTER	JEONG SEUNG PIL
MODEL	IP100	DATE	2004.07.08~07.13
TEST SPEC	MIL-STD-810F 501.4 PROC1	PAGE	5
TEST CONDITION	1.Test axis: x,y,z 2.Acceleration: 19.6m/s² (2.0G) 3.Frquency: 5~500Hz 4.Test duration:180min/axis	TEST STATE	refer to the test result
TEST RESULT			
SET NO.	TEST DURING	AFTER TEST	
IP100	-	NO PROBLEM	
REMARK	- The appearance, function and	ance, function and performance must be ok.	



This is to certify that the sample submitted by client above has been tested.

SGS Testing Korea Co., Ltd.

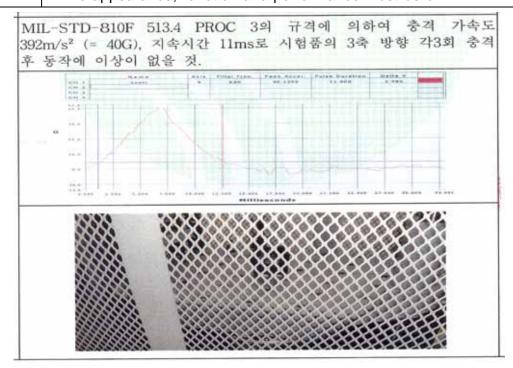


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ITEM

SHOCK TEST

CUSTOMER	E-TECH Co., Ltd.	TEST TEAM	R&TTE	
PRODUCT	FM handheld Transceiver	TESTER	JEONG SEUNG PIL	
MODEL	IP100	DATE	2004.07.08~07.13	
TEST SPEC	MIL-STD-810F 501.4 PROC1	PAGE	6	
	1. Acceration:392m/s ² (40G,s)			
TEST	2. Duration: 11msec	TEST	refer to the test result	
CONDITION	3. Test axis: X,Y,Z axis 3 time	STATE		
	TEST RESULT			
SET NO.	TEST DURING	AFTER TEST		
IP100	-	NO PROBLEM		
REMARK	- The appearance, function and performance must be ok.			





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ITEM

DROP TEST (NONE PACKING SET)

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CUSTOMER	E-TECH Co., Ltd.	TEST TEAM	R&TTE	
PRODUCT	FM handheld Transceiver	TESTER	JEONG SEUNG PIL	
MODEL	IP100	DATE	2004. 07.14	
TEST SPEC	MIL-STD-810F 501.4 PROC1	PAGE	7	
	1. Weight(none packing):266g			
TEST	2.heigh of drop: 48inch	TEST		
CONDITION	3.Drop section:	STATE	refer to the test result	
	4corners (bottom side)			
TEST RESULT				
SET NO.	TEST DURING		AFTER TEST	
IP100	-		NO PROBLEM	
REMARK - The appearance, function and performance must be ok.				



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ITEM

DROP TEST (PACKING C/T)

CUSTOMER	E-TECH Co., Ltd.	TEST TEAM	R&TTE	
PRODUCT	FM handheld Transceiver	TESTER	JEONG SEUNG PIL	
MODEL	IP100	DATE	2004. 07.14	
TEST SPEC	MIL-STD-810F 501.4 PROC1	PAGE	8	
	1. Weight(packing):1.4kg			
TEST	2.Heigh of drop: 120Cm	TEST		
CONDITION	3.Drop section:	STATE	refer to the test result	
	8corners,12edges, 6sides			
	-			
TEST RESULT				
SET NO.	TEST DURING AFTER TEST		AFTER TEST	
IP100	- NO PROBLEM			
REMARK - The appearance, function and performance must be ok.				



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PHOTO

CUSTOMER	E-TECH Co., Ltd.	MODEL	IP100
PRODUCT	FM handheld Transceiver	DATE	2004.07.08~07.14



SET UP PHOTO



IP100 PHOTO

SGS Testing Korea Co., Ltd.